

SCI Store

# **Administrator User Guide**

For SCI Store Release 8.5

SCI-DPUG-009

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# **1** Introduction

# 1.1 Purpose

This document provides a comprehensive guide to the administration functions within SCI Store 6.0.

# **1.2 Intended Audience**

This document should be read those who fulfil the role of local SCI Store System Administrator.

**Note:** End users that require a description of the End User features, such as the Find Patient or Find Result, should refer to the following document: "SCI Store - End User Guide"

# 1.3 Scope

The rest of this document is organised into the following sections:

- Section 2: Interfaces
- Section 3: Administration
- Section 4: Administration reports

# 2 Interfaces

# 2.1 Overview

The configuration and management of interfaces in SCI Store are integrated into the web front end of the application. An automatic background service checks to see which interfaces are waiting to be run, then starts them. The flexible patient matching model allows each interface to have its own patient matching algorithm if required.

# 2.2 Create New Interface

Select "Configuration" from the main menu and choose "Maintain Interfaces" from the sub-menu

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	Document Find Treatment Log				Patient 1	D:	G
	Configuration Exceptions Mgm	Security Maintenanc	e Reporting Gen	eral Notifications			
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Records Returned							
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Service Type Description	Service Name	Polling Interval	Batch Size	Status			
eToDatabase	ApexFile2DB	10	10	On			
leToDatabase	CHI InitialFile2DB	10	10	On			
leToDatabase	CHI_BroadCastFile2DB	10	10	On			
leToDatabase	COMPASFile2DB	10	10	On			
eToDatabase	ECSFile2DB	30	100	On			
eToDatabase	HomerFile2DB	10	10	On			
leToDatabase	MasterlabFile2DB	10	100	On			
leToDatabase	MedipathFile2DB	10	10	On			
leToDatabase	MiSYSFile2DB	20	20	On			
leToDatabase	iLabFile2DB	20	20	On			
leToDatabase	TelepathFile2DB	10	10	On			
leToDatabase	XMLFile2DB	10	10	On			
leToDatabase	XML40File2DB	10	10	On			
leToDatabase	XML60File2DB	10	10	On			
plitterFromDatabase	ApexSplitter	10	10	On			
plitterFromDatabase	CHI_InitialSplitter	10	10	On			
plitterFromDatabase	CHI_BroadcastSplitter	10	10	On			
plitterFromDatabase	ECSSplitter	10	30	On			
	HomerSplitter	10	100	On			
	MasterlabSplitter	10	100	On			
plitterFromDatabase			100	On			
plitterFromDatabase plitterFromDatabase	MedipathSplitter		20				
plitterFromDatabase plitterFromDatabase plitterFromDatabase	iLabSplitter	20	20	On			
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A table containing all existing Interfaces is displayed.

Clicking the button Run Services Once action from the dropdown list, point 2 in the diagram above, runs each of the Windows Services once, taking a file from its source and saving it into SCI Store.

Click the 🛨 button, as highlighted by point 1 on the diagram above.

The system will display the "**New Interface**" screen, shown in the following diagram.

Mandatory fields must be completed; these are identified using a red asterix, as shown in point 3 of the diagram below.

🖉 New Interface - Windows Internet Explorer		
COO + D http://localhost/StoreWeb/Restricted/Services/ServicesNew.aspx	🖌 🛃 🗙 Googl	e <b>P</b> •
Elle Edit View Favorites Iools Help		
Google Search * 🛷 * Ø 🗣 📓 * 🔍 Sidewiki * 🍄 Check * 🗟 Translate * 📔 AutoFill * 🖉		🔦 🔹 🔵 Sign In 🔹
Rever Interface	<u>6</u> • ₪	
SCI Store Paisley	My Settings	About Store Log Out
Home Find Patient Find Result Find Document Find Treatment Log		Go Go
Configuration Exceptions Mgmt Security Maintenance Reporting General	Notifications	User: admin on PJSSCI6
New Service Definition		
Service Type TranslatorFromDatabase		
Service Name *		
Polling Interval		
Batch Size * (records)		
Status @ on C off		
Match Patient Default Match Patient		
		~
Done	Sector Se	l intranet 🔍 100% 🔹

Select the **Service Type** from the drop down menu. (This describes what type of interface is being run).

Enter the **Service Name**, for example, 1-Telepath.

Enter a **polling interval** value in seconds

For servers that run many interfaces simultaneously, the processing needs to be managed to ensure that each interface gets an adequate amount of processing time. The **Polling Interval** manages this by dictating the time period between the interface checking for new files available for processing.

Enter batch size quantity (number of records)

The **Batch Size** signifies how many records are processed before the processor is released e.g. 50 records.

To switch the service on, set the status radio button to "on"

To assign a **Match Patient** algorithm to the interface an option should be selected from the drop down list.

Note: The **Mapping Group** should also be assigned in the same way.

Click the **Save** icon (point 1 on the diagram above) and then click on the **return** icon (point 2 on the diagram above) to be returned to the main **Configure** menu.

# 2.3 Amend Existing Interface Service

From the **Maintain Interfaces** screen a service can be amended by clicking on the relevant service. This will open the **Amend Interface** screen. Mandatory fields are highlighted using a red asterix (point 1 diagram below).

🖉 Amend Interface - Windows Internet Explorer		
G V Filtp://localhost/StoreWeb/Restricted/Se	rvices/ServicesAmend.aspx?ServiceId=7	Google
Elle Edit Yiew Favorites Iools Help	🚼 Search • 🖟 🧔 • 🥖 🌵 - 🔯 • 🔲 Sidewiki • 👹 Check • 👪 Translate • 🍗 AutoFill • 🍃	🖏 🔹 🔵 Sign In 🔹
🚖 🏟 🌈 Amend Interface		🟠 • 🔊 - 🖶 • 🔂 Page • 🎯 Tools • *
SCI Store Paisley		My Settings About Store Log Out
Home Find Patient Find Result Find Docu	ment Find Treatment Log	Patient ID: Go
	onfiguration Exceptions Mgmt Security Maintenance Reporting General Notifications	
Amend Interface		User: admin on PJSSCI6
⇔ × 🛓 ୬←4		Actions Select Action V Go
Amend Service Definition		
Service ID	7	
Service Type	FieToDatabase	
Service Name *	MasterlabFile2DB	
Polling Interval *	10	
Batch Size *	100	
Status	©on Coff	

The **Service ID** is filled automatically by the system. This is a unique identifier for the service.

The **Service Type** can be selected from a drop down menu; it describes what type of interface is being run.

Where there is the case that the server runs many interfaces simultaneously the processing needs to be managed to ensure that each interface gets an adequate amount of processing time. In order to do this the **Polling Interval** can be set (in seconds) to dictate the time period between the interface checking for new files available for processing.

The **Batch Size** (number of records) determines how many records are processed before the processor is released.

The interface can be switched on and off by changing the **Status**.

To assign a **patient matching** algorithm to the interface an option should be selected from the drop down list.

Click the **Save** icon to record the entry (point 2, diagram above). Click the **Return to Interfaces** icon (point 3, diagram above) to be returned to the main **Configure** menu.

# 2.4 Configure Interface Service

This section explains how to configure the following interface services:

- FileToDatabase
- SplitterFromDatabase
- TranslatorFromDatabase

To configure the interface, select the interface and then press the **Configure** button (point 4 on the previous diagram). This will display the configuration screen.

Note: the configuration screen displayed depends on the type of interface selected.

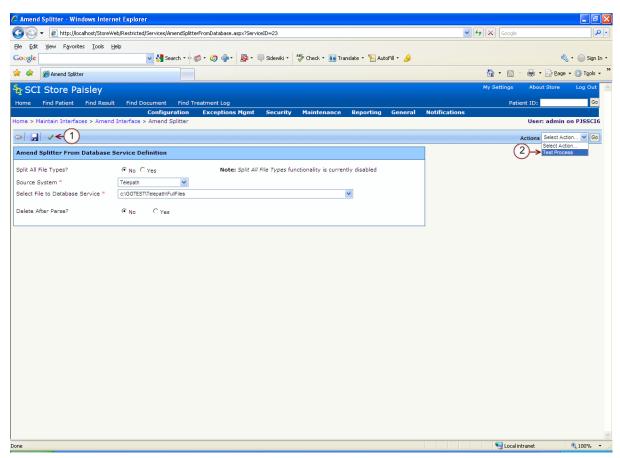
🖉 Amend File to DB - Windows Intern	iet Explorer			_ @ 🛛
GO - 🖉 http://localhost/StoreWeb/	Restricted/Services/AmendFileToDatabase.aspx?ServiceID=11	😽 🗙 Google		P -
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Google	🚽 🚼 Search * 🗄 🧭 * 🧭 🐈 🔯 * 🔲 Sidewiki * 👫 Check * 🜆 Translate * 📔 AutoFill * 🌽		ج •	🔵 Sign In 🔹
🚖 🕸 🌈 Amend File to DB		🚹 • 🔊 ·	🖶 🔹 🔂 Page 🔹	💮 T <u>o</u> ols 🔹 "
SCI Store Paisley		My Settings	About Store	Log Out
Home Find Patient Find Result	Find Document Find Treatment Log	Patie	nt ID:	Go
Home > Maintain Interfaces > Amend In	Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications		User: admin on	PIESCIE
<ul> <li>□</li></ul>		Actio	Select Action Select Action	Go
Amend File To Database Service D	Definition	2	Test Process     Set Default Values	s
Source System	Telepath 🗸	_		
Source Path *	c:\GGTEST\Telepath\FullFiles			
File Pattern *				
Requires Splitting?	C No € Yes Note: If Requires Splitting = "No", there is no need to use the "Split from Database" service			
Delete After Splitting?	€ No C Yes			
Archive Directory *	c:IGGTESTITelepath/FullFiles/Archive			
Exception Archive Directory *	c:\GGTEST\Telepath\FullFiles\Exception			
				~
Done		Second Local int	ranet 🤨	100% -

## 2.4.1 "File To Database" Service

To configure the FileToDatabase service, the following information needs to be set:

- Source System which lab/PAS system the service is processing e.g. Telepath, Masterlab, Apex, MiSys, COMPAS, Homer.
- Source Path the location of the files that the service is processing
- File Pattern the type of files that the service is processing. For example, if the service is processing ".txt" files, "\*.txt" should be entered, Telepath files (tlp files) are denoted by "\*.tlp" whilst Apex files (df files) are denoted by "\*.df". Entering "\*.\*" will process all file types.
- Requires Splitting do the files that are sent from the source system need to be split into individual files in order to be processed? **Note** if splitting is not required then it is not necessary to create a SplitterFromDatabase service.
- Delete After Splitting do the initial bulk files need to be deleted after they were split into individual files?
- Archive Directory location of the directory where the processed files are archived after processing (Optional).
- Exception Archive Directory location of the directory where files that have created an exception during processing are archived (Optional).
- Clicking on the **Test Process** button ✓ or action in the dropdown list, points 1 and 2 on the previous diagram, will test that the interface has been set up correctly.
- Selecting the **Set Default Values** action from the dropdown list, point 2 on the previous diagram, will reset the default values for the page.

# 2.4.2 "Splitter From Database" Service



- To configure a SplitterFromDatabase service, the following information needs to be set:
- Split All File Types? Not currently available
- Source System which lab/PAS system the service is processing e.g. Telepath, Masterlab, Apex, MiSys, COMPAS, Homer.
- Select File to Database Service this value will be populated with the value of the Source Path field configured in the FiletoDatabase service created previously. If more than 1 appropriate FiletoDatabase service exists, the correct Source Path must be selected from the drop-down list.
- Delete After Parse? Does the file need to be deleted after it has been processed?
- Clicking on the **Test Process** button do raction in the dropdown list, points 1 and 2 on the previous diagram, will test that the interface has been set up correctly.

#### 2.4.3 "Translator From Database" Service

All relevant information for the interface needs to be entered on the configuration screen.

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Home       Find Pa         Home       Find Pa         Iome > Maintain In         There is a sec	re Paisley ttient Find R co tterfaces > Am ondary transl (1) tor From Data e B	/ tesult Fi onfiguratio end Interfac lator defin base Serv	n Exception ce > Amend Tra ed for this into	is Mgmt nslator		Maintenance	Reporting	g General		My Settings	About Store	Log Out Go
Home Find Pa	tient Find F Co iterfaces > Amo ondary transl (-1) for From Data re Br	tesult Fi onfiguratio end Interfac lator defin base Serv	n Exception ce > Amend Tra ed for this into	is Mgmt nslator		Maintenance	Reporting	g General	Notifications		nt ID:	Go
Home Find Pa	tient Find F Co iterfaces > Amo ondary transl (-1) for From Data re Br	tesult Fi onfiguratio end Interfac lator defin base Serv	n Exception ce > Amend Tra ed for this into	is Mgmt nslator		Maintenance	Reporting	) General	Notifications		nt ID:	Go
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There is a sec Contraction of the second se	ondary transl	ator defin base Serv	ed for this into									
Amend Translat	or From Data		rice Definition									
	e Be		rice Definition								Actions Sele	
Interface File Typ		espoke										t Action Process
	Те		~									
Source System		elepath	*								1.0	
Select File to Data Service *	abase E:	Reg_Interfac	e\Telepath\FullFiles					*				
Interface Type	6	Results C	Demographics	O ECS								
Seeded Record												
Reject Invalid Po	stcodes 🗌											
Identify Anonymo	ous 🗆											
Enable for Demo Feeds	graphic 🗌											
ID Format Group			*									
Demographic Par	sing Date		*									
Result Parsing Da	ite		~									
Demographic U	adatas											
	Patie	et _				_	_		_			
СНІ 🔽	IDs	ent 🔽	Name	<b>V</b>	Addres	s 🗸	Postcode 🔽	Sour	ce 🔽			
Registered 🔽	Prac	tice 🔽	Consul	tant 🔽	Ward	•	Hospital 🗌					
Colorena And M												
Schemes And M	appings											
GMC Scheme		✓ M	ар									
									•	Local intranet		<b>100%</b> •

Options than can be configured include:

- choose the Source System that will feed data into SCI Store
- choose the Interface Type (i.e. is it feeding in results, demographics or ECS information)
- updating CHI Number, Patient Identifiers, Name, Address, Postcode or Source System fields
- updating the GP, Consultant, GP Practice, Ward or Hospital fields
- allowing the translator to Identify Anonymous patients. When the checkbox is checked an Anonymous Translator dropdown list becomes available. An appropriate translator should be selected from the list to proceed. If the checkbox is unchecked no anonymous patients will be processed. Please note an additional translator for use with Anonymous patients must be setup prior to checking the Identify Anonymous checkbox, see section 3.17.1 for setting up Anonymous Translator.
- seeding records within files (i.e. When these records come down initially, they will have a flag set in the database that denotes that the record has been untouched by another system – this is predominantly of use to CHI/Demographics downloads. Security can then be set-up to hide/show patients on this basis.)

- applying an ID Format Group to the interface (see 2.8)
- applying a Demographic or Result parsing date to the interface. Files being fed into Store will be checked against the parsing date chosen to decide whether the data they contain should become the current information for the patient or should be inserted directly into historical information.
- If the date on the file is greater than or equal to the transaction date held within SCI Store for this patient, then the data on file becomes the current information.
- If the date on file is less than the transaction date held within SCI Store for this patient, then the data on file becomes historical information.
- Clicking on the **Test Process** button ✓ or action in the dropdown list, points 1 and 2 on the previous diagram, will test that the interface has been set up correctly.

# 2.5 Configure a Manual Document Upload interface

#### 2.5.1 Create / Amend a Manual Document Upload Interface

To create a Manual Document Upload interface follow the instructions in section 2.2. When selecting 'Manual Document Upload' from the drop down list on the New Interface screen the display will alter as shown below:

<del>ି</del> ଦ୍ୱ SC	I Store Pa	aisley								
Home	Find Patient	Find Result	Find Do	cument	Find T	reatme				
C	onfiguration	Exception	s Mgmt	Securit	y M	ainten				
Home > Maintain Interfaces > New Interface										
¢=   🔓										
New Se	ervice Definitio	on								
Service	Туре	ManualD	ocumentUple	oad 🔽						
Service	Name *									
Status		• On	00	Off						
L										

Only the Service Name and Status are configurable for a Manual Document Upload; Batch Size and Polling Interval are not applicable as a Manual Document Upload is not executed as part of the Store windows service and is only used on an ad-hoc basis.

To amend a Manual Document Upload interface follow the instructions in section 2.3, and the Amend Interface screen is displayed as below:

SCI Store Paisley										
Home	Find Patient	Find Result	Find Docu	ment	Find Treatmer	nt Lo				
Config	uration E	xceptions Mgn	nt Secur	ity	Maintenance	R				
Home > N	laintain Interfa	aces > Amend Ir	nterface							
⇔   ×	⇔   × 🛃 🖉									
Amend	Service Defi	nition								
Service	ID	48								
Service	Туре	ManualDocu	imentUpload	*						
Service	Name *	ManualDocU	pload							
Status		⊙ On	C off							

#### 2.5.2 Configure a Manual Document Upload Source

To configure a Manual Document Upload service, select the interface in the Services menu and press the Configure button 'P'; the Amend Manual Document Upload screen is displayed as below:

SCI Store Paisley										
Home	Find Patient F	ind Result	Find Docur	ment	Find Treatme	nt Log				
	Configu	ration	Exceptions	Mgmt	Security	Maintenance	Reporti			
Home > Maintain Interfaces > Amend Interface > Amend Manual Document Upload										
⇔  📮										
Manual	Document Uploa	ad								
Docume	nt Source*	ManualU	lpload				]			
Docume	nt Extension*	.doc, .po	lf				]			
Docume	nt Size Limit*	4,096	kВ							
Allow Fu	ture Attestation Da	ate No 💊	1							
Docume	nt Storage	⊙ Loc	al SCI Store	O Remo	ote SCI Store	DB C File Server				

The Manual Document Upload is configured as follows:

- **Document Source:** Name for the Manual Document Upload source specifying the origin of the uploaded documents. It will be included in search options for Documents Exception Management.
- **Document Extension:** The valid file extension(s) for this interface.
- **Document Size Limit:** The maximum file size that can be uploaded in KB.

- Allow Future Attestation Date: Determines if a future attestation date is allowed (Yes / No)
- Document Storage: The options available for document storage
  - Local SCI Store: document is stored in the local Store database
  - Remote SCI Store DB: Stores the document in a separate SCI Store database. On selecting this option a text box is made available to enter the DSN of the remote SCI Store database. E.g. user id=dbuser;password=dbpwd;initial catalog=Storedb;data source=storeserver;Connect Timeout=30
  - File Server: Stores the document in a specified file store. On selecting this option a text box is made available to enter the Remote File URL. E.g. \\OtherServer\RemoteDocs\

For further details on the configurable aspects of document upload interfaces in SCI Store see document '*Installation and Configuration Guide – SCI Store Clinical Documents Interface*'

# 2.6 Configure Notification Services Interfaces

## 2.6.1 Notification Generation Interfaces

The generation of Notifications is controlled via the following interface types

- PatientNotificationGeneration
- ResultNotificationGeneration
- TreatmentLogNotificationGeneration

The three generation interface types are all fairly similar and control their relevant notification types. Only one instance of each of these can be created.

Each interface can be configured with a polling interval and batch size. The polling interval will control how often the interface will execute, with the batch size controlling the number of events that are processed with each execution.

<del>ି</del> ନ୍ଦୁ SC	I Store Pai	isley						My
Home	Find Patient	Find Result	Find Docu	ment	Find	Treatment Log		
	Configuration	Exceptio	ons Mgmt	Secu	rity	Maintenance	Repo	rting
Home > I	Maintain Interface	s > Amend Ir	nterface					
⇔   ×								
Amend	Service Definit	tion						
Service	: ID	60						
Service	туре	PatientNo	tificationGener	ration	*			
Service	Name *	PatientNot	ificationServic	e				
Polling	Interval *	10						
Batch S	Size *	100						
Status		💿 On	C off					

Switching these interfaces off will suspend the notification generation for the relevant notification type.

**NB** – To try and ensure that no duplicate notifications are produced the batch size may be expanded during the execution of the interface. The interface will get the first X events based on the date. It will then use the latest date returned to select the events to process. This ensures that all results that have the same creation date are executed in the same batch.

#### 2.6.2 Notification Maintenance Interface

The maintenance and clean up of the notification services tables is handles by a new NotificationMaintenanceTask interface type.

This interface type can be configured to delete processed events and consumed notifications after X days. Multiple instances of this interface type can be created, and each can be configured to run only between certain times of day.

Each instance can is configured with a polling interval and batch size. The polling interval will control how often the interface will execute. The batch size controls the number of events/notifications that are deleted in each execution.

र्द <u>ी</u> SC	I Store Pa	isley				
Home	Find Patient	Find Result	Find Docu	iment Fin	d Treatment Log	
	Configuration	Exception	ons Mgmt	Security	Maintenance	Repo
Home > I	Maintain Interface	es > Amend Ir	nterface			
\$   X	<b>]</b> P					
Amend	Service Defini	tion				
Service	ID	59				
Service	туре	Notificatio	onsMaintenanc	eTask 🗸 🗸	•	
Service	Name *	Notificatio	nMaintenance	Service	]	
Polling 3	Interval *	10			]	
Batch S	Size *	100			]	
Time Fr	rom	00:00				
Time To	D	00:59 🛟				
Status		O On	Off			

Each instance can then be configured to delete combinations of the following items:

- Patient Events
- Result Events
- Treatment Log Events
- Notification History Messages

When an item is selected, a value must be supplied to define the number of days (X days) to keep the events/notifications. Events older than X days are deleted in batches the size of the batch size configured earlier.

SC SC	I Store Pa	isley				My
Home	Find Patient	Find Result	Find Docur	nent Find	l Treatment Lo	g
	Configuration	Excepti	ons Mgmt	Security	Maintenan	ce Reporting
Home > I	Maintain Interfac	es > Amend I	nterface > Ar	nend Notifica	tion Maintenar	nce Service
G   📮						
Amend	Notification M	aintenance S	Service Defi	nition		
☑ Dele	ete Patient Event	s	Del	ete Patient E	vents after	30 * days
🗹 Dele	ete Result Events	1	Del	ete Result Ev	vents after	30 * days
🗌 🗆 Dele	ete Treatment Lo	g Events				
🗆 Dele	ete Notification H	istory Message	es			

# 2.7 Store Notification Windows Service

This new windows service is used to execute the new Patient, Result and Treatment log notification generation interfaces that have been introduced in version 8.0.

The Store Notification windows service can be installed on locally on the same server as the Store application, or remotely on another server with access to the Store database. This configuration may lighten the load on the existing Store server, however further performance analysis is required to prove this is the case.

When installing the windows service it is important to ensure that SCI Store registry settings are installed and that the connection string contained within it is correct.

# 2.8 Home Page Administration Tab

Interfaces and Notification Services can be monitored via the home page administration tab.

## 2.8.1 Interface Management tab

Interfaces can be monitored via the Administration tab on the Home Page

	calhost/StoreWeb/Restric	Search 📌 Favori								~	) Go
I Stor	e Paisley								My Settings	About Store	L
Find Pa		Find Document Fi	ind on CHI						Patie	ent ID:	
		Configuration	Exception	s Mgmt - Seci	urity Mainte	nance Rep	oorting Genera	Notifications		User: admin	
ords Retu terface itatus	Source System	Interface Name	Last Successful	Processed Successfully	Not Processed	System Errors	Data Errors				
8	CHIInitialDownload	CHI_InitialTranslator	Message 23/06/2008 17:14	2	0	0	0				
8	Compas	COMPASTranslator	26/06/2008 10:39	6	0	0	1				
	MasterLab	MasterlabTranslator	26/06/2008 10:41	16	0	0	0				
			23/06/2008	4	0	0	0				

The above screen will only be displayed for users with Administrator permissions. It displays details on each interface that the administrator wishes to monitor. The information displayed includes:

• **Status** – This displays a traffic light icon. A green light signifies that this interface is working as expected. An amber or red light warns the administrator that their

may be an issue with this interface (i.e. no files have entered Store from this interface for a set period of time).

- Source System External system supplying the files
- Name Interface name
- Date of Last Successful Message date and time that the last file for this interface was processed into Store
- Files processed successfully the number of files successfully processed into Store for this interface within the configured time frame
- File not processed the number of files that failed to be processed into Store for this interface within the configured time frame
- Files causing system errors the number of files that failed to be processed into Store due to system errors
- Files causing data errors the number of files that failed to be processed into Store due to errors in the data

The information displayed on this page is dependent on the Interface Configuration values contained within the User Customisation page. The setup of this page is detailed in the next section.

#### 2.8.2 User Customisation for Interfaces tab

To access the page displayed below click on the **My Settings** hyperlink within the navigation toolbar at the top of the page. This takes the user to the "Manage My Information" page where clicking on the **User Customisation** hyperlink will display the page shown below.

Edit View Favorites Tool	s <u>H</u> elp											
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ss 🙆 http://localhost/StoreWeb	/Restricted/User/UserCuston	nization.aspx									🔽 🄁 G	io I
SCI Store Paisley									My Settir	igs About	Store L	Log O
ne Find Patient Find R	esult Find Document	Find on CHI								Patient ID:		
	Configura	tion Exceptions Mgmt	Secur	ity Main	tenance	Reporting	General	Notification	5			
e > My Settings > User Cust	omisation									User:	admin on I	PJSSC
B. To hide an option from vi	ew enter a value of zero	i de la companya de l										
Save Exit							_					
eneral Configuration Opt	ions											
eep a list of the last 5 P	atients viewed (1-100).											
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how new Patients created in	last 20 Hours 💌	u).										
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This page allows the user to setup specific home page customisation. If the user has administrator permissions, Interface Configuration options for the home page will be displayed along with the General Configuration options.

The **Specify Configuration for all Interfaces Combined** section contains a single setting. This setting allows the administrator to set up the specific time frame within which they wish to monitor the status of the files being passed into Store for all interfaces.

This time frame relates to the following columns on the Administration Tab:

- Processed Successfully
- Not Processed
- System Errors
- Data Errors

If this time frame is set to zero it signifies that the administrator does not wish to monitor interfaces and therefore the Administration tab on the Home Page will display the message **No Data to Display**.

The Specify Configuration for each Interface separately section allows the following:

- Hide or Show individual interface details within the Administration tab on the Home Page
- Set a specific time frame (i.e. number of minutes) for when the traffic lights icon on the Administration tab displays red, amber or green for each interface

### 2.8.3 Notification Creation tab

The Notification Creation tab monitors the generation of notifications for each notification type (Patient, Result or Treatment Log)

It details the number of un-processed events and the number of minutes since the last event was processed, both broken down by notification type

It also displays the status of the notification generation interfaces. If no interface is configured for a particular type then no status message will be displayed.

C Home - Windows Internet Explorer	
🚱 🕤 💌 🔊 http://localhost/StoreWeb/Restricted/Home/home.aspx	V 🗟 🐓 🗙 🚼 Google
Eile Edit View Favorites Iools Help	
🚖 Favorites 🛛 🚖 🙋 Suggested Sites 🔻 🙆 Web Slice Gallery 👻 🖉 ATC	5 MetaFrame XP Login 🙋 Web Mail 🔤 MyAtos Portal
C Home	🟠 = 🔂 - 🖃 🖶 - Page - Safety - Tools - 🔞 - 🎽
SCI Store Paisley	My Settings About Store Log Out
Home Find Patient Find Result Find Document Find Tr	eatment Log Patient ID: Go
Configuration Exceptions N	Igmt Security Maintenance Reporting General Notifications User: admin on PJSSCI6
Recently Viewed Recently Created Recently Requested My Favourit	
Interface Management Notification Creation Notification Cons	umption
Patient notification generation service PatientNotificationService is	On
Result notification generation service ResultNotificationService is:	Dn
Treatment Log notification generation service TreatmentLogNotific	itionService is: On
6 Records Returned	\$
Traffic Status Notification Type Rule Name	Description
Patient Events to process	801 outstanding events to processed for NS type Patient
Patient Time since an event was p	processed 0 minutes since an event was processed for NS type Patient
Result Events to process	800 outstanding events to processed for NS type Result
Result Time since an event was p	orocessed 0 minutes since an event was processed for NS type Result
TreatmentLog Events to process	800 outstanding events to processed for NS type TreatmentLog
TreatmentLog Time since an event was p	orocessed 0 minutes since an event was processed for NS type TreatmentLog
	💟 Local intranet 🦓 👻 🍕 100% 💌 👷

The values that control the colour of the traffic lights are defined in the following system settings. More information on these system settings is contained in Appendix A

- NSManagementAmberEventCount
- NSManagementRedEventCount
- NSManagementAmberEventMinutes
- NSManagementRedEventMinutes

### 2.8.4 Notification Consumption tab

The notification consumption tab monitors the consumption of notification messages by web services users. It displays the number of un-consumed notifications per user per notification type. It also displays the number of minutes since the last notification was consumed per user per notification type.

6 Home - Windows	s Internet Expl	orer									
🕗 🗢 🖻 htt	p:// <b>localhost</b> /Stor	eWeb/Restricted/Home/h	ome.aspx			-		🚼 Google			•
<u>File E</u> dit <u>V</u> iew F	<u>a</u> vorites <u>T</u> ools	Help									
🚖 Favorites 🛛 🚖 🌡	🕑 Suggested Site	s 👻 🙋 Web Slice Galler	y 🔹 🙋 ATOS MetaFrame XP Log	gin 🧧 Web Mai	l 🔤 MyAtos Po	ortal					
(Come							🟠 🔹	S · 🖃 🖶 •	<u>P</u> age ▼ <u>S</u> afety	• T <u>o</u> ols • 🕜 •	·
SCI Store	Paisley							My Settings	About Stor	e Log Out	^
Home Find Patie			t Find Treatment Log						tient ID:	Go	0
Home	C	onfiguration Ex	ceptions Mgmt Securi	ty Mainter	nance Rep	porting (	General	Notifications	Licon adu	nin on PJSSCI	6
									user: adn	in on PJSSCI	0
Recently Viewed	Recently Created	Recently Requested	My Favourites Administration								_
Interface Manage	ment Notifica	ation Creation Notif	ication Consumption								
2 Records Return									4		
									*		
Traffic Status	nssubscriber1	Notification Type	Rule Name	e consumed	1 minutes sin	ce a potifical	Rule T	ext onsumed for NS ty	ne Patient		
								-	-		
	nssubscriber1	TreatmentLog	Notifications to consume		1000 outstand	ding notificat	ions to cor	nsume for NS type	TreatmentLog		
											_
											~
Done								🧐 Local intranet	4	• 🔍 100%	•

The values that control the colour of the traffic lights are defined in the following system settings. More information on these system settings is contained in Appendix A

- NSUnConsumedAmber
- NSUnConsumedRed
- NSMinsSinceConsumptionAmber
- NSMinsSinceConsumptionRed

# 2.9 Patient Matching

#### 2.9.1 Overview

The SCI Store database is a repository of Patient Demographic and Results information. Its value is achieved by ensuring that Result information is attached to the correct Patient information.

Different Labs handle data differently and as such require a flexible method for matching patients to results. SCI Store allows modification of this method on an interface-by-interface basis by defining a batch of rules.

From Version 2.2 on, Patient demographics can be retrieved from the Community Health Index (CHI) via a web service. This is configurable on an interface-by-interface basis and is achieved by modifying the existing patient matching rules.

#### 2.9.2 Method

When an interface picks up new or amended information from a PAS or LAB system this information is 'patient matched' before being included into SCI Store. This involves comparing the message data with information already in Store, via a set of pre-defined rules, to determine the action to take. The actions can be one of the following: - inserts, updates, add aliases, exceptions or 'no action'.

#### 2.9.3 Configuration

To achieve the best matching between Patient Information and Results Information it is important to understand exactly how the Patient Matching algorithm works. For further information, see the SCI Store Patient Matching Reference Guide.

#### 2.9.4 Screens

To set-up a Patient Matching algorithm you must first add a new interface and provide a name for the matching algorithm and then amend it to set up the matching rules. From the **Configuration** menu, select **Local Patient Matching.** This action will display the screen below, and then select the New Match icon on the toolbar.

🖉 Local Patient Matching - Windows Internet Explorer		
🚱 🕞 💌 🙋 http://localhost/StoreWeb/Restricted/MatchPatient/MPMenu.aspx	💌 🛃 😽 🔀 Google	P •
Elle Edit View Favorites Tools Help		: x
👷 Favorites 🛛 🙀 📶 Free Hotmail 🎉 Suggested Sites 🔹 🖉 Web Slice Gallery 🔹 🙆 Citrix IP 🖉 Golf Club competitions site 🤜	EP Atos Origin Portal	
Cocal Patient Matching	🟠 🕶 🖾 👘 🐨 Bage	e 🕶 Safety 🕶 Tools 🕶 🔞 🔹 🎇
ScI Store Paisley	My Settings	About Store Log Out
Home Find Patient Find Result Find Document Find Treatment Log	Pa	tient ID: Go
	eporting General Notifications	
Home > Local Patient Matching		User: admin on PJSSCI6
Existing Patient Match Groups		
Show By Status		
C All C Active C Inactive		
28 Records Returned		
Description		
Default Match Patient		
Greater Glasgow Match		
Vol labs		
Vol Pas		
Amersham Chronological Match		
CHI AddAlias		
LothianMatch CHI Address		
CHI Address CHI Match		
CHI_Match_Insert		
CHITest4		
CHITest5		
CHI Update		
CRN Value and Type		
CRN Value only		
DOB Only		
ECS CHI Greater Glasgow Mandatory		
Merge Test		
Missing CHI		
Test1		
Test2		
Test3		
Postcode Only		
Surname Update CHI_Glasgow		
Surname_Soundex		
CHI_Exception		
		~
Done	Succel intranet	🖓 🔹 🔍 100% 🔹 🔡

Once **New Match** has been selected, the following screen is displayed. Enter the interface name (point 1 below) and click **Save** (point 2 below). This will create a new patient match group. The remainder of the screen will now be enabled allowing the match group to be setup, see diagram on the following page.

🖉 Amend Matching Rules - Windows Internet Explorer	
🚱 🕞 👻 http://localhost/StoreWeb/Restricted/MatchPatient/PMAmendInterface.aspx 💌 🐓	Google
Elle Edit View Favorites Tools Help	
Google 🔤 😽 Search - 🖗 🖉 - 🥥 💠 🔊 - 💭 Sudewiki - 💝 Check - 👪 Translate - 🍃 AutoFill - 🥖	🖏 🔹 🔵 Sign In 🔹
Amend Matching Rules	🟠 🔹 🔝 👘 🖶 🖬 🖓 Page 🕶 🎯 Tools 🔹 🍟
SCI Store Paisley	My Settings About Store Log Out
Home Find Patient Find Result Find Document Find Treatment Log	Patient ID: Go
Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications	
Home > Local Patient Matching > Amend Matching Rules	User: admin on PJSSCI6
Create Patient Match Group	
Name Test Group	

🖉 Amend Matching Rules - Windows Internet Explorer	
🚱 🕙 💌 🔊 http://localhost/StoreWeb/Restricted/MatchPatient/PMAmendInterface.aspx	Soogle
Elle Edit View Favorites Iools Help	: x
👷 Favorites 👍 📶 Free Hotmail 🏈 Suggested Sites 🔹 🔊 Web Silce Gallery 🔹 🖉 Citrix IP 🖉 Golf Club competitions site 👒 EP Atos Origin Portal	
🖉 Amend Matching Rules	🖃 🖶 👻 Page + Safety + Tools + 🕢 + 🐼 🂙
SCI Store Paisley	My Settings About Store Log Out 🦲
Home Find Patient Find Result Find Document Find Treatment Log	Patient ID: Go
Configuration Exceptions Mgmt Security Maintenance Reporting General Notificat Home > Local Patient Matching > Amend Matching Rules	tions User: admin on PJSSCI6
New Patient Matching > America Matching Rules     New Patient Match Group is created successfully.	User: admin on PJSSC16
C Patient Match Group	$\overline{}$
Name	
Test Matching Group	
Patient Match Group Status	
Amend Patient Match Algorithm	
Patient Match Criteria Patient Action  CHI PAS Sur For Ini Dob Sex Add Pcd Src C/D	
CHI Number     Match     C     Insert     IXI     I <td< th=""><th></th></td<>	
Surname C Aud Allas	
Forename No Match C No Action	
First Initial No Match	
Date of Birth No Match 🗸	
Sex No Match	
Address No Match 💌	
Postcode No Match	
Source System No Match	
CHI Demographics No Match	
Use 'X's as Mandatory field indicator checkbox. 🗖 Populate missing CHI numbers from web service?	
ID Format	
Valid ID Format Hep - 3	
	×
Done	😼 Local intranet 🛛 🖓 👻 🍕 100% 🔹 💡

Any number of Patient Matching rules can be entered. The interface will check the first rule entered (the first one at the top of the rules grid). If this is not satisfied it moves to the next one, and so forth, down through all rules. There is a default rule automatically created which has no matches and inserts the record.

Each **Patient Matching criteria** can be switched between match and nomatch, whilst the PAS/CRN option can be set at either ID Value only or ID Type and Value and the Surname option can be switched between Surname Text and Surname Soundex. Once the permutation has been set-up a **Patient Action** needs to be selected. For example, if there is a match on CHI and Surname only then the patient action could be 'Add Alias'.

Pressing **Add** will add the rule to the grid (point 1, diagram above). Once a rule has been added only the action code can be modified, however it can only be removed (point 1 above) or moved up and down the order (point 2 above).

When an interface is created these Patient Matching algorithms appear in a drop down menu to allow the interface to be associated with a matching rule.

To amend a Patient Matching algorithm, simply select the appropriate algorithm as shown on the previous page and then add and remove matching rules as appropriate. Some source systems only accept numbers in a certain format, in order for the interface to accommodate these formats they are entered in the **Valid ID Format** box (point 3, diagram above).

[Note: For Automatic CHI Lookup configuration, please refer to section 3.16]

[Note: For further details on Patient Matching, see the SCI Store Data Matching Guide document.]

#### 2.9.5 Match Group Status

Patient Matching Groups can be assigned a Status of either Active or Inactive (point 4, diagram above). Groups that are set as Inactive will no longer be displayed in the Match Patient drop down on the Amend Interface page. Only Active groups will be displayed.

Matching Groups can only be set to inactive if they are not currently in use by an interface.

# 2.10 Schemes and Reference Codes

#### 2.10.1 Overview

This section provides detailed information about:

- Schemes and Reference Code Translation (mapping) ;and
- Reference Code Confirmation (matching)

SCI Store receives its data from many disparate systems. These systems send interface files to SCI Store with reference code data relating to Healthcare Professional codes and Result codes etc. Some source systems already provide their codes in a national context which can be passed in to SCI Store and beyond via SCI Store Web Services. These codes are already of a national context and have the same meaning across all Scottish NHS sites. This means that:

- A mechanism is required in SCI Store to define what code scheme is used for incoming codes.
- A sort order for both incoming and display codes must be defined. This is to ensure that that the codes are sorted in the correct order.

#### 2.10.2 Why Use National Code Schemes?

Healthcare Professionals (Doctors, Consultants etc.) can be nationally understood where a General Medical Council (GMC) Code is supplied – a GMC Code is unique and has meaning to exactly identify a specific Healthcare Professional in the Scottish NHS.

Similarly Test Codes can be provided in a National context using National Code Schemes such as the SNOMED scheme (there are presently no 'national' Result code schemes within SCI Store, they would have to be manually created).

With HCPs the idea is that the best match can be accomplished in the first instance using HCP Code (GMC Code) if the scheme is the national GMC Code.

However for a local scheme the match will be based on a combination of the HCP Code, Full Name and Scheme.

#### 2.10.3 Known Reference Code Issues

The HCP Codes should be unique e.g. A GMC Code will uniquely identify a health care professional.

However the various other systems may provide a code local from their system which may inadvertently match an unrelated GMC Code or other Local code.

This has meant that incorrect matches have resulted in the wrong HCP being attached to an imported record with the wrong HCP being displayed against the record in SCI Store.

Similarly result codes may have different meanings between the source systems, however they may all use the same codes.

These codes may be viewed in individual results or grouped via the Cumulative Report. Grouping can only safely be achieved when codes all have the same meaning within SCI Store.

#### 2.10.4 SCI Store Reference data

Health Care Professional Codes (GMC Codes) are inserted to SCI Store from two routes.

The first route is the upload of reference data files which contain the current list of all known GPs and Consultants.

This is the trusted method of getting codes and names correctly in to SCI Store.

The second route is via the interface files sent by the many Pas and Lab systems etc.

SCI Store compares the submitted HCP and either finds a matching entry or inserts a new entry based on the details from the file.

There are no trusted mechanisms for inserting Result codes in to SCI Store, the codes are all introduced from interface files.

#### 2.10.5 SCI Store Considerations for configuring reference data

- Do other Scottish NHS systems request data from your SCI Store?
- Do third-party applications request data from your SCI Store?

- Do your users expect to be able to query your SCI Store and find all information pertinent to a single Healthcare Professional using the HCP name which will often display the accompanying HCP Code?
- Do your users expect to see all results displayed using a national or otherwise defined code scheme?
- Do your users expect all results viewed in Cumulative Reporting to be correctly grouped by code?

If the answer to all of the above questions is 'No' then this functionality and system set up are not required. However, data integrity of the SCI Store will not be optimal. Incorrect reference code assignment will be likely. This will lead to unsound inferences being drawn from the data displayed on screen, similarly if the data is used by other Scottish NHS systems or 3<sup>rd</sup> Parties at a later stage it will be of a questionable quality for their use.

If the answer to any of the above questions is 'Yes' then you must begin to consider the data being submitted from the source systems which feed in to your instance of SCI Store.

[**Note:** A Scheme Group is now mandatory against each service translator to correctly identify the incoming HCP codes.]

#### 2.10.6 Notable Exceptions to Reference Code Translation/Confirmation

The best match can be accomplished using HCP Code (GMC Code), Full Name and Scheme.

ADT files (typically Homer and HelixPMS (formerly Compas) source systems) only provide an HCP Code.

ADT files are always expected to be National GMC Codes and have been coded thus. Therefore if an interface is only for ADT files then HCP codes do not need to be considered, however the organization must still be tackled as the patient will move between wards and hospitals.

#### 2.10.7 Understanding Interface Files and Reference Codes

#### File Types

- Demographic Files
- Result Files
- ADT Files (Admission / Discharge / Transfer between Scottish NHS Organisations / Departments / Wards)

Files which are submitted in to SCI Store will contain either Demographic information, Result information or a combination of both.

Demographic information usually contains reference codes for some or all of the following areas:

- Healthcare Professional (Distinctly identified as a GP role)
- Healthcare Professional (Distinctly identified as a Consultant role)
- GP Practice
- Ward
- Hospital

Result information will provide the following areas:

- Healthcare Professional Codes (Not Distinctly identified with a role)
- Result Codes and Data

The interface files provide the HCP Codes and Result Codes but do not presently provide an indication of the associated code schemes.

An investigation is therefore required to check some of the codes provided and establish if they conform to any known schemes.

This may also be achieved by contacting the support team for the source system and asking directly about the schemes supplied. For example,

- Are the HCP Codes supplied from the GMC Code scheme or only local to the context of the source system?
- Are the Result Codes from a specified code scheme or only local to the context of the source system?

## 2.10.8 Applying Code scheme Uniqueness

SCI Store introduced Scheme Management functionality to specifically address the requirement to capture incoming Result code scheme data (scheme type and version).

This is a data capture requirement which allows other Scottish NHS systems and 3<sup>rd</sup> Party Systems to understand the codes which are being received following responses to web service requests.

Understanding that there are accidental code matches leads to the need to identify the scheme which gives the code some context.

The notion of a scheme for HCP identification is a SCI Store requirement to address the many different HCP codes submitted by the various source systems. This is primarily used to consolidate the incoming data to the national GMC Code scheme.

The use of GMC Codes is of benefit to SCI Store in that all data is correctly assigned to a single unique Healthcare Professional.

Identifying the correct HCP will ensure that all results and patients are correctly identified to the correct clinician.

This will ensure that all searches in SCI Store by the Clinician will return all the expected records. This also ensures that the data passed on to other Scottish NHS systems and 3<sup>rd</sup> Party Systems will conform to the GMC Code which has a national context.

#### 2.10.9 Implementing Reference Code Translation / Confirmation

Having identified the code schemes in your interface files you can consider what steps if any are required to record the scheme code information against incoming interface files.

The next consideration is to deal with incoming code schemes which do not have a national context, in other words local code schemes from a source system which have no meaning beyond the system which supplied them. For example:

- GMC codes are generally a number in the following range '0000001' to '9999999', up to 7 characters long where front padded with leading zeros.
- A system provides an HCP code of 'SMITH1', is not sending a GMC code.
- In this case to ensure that the interface file loads the record against the correct HCP a scheme would be created which contained 'SMITH1'. The translation would then be created between 'SMITH1' and '0001234'.
- In practice this would be required for all incoming HCP codes received from this interface.

Below are some example scenarios that can be applied to HCPs and Results:

#### 2.10.9.1 Scenario 1

Data to be	Incoming	Display	Comments
Translated	Scheme	Scheme	
GP and / or Consultant		GMC Codes	This will ensure that the known GMC Code list in SCI Store is used. No duplicates HCPs will be created.

## Actions required:

#### <u>Step 1</u>

Menu Option - Scheme Code Maintenance (No new schemes required)

## <u>Step 2</u>

- Menu Option Scheme Mapping Maintenance (No code translation is required) N.B. This is specific to HCP processing at present
   Step 3
- Menu Option Scheme Grouping Maintenance
- Update an existing scheme group OR

- Add a new Scheme Group Name something relevant to either the interface or the use of the new scheme group.
- Select 'GP' and / or 'Consultant' from the 'Input Area' drop down list.
- Select 'HCP Lookup' from the 'Input Scheme' drop down list.
- Select 'HCP Lookup' from the 'Display Scheme' drop down list.
- Click the Add Button.

## Step 4

- Menu Option Interfaces Maintain Services
- Select the appropriate Service Translator
- Select the Scheme Group from the 'Mapping Group' drop down list.
- Click 'Save' from the 'Amend Service Definition' screen.
- Click 'Exit' from the 'Amend Service Definition' screen.

## 2.10.9.2 Scenario 2

Data to be	Incoming	Display	Comments
Translated	Scheme	Scheme	
GP and / or Consultant	Non national GMC Code	GMC Codes	This will ensure that the known GMC Code list in SCI Store is used. All records will be correctly inserted against the correct HCP in SCI Store. No duplicates HCPs will be created.

## Actions required:

## <u>Step 1</u>

- Menu Option Scheme Code Maintenance
- A new Scheme should be defined (if not already created)
- The Non national GMC Codes must be added to this Scheme

## <u>Step 2</u>

- Menu Option Scheme Mapping Maintenance
- Select the new/existing Non national GMC Code scheme from the 'From Scheme' drop down list.
- Click the 'Add Mapping' button.
- Select the HCP Lookup scheme as the 'To' scheme.
- Use the search boxes against each scheme to define the translation 'From' and 'To'
- Click 'Add'
- The translation will show the 'From Code' (Code expected in the interface file) and the 'To Code' (GMC Code equivalent)

## Step 3

- Menu Option Scheme Grouping Maintenance
- Update an existing scheme group OR
- Add a new Scheme Group Name something relevant to either the interface or the use of the new scheme group.
- Select 'GP' and / or 'Consultant' from the 'Input Area' drop down list.

- Select the Non national GMC Code scheme created in Step 1 from the 'Input Scheme' drop down list.
- Select 'HCP Lookup' from the 'Display Scheme' drop down list.
- Click the Add Button.

## <u>Step 4</u>

- Menu Option Interfaces Maintain Services
- Select the appropriate Service Translator
- Select the Scheme Group from the 'Mapping Group' drop down list.
- Click the 'Code Type' button and enable the 'GP' and / or 'Consultant'
- Click 'Exit' from the 'Code Type' screen
- Click 'Save' from the 'Amend Service Definition' screen.
- Click 'Exit' from the 'Amend Service Definition' screen.

#### 2.10.9.3 Scenario 3

Data to be Translated Biochemistry Investigations Incoming Scheme Local Biochemistry Result Codes Display Scheme National Scheme e.g. SNOMED / Local Display Scheme

Comments

This will ensure that the known SNOMED list in SCI Store is used. All records will populate both the Local Code and SNOMED values in the database. Both Local & Display schemes will be output via Web Services

## Actions required:

<u>Step 1</u>

- Menu Option Scheme Code Maintenance
- A new National/Display Scheme should be defined (if not already created)
- The National/Display Investigation Codes must be added to this Scheme

# <u>Step 2</u>

- Menu Option Scheme Code Maintenance
- A new Local Biochemistry Investigation Scheme should be defined (if not already created)
- The Local Biochemistry Investigation Codes must be added to this Scheme

## <u>Step 3</u>

- Menu Option Scheme Mapping Maintenance
- Select the new/existing Local Biochemistry Investigations Code

scheme from the 'From Scheme' drop down list.

- Click the 'Add Mapping' button.
- Select the National/Display Investigation Codes scheme as the 'To' scheme.
- Use the search boxes against each scheme to define the code translation 'From' and 'To'
- Click 'Add'
- The translation will show the 'From Code' (Code expected in the interface file) and the 'To Code' (National/Display code equivalent)

## <u>Step 4</u> –

- Menu Option Scheme Grouping Maintenance
- Update an existing scheme group OR
- Add a new Scheme Group Name something relevant to either the interface or the use of the new scheme group.
- Select 'Investigations: Biochemistry' from the 'Input Area' drop down list.
- Select the Local Biochemistry Investigation Scheme created in Step 1 from the 'Input Scheme' drop down list.
- Select National/Display Investigation Codes scheme from the 'Display Scheme' drop down list.
- Click the Add Button.

## <u>Step 5</u> –

- Menu Option Interfaces Maintain Services
- Select the appropriate Service Translator
- Select the Scheme Group from the 'Mapping Group' drop down list.
- Click the 'Code Type' button and enable the Investigations: Biochemistry
- Click 'Exit' from the 'Code Type' screen
- Click 'Save' from the 'Amend Service Definition' screen.
- Click 'Exit' from the 'Amend Service Definition' screen.

# Note: Mappings between Local Result Codes and National/Display Result codes can be configured in several different ways

- Multiple Local Code Schemes can be set up, e.g. one for each for each discipline, as above, and mapped to a National scheme specific to that discipline.
- Multiple Local Code Schemes can be set up, e.g. one for each discipline, and mapped to a single National Scheme that contains all codes for all disciplines e.g. SNOMED.
- If the Local Result Codes from all disciplines are from a common source and there is no duplication then a <u>single</u> Local Scheme and single National Scheme can be used.

In each situation the Mapping Group would have to contain entries for each Input Area (e.g. Investigations: Biochemistry, Investigations: Haematology, GP) that was to be mapped by the interface.

#### 2.10.10 Creating / Maintaining a Scheme

To maintain scheme codes, select:

- General Admin
  - $\Rightarrow$  Scheme Code Maintenance

The scheme code maintenance screen will be displayed:

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out Demographics Scheme	User Defined	IDS	1.0	Edit	Delete		
ut Generic Investigation Scheme	User Defined	IGIS	1.0	Edit	Delete		
ut Generic Test Scheme	User Defined	IGTS	1.0	Edit	Delete		
out Haematology Investigation Scheme	User Defined	IHIS	1.0	Edit	Delete		
ut Haematology Sample Type Scheme	User Defined	IHSTS	1.0	Edit	Delete		
ut Haematology Test Scheme	User Defined User Defined	IHTS	1.0	Edit	Delete		
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Clicking on a scheme description takes you to the following screen. Codes can be entered and saved here.

The following details must be included:

- Code
   A unique code identifying the scheme
- Description
   A meaningful description / name
- Display Order Display order if viewed on another screen/report

Click 'Add' to save the record.

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#### 2.10.11 Existing Reference Data Schemes Types

There are currently existing scheme types which point to the code schemes known within SCI Store.

Note: There are no existing scheme types relating to results.

A new Scheme Lookup type has been added to SCI Store relating to trusted HCP Codes. This augments the existing GP Lookup type and Consultant Lookup type which are effectively sub sets of the new HCP Lookup Type.

The scheme types are:

- HCP Lookup (This looks at all Healthcare Professionals known to SCI Store)
- GP Lookup superseded by the New HCP Lookup for all schemes
- Consultant Lookup superseded by the New HCP Lookup for all schemes
- **GP Practice Lookup** (This looks at all GP Practices known to SCI Store)
- **Organisations Lookup** (This looks at all Organisations known to SCI Store)
- User Defined (This allows you to enter any non national codes)

#### 2.10.12 Creating / Maintaining Scheme Mapping

- General
- $\Rightarrow$  Scheme Mapping Maintenance

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# 2.10.13 Creating / Maintaining Scheme Grouping

- General
- $\Rightarrow$  Scheme Grouping Maintenance

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The scheme grouping is then applied to one or more appropriate interfaces. The scheme group is then used to provide translation codes and descriptions for the input or incoming codes.

### 2.10.14 Applying a Mapping Group to an Interface

Mapping groups are added to Translator from Database interfaces

- Configuration
  - $\Rightarrow$  Maintain Interfaces

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Result Parsing Date			
Schemes And Mappings			
Generic Investigation Scheme    Generic Investigation Scheme	Map		
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Generic Test Scheme			
GMC Display Scheme GMC Scheme			
GMC Scheme with Order Masterlab - Biochemistry Mapping			
Telepath - Haematology Mapping			
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Assigning a Mapping Code group will ensure the scheme information is stored against the files brought in to store.

Mapping codes for the various disciplines can be achieved by clicking the 'Map' button.

🌈 Amend Mapping Code	Types - Windows Internet Explorer					
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Amend Mapping Co	ode Types Definition for Service					
Service Name	TelepathTranslator					
Mapping Code	Telepath - Haematology M	Exit				
Description	Input Scheme	Display Scheme	Status	Action		
GP	Input Demographics Scheme	HCP Lookup	OFF	ENABLE		
Consultant	Input Demographics Scheme	HCP Lookup	OFF	ENABLE		
GP Practice	Input Demographics Scheme	Mapped Practice Lookup Scheme	OFF	ENABLE		
Sample Type	Input Haematology Sample Type Scheme	Mapped Haematology Sample Type Scheme	OFF	ENABLE		
Investigations: Haematology	Input Haematology Investigation Scheme	Mapped Haematology Investigation Scheme	OFF	ENABLE		
Tests: Haematology	Input Haematology Test Scheme	Mapped Haematology Test Scheme	OFF	ENABLE		
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All the mappings which have been set up for the group can then be seen. Only those mappings which are enabled will be used during the import of the file.

The codes from the interface files will be used to query the relevant Input Scheme codes.

A corresponding Display Scheme code will then be assigned as the record is brought in to store.

# 2.11 Exceptions for Reference Code Translation / Confirmation

#### 2.11.1 HCP Reference Data

When a code is not found in a Local manually created scheme the file will fail during parsing and create an exception for the file. These mapping exceptions can be viewed by navigating to

• Exception Mgmt

 $\Rightarrow$  Parsed Files

Search for the file which has failed to load in to SCI Store and click on it to view the exception record.

The missing code should be stated in the 'Status Description' field.

Click on the 'Add Mapping' button which will take you to the 'Scheme Code Maintenance' screen where you can select the appropriate scheme and add the missing code(s).

The missing translation(s) will also require to be added.

Administration

 $\Rightarrow$  General

⇒ Scheme Mapping Maintenance

The exception will be cleared by re-submitting the file.

#### 2.11.1.1 Result Sets and Test Results

The processing of Result Set and Test Result mapping exceptions is controlled via the system setting **ResultMappingMethod**.

This system setting has 2 possible values – **Create Exceptions** and **Audit Mapping** 

#### 2.11.1.2 Create Exceptions

With the ResultMappingMethod system setting set to "Create Exceptions" the Result Mapping will work similarly to the HCP Reference Data detailed above.

When a file is being parsed and a Local code is not found in the defined Local Code Scheme for the interface then the parsing will fail with a Mapping Exception. To resolve first navigate to:

- Exception Mgmt
  - $\Rightarrow$  Parsed Files

Search for the file which has failed to load in to SCI Store and click on it to view the exception record.

The missing code should be stated in the 'Status Description' field.

Click on the 'Add Mapping' button which will take you to the 'Scheme Code Maintenance' screen where you can select the appropriate scheme and add the missing code(s).

#### 2.11.1.3 Audit Mapping

When the ResultMappingMethod system setting is set to "Audit Mapping" files should always parse successfully even when a Local Code is not found in the defined Local Code Scheme.

Under this scenario all mapping failures are audited and can be viewed via the Mapping Audit Report page. From this page users can view the mapping failures, navigate through the mapping functionality to add the missing mapping, then navigate back to the parsed file and re-parse it.

The Mapping Audit screen is accessible from:

- Exception Management
  - $\Rightarrow$  Mapping Audit Report

🕑 👻 🙋 http://localhost/StoreWeb/R	estricted/Services/N	1appingAuditP	Report.aspx	?Reload=1			✓ +	Google	
ile Edit Yiew Favorites Tools Hel	0								
Mapping Audit Report							• 🗟 • 🖶 •	Page + 💮 Tools	• 🕢 • 🕄 🚸 🛍
SCI Store Paisley							M	y Settings Abou	it Store Log Ou
me Find Patient Find Result	Find Document	Find on	СНІ					Patient ID:	<u>و</u>
Configurati	on Exceptio	ons Mgmt	Secur	ity Mainte	nance Re	porting	General I	lotifications	: admin on PJSSC
ne > Mapping Audit Report								User	admin on PJSSC
arch Options Search Clear	15 Records Ret	urned							
te From 12/11/2008 🗸	Parsed Time	Report ID	Name	СНІ	Mapping Type	From Code	From Description	From Scheme	To Scheme
te To 13/11/2008 👻	13/11/2008 15:44:00	B844057	JIM SMITH	3002413056		UEL	UE & LFT	Input Biochemistry Scheme	Mapped Biochemistry Scheme
pping Type	13/11/2008 15:44:00	B844057	JIM SMITH	3002413056	Test Result	NA	Sodium	Input Biochemistry Scheme	Mapped Biochemistry Scheme
	13/11/2008 15:44:00	B844057	JIM SMITH	3002413056	Test Result	к	Potassium	Input Biochemistry Scheme	Mapped Biochemistry Scheme
	13/11/2008 15:44:00	B844057	JIM SMITH	3002413056	Test Result	ALB	Albumin	Input Biochemistry Scheme	Mapped Biochemistry Scheme
	13/11/2008 15:44:00	B844057	JIM SMITH	3002413056	Test Result	НСО3	Bicarb	Input Biochemistry Scheme	Mapped Biochemistry Scheme
	13/11/2008 15:44:00	B844057	JIM SMITH	3002413056	Test Result	CREA	Creatinine	Input Biochemistry Scheme	Mapped Biochemistry Scheme
	13/11/2008 15:44:00	B844057	JIM SMITH	3002413056	Test Result	UREA	Urea	Input Biochemistry Scheme	Mapped Biochemistry Scheme
	13/11/2008 15:44:00	B844057	JIM SMITH	3002413056	Test Result	ТР	Protein	Input Biochemistry Scheme	Mapped Biochemistry Scheme
	13/11/2008 15:44:00	B844057	JIM SMITH	3002413056	Test Result	ALP	Alk Phos	Input Biochemistry Scheme	Mapped Biochemistry Scheme
	13/11/2008 15:44:00	B844057	JIM SMITH	3002413056	Test Result	ALT	Alt	Input Biochemistry Scheme	Mapped Biochemistry Scheme
	13/11/2008 15:44:00	B844057	JIM SMITH	3002413056	Test Result	GGT	Gamma GT	Input Biochemistry Scheme	Mapped Biochemistry Scheme

The screen above shows the search criteria of date range, discipline and mapping type (Result Set or Test Result). The search results contain details of the time parsed, report, patient, mapping type, Code, code description, from scheme and to scheme.

Clicking on a row will take the user to the Manage Scheme Codes field, where they can enter the missing code into the Local Scheme code list.

🖉 Manage Scheme Cod	es - Windows Intern	et Explorer							
🕞 🕞 👻 🙋 http://lo	calhost/StoreWeb/Restric	ted/Admin/ManageSchemeCc	des.aspx?scheme	=13&type=1&desc=Ir	put%20Bioch	emistry 🔽 😽	Google		<mark>۶</mark> -
Eile Edit View Favo	rites <u>T</u> ools <u>H</u> elp								
🚖 🏟 🏾 🌈 Manage Sche	eme Codes					• 🗟 • 🖨	h 🔹 🔂 Page 🕶 🄇	) Tools + 🔞 +	🔞 🐟 🛍 🍕
					;		My Settings	About Store	Log Out
SCI Store Pa									
Home Find Patient		Document Find on C					Patier	nt ID:	Go
Home > Mapping Audit R	Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications	User: admin	on PISSCI6
Manage Scheme C									
Scheme : Input Bioche	mistry Scheme		1						
Code		Description	Disp	lay Order					
LOC_SAMP		erum/plasma	1	Edit	Delete				
LOC_SET1		E & LFT	1	Edit					
LOC_TST1		od	1	Edit					
LOC_SET2	U			Edit	Delete				
LOC_TST2	P		2	Edit					
LOC_TST3 1	A	D	3	Edit	Delete				
Add New Scheme ( Description Code Display Order	Code Sodium NA 1								
Add	Exit	Add Sch	eme Mapping						~
<				100					>
Done							Second Second Second Second	net	🔍 100% 🔹 🛒

Once the code is added the user can navigate to the Maintain Scheme Mappings page by clicking the "Add Scheme Mapping" button. Here they are able to configure the From and To scheme mapping.

🖉 Maintain Scheme Mapp	ings - Windows Inte	ernet Explorer							
	iost/StoreWeb/restricted	d/admin/ManageSchemeMa	appingCodes.asp	×/mappedFromID=1	38mapped101D=6	*	Google		
Eile Edit View Favorite	s <u>T</u> ools <u>H</u> elp								
🔶 🍄 🏉 Maintain Scheme	e Mappings					• 🔊 •	🖶 🔹 🔂 Page 🔹 (	) T <u>o</u> ols + 🔞 + (	
SCI Store Pais	sley						My Settings	About Store	Log Out 📐
Home Find Patient F	Find Result Find D	Ocument Find on	СНІ				Patie	nt ID:	Go
	Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	Gener	al Notifications		
Home > Mapping Audit Rep	ort > Maintain Schem	ne Mappings						User: admin	on PJSSCI6
Maintain Scheme Ma	ppings								
From : Input Biochemistry	Scheme 💌 A	dd New Code To :	Mapped Biocher	mistry Scheme	Y Add New C	ode			
From Code		To Code	То	Description					
LOC SAMP		SP	Serum/Pla	sma	Delete				
LOC_SET1		UL	UE & LFT		Delete				
LOC_SET2 LOC TST1		U SO	UE Sodium		Delete Delete				
LOC_IST1 LOC_TST2		PO	Potassium		Delete				
LOC_TST3		AL	Albumin		Delete				
1									
Add New Code Mapping									
From Scheme :Input Bioc	hemistry Scheme	From Version : 1.0		(NA)Sodium	*	<b>T</b>			
To Scheme : Mapped Bi	ochemistry Scheme	To Version : 1.0		(SO)Sodium	~	<b>I</b>			
Add									
Exit									
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							S Local intr	anec	🔍 100% 🔻 🔡

Using the exit button the user can navigate back up to the Mapping Audit Report page. From there they can then click the Parse Time to navigate to the Parsed Message Page.

Parsed Message - Windows	s Internet Explorer					- P
🔄 🕞 👻 🙋 http://localhost/	/StoreWeb/Restricted/Services/ParsedFromDb.a	spx?ClassIdx=2		v (+g	Google	٩
ile Edit Yiew Favorites Ic	ools Help 🗸 Search 🕶 😽 🍻	- 🧑 🕮 - 🛛 🖏 - 🔲 Sid	iewiki + 🦓 Check + 🔋 Translate + 🎦 Autof		න	🔹 🔵 Sign Ir
A A A Parsed Message					🐴 • 🔊 - 🖶 • 🔂 <u>P</u> age	
SCI Store Paisle					My Settings About Store	Log Out
	• <b>y</b>   Result Find Document Find Treat	ment Log			Patient ID:	Go
ome > Mapping Audit Report :	Configuration I		curity Maintenance Reporting	General Notifications	User: admin	on PJSSCI6
₂    44 < ▶ )>)   &					Actions Select Action	✓ Go
Parsed Message Details						
Source System	Apex	User Actio	ned			
Status Date	09/12/2009 21:	13:10	Status Description	User Actio		
Match Action	Update		Match Rule	Greater G	lasgow Match	
Patient Details						*
CHI	1802677860	PAS		Other Id		
Name	Claire Watermen	Date of Birth	18/02/1967	Sex	Female	
Address	124 Paisley Road West Glasgow	Postcode	G6 9DT	Store Patient Id	1	
Registered GP GP		GP Practice		Practice Code		*
		di Hucuce				
Result Details Consultant		Ward	(BGH7) Ward 7	Hospital		*
Discipline	Haematology	Report Date	13/02/2006 14:45:00	Report Id	XR764525H	
ne					Sig Local intranet	<b>a</b> 100%

From here the user is able to re-parse the file by clicking on the "Flag as New (Automatic)". Once the file has been re-parsed the mapping issues that were fixed should no longer appear in the Mapping Audit Report.

## 2.12 Reference Data Upload Service

National Reference File data (e.g. GPs, Consultants, Practices, Locations, Specialty and Facility) can be uploaded into SCI Store by creating two services of type "ReferenceFileToDatabase" and "ReferenceTranslatorFromDatabase"

These services are created in a similar way to the "FileToDatabase" and TranslatorFromDatabase services (see sections xxx & xxx). When the status of these services is switched "on", they will be executed as part of the Store Windows Service.

When creating these types of service the polling interval is replaced with a time band. The time band allows the user to schedule the processing of the reference file upload files at a time of there choosing.

The configuration of the "ReferenceFileToDatabase" service allows the user to define the location of the root directory which will contain the reference files for upload. This service will load the reference files from the root directory into table in the database ready for further processing. The configuration of the "ReferenceTranslatorFromDatabase" service allows the user to define the names of the reference files being uploaded. This service will process the files fed in via the "ReferenceFileToDatabase" service and update the relevant Reference File tables in SCI Store. If a files being uploaded does not match with any of the defined file names then it will fail to upload.

The administrator will be able to monitor the success or failure of reference file uploads via the Exceptions Management module.

# 2.13 Remote Data Sources

**Remote Data Source** configuration is accessed from the General menu option. This option allows administrators to set-up connections to external data sources (typically other instances of SCI Store or CHI). These remote data sources can be used to find information on patients and results from external systems.

Since these external systems are not limited to SCI Store, the generic term of Search Provider is used to denote a source that can provide information on patients and or results/documents.

🔊 🗢 🖉 http://localbo	st/StoreWeb/Restricte	d/WebServices/WebServiceMenu.aspx					Bing	
🌪 Favorites 👘 👍 🙋 Zer	n (2) 🙋 Zen 🚦 Ho	mail						
Remote Data Sources Config							🏠 • 🔝 - 🖻 🖶 • Page •	• Safety • Tools •
SCI Store Pai	elev						Му	About
	Sicy						Settings	Store
Iome Find Patient I	Find Result Find	Document Find Treatment Log					Patient ID	
		Configuration Exceptions	lamt Socurity Mainton:	nce Reporting General Notific	ations			
ne > Remote Data Source	r. Config	configuration exceptions i	igint security Haintena	nice reporting deneral notific	ations			ser: admin on PJS
	a comp						0	ser. domin on PJ
≥  +								
emote Data Sources Li	at							
conore para sources Li							-	
19 Records Returned								
19 Kecolds Ketollied								
Site Name	Protocol	Address	Service Name	Service Path	Provider	Site Code		
CHI Live	http://	cpcxmlt1.nds.scot.nhs.uk	chiweb	chisearch.asmx	CHIProvider	CHILIVE		
CHI Test	http://	xxcpcxmlt1.nds.scot.nhs.uk	chiweb	chisearch.asmx	CHIProvider	CHITEST		
Local 2.3	http://	localhost	StoreWS	Store23/SCIStoreServices.asmx	Store23Provider			
Local 4.1	http://	localhost	StoreWS	Store41/SCIStoreServices.asmx	Store41Provider	GGCHB		
Local 6.0	http://	localhost	StoreWS	Store60/SCIStoreServices.asmx	Store60Provider	LOTHIAN		
nunit test 6.0	http://	localhost	StoreWS	Store60/SCIStoreServices.asmx	Store60Provider	GOLDENJ		
	http://	localhost	StoreWS	Store60/SCIStoreServices.asmx	Store60Provider	WRONGCRED S		
Invalid Credentials		192,168,0.5	StoreWS	Store60/SCIStoreServices.asmx	Store60Provider	WRONGPATH		
Invalid Credentials Invalid Path	http://		StoreWS	StoreSrv.asmx	Store41Provider			
Invalid Path	http://	192.168.0.5						
Invalid Path Invalid		192.168.0.5 localhost	StoreWS	Store41/SCIStoreServices.asmx	Store41Provider			
Invalid Path Invalid Test 4.1	http://				Store41Provider Store60Provider			
	http:// http:// http:// http://	localhost localhost localhost	StoreWS StoreWS StoreWS	Store41/SCIStoreServices.asmx Store60/SCIStoreServices.asmx Store23/SCIStoreServices.asmx				
Invalid Path Invalid Test 4.1 Test 6.0 nunit secure 2.3	http:// http:// http://	localhost localhost localhost localhost	StoreWS StoreWS	Store41/SCIStoreServices.asmx Store60/SCIStoreServices.asmx	Store60Provider			
Invalid Path Invalid Test 4.1 Test 5.0 nunit secure 2.3 nunit secure 4.1	http:// http:// http:// https:// https:// https://	localhost localhost localhost	StoreWS StoreWS StoreWS	Store41/SCIStoreServices.asmx Store60/SCIStoreServices.asmx Store23/SCIStoreServices.asmx	Store60Provider Store23Provider Store41Provider Store60Provider	WRONGSSL		
Invalid Path Invalid Test 4.1 Test 6.0	http:// http:// http:// https:// https://	localhost localhost localhost localhost	StoreWS StoreWS StoreWS StoreWS	Store41/SCIStoreServices.asmx Store60/SCIStoreServices.asmx Store23/SCIStoreServices.asmx Store41/SCIStoreServices.asmx	Store60Provider Store23Provider Store41Provider	REMOTEV1		
Invalid Path Invalid Test 4.1 Test 5.0 nunit secure 2.3 nunit secure 4.1 nunit secure 6.0	http:// http:// http:// https:// https:// https://	localhost localhost localhost localhost localhost	StoreWS StoreWS StoreWS StoreWS StoreWS	Store41/SCIStoreServices.asmx Store60/SCIStoreServices.asmx Store23/SCIStoreServices.asmx Store41/SCIStoreServices.asmx Store60/SCIStoreServices.asmx	Store60Provider Store23Provider Store41Provider Store60Provider			
Invalid Path Invalid Test 4.1 Test 6.0 nunit secure 2.3 nunit secure 4.1 nunit secure 6.0 Remote6.0V1	http:// http:// http:// https:// https:// https:// https://	localhost localhost localhost localhost localhost localhost	StoreWS StoreWS StoreWS StoreWS StoreWS	Store41/SCIStoreServices.asmx Store60/SCIStoreServices.asmx Store23/SCIStoreServices.asmx Store41/SCIStoreServices.asmx Store60/SCIStoreServices.asmx Store60/SCIStoreServices.asmx	Store50Provider Store23Provider Store41Provider Store60Provider Store60Provider	REMOTEV1 REMOTEV2		
Invalid Path Invalid Test 4.1 Test 5.0 nunit secure 2.3 nunit secure 4.1 nunit secure 6.0 Remote6.0V1 Remote6.0V2	http:// http:// http:// https:// https:// https:// http://	localhost localhost localhost localhost localhost localhost localhost	StoreWS StoreWS StoreWS StoreWS StoreWS StoreWS StoreWS	Store41/SCIStoreServices.asmx Store50/SCIStoreServices.asmx Store23/SCIStoreServices.asmx Store60/SCIStoreServices.asmx Store60/SCIStoreServices.asmx Store60/SCIStoreServices.asmx	Store60Provider Store23Provider Store61Provider Store60Provider Store60Provider Store60Provider	REMOTEV1		

To add a new provider, click the **Add New Remote Data Source** button. To edit (or delete) an existing source simply click on the appropriate row. The add/edit provider screen is as shown below:

🖉 Remote Data Source Config - Windows Internet Explorer									
C	bServices/WebServicesAmend.aspx?WebServiceId=5								
🖕 Favorites 🛛 🏤 🔊 Zen (2) 🖉 Zen 📕 Hotmail									
Remote Data Source Config									
SCI Store Paisley									
Home Find Patient Find Result Find Document Find Treatment Log									
Co	onfiguration Exceptions Mgmt Security Maintenance Reporting General Notifications								
Home > Remote Data Sources Config > Remote Data									
🗢 🛛 🗙 🛃 🗸									
Remote Data Source Definition									
Provider ID									
Name	Local 6.0								
Provider Type	Store60Provider								
Site Protocol	http://								
Address	localhost								
Service Name	StoreWS								
Service Path	Store60/SCIStoreServices.asmx								
Timeout (Seconds)	3								
Username	Store2Store								
Password	******								
Site Code	LOTHAN								

The following information is required:

- Name: a description of the service (e.g. "RAH Full Access", or "Restricted Inverclyde Store")
- Provider Type: This is the provider that will be used to fulfil the request and is dependent on what it is connecting to (e.g. the CHI System, a Store 2.3 Web Service, a Store 4.1 Web Service)
- Site Protocol: whether the connection uses standard http or secure https
- Address: Address of the server (I.P. or name that will be resolved to an ip)
- Service Name: The root directory of the web service path.
- Service Path: Full path to the service including the extension
- Timeout: The length of time (in seconds) that the web service will search for
- Username: Username that will be used be all users using this search provider
- Password: Password to allow access to the service.
- Site Code: This is a unique code that will identify the site. It is used by web services to specify a site for remote access on some web service calls. This code is optional and can be up to 20 characters in length. If specified it must be unique.

Once this information is entered, click **Jave** and then **Exit**.

#### Note: Currently only locations with a valid "Site Code" and Provider Type "Store60Provider" will be made available for remote web service access. This is up and above the two fixed interfaces of "Local" and "CHI".

The Remote Data Sources defined are used by Remote Data Source Profiles (see section 3.3.9). These profiles will be set up to allow access to different combinations of Remote Data Sources. Users and/or Permission Groups can then be assigned their relevant profile (see sections 3.3.1 & 3.3.10).

For simplicity and to ease administration, there is now only one user per provider. However, you should create a new instance of the same provider/service for each different security role. For example:

3 different connections to the same (remote) instance of SCI Store may exist, as demonstrated below:

- "Raigmore Full Access" username FullRemote
- "Raigmore Normal" username RemoteUser
- "Raigmore Restricted" username RemoteRestricted

The administrator of the remote SCI Store (i.e. Raigmore) would then set up the appropriate users with the appropriate permission sets. The local administrator would then set appropriate providers to the relevant users (see 3.4.5 for further details on assigning users to search providers).

**Note:** For SCI Store access it is important to ensure that the user type defined on the remote location is correctly defined.

- Remote User Type To be used when accessing a remote location for the purpose of displaying the information in the SCI Store web application.
- Web service User Type To be used when accessing a remote location for the purpose of passing the information to other web services (e.g. Allowing a local third part web service user pass through access to remote locations)

# 2.14 ID Format

The ID Format page provides the facility to set-up an ID Format group (using regular expressions) that can be applied to the Services in Store and will allow the CRN and Index parts of patient identifiers to be split or combined as required.

To create an ID Format Group, select ID Format from the Interfaces menu. The following page will be displayed:

🖉 ID Format - Windows Internet Explorer		
C C F L http://locahost/StoreWeb/Restricted/IDFormat/IDFoormat/IDFormat/IDFormat/IDFormat/IDFormat/IDFormat/IDFormat/IDF	🖌 👉 🗙 Google	P -
Ele Edit View Favorites Iools Help		
Google 🔽 😽 Search + 🖗 + Ø 🌵 - 🐉 - 🗏 Sidewiki + 🦃 Check + 👪 Translate + 📔 AutoFill + 🌽		🖏 🔹 问 Sign In 🔹
🚖 🕸 🎉 ID Format	🔓 • 🖻 ·	🖶 🔹 🔂 Page 🔹 🎯 Tools 🔹 🎽
SCI Store Paisley	My Settings	About Store Log Out
Home Find Patient Find Result Find Document Find Treatment Log	Patie	ent ID: Go
Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications Home > ID Format		User: admin on PJSSCI6
		oser, admin on P335cro
ID Format Rules		
3 Records Returned		
Description		
CRN ID Format Scheme		
COMPAS Strip GJH with 10 digits		
Girl whit 20 uiges		
		×
Done	Sccal inl	tranet 🔍 100% 🔹

Click 🛃 Add new ID Format Rule Group.

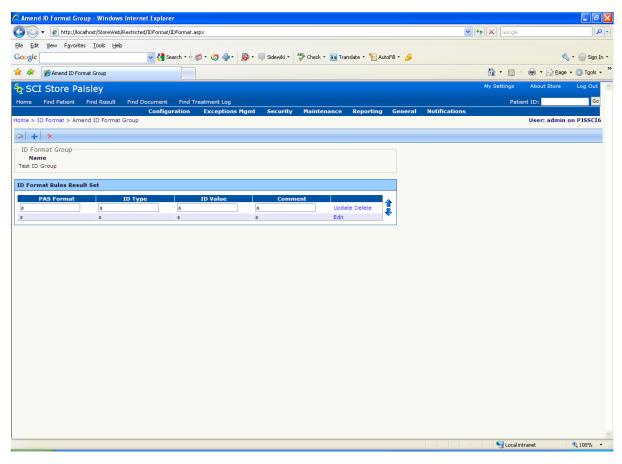
🖉 Amend ID Format Group - Windows Internet Explorer		
🚱 🕤 🔻 🔊 http://localhost/StoreWeb/Restricted/IDFormat/IDFormat.aspx	🖌 🛃 🗙 Google	- ۹
Efe Edit View Favorites Iools Help		
Coogle 🛛 🖓 Search * 🖗 * Ø 🗣 👰 * 🗐 Sidewiki * 🖑 Check * 🛃 Translate * 🚡 AutoFill * 🌽		🖏 🔹 🔵 Sign In 🔹
👷 🎄 🌈 Amend ID Format Group	🖞 • 🖻 ·	🖶 🔹 🔂 Page 🔹 🎯 Tools 🔹
💱 SCI Store Paisley	My Settings	About Store Log Out
Home Find Patient Find Result Find Document Find Treatment Log		nt ID: Go
Configuration Exceptions Mgmt Security Maintenance Reporting General M Home > ID Format > Amend ID Format Group	Notifications	User: admin on PJSSCI6
¢   ]		
Create ID Format Group		
Name		
		2
Done	Succel int	ranet 🔍 100% 🔻

Name the Group and then click **J** Save to add a rule.

🧭 Amend ID Format Group - Windows Internet Explorer		
SS + D http://acahost/StoreWeb/Restricted/IDFormat/IDFormat.aspx	🖌 🐓 🗙 Google	P -
Ele Edit Yiew Favorites Iools Help		
Coogle 🔽 😵 Search * 🖗 🔊 * Ø 🌵 🕸 * 📮 Sidewiki * 🏷 Check * 👪 Translate * 🚡 AutoFill * 🥖		🔧 🔹 🔵 Sign In 🔹
🔆 🏟 🌈 Amend 1D Format Group	🔂 • 🖻 ·	🖶 🔹 🕞 Page 🔹 🍥 Tools 🔹 🎇
SCI Store Paisley	My Settings	About Store Log Out
Home Find Patient Find Result Find Document Find Treatment Log		nt ID: Go
Configuration Exceptions Mgmt Security Maintenance Reporting General Notification Home > ID Format > Amend ID Format Group	IS	User: admin on PJSSCI6
C ID Format Group		
Name		
Test ID Group		
ID Format Rules Result Set		
PAS Format ID Type ID Value Comment		
Update Delete		
		~
	S Local in	ranet 🔍 100% 🔹

To create a rule the following information is required:

- **PAS Format** is the regular expression that must match the provided CRN number format exactly.
- If this is matched, **ID Type** (string expression) will be set in the database appropriately.
- **ID Value** is another regular expression that will typically extract the numeric part of the CRN number (typical value = \d{6} i.e. the 6 numbers that make up the PAS Format entry)
- **Comment** is non functional, used to describe the purpose of the entry.



Once this has been entered, click **Update** to save the rule. To amend the content of a rule or, to move it up and down the hierarchy, click **Edit**, make

the changes and click **Update**. Once the rules have been set-up, click **and Save** to save the rule to the database.

The rules then need to be applied to the Interfaces that feed into Store as required. To do this select the Interfaces menu and click Configure. Select the appropriate Translator service form the list and click **Configure**. Select the group from the ID Format Group drop-down list and click **Save** then **Exit**.

#### 2.14.1.1 Examples

#### Example 1

PAS Format - ^RCH\d{6} (Matches RCH at the beginning of the CRN followed by 6 digits)

ID Type – RCH (the string expression that will be entered into the ID Type column)

ID Value - \d{6} (how the ID number will be displayed in Store – in this example 6 digits only)

So if a patient with a CRN of RCH999999 entered Store and matched this rule, their CRN number would be displayed in Store in the IDs table as follows:

- ID Value 999999
- ID Scheme CRN
- ID Type RCH

### Example 2

- PAS Format ^ABC\d{5} (Matches ABC at the beginning of the CRN followed by 6 digits)
- ID Type ABC (the string expression that will be entered into the ID Type column)
- ID Value \d{5} (how the ID number will be displayed in Store in this example 5 digits only)

This means that if a patient with a CRN of ABC11111 entered Store and matched this rule, their CRN number would be displayed in Store in the IDs table as follows:

- ID Value 11111
- ID Scheme CRN
- ID Type ABC

#### Example 3

- PAS Format \d{6} (Matches 6 digits)
- ID Type RCH (the string expression that will be entered into the ID Type column)
- ID Value RCH\d{6} (how the ID number will be displayed in Store in this example RCH is added to the 6 digits)

This means that if a patient with a CRN of 999999 entered Store and matched this rule, their CRN number would be displayed in Store in the IDs table as follows:

- ID Value RCH999999
- ID Scheme CRN
- ID Type RCH

#### Example 4

- PAS Format \d{5} (Matches 5 digits)
- ID Type ABC (the string expression that will be entered into the ID Type column)
- ID Value ABC\d{5} (how the ID number will be displayed in Store in this example ABC is added to the 5 digits)

This means that if a patient with a CRN of 11111 entered Store and matched this rule, their CRN number would be displayed in Store in the IDs table as follows:

- ID Value ABC11111
- ID Scheme CRN
- ID Type ABC

# 2.15 "File To Database" Audit & Parse From DB Search

These screens allow the user to search for and display the messages that have been processed by the various FileToDatabase, SplitterFromDatabase and TranslatorFromDatabase services that have been set-up in SCI Store.

For further information, see:

- SCI Store Exceptions Management Guide
- Exceptions Management Overview

# 2.16 "Doc To DB" Search

This screen allows the user to search for and display any messages processed by the DocumentToDatabase services set-up in SCI Store.

For further information, see:

• DocumentToDatabase User Guide

# 3 System Settings

# 3.1 Add New System Setting

On clicking the **System Settings** menu item from the **General** admin menu the screen shown below is displayed.

System Settings - Windows	Internet Explorer		
🔁 🕥 👻 🙋 http://localhost/S	StoreWeb/Restricted/Admin/SystemSettings.aspx	Google	2
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>-</u>	[ools <u>H</u> elp		
r 🔅 🏈 System Settings		🟠 🔹 🔊 🔹 🖶 🔹 📴 Bage 🔹 🎯 Tools 🔹 🕢 🕻	، 🛴 🚸 🔇
FSCI Store Paisle	y	My Settings About Store	Log Out
ome Find Patient Find	Result Find Document Find on CHI	Patient ID:	Go
	figuration Exceptions Mgmt Security Maintenance	Reporting General Notifications	
me > System Settings		User: admin o	n PJSSCI6
•   <b>+</b> :Ξ			
Setting	Description	Setting Value	Туре
owsSubscribers	Allows subscriptions to notification services	True	Boolean
ditCasualBrowser	Sets default value for Casual Browser query in Audit Report screen		Integer
ditFailedLogon	Sets default value for Failed Login query in the Audit Report screen	10	Integer
ditLockout	Sets the default value for the Lockout query in the Audit Report screen	10	Integer
ditLongPeriods	Sets the default value for the Long working hours query in the Audit Report screen	8	Integer
ICertificatPath	Sets the default filepath location of the SSL certificate required to access the CHI webservices	F:\GGTest\CHI_Initial\ttsnet1rootca.cer	String
IWebServiceURL	Sets the default URL for the CHI webservices	http://cpcxmlt1.nds.scot.nhs.uk/chiweb/chisearch.asmx	String
imulativeDefaultOrderDesc	The requested default OrderBy is Descending. If this requires to be changed to Ascending then set this to FALSE View A shows results along the horizontal axis and dates down the	True	Boolean
umulativeDefaultView	vertical axis. View B shows results down the vertical axis and dates along the horizontal axis.	в	List
umulativeDiscoveredDates	If set to TRUE this setting will override the CumulativeReportDays setting and return all results for the patient being viewed. The default setting is FALSE	False	Boolean
mulativeEnforceLocalDisplay	When set to TRUE shows LOCAL codes - set to FALSE to see BOUNDED List values also	True	Boolean
umulativeReportDays	This represents the number of days back from todays to be searched against. e.g search range is inclusive from: today - CumulativeReportDays to: today	28	Integer
umulativeShowDescription	The datagrid will show the column / row headers with Codes as default, set as TRUE to show the description instead	False	Boolean
umulativeTextLength	This represents the length of a text result N.B. Not Table results - anything less than or equal to is displayed in the grid - anything greater than the value is represented by a notepad icon	12	Integer
oginMessage	Defines the message displayed to users on the application login page	Welcome on SCI Store 4.1.838.1 configured on UK002258 at Mon Sep 15 22:03:45 2008	String
SGenerateForNational	Determines whether to generate notifications based on Read/National code descriptions. When set to True notifications will be created when either the Local or the Mapped descriptions match a subscription.	True	Boolean
SVersion	Defines the version of SQL Server to be used for Notification Services e.g. SQL2000 or SQL2005	SQL2005	List
phanDocumentsOver	Sets the number of days that is used as the search criteria in the Orphan Documents Search screen. E.g. if 10 is entered, the search will look for the documents that are over 10 days old.	10	Integer
e		Second Intranet	💐 100% 🕞

This page shows a list of the System Settings that are currently configured for this SCI Store.

To create a new setting, click the **Add New System Setting** button from the toolbar. The following screen will then be displayed:

🖉 Add System Setting - Windows Internet Explorer		
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Eile Edit View Favorites Iools Help		
😭 🏟 🌈 Add System Setting	🏠 🔻 🖾 🔹 🖶 🕈 📴 Page 🕶 🎯 Tools 👻 🔞 🛪	) 🕸 🚉 🚳
SCI Store Paisley	My Settings About Store	Log Out 🔥
Home Find Patient Find Result Find Document Find on CHI	Patient ID:	Go
Configuration Exceptions Mgmt Security Maintenance	Reporting General Notifications	
Home > System Settings > Add System Setting	User: admin or	1 PJSSCI6
Ģ		
Add/Amend System Setting		
Selected System Setting Select A System Setting		

Then select the name of the setting in the Setting Type drop down list – if a default value has been supplied it will appear in the Setting Value text box, this can be edited if appropriate. Additionally, a description of what functionality the Setting Type provides will be displayed. E.g.

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🕈 🍄 🌈 Add System S	etting					• 🔊 - 🖡	9 ▼ 🔂 <u>P</u> age - {	🔆 T <u>o</u> ols 👻 🔞 🗸	😣 🚸 🛍
SCI Store Pa	isley						My Settings	About Store	Log Out
ome Find Patient	Find Result	Find Document	Find on CHI				Patie	nt ID:	Go
	Configurati	on Exception		Maintenance	Reporting	General	Patie Notifications	5	
me > System Settings	Configurati	on Exception		Maintenance	Reporting	General			
me > System Settings	Configurati > Add System	on Exception		Maintenance	Reporting	General		5	
me > System Settings a 4d/Amend System Set	Configurati > Add System ting	on Exception		Maintenance	Reporting	General		5	
me Find Patient me > System Settings a udd/Amend System Set elected System Setting Description	Configurati > Add System ting	on Exception Setting ientSearchLimit	ns Mgmt Security		Reporting	General		5	

Only settings currently not in use will be available in the drop down list

# 3.2 Amend an Existing System Setting

To amend an existing setting, click the desired System Setting from the list on the System Settings page.

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Eile E	Edit <u>V</u> iew F <u>a</u> vo	rites <u>T</u> ools <u>H</u> e	elp							
k 🕸	C Add System S	Setting					- 🔊 - 🖷	🔹 🔂 Page 🔹	💮 Tools 👻 🔞	🛛 🚸 🛍
a sc	I Store Pa	isley						My Settings	About Store	Log Out
Home	Find Patient	Find Result	Find Document	Find on CHI				Patie	ent ID:	Go
		Configurat	ion Exception	ns Mgmt Security	Maintenance	Reporting	General	Notification	IS	
ome >	System Settings	> Add System	Setting						User: admi	n on PJSSCI6
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Add/Ar	mend System Se	tting								
	mend System Se ed System Settin		umulativeDefaultView	~						
	ed System Settin	g Cu Vie	ew A shows results	along the horizontal as and dates along the h		he vertical axis	. View B sho	ws results		
Selecte Descrip	ed System Settin	g Cu Vie	ew A shows results	along the horizontal as s and dates along the h		he vertical axis	. View B sho	ws results		

Edit the setting value appropriately and click **Save**. If successful the following message will be displayed:

## "System setting has been successfully saved"

Settings can also be deleted by using the Delete button. Click the Return to Previous Page icon in the toolbar to return to the Add System Setting screen.

[Note: if configuring a DocumentToDatabase interface, the settings "DTDBinaryReadPath" and DTDBinaryWritePath must be created.]

# 3.3 Viewing a list of All System Settings

To view a list of all System settings that can be configured click the **View List** of **System Settings** button from the toolbar on the System Settings page.

System Settings - Wine	lows Internet Explorer		
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Eile Edit View Favorit	es <u>I</u> ools <u>H</u> elp		
💡 🏟 🌈 System Setting	5	🔄 🔹 🔝 🔹 🖶 👻 📴 Page 🗸 🎯 T <u>o</u> ols 👻 🔞 🛪 🔞	ا 🚨 🚸
SCI Store Pai	sley	My Settings About Store	Log Out
Home Find Patient	Find Result Find Document Find on CHI	Patient ID:	Go
	Configuration Exceptions Mgmt Security Maintenance	e Reporting General Notifications	
ome > System Settings		User: admin on	PJSSCI6
⇔ + :≡ ←			
Setting	Description	Setting Value	Туре
llowsSubscribers	Allows subscriptions to notification services	True	Boolean
uditCasualBrowser	Sets default value for Casual Browser query in Audit Report screen	20	Integer
AuditFailedLogon	Sets default value for Failed Login guery in the Audit Report screen		Integer

The following page will be displayed showing a list of all system settings, their types, range, and default values.

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SCI Store Paisley		N	ly Settings	About	Store Log Ou
Home Find Patient Find Result	Find Document Find on CHI		Pat	tient ID:	G
Configuratio		neral	Notificatio	ns	
ome > System Settings > List System S	ettings			User: a	admin on PJSSC
>					
Code (unique)	Description	Туре	Lower Range	Upper Range	Default Value
AllowSimultaneousLogins	When set to TRUE allows multiple logins by the same user	Boolean			True
AllowsSubscribers	Allows subscriptions to notification services	Boolean			False
AuditCasualBrowser	Sets default value for Casual Browser query in Audit Report screen	Integer			
	Sets default value for Failed Login query in the Audit Report screen	Integer			
	Sets the default value for the Lockout query in the Audit Report screen	Integer	1		
	Sets the default value for the Long working hours query in the Audit Report screen	Integer	1	24	
AuditSearchResults	Audits all results returned from the Find Patient screen.	Boolean			FALSE
AutoMergeMaxCandidates	The maximum number of candidates to select in order to produce a manageable auto merge batch size	Integer	1		50
BreakglassWarning	Sets the default value for the breakglass warning message displayed to the user	String			
BypassCriticalXMLValidation	When set to TRUE will bypass xml response validation against schema	Boolean			FALSE
	Sets the default filepath location of the SSL certificate required to access the CHI webservices	String			
	If set to True, deceased patients will be processed by the CHIInitial Download service	Boolean			
CHIWebServiceURL	Sets the default URL for the CHI webservices	String			
	The requested default OrderBy is Descending. If this requires to be changed to Ascending then set this to FALSE	Boolean			
	View A shows results along the horizontal axis and dates down the vertical axis. View B shows results down the vertical axis and dates along the horizontal axis.	List			A
	If set to TRUE this setting will override the CumulativeReportDays setting and return all results for the patient being viewed. The default setting is FALSE	Boolean			
	When set to TRUE shows LOCAL codes - set to FALSE to see BOUNDED List values also	Boolean			TRUE
	Represents the number of columns displayed horizontally	Integer	1		
	Represents the number of rows displayed vertically	Integer	1		
LumulativeReportDays	This represents the number of days back from todays to be searched against. e.g search range is inclusive from: today - CumulativeReportDays to: today	Integer	0		
LumulativeSnowDescription	The datagrid will show the column / row headers with Codes as default, set as TRUE to show the description instead	Boolean			
CumulativeTextLength	This represents the length of a text result N.B. Not Table results - anything less than or equal to is displayed in the grid - anything greater than the value is represented by a notepad icon	Integer	1		
	Implements dirty read or isolation level 0 locking which means that no shared locks are issued and no exclusive locks are honored. This is the least restrictive of the four isolation levels.	Boolean			FALSE

# 4 CHI Lookup Admin

The CHI Lookup service enables users to search for and download patient records into SCI Store.

The lookup service is set up via the Interface Configuration menu by simply creating an interface of type "CHILookup".

The CHI Admin page is shown below:

🖉 Amend CHI Lookup - Win	dows Internet Explorer	
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Google	🔽 🛃 Search • 🖗 🔊 • 🧭 🐳 🛛 Sidewiki • 👘 Sidewiki • 👘 Check • 👪 Translate • 🍗 AutoFill • 🥖	🖏 🔹 🔵 Sign In
🚖 🕸 🌈 Amend CHI Lookup		🏠 🔹 🔝 🐇 🖶 🔹 🔂 Page 🔹 🎯 Tools 🔹
SCI Store Paisl	ey	My Settings About Store Log Out
Home Find Patient Fin	d Result Find Document Find Treatment Log	Patient ID: Go
	Configuration Exceptions Mgmt Security Maintenance Reporting General Notification	
	Amend Interface > Amend CHI Lookup	User: admin on PJSSCI6
¢= 🛃		Actions Select Action 😪 Go
CHI Web Service Parame	ters	
Originating System	testing	
Originating User	testing	
Transaction ID	ac1	
User Role	Testing	
Location ID	CHI	
CHI Header		
Origin Code	V201H	
Operator Number	ZA	
User ID	Test	
Client Operator Number	A1	
Password	PASS	
Provider	CHI 🗸	
Schemes And Mappings		
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Done		Succal intranet 🔍 100% 🝷

The fields on this screen relate to the following:

- Origin Code The code of the institution or system attempting to gain access
- **Operator Number** The name of the account that is used to access the system. The number differentiates between whether the account is for a particular system or an institution.
- User ID Helps identify logon to CHI Web Service. Needs to be the same for each transaction.
- Client Operator Number Identity of the individual within the client system.

- CHI The password of the account used to gain access.
- The other fields on the screen are mandatory and form part of the standard SCI Store message. However, they are not interpreted by the CHI Web Service and therefore can be populated with anything that is meaningful.

# 5 Security

The security model in SCI Store allows total flexibility of access to data. Access can be restricted at various levels right down to a particular field on a particular row. The framework is provided for the trust to decide exactly what level of security to provide in keeping with local policies. Obviously the more complex the security model is the more time and effort is required to administer it. A pragmatic approach should be adopted.

Key aspects of the security model are as follows:

- User A user needs to be created for each person using the system. The user is
  associated with all the aspects of security described below. You assign which
  module permissions, view permissions, roles, permission groups, security
  permissions, default views, initial document views, HCP Code and Base Location
  that are applicable to that particular user.
- Data Restrictions To restrict access to particular pieces of information or record sets, Data Restrictions are used. A "Data Restriction" consists of a set of Field Permissions. Each of the permissions contains specific access rights for the fields or records within a table. The administrator specifies which table, and fields / group of records they wish to control access to.
- **Permission Groups** A "Permission Group" is a combination of permissions and settings (View and Module Permissions, Groups and Password Expiry), which can then be used as a template to be applied to user accounts. So for example, a Permission Group called "Consultant" can be created that will hold a combination of the various permissions that can be created in Store and can be applied to each consultant so that they have the same security settings.
- **Roles** A Role is a combination is Data Restrictions and Permission Groups. More than one user may be associated with a User account, but only one Role is utilised when a user logs in (if applicable).
- Field Permissions This option restricts the fields that the user can view in certain records. For example, it would be possible to hide certain fields such as Date of Birth from certain users or user groups, or, to restrict the types of tests that a user could see.
- **Module Permissions** This restricts the menu options and that the user can access when they log in. It can be set-up per user and each menu option is configurable. For ease of use, templates can be created and copied for users with the same access rights. If no module permissions are set when a user is created, default permissions are given: View/Configure Home Page; View Patients, Results, Documents, CHI information and change password.
- View Permissions This option restricts the user to viewing records of a particular type, simply, "what patients is the user allowed to see?" For example, it is possible to restrict a user to viewing the patient records that belong to a certain GP, GP Practice, Consultant or Ward, or indeed any combination of these. In addition, each of these categories has been broken-down into "Registered" and "Requesting" sub-categories, "Requesting" being the professional or location that

requested a particular set of test results. Consequently, it is possible to allow users to view additional records that they may not otherwise have seen.

- Base Locations A Base Location is the location of a particular sub-set of users, for example a GP Practice or a Ward. All users must be assigned a base location in order to access SCI Store. This functionality is also used for administering StoreToStore searches. For further information see the SCI Store – Remote Store Administration Guide.
- Remote Profiles –remote profiles contain different combinations of remote data sources that can be attached to group permissions, individual users or a roles. Remote Profiles allows centrally controlled permission across StoreToStore to allow access to different remote data sources. See section 3.3.9 for more detail on remote data source profile configuration.

# 5.1 Users

On selecting the **Security** menu then selecting the **Users** menu item, the initial screen shown overleaf is displayed.

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👷 🏘 🎯 Users	🙆 • 🖻 ·	- 🖶 • 🔂 Bage • 🍈 Tools • 👌
SCI Store Paisley	My Settings	About Store Log Out
Home Find Patient Find Result Find Document Find Treatment Log	Pati	ient ID: Go
Configuration Exceptions Mgmt Security Maintenance Reporting General Not Home > Users	tifications	User: admin on PJSSCI6
		oser. admin on P335cro
Add/Search for a user Search Clear		
User Name		
Friendly Name		
Forename		
Surname		
Email Address		
Job Type		
Location		
Status		
User Type		
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From here it is possible to search for an existing user or to add a new user to the system. To search for an existing user, enter one or more of the following criteria and click **Search**, or simply click the **Search** button (which will return all users):

• User Name

- Friendly Name (User account alias)
- Forename
- Surname
- Email Address
- Job Type (e.g. Consultant, SHO, Nurse etc.)
- Base Location (Where the user is based)

In SCI Store version 2.2, the concept of "Global" and "Local" Administrators was introduced. A "Global" administrator is someone who can manage all the user accounts in the database whereas a "Local" administrator only has access to accounts that belong to the same base location (local area).

None of the fields on this screen are mandatory, however, if a Local Administrator is accessing this page, the only value in the Base Location drop-down list is the location that they belong to, whereas a Global Administrator will see all the base locations within the drop-down list.

In order to add a new user, click the **Add** icon, at which point the screen shown overleaf will be displayed.

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me > Users > User Ma		Configurat		Exceptions Mgm		urity Main	tenance	Reporting	Gene	ral Not	ifications		User: admin	
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ser Details														
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itle				Forename *		9		Surnam						
ase Location *				Email Address				Contact						
Jser Type	Loca		~	Јођ Туре		Not specified		Source :	System				U.	
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Default Patient View	Results	1	User	r Session Timeout			Adr	ministrator Ty	pe	Not Specifie	d	Y		
)isplay Template	Default Te	mplate		e Access Template	Not spe	cified	💌 Rer	mote Profiles		Select Profile	•		*	
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From this screen it is possible to:

- Add new users to the system
- View the Patient records viewed by the user
- View the Patient results viewed by the user
- View the Documents viewed by the user
- Set up User permissions for the Menu bar options
- Set up User permissions restricting access to certain individual permission groups
- Set the active status of the account
- Set the time period the account is active for
- Set the remote profile for the user

- Delete a user account
- Control the Patients a user has access to
- Assign a Permission Group(s) to a user account
- Assign a Security Permission(s) to a user account
- Assign a Role(s) to a user account
- Force the user to change their password the next time they login
- Select the initial patient view, i.e. what is displayed when a user first views a patient record (Results, Documents or ECS)

To add a new user:

- Enter User Name (maximum 10 characters, no duplicate usernames are allowed), then select a Base Location from the drop-down list (if no "custom" Base Locations have been created – see section 3.3.11, the default value of "Local Store" should be used)
- Enter a Friendly Name (user account alias).
- Enter a **Password**.

The minimum password complexity requirements are:

- Shall not be the same as, or contain, the account username;
- Shall contain characters from three of the following four categories:
  - uppercase alphabetic characters (A-Z);
  - lowercase alphabetic characters (a-z);
  - numerals (0-9);
  - non-alphanumeric characters, for example: ! \$ # %.
- Shall be at least 8 characters long.

Passwords must be changed at intervals of not more than 3 months (90 days). The "PasswordExpiry" system setting allows the administrator to define this interval, the default value is 30 days. SCI Store will force users to change passwords when this defined interval has elapsed.

A new password cannot be the same as the previous 12 passwords and cannot have been used in the previous 12 months.

Note: "Enforce Password Change" functionality only relates to users of type "Local & Roles Only".

- The following fields are now also required when creating a user account; **Title**, **Forename**, **Surname**, **email Address**, **Contact Number** and **Job Type**. The **email Address** must be entered in standard Internet email format, for example;
  - $\Rightarrow$  name@scistore.com
  - $\Rightarrow$  forename.surname@scistore.co.uk
  - $\Rightarrow$  forename.surname@scistore.com

- $\Rightarrow$  name@scistore.co.uk
- Enter a valid date in the **Valid From** and **Valid To** text boxes. However, just using either date is sufficient in order to set-up an account.
- To enable the account check the **Account Active** check box, to disable it leave the checkbox clear.
- If the **Password Expires** checkbox is checked then the user must change the password after the number of days specified in the **System Settings** page (See section 3.1).
- If the **User must change password at next login** checkbox is checked, then the user must change their password the next time that they login to SCI Store.
- The User Session Timeout defines the time period that a user can leave the system idle before being automatically logged out. If this is left blank the default defined by the DefaultSessionTimeout system setting will be used when the user logs in.
- If the User is to be a "Global Administrator" i.e. someone that is able to maintain all user accounts in the system, the **Global Administrator** checkbox should be checked.
- If the User is to be a "Local Administrator" i.e. someone that maintains user accounts that belong to their Base Location, the **Publish Contact Details** checkbox should be checked. As well as marking the user as a "Local Administrator" (if **Global User** is unchecked), if this checkbox is selected, the contact details for this account will be available via the Offline Support functionality (see SCI Store End User Guide – section 2.2).
- Initial Patient View has a default of "Results".
- **Remote Data Source Profiles** can be associated with the user. The user will have access to all those remote data sources that have been allowed in the remote profile selected.
- Enforce Login Reasons checkbox defines whether the user must select from the list of Login Reasons before they are granted access to the application after correctly entering their username and password credentials. (see section 3.3.13)

On creation of a user account, **Permission Groups** can also be applied. These will limit the access that the user has to the database. (For instructions on creating and editing these groups see **Group Permissions** in Section 3..3.10) The list box on the left, **Available Groups**, contains all permission groups in the system. Select one and use the direction button to move it to the **Selected User Groups** list box, and vice versa to remove a group. Clicking on the button with double direction arrows will either add or remove all of the groups.

This page facilitates the assignment of **Security Permissions** (a combination of Data Restriction permissions and settings including View and Module Permissions, Permission Groups, Password Expiry) that can be applied to the

user's account. Select one and use the direction button to move it to the **Selected Data Restrictions** list box, and vice versa to remove a Data Restriction. Clicking on the button with double direction arrows will either add or remove all of the Data Restrictions. Please note that there are no default Data Restrictions within SCI Store and therefore need to be set-up.

**Note.** The permissions in the Data Restrictions will be combined with any previous set of permissions that have been applied to that user account.

**Role Associations** can also be applied to the user account. A Role acts as a combination of both Permission Groups and Security Permissions; it gives a User the ability to login in with a different set of security permissions to their default user account. (See section 3.3.2 – User Roles)

Once all details have been added or modified, click the **Save** button to complete the process. The status of the operation will be displayed at the bottom of the form.

To modify an existing user, click the **Search** button and then select the user that needs to be amended. The previous screen (where new users were added) will then be displayed.

Once the amendments have been made, save the changes by pressing the **Save** button.

#### 5.1.1 Module Permissions

See Section 3.4.4 for more details.

#### 5.1.2 View Permissions

View Permissions determine the patient records that a user is entitled to see and can be set-up either on an individual basis or on a group basis using the Permission Groups functionality.

In order to set-up a View Permission, firstly click the **View Permissions** button which in turn will display the View Permissions menu page (as displayed over the page).

<ul> <li>         Integrify of the second se</li></ul>	C View Permission Se	elect - Windows I	nternet Explorer				
My Settings       About Store       Log Out         Home       Find Patient       Find Result       Find Document       Find on CHI       Patient ID:       Go         Configuration       Exceptions Mgmt       Security       Maintenance       Reporting       General       Notifications         Home > Users > Add User to Group > View Permission Select       User: admin on PJSSCI6         Patient View Permission Types       Description         GPs       Consultants	🔆 💽 🗸 🖉 http://	/localhost/StoreWeb/F	Restricted/Admin/Viev	wPermissionS 🔽 🐓	Google		P -
Home       Find Patient       Find Result       Find Document       Find on CHI       Patient ID:       Go         Configuration       Exceptions Mgmt       Security       Maintenance       Reporting       General       Notifications         Home > Users > Add User to Group > View Permission Select       User: admin on PJSSCI6         Patient View Permission Types       Description         GPs       GPs         Consultants       Go	🖌 🏟 🏉 View Permi	ission Select	- 6 ·	5 - 🖶 • 🗗	2age 👻 🍈 T <u>o</u> ols	- @- 🛞 🛛	Þ 🕸 🛍 🐺 🍕
Configuration       Exceptions Mgmt       Security       Maintenance       Reporting       General       Notifications         Home > Users > Add User to Group > View Permission Select       User: admin on PJSSCI6         Patient View Permission Types       Description         GPs       Consultants	SCI Store P	Paisley			My Settings	About Stor	re Log Out 📐
Home > Users > Add User to Group > View Permission Select User: admin on PJSSCI6 Patient View Permission Types Description GPs Consultants	Home Find Patient	Find Result	Find Document	Find on CHI	Pati	ent ID:	Go
Patient View Permission Types Description GPs Consultants	Configuration I	Exceptions Mgm	t Security	Maintenance	Reporting	General	Notifications
Description GPs Consultants							
GPs Consultants	Home > Users > Add U	lser to Group > Vi	ew Permission Se	lect		User: adr	nin on PJSSCI6
Consultants			ew Permission Se	lect		User: adr	nin on PJSSCI6
	Patient View Permis		ew Permission Se	lect		User: adn	nin on PJSSCI6
	Patient View Permis Description		ew Permission Se	lect		User: adn	nin on PJSSCI6
GP Practices	Patient View Permis Description GPs		ew Permission Se	lect		User: adr	nin on PJSSCI6
Hospitals	Patient View Permis Description GPs		ew Permission Se	lect		User: adn	nin on PJSSCI6
Wards	Patient View Permis Description GPs Consultants GP Practices		ew Permission Se	lect		User: adr	nin on PJSSCI6

From here, click on the required View Permission type (GP, Consultant, GP Practice, Hospital or Ward) to display screen like the one shown below.

C View Permission - Windows Internet	t Explorer									
💽 🗸 🖉 http://localhost/StoreWeb/F	Restricted/Admin/Mar	nageViewPermis 💙 💽	😽 🗙 Google		<b>P</b>					
😭 🏟 🎉 View Permission	- 6	<b>N</b> - <b>E</b>	} <u>P</u> age → ۞ T <u>o</u> o	ls • 🕐 • 🔇	) 📴 🖇 🛍 🐺 🚳					
SCI Store Paisley			My Settings	About	Store Log Out 📐					
Home Find Patient Find Result	Find Document	Find on CHI	Pa	atient ID:	Go					
Configuration Exceptions Mgm	nt Security	Maintenance	Reporting	General	Notifications					
Home > Users > Add User to Group > View Permission Select > View Permission User: admin on PJSSCI6										
Editing: admin	Patient View	Permissions								
Valid GP's										
GP's in SCI Store		Only \ Regist	/iew Patients wit ration	th the follow	ing GP's of					
56789 - (56789)	· /	Add >								
67644 - (67644) 9999998		Remove								
3406946 - ABBAS, AHMED		Cinove								
6037870 - ABBAS, SOHAIL 0870498 - ABBASI, NOMAN	CI	ear All								
4710459 - ABDEL-FATTAH, NADER		or v	with the followin	a Requestin	a GP's					
4626002 - ABDUL MALEK, AINUL 4615059 - ABEDIN, ATIYA		Add >								
0870742 - ABEDIN, KHWAJA 4607542 - ABEDIN, SALMA										
2547143 - ABEL, GRAEME	< F	Remove								
2547246 - ABEL, RHODA	CI	ear All								
2550428 - ABELL, CHRISTOPHER										
	Save		Exit							

In this example, the list on the left-hand side contains all the GPs that are currently in the SCI Store database. To create a view permission, select the appropriate GP from the left-hand list and click the appropriate **Add>** button depending on whether the GP selected is the registered GP for that patient or is a GP that has requested tests for that patient. The other permission types take the same format.

**Note**. A multiple selection can be made by holding down the Ctrl button and then selecting the fields to be added to the permission.

#### 5.1.3 Change Password

Click on the **Change Password** button to display the following screen. From here, a user's password can be amended, as per the rules governing the creation of passwords in SCI Store:

- Shall not be the same as, or contain, the account username;
- Shall contain characters from three of the following four categories:
  - uppercase alphabetic characters (A-Z);
  - lowercase alphabetic characters (a-z);
  - numerals (0-9);
  - non-alphanumeric characters, for example: ! \$ # %.
- Shall be at least 8 characters long.

CReset User Password - Windows Internet Explorer				(	
COO - E http://localhost/StoreWeb/Restricted/Admin/Ad	dminUserP 🔽 🗟 👉 🗙	Google			<b>P</b> -
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp					
x					
🖕 Favorites 🛛 🚖 🏉 Suggested Sites 🔻 🔊 Free Hotmail 🧧	) Web Slice Gallery 🔻				
Reset User Password	🖄 -	a · 🖃 🖨	Page	Safety - Tools	• 🕡 •
SCI Store Paisley		My Setting	gs Abo	out Store Lo	og Out 📐
Home Find Patient Find Result Find Document	Find Treatment Log		Patient ID:		Go
Configuration Exceptions Mgmt Secu	rity Maintenance	Reporting	General	Notifications	
Home > Users > User Maintenance > Reset User Passwor	-d		Use	er: admin on P	JSSCI6
🗢 🛛 🛃					
User Details					
User Name					
admin					
Reset User Password					
New Password					
Confirm Password					
Account Status Active 💌					
		67			~
		Second Second Second	et	🚽 🍕 🛨 🔍 10	00% <b>*</b>

The system will lock a user's account if the user fails to change the password 21 days after the due date.

#### 5.1.4 Maintain Questions

Security questions need to be saved against a user account to allow the Password Reset functionality to be utilised (see SCI Store End User Guide – section 2.3).

To set-up the 3 initial security questions:

- Create a new user account as described above
- Once created, search for the user account on the User Search screen
- Select the user account
- Click Maintain Questions
- As no questions have been set, the AskUserQuestions screen will be displayed (See below). Select 3 different questions and enter each answer (Note: An exact match is required for each answer when using the Password Reset functionality). Click **Save**.

🖉 Ask User Questions - Windows Internet Explorer									
G		🗕 🖉 http://k	calhost/StoreWeb/Restri	cted/Admin/Adm	inAskUserQuestio	n 🕶 🗲 🗙 😡	ogle		•
	4	🏉 Ask User Qu	estions		• 🛛 - 🖶	• 🔂 <u>P</u> age • 🎯	T <u>o</u> ols • 🕜 •	3 📴 🔶 🛍	ž 🐴
Sc	SCI	Store P	aisley			My Settin	igs Abou	it Store Log O	ut 🔝
Но	ome	Find Patient	Find Result Find	d Document	Find on CHI		Patient ID:		Go
	Confi	guration	Exceptions Mgmt	Security	Maintenan	ce Reporting	General	Notifications	
Ho	me > U	sers > Add Us	er to Group > Ask Us	er Questions			User	admin on PJSS	CI6
			ent questions as your						
	Userna	me:	admin						
	Questio	in 1:	Please select	a question	*				
	Answer	:							
	Questio	in 2:	Please select	a question	*				
	Answer	:							
	Questio	in 3:	Please select	a question	~				
	Answer	:							
			Save	Exit	]				

It is also possible for users to define their initial security questions. This can be done by setting the value of the "SetUserQuestions" system setting to "True" (see section 3.1) – the AskUserQuestions screen (above) will then be displayed when the user logs in if they have no questions defined against their account. Once the questions have been defined, each user can manage their questions as described below.

Once the initial security questions have been set-up, any answers that were given can be amended whilst questions can be added or removed to/from the list of questions for that particular user. Consequently, clicking **Maintain Questions** will display the following screen (Maintain User Questions) that will allow a user's security questions to be managed.

-) -) } ↔	▼		b/Restricted	· · ·	MaintainUserQuestio			ogle T <u>o</u> ols <del>-</del> ②·	· 🕄 🗄	> ↔ ∰	
r SC	I Store Pa	aisley				M	y Settin	ngs Abo	out Store	e Log	Out
- Iome	Find Patient	Find Result	Find D	ocument	Find on CHI			Patient ID:			Go
Со	nfiguration	Exceptions	; Mgmt	Security	Maintenance	Repor	ting	General	Noti	fications	
me > l	Jsers > Add Use	er to Group >	Maintain U	Jser Questio	ns			Use	er: adm	in on PJS	SCI6
	new question	n		Questio	n Description		Re	sponse			
Add a new question			What was your first school?								
Aud a	a new question		What wa	as your first	school?		******	* * *	Edit	Delete	
	vas your first scho			as your first were you bor			*****		Edit Edit	Delete Delete	
	vas your first scho		Where v		rn?			* * *			

To add a new question, select a question from the drop-down list and enter the appropriate answer, click **Add New Question**.

To edit an answer, click **Edit** in the appropriate row – the Response cell in the table will be enabled – the answer can then be amended. Click **Update** once the answer has been changed.

To delete a question, simply click **Delete** in the appropriate row. This action will not be allowed if there are only 3 questions in the list.

Users are also able to manage their own security questions by accessing this screen via the **Maintain Questions** option on the **Home** menu

#### 5.1.5 RestrictLocalAdmin System Setting

Local administrators can be restricted to administering passwords for the users in their base location via the "RestrictLocalAdmin" system setting. If this is set to true, when the administrator clicks on a username returned on the User Search screen, the Change Password screen (see section 3.3.1.3) will be displayed instead of the User Admin screen.

## 5.2 User Roles

On selecting the **Security** menu then selecting the **Role Administration** menu item, the following Role Administration search screen is displayed.

Home	Find Patient	Find Result	Find Document	Find Treatment Log						Patient II	D:	Go
			Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications			
ome >	Role Administrat	tion	58	12							User: admin o	n PJSSCI
>   +	-											
Search	Roles	Search	Clear									
ole Na	me											

From this screen it is possible to search for an existing Role or Add a new Role. When the 🛨 button is clicked then the page overleaf is displayed.

	aisley							M	y Settings	About Store	Log Ou
Home Find Patient		ind Document	Find Treatment Log						Patient ID	5: <b>-</b>	Go
	Cor	nfiguration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications			
ome > Role Administra	ition > Role Mainter	nance								User: admin o	n PJSSC:
>											
Role Details											
Role Name *											
Role Status *	Please Select	~	Valid Fr	m		~ \	alid To			~	
Default Patient View	Results	~	Time Ac	cess Template	Not specified	V F	ole Session Tir	neout			
Remote Profiles	Select Profile		~								
Enforce Login Reason											
User Notes											
2										-	
Permission Groups											
Available Permissi ECSGPAdmin	on Groups	~	Selected Permi	ssion Groups	~						
ECSOutOfHours		-	24								
HideDOBandFemale HideHSDocs											
HideRadiology		>>									
	n	<									
OnlyGPMargaretAnderson OnlyGPPaulCunningham											
OnlyGPPaulCunningham OnlyGPPracBruntsfieldHe	althCentreHideRad	< <									
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OnlyGPPaulCunningham OnlyGPPracBruntsfieldHe	althCentreHideRad	<			<b>S</b>						
OnlyGPPaulCunningham OnlyGPPracBruntsfieldHe	ealthCentreHideRad	~ <			<b>W</b>						
OnlyGPPaulCunningham OnlyGPPracBruntsfieldHe \$	ealthCentreHideRad	~			~						
OnlyGPPaulCunningham OnlyGPPracBruntsfieldHe \$	ealthCentreHideRad	~ < <			V						
OnlyGPPaulCunningham OnlyGPPracBruntsfieldHe \$	ealthCentreHideRad	×.			2						
OnlyGPPauCunningham OnlyGPPracBruntsfieldHe s Security Permission: Available Data Rest	salthCentreHideRad	~	Selected Data	Restrictions	3						
On/GPPauCunningham On/GPPacBruntsfieldHe s Security Permission: Available Data Rest HideAlDo8	salthCentreHideRad s trictions		Selected Data	Restrictions	2						
On/GPPauCunningham On/GPPauCunntsfieldHe s s cecurity Permission Available Data Rest HideAlDo8 HideCNN HideCNN	salthCentreHideRad s trictions		Selected Data	Restrictions	×						
On/GPPauCunningham Dn/GPPPauCunnisfieldHe s Security Permission Available Data Rest HideJIDo8 HideCRN HideDon/PaitentMaster HideFemalePatents	salthCentreHideRad s trictions		Selected Data	Restrictions	7						
On/GPPauCunningham Dn/GPPPauCunnisfieldHe s Security Permission Available Data Rest HideJDoB HideDoBn/PaientMaster HideFamalePaients HideFamalePaients	salthCentreHideRad s trictions		Selected Data	Restrictions	8						
Onk/GPPauCiunningham Dh/GPPauCiunnisheldHe \$ Security Permission Available Data Rest HideAlDo8 HideCNN HideD8nDatientMaster HideFamilePatients HideHamaleDay HideHSDocs HideRadioday	salthCentreHideRad s trictions		Selected Data	Restrictions	2						
On/GPPauCunningham Dn/GPPPauCunnisfieldHe s Security Permission Available Data Rest HideJDoB HideDoBn/PaientMaster HideFamalePaients HideFamalePaients	s s :rictions		Selected Data	Restrictions	×						

To add a new Role the following information can be specified: (fields are **not** mandatory unless specified)

- Role name mandatory field with a maximum of 10 characters
- Valid From & Valid To dates specifying the period during which the Role is valid. These fields are 'Date Picker' controls allowing you to select the date from a drop-down calendar style control. Dates may also be entered by keyboard and will be auto formatted in dd/mm/yyyy format.
- Role Status mandatory field
- **Default Patient View** –specifies the default view when the user navigates to the Patient Detail view for a specific patient in the application.
- **Time Access Template** specifies which Time Access template is enforced for this Role
- Enforce Login Reason checkbox which specifies whether the User must select a Login Reason when they login using the Role
- **Permission Groups** Multi-select tool which allows zero to many Permission Groups to be applied to the Role

- Security Restrictions Multi-select tool which allows zero to may Data Restrictions to be applied to the Role. When updating a Role Module Permissions and View Permissions buttons are also available.
- Role Session Timeout defines the time period in minutes that a user using this role can leave the system idle before being automatically logged out. If this is left blank the default defined by the DefaultSessionTimeout system setting will be used when the user logs in under this role.
- **Remote Profiles** Dropdown list of all the active remote profiles which can be selected.

Once all details have been added or modified, click the Save button to complete the process. The outcome of the process will be displayed in a message as below.

Home	> Role Administration > Role Maintenance	,
🕕 Rol	le saved successfully	
<b>\$</b>	× 🔒	
Role	Details	

On saving a new Role the Delete button will become available.

To delete a Role search for and select a Role on the **Role Administration** screen. The page below will be displayed.

SCI Store Pa	aisley					My Settings	About Store	Log Out
Home Find Patient	Find Result Find Docume	nt Find Treatment Log				Patient ID	:	Go
	Configuration	Exceptions Mgmt Security	Maintenance	Reporting Gener	al Notificat	tions		
Home > Role Administrat	tion > Role Maintenance						Jser: admin o	n PJSSCI
🖙   🗙 🛃								
Role Details								
Role Name *	TestRole1							
Role Status *	Active	Valid From		Valid To	1	-	~	
Default Patient View	Demographic Names 💉	Time Access Template	Not specified	💉 Role Sessi	on Timeout	20		
Remote Profiles	LocalDSAccess	×						
Enforce Login Reason								
User Notes								
Permission Groups								
Available Permissic ECSGPAdmin ECSDU/UHours HideD0BandFemale HideHSDocs HidePadiology OnlyGPMargaretAnderson OnlyGPPadCurnningham OnlyGPPadCurntsfieldHe. \$		Selected Permission Groups	0					
<u></u>								
Security Permissions								
Module Permissions	View Permissions							
Available Data Rest	rictions	Selected Data Restrictions						
HideAlloB HideCRN HideDoBonPatientMaster HideFemalePatients HideHaematology HideHSDocs HideRadiology HideRedotD%psa		DrijGPPaulCurningham						
HideSeededRecords HideSodium	<b>×</b>		~					

To delete the Role click the  $\Join$  **Delete button**. There are certain conditions under which a Role may not be deleted.

- The Role is currently assigned to a user or users.
- The Role has in the past been used by a user or users, even if it is not currently assigned to any users.

On successfully deleting a Role, all controls on the page will be disabled with only the a back button left enabled as shown below.

Home > Role Adn	ninistration > Role Maintenance fully deleted
¢=	
Save Delete	
Role Details	
Role Name	newrole

At any time on the Role Maintenance page the Role Back button may be clicked to cancel whatever changes are pending and the user will be returned to the Role Administration search screen.

### 5.3 Data Restrictions

On selecting the **Security** menu then selecting the **Data Restrictions** menu item, the following screen is displayed.

<del>ି</del> ନ୍ଦୁ SC	I Store Pa	isley									My Settings	About Store	Log Out
Home	Find Patient	Find Result	Find Document	Find T	eatment Log						Pati	ent ID:	Go
			Configu	ration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications			
Home > F	Find Data Restrie	ctions										User: admin	on PJSSCI
⇔   +	•												
Search	for	Search	Clear										
Data Res	striction												

From this screen it is possible to search for a data restriction as well as access the screen shown overleaf that allows a new data restriction to be added. **Data Restrictions** are made up of individual **Field Permissions** and are used to link **User** accounts with **Field Permissions** (see 3.3.4).

To add a new Data Restriction:

- Click on the 🛨 Add Restriction icon on the toolbar
- The screen below will appear

SCI Store Paisley										
Home	Find Patient	Find Result	Find Document	Find T	reatment Log					
			Configu	ration	Exceptions Mgmt	Security	Maintenance			
Home > F	Find Data Restri	ctions > Manag	e Data Restrictions							
¢   🖌										
Create	Data Restricti	ion								
Name	Test Data Restrictio	on								

- Enter a name for the permission into the **Data Restriction** text box.
- Click on the 屋 Save icon.
- The screen on the following page will be displayed.
- The Available Restrictions list box contains a list of all previously created Field Permissions. Select any or all of the available permissions and using the directional buttons move them to the Selected Restrictions list box. All field permissions selected will be applied to this group.
- To save the new Group hit the 🖬 Save button
- To Delete an existing group hit the **Delete button**

🖉 Manag	e Data Restric	tions - Windov	ws Internet Explor	er									
00	✓ Ø http://lo	calhost/StoreWeb	)/Restricted/Admin/Man	ageDataRe	strictions.aspx?Action=1					*	😽 🗙 Google		<u>۹</u>
<u>File E</u> dit	View Favorit	es <u>T</u> ools <u>H</u> el	lp .										
Google			🖌 😽 Se	arch 🕶 🔶 🏹	• 🔕 📲 🖉 🛯	Sidewiki 🔹	🏶 Check 🔹 🔒 Tra	nslate 🔹 🎦 Aut	:oFill • 🥖			ę	💊 🔹 🔵 Sign In 🔹
🚖 🎄	🏉 Manage Data	a Restrictions									🙆 • 🖻 ·	🖶 🔹 🔂 <u>P</u> age	• 🔘 T <u>o</u> ols • '
Sc:	Store Pa	aisley									My Settings	About Store	Log Out 🦉
Home	Find Patient	Find Result	Find Document		eatment Log						Patie	ent ID:	Go
			Configu		Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications		-	
-			e Data Restrictions									User: admin	on PJSSCI6
		ccessful. Ope	eration Terminate	d Norma	lly.								
⇔ ×													
🗇 Data F	lestriction De	tails											
	striction Nam												
Test D	ata Restriction												
🗁 Data F	estrictions												
	le Restriction	s	Sel	ected Re	strictions								
Hide Date Hide DoB		*											
Hide Rad Hide Hae													
Hide Rep	orts		>										
Hide Sod	um ale patients		>>										
Hide Test	s		<										
Hide CRN	led Records		~~										
	entHighlySensitive	Document											
	ryHighlySensitive												
U UNIV Rec	eiving HCP Alison	Kerr											

To modify an existing Restriction, click on the **Search** button on the initial Data Restrictions screen, then select the group that is to be modified. The following screen will then be displayed to allow the details of an existing Restriction to be amended.

Once the modifications have been made click **Jave** and then **Exit**.

### 5.4 Field Permissions

On selecting the **Security** menu then selecting the **Field permissions** menu item, the initial screen shown over the page is displayed.

Tionio Tina Face				1.2		
Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications
Home > Field Permis	sions				User: a	dmin on PJSSCI6
• т	able List	C Permi	ssion List			
Select Table to creat	te permissions for:					
	Admission/Discharge/Transf s key current Patient informa		r Patients		<u>^</u>	
t_PatientDocumentSear	=					
	t_PatientDocumentSearchHistory - Search/Selection criteria for uploaded Document History. t14 Address - Contains Address informatin for Patients and Organisations.					
_	s Patient, Report, Set and Te	-	sations.			
	cs - Main Demographic data s the various IDs that relate t			us.	~	
		o a rationt o.g. c				
Сгеа	te Permission	Cancel				

This screen acts as a menu for two main options: to create a new permission and to amend or delete an existing one. To create a new permission, first select a table to create permission for and then click the **Create Permission** button. The following screen will then be displayed.

nome rinu Faue	nt Thu Kesuit	nna Docame	ne i nhà ôn Chí	Fatient 1D.		~~
Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifica
Home > Field Permis	sions > Permission Ac	lmin		Use	r: admin on	PJSSCI6
Field Restriction	5					
Permission Name						
on Table :	t14_address					
Fields in Table			Fields to be	Hidden		
PatientID PropertyNumber Address Postcode AddressType		Add > Add All				
ValidFromDate ValidToDate UnstructuredAddress Address_PatientDemo OrganisationAddress_	graphicsID	< Remo				
CurrentDemog EventTime	~	<< Remov	e All			
Row Restrictions	· .		> etc. and single qu	otes ' as requir	ed)	
NOTE: Dates should	be written in the form	at 'YYYY/MM/	DD HH:MM:SS'			
Field PatientID	✓ C	ondition			Add	
					Remove	
					Parse	
	Save	Restore 0	Irginal Exit			-
<					)	>
				Local intranet	Đ.	100% -

If a 'blanket' hide of a particular field is required, for example, all dates of birth, then the appropriate field(s) from the 'Fields in Table' list should be selected. If however, the restriction is more selective, for example, a particular ID number, then the appropriate field should be chosen from the Row Restriction drop-down list. These restrictions can then be created using operators such as 'Like', >, <, <>, >= and <=.

To create a new permission:

- Enter a name for the permission in the **Permission Name** text box.
- Select the field(s) to be hidden or select the row(s) that are to be restricted.
- Select the records to be hidden.
- Press save to complete the addition.

**Note**. A multiple selection can be made by holding down the Ctrl button and then selecting the fields to be added to the permission.

To modify an existing permission, check the **Permission List** radio button as shown in the screenshot on the previous page. The following screen is then displayed. From here select the existing permission to be edited or deleted.

Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notif
Home > Field Permi	issions			Use	r: admin on	PJSSC
01	Table List	Permi	ssion List			
Select Permission to	o edit:					
Hide CRN on table t14					~	
Hide Date of Birth on t	able patientmaster					
Hide DoB on table t14_						
Hide Female patients of						
Hide Haematology on t						
Hide Radiology on tabl						
Hide Reports on table Hide Seeded Records	on table patientmaster				~	
Ed	lit Permission	Cancel	Delet	e		

Note. You cannot delete a permission if it is currently in use by a Group.

If an existing permission is to be amended, the following screen will be displayed, in order to change the permission simply add or remove fields and then click **Save**.

Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notific
	issions > Permission Adn	nin		Use	r: admin on	PJSSCI6
Field Restrictio	ns					
Permission Name	Hide DoB					
on Table :	t14_patientdemographi	cs				
Fields in Table			Fields to be	Hidden		
PatientID DateOfBirth TimeOfBirth Age Sex MaritalStatus RegisteredGP_Healt HealthBoardOfResic HealthBoardOfResic CurrentDemog Deceased DateofDeath	dence_HealthBoa	Add > Add All >> < Remove << Remove /	All			1
Row Restriction	ns (Us d be written in the format		etc. and single que	otes 'as requir	ed)	
Field PatientID		ndition			Add	
		,			Remove	
	Save	Restore Org	inal Exit			

To create a field level permission on the Document Upload functionality, a permission needs to be created on the t\_PatientDocumentSearch and must be named as follows:

HideHighlySensitiveDocument

To create this permission, follow the steps outlined above to create a row restriction set Sensitivity = 'h'. This permission can then be applied to a group(s). **Note** – the name of the group is not important.

[Note: For further information on document security, please refer to the SCI Store Security Reference Guide.]

### 5.5 Module Permissions

Module permission can be used to control user access to certain functions and menu options within SCI Store. Module Permissions can be configured against a **User, User Role** or **Permission Group**.

Where a User has been assigned one or more Permission Groups the user is given a combination of the User and all associated Permission Group Module Permissions at log in.

#### 5.5.1 Module Permission Templates

Module Permissions can be configured against individual Users, User Roles and Permission Groups, but can also be configured as **Module Permission Templates** that can then be applied to a User, User Roles and Permission Groups.

By selecting the **Security** menu and then selecting the **Module Permissions Templates** menu, the following screen is displayed.

Edit View Favorites Iools Help         Module Permission Templates         Module Permission Templates         SCI Store Paisley         ne       Find Patient         Find Patient       Find Document         Find on CHI       Patient ID:         Configuration       Exceptions Mgmt         Security       Maintenance         Reporting       General	
SCI Store Paisley My Settings About Store Log ne Find Patient Find Result Find Document Find on CHI Patient ID: Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications	Dut
ne Find Patient Find Result Find Document Find on CHI Patient ID: Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications	
ne Find Patient Find Result Find Document Find on CHI Patient ID: Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications	Go
e > Module Permission Templates User: admin on PJS:	<b>CI6</b>
+	_
T	
Template Name Updated By Last Updated Delete	
STRICT ALL         Core         28/05/2003 11:45:43         Delete	
w template         admin         29/01/2009 18:02:32         Delete           w temp         admin         04/02/2009 15:10:13         Delete	
w temp admin 04/02/2009 15:10:13 Delete fault admin 04/02/2009 15:37:27 Delete	
rault admin 04/02/2009 15:37/27 Delete strictedUserTemplate1 admin 12/02/2009 11:42:01 Delete	
	_
STRICT ALL         Core         28/05/2003 11:45:43         Delete	e e

This page displays a list of Module Permission Templates that are currently available within the system. For here a user is able to create a new Template, edit the permissions of an existing Template or delete an existing Template. Templates which have been "greyed out" are core templates and cannot be deleted or edited.

To add a new permission template simply click the  $\pm$  icon in the toolbar.

r 🏟 🛛 🄏 Module Permission Template:						_
	s	f	<b>⊡</b> • <b>⊡</b> ·	🖶 🕈 🔂 B	age + 🎡 T <u>o</u> ols + 🔞	- 🐼 🚸 🚉
SCI Store Paisley				My Setti	ngs About Store	Log Out
ome Find Patient Find Result	Find Document Find c	on CHI			Patient ID:	Go
Configuration	Exceptions Mgmt Sec	urity Maintenance	Reporting	General	Notifications	
me > Module Permission Templates	3				User: adm	in on PJSSCI6
2						
Add New Template		1				
emplate Name	Add Template Cancel					
Template Name	Updated By	Last Upda	ted	Delete		
Template Name RESTRICT ALL	Core	28/05/2003 11:45:43	ted	Delete		
Template Name RESTRICT ALL ALLOW ALL	Core Core	28/05/2003 11:45:43 28/05/2003 11:45:43	ted	Delete Delete		
Template Name RESTRICT ALL ALLOW ALL RestrictedUserTemplate	Core Core admin	28/05/2003 11:45:43 28/05/2003 11:45:43 14/01/2009 23:12:19	ted	Delete Delete Delete		
Template Name RESTRICT ALL ALLOW ALL RestrictedUserTemplate new template	Core Core admin admin	28/05/2003 11:45:43 28/05/2003 11:45:43 14/01/2009 23:12:19 29/01/2009 18:02:32	ted	Delete Delete Delete Delete		
RESTRICT ALL ALLOW ALL RestrictedUserTemplate new template new temp	Core Core admin admin admin	28/05/2003 11:45:43 28/05/2003 11:45:43 14/01/2009 23:12:19 29/01/2009 18:02:32 04/02/2009 15:10:13	ted	Delete Delete Delete Delete Delete		
Template Name RESTRICT ALL ALLOW ALL RestrictedUserTemplate new template new temp default	Core Core admin admin admin admin	28/05/2003 11:45:43 28/05/2003 11:45:43 14/01/2009 23:12:19 29/01/2009 18:02:32 04/02/2009 15:10:13 04/02/2009 15:37:27	ted	Delete Delete Delete Delete Delete Delete		
Template Name RESTRICT ALL ALLOW ALL RestrictedUserTemplate new template new temp	Core Core admin admin admin	28/05/2003 11:45:43 28/05/2003 11:45:43 14/01/2009 23:12:19 29/01/2009 18:02:32 04/02/2009 15:10:13	ted	Delete Delete Delete Delete Delete		

To modify the Module Permissions for an existing template, select the appropriate row in the grid. The page shown below will then be displayed.

C Edit Module Permission - Windows Internet Explorer			
😋 💽 👻 🖉 http://localhost/StoreWeb/Restricted/Admin/ModulePermis	sionTemplate.aspx?TemplateID=4	Google	<b>P</b> -
Eile Edit View Favorites Tools Help			
🚖 🏟 🌈 Edit Module Permission		🟠 🔹 🔝 🝸 🖶 🔻 🔂 Page 🖛 🍈 T <u>o</u> ols 🔹 🔞 T	🔞 🚸 🚉 🦓
SCI Store Paisley	·	My Settings About Store	Log Out 🔥
	n CHI	Patient ID:	Go
Configuration Exceptions Mgmt	Security Maintenance	Reporting General Notifications	
Home > Module Permission Templates > Edit Module Permission		User: admir	on PJSSCI6
Permission Template			
Template Name new template	Updated By admin	Updated On 29/01/2009 18:02:32	
	aumin	29/01/2009 18:02:32	
Edit Module Permission			
Select Category Category Patient			
☑ Find and View Patients ☑ Find on CHI Search			
□ View Patient Addresses □ Find on CHI - Save to Store			
☑ View Patient History □ Find on CHI - Test Match			
☑ View Patient IDs     □ Point in Time view			
🗆 View Patient Names 🛛 🗆 Maintain Patient Consent			
🗆 View Patient ADTs 🛛 🗆 Break Glass			
View Patient Telecoms 🛛 🗌 View Anonymous Patients			
□ View Patient Treeview			
			~
Done		S Local intranet	🔍 100% 🔹 💡

This page displays some read only information at the top detailing the template that you are editing. It then contains a category drop-down list and a check-box list of permissions associated to the selected category.

By default all new templates will not have any module permissions assigned to them, so all check-boxes will be de-selected. To grant permission to a particular Module Permission simply click on the check-box or text of the desired permission so that the check-box becomes checked.

The permissions displayed can be changed by selecting a different category. To show all Module Permissions select "Show All.." from the category drop

down. To save a Module Permission configuration simply click the **I** icon in the toolbar. A message will be displayed telling you whether the save has been successful.

🔊 🗢 🧧 http://localhost/Sto	oreWeb/Restricted/Admin/ModulePermissionTemplate	e.aspx?TemplateID=4	Google 😽 🖌	٩
le <u>E</u> dit <u>V</u> iew Favorites <u>T</u> or	ols <u>H</u> elp			
🕸 🌈 Edit Module Permission			🏠 🔹 🔝 🕤 🖶 🔹 🔂 Bage 🔹 🎯 Tools 🔹 🕢 🤆	3 🐟 🛍
SCI Store Paisley			My Settings About Store	Log Out
me Find Patient Find Re			Patient ID:	Go
	Configuration Exceptions Mgmt	Security Maintenance Reporting	General Notifications	
ne > Module Permission Temp	lates > Edit Module Permission		User: admin o	on PJSSCI6
Permission saved success	fully			
ermission Template				
Templat		Updated By	Updated On	
new ter	mpiate	admin	29/01/2009 18:02:32	
it Module Permission				
Select Category				
Category (Show All)	~			
Find and View Patients	View Documents	Field Permissions Configuration	🗌 Locked User Account Audit Report	
View Patient Addresses	Retire Document	Module Permissions Configuration	Failed Login Audit Report	
View Patient History	Add/Edit Scheme and Code Mappings	Remote Data Source User Configuration	Casual Browser Audit Report	
View Patient IDs	View and Edit System Settings	Base Location Configuration	Extended Login Audit Report	
View Patient Names	View User Customisation Page	User Session Admin	Remote Data Source Configuration	
View Patient ADTs	Store Interface Configuration	Role Configuration	Provider Save to Store	
View Patient Telecoms	Patient Matching Rule Configuration	Timed Access Template Configuration	Notification Access	
View Patient Treeview	ID Format Configuration	View user audit on Patient and Result Pages		
Find on CHI Search	Maintain User Questions	View Statistics	Message Oueue Access	
Find on CHI - Save to Store	Break Glass Maintenance		View the Store Parse Log	
Find on CHI - Test Match	Cumulative Sources Configuration		Uploaded Files	
Point in Time view	Code Scheme Configuration	Break Glass Search	Parsed Files	
Maintain Patient Consent	Code Scheme Group Configuration	Break Glass Summary	Document to Database Search	
Break Glass	User configuration	Document Audit Report	ACSC Registration Search	
View Anonymous Patients	Add User	Maintain Patient Audit	Search Exceptions	
Find Result Search	Update User	Notification Services Subscription Manager	Find and Merge Dulpicate Patients	
View Results	Delete User	Notification Services Message Audit	Maintenance Plan Configuration	
View Results History	Change Password	Patient Search Audit	Find Merges Search	
View and Add Result Notes	Data Restrictions Search	Organisation Test Report	Orphan Document Clean-up	
Cumulative Report	Permission Group Configuration	Report Profiles configuration	□ Job Type and Login Reason Maintenance	
		· · ·		

#### 5.5.2 User/Role/Group Module Permissions

Module Permissions for Users, User Roles, and Permission Groups can be configured by going via the relevant User/Role/Group configuration screen.

For example, to edit a users' module permissions select **Users** from the **Security** menu, search for the user and click through to the **Amend Existing User** page. From here simply click the **Module Permission** button to take you to the Module Permission configuration page for that user.

🖉 Edit Module Permission -	Windows Internet Explorer				
💽 🗸 🖉 http://localho	st/StoreWeb/Restricted/Admin/ModulePermissio	hUser.aspx?UserID=25	<b>v</b> 4	🕈 🗙 Google	P •
Eile Edit View Favorites	Tools Help				
🚖 🏟 🏾 🌈 Edit Module Permi:	ssion		👌 • 🔊 • 🕯	🖣 🔹 📴 Page 🔹 🍈 Tools 🔹 🔞	🔞 🕸 🚉 🦓
St. CCI. Store Daio	lov			My Settings About Store	Log Out
SCI Store Pais					
	nd Result Find Document Find on Configuration Exceptions Mgmt		Reporting General	Patient ID: Notifications	Go
	Group > Edit Module Permission	Security Hamtenance	Reporting General		n on PJSSCI6
⇔ 📮					
⊂ User					
User Name	Friendly Name	User Type	Base Location	Account Statu	s
andrew1	andrew	Local	Local Store	Active	
Edit Module Permission					
Select Category	Apply Template				
Category Patient	Template (None)	Apply			
Find and View Patients	Find on CHI Search				
View Patient Addresses					
View Patient History	Find on CHI - Test Match				
View Patient IDs	Point in Time view				
View Patient Names	Maintain Patient Consent				
View Patient ADTs	✓ Break Glass				
View Patient Telecoms	View Anonymous Patients				
View Patient Treeview					
					~
Done				Scal intranet	🔍 100% 🔹 💡

Similar to the template configuration page the page displays some read-only information at the top detailing the User/User Role/Group that you are configuring. It also has the category and check-box lists seen previously.

Additionally the user will have the ability to apply Module Permission Templates to Users, Roles and Groups. To apply a pre-defined template simply select the appropriate template from the drop down list and click **Apply**. The Module Permissions check-box list will then be configured to match the Module Permissions of the Permission Template.

To save the permissions to the User, Role, or Group simply click the *icon* in the toolbar.

#### 5.5.3 Module Permission Restrictions

If the user that is attempting to edit the Module Permissions of a User, User Role, Group or Template is only configured as a Local Administrator then they will only be able grant access to Module Permissions that they have access to themselves. I.e. they will not be able to grant more permissions than they have.

In these cases, when a Module Permission configuration page is loaded the permissions that the current user does not have access to will be highlighted in red and a message will be displayed above the check-box list.

	eWeb/Restricted/Admin/ModulePermissionUser.asp	x/UserID=1	Google
le Edit View Favorites Too	ls <u>H</u> elp		
🕸 🏉 Edit Module Permission		🖄 🕶 (	🔊 🝸 🖶 🔹 📴 Bage 🗸 🎯 T <u>o</u> ols 🔹 🔞 🔹 🎎
SCI Store Paisley			My Settings About Store Log Out
, me Find Patient Find Do	cument		Patient ID: Go
	Exceptions Mgmt Security	Maintenance Reporting General M	lotifications
ne > Users > Add User to Grou	p > Edit Module Permission		User: andrew1 on PJSSCI
Jser			
User Name	Friendly Name	User Type Base Locatio	
admin	The Global Admin	Local Local Store	Active
dit Module Permission			
Select Category	Apply Template     Template (None)	Apply	
2.1			
		nissions than yourself. Permissions you do	
Find and View Patients	View Documents	Field Permissions Configuration	Locked User Account Audit Report
View Patient Addresses	Retire Document	Module Permissions Configuration	Failed Login Audit Report
View Patient History	Add/Edit Scheme and Code Mappings	Remote Data Source User Configuration	Casual Browser Audit Report
View Patient IDs	View and Edit System Settings	Base Location Configuration	Extended Login Audit Report
View Patient Names	View User Customisation Page	✓ User Session Admin	Remote Data Source Configuration
View Patient ADTs	Store Interface Configuration	Role Configuration	Provider Save to Store
View Patient Telecoms	Patient Matching Rule Configuration	Timed Access Template Configuration	Votification Access
View Patient Treeview	ID Format Configuration	▼ View user audit on Patient and Result Pages	🔽 Generic Data Access
Find on CHI Search	Maintain User Questions	View Statistics	Message Queue Access
Find on CHI - Save to Store	🔽 Break Glass Maintenance	View Audit Report	View the Store Parse Log
Find on CHI - Test Match	Cumulative Sources Configuration	EBIZ Audit	Vploaded Files
Point in Time view	Code Scheme Configuration	Break Glass Search	Parsed Files
Maintain Patient Consent	Code Scheme Group Configuration	Break Glass Summary	Document to Database Search
Break Glass	User configuration	Document Audit Report	ACSC Registration Search
View Anonymous Patients	Add User	Maintain Patient Audit	Search Exceptions
Find Result Search	Vpdate User	▼ Notification Services Subscription Manager	Find and Merge Dulpicate Patients
View Results	Delete User	✓ Notification Services Message Audit	Maintenance Plan Configuration
View Results History	Change Password	Patient Search Audit	Find Merges Search
View and Add Result Notes	Data Restrictions Search	Organisation Test Report	Orphan Document Clean-up
Cumulative Report	Permission Group Configuration	Report Profiles configuration	Job Type and Login Reason Maintenance

A list of all Module Permissions, and a description of their function, is available in appendix B.

## 5.6 Remote Data Source Profiles

Remote Data Source Profile maintenance allows the administrator to set up profiles containing the various combinations of remote data sources required by a site. These profiles can then be attached to the relevant Users and/or Groups (see sections 3.3.1 & 3.3.10).

On selecting the Security menu and then selecting the **Remote Data Source Profile Maintenance** menu, the following screen is displayed.

SC SC	I Store Pa	aisley								My Settings	About Store	Log Out
Home	Find Patient	Find Result	Find Document	Find Treatment Log						Patient I	D:	Go
			Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications			
Home > I	Remote Data So	ource Profile M	aintenance								User: admin o	n PJSSCI6
¢   +												
Add/Sea profile	arch for a remo	te Search (	Clear									-
Profile Name												

Click the **Search** button and a list of the remote profiles in SCI Store will be displayed, alternatively enter the profile name for the criteria in order to return a sub-set of remote profiles. Selecting the appropriate remote profile will then display a screen similar to the one shown below (**Note:** how to define a Remote Data Source is described in section 2.11).

ne Find Patient	Find Result	Find Document	Find Treatment Log						Patient II	D:	Go
		Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notification	2007/1000A-000A-000A-0	-0.8	
e > Remote Data S	ource Profile M	aintenance > Add R	emote Data Source Prof	file						User: admin o	on PJSSCI
× 🔒											
emote Data Sol	urce Profile—						ī				
ofile Name * CHID:	Access										
ofile Status OAct	ive OInactive										
							]				
		10 00 00 00 00 00 00 00 00 00 00 00 00 0					1				
cess Permission	or listed Rem	ote Data Sources									
cess Permission	or listed Rem	ote Data Sources									
cess Permission		ote Data Sources									
) Records Returned				Allowed A							
) Records Returned Site Name		rvice Name	ONot Allowed Access	Allowed Acce	5.12/8.15.29						
) Records Returned Site Name CHI		rvice Name chiweb	Not Allowed Access	Allowed Acce	55						
) Records Returned Site Name CHI Local 2.3		rvice Name chiweb StoreWS	•Not Allowed Access	Allowed Acce	955						
D Records Returned Site Name CHI Local 2.3 Local 4.1		rvice Name chiweb StoreWS StoreWS	●Not Allowed Access ●Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce	955 955 955						
0 Records Returned Site Name CHI Local 2.3 Local 4.1 Local 6.0		rvice Name chiweb StoreWS StoreWS StoreWS	Not Allowed Access     Not Allowed Access     Not Allowed Access     Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce Allowed Acce	955 955 955 955						
0 Records Returned Site Name CHI Local 2.3 Local 4.1 Local 6.0 Invalid	Se	rvice Name chiweb StoreWS StoreWS StoreWS StoreWS StoreWS	Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce	955 955 955 955 955						
D Records Returned Site Name CHI Local 2.3 Local 4.1 Local 6.0 Invalid nunit secure 2.	5e	rvice Name chiweb StoreWS StoreWS StoreWS StoreWS StoreWS	Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce	255 255 255 255 255 255						
0 Records Returned Site Name CHI Local 2.3 Local 4.1 Local 6.0 Invalid	5e	rvice Name chiweb StoreWS StoreWS StoreWS StoreWS StoreWS StoreWS	Not Allowed Access     Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce	255 255 255 255 255 255 255						
D Records Returned Site Name CHI Local 2.3 Local 4.1 Local 6.0 Invalid nunit secure 2.	Se 3	rvice Name chiweb StoreWS StoreWS StoreWS StoreWS StoreWS StoreWS	Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce	255 255 255 255 255 255 255						
D Records Returned Site Name CHI Local 2.3 Local 4.1 Local 6.0 Invalid nunit secure 2. nunit secure 4.	Se 3	rvice Name chiweb StoreWS StoreWS StoreWS StoreWS StoreWS StoreWS	Not Allowed Access     Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce	855 855 855 855 855 855 855 855						

 To add a new Remote Profile click on + button on the Remote Data Source Profile Maintenance screen. The following screen will be displayed

20	I Store Pa	nisley										
me	Find Patient	Find Result	Find Document	Find Treatment Log						Patient ID	:	Go
			Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications			
me > R	lemote Data So	urce Profile Ma	aintenance > Add R	emote Data Source Prof	ile					,	User: admin o	n PJSSC
Remo	te Data Sour	rce Profile—						T				
Profile	Name *											
	Status OActiv											
		o o macaro						]				
	n	Line d D	ote Data Sources					1				
ccess	Permission fo	or listed Remo	ote Data Sources					-				
	ords Returned											
TO Kec	oras Returnea											
	Site Name	Se	rvice Name		Allowed A	cess						
	Site Name CHI	Se	rvice Name chiweb	•Not Allowed Access		12 - 21 - 2 - 22 - 22 - 22 - 22 - 22 -	11					
	Appendix and the same		a water the state of the state of the	Not Allowed Access     Onot Allowed Access	Allowed Acce	ss						
	CHI		chiweb		Allowed Acce	955						
	CHI Local 2.3		chiweb StoreWS	Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce	955 955 955						
	CHI Local 2.3 Local 4.1		chiweb StoreWS StoreWS	Not Allowed Access     Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce Allowed Acce	955 955 955 955						
	CHI Local 2.3 Local 4.1 Local 6.0	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	chiweb StoreWS StoreWS StoreWS	Not Allowed Access     Not Allowed Access     Not Allowed Access     Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce	155 155 155 155						
	CHI Local 2.3 Local 4.1 Local 6.0 Invalid		chiweb StoreWS StoreWS StoreWS StoreWS	Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce	155 155 155 155 155 155						
n	CHI Local 2.3 Local 4.1 Local 6.0 Invalid unit secure 2.3		chiweb StoreWS StoreWS StoreWS StoreWS	Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce	1955 1955 1955 1955 1955 1955						
n	CHI Local 2.3 Local 4.1 Local 6.0 Invalid unit secure 2.3 unit secure 4.1		chiweb StoreWS StoreWS StoreWS StoreWS StoreWS StoreWS	Not Allowed Access     Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce	1955 1955 1955 1955 1955 1955 1955						
n	CHI Local 2.3 Local 4.1 Local 6.0 Invalid nunit secure 2.3 nunit secure 4.1 nunit secure 6.0		chiweb StoreWS StoreWS StoreWS StoreWS StoreWS StoreWS StoreWS	Not Allowed Access     Not Allowed Access	Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce Allowed Acce	955 955 955 955 955 955 955						

- Enter Profile Name
- Select if the profile is **ACTIVE** or **INACTIVE**
- To apply a remote data source to a remote profile, click "Allowed Access" radio button. To remove the Web Service against the remote

profile click on "**Not Allowed Access**" radio button. Click **J** Save to apply the change.

- Click on 🔄 to Exit and go back to the Find Remote Profiles Screen.
- To delete a Remote Profile click on the 🔀 Delete icon.

ote Data Source P	rofile	
Name * DSTestplan15		
Status 💿 Active 🔿		
Permission for list	ted Remote Data Sourc	ies
cords Returned		
Site Name	Service Name	Allowed Access
CHI	chiweb	ONot Allowed Access OAllowed Access
CHI Local 2.3	chiweb StoreWS	
1000000		ONot Allowed Access
Local 2.3	StoreWS	Not Allowed Access     Not Allowed Access     Not Allowed Access
Local 2.3 Local 4.1	StoreWS StoreWS	Not Allowed Access      Allowed Access     Onot Allowed Access     Onot Allowed Access     Onot Allowed Access
Local 2.3 Local 4.1 Local 6.0	StoreWS StoreWS StoreWS	Not Allowed Access      Allowed Access     Not Allowed Access     Not Allowed Access     Not Allowed Access     Not Allowed Access     ONot Allowed Access
Local 2.3 Local 4.1 Local 6.0 Invalid	StoreWS StoreWS StoreWS StoreWS	ONot Allowed Access       Allowed Access         Image: Not Allowed Access       Allowed Access
Local 2.3 Local 4.1 Local 6.0 Invalid nunit secure 2.3	StoreWS StoreWS StoreWS StoreWS StoreWS	ONot Allowed Access       Allowed Access         Not Allowed Access       Allowed Access
Local 2.3 Local 4.1 Local 6.0 Invalid nunit secure 2.3 nunit secure 4.1	StoreWS StoreWS StoreWS StoreWS StoreWS StoreWS	ONot Allowed Access       Allowed Access         Image: Not Allowed Access       Allowed Access

There are certain conditions under which a Remote Profile may not be deleted.

- The Remote Profile is currently assigned to a user or users.
- The Remote Profile is currently assigned to a group or groups.
- The Remote Profile is currently assigned to a role or roles.

# 5.7 Permission Groups

A 'Permission Group' is a combination of permissions and settings (View and Module Permissions, Groups, Password Expiry), which can then be used as a template to be applied to user accounts.

To create a 'Permission Group', select **Security** and then **Permission Groups** from the **Administration** menu – the following screen is then displayed:

+ @ http://localhost/StoreWeb/Rest	ricted ( & dmin / Find Dermission C	round admy?Balaad=1				× .	😽 🗙 Google		8
	ncced/Adminyr indrennissiona	roups.aspx1Reioau=1							
Edit View Favorites Tools Help									
ogle	👻 🔧 Search 🔹 🔶 🌀	🎙 • 🌀 🕂 • 🖉	Sidewiki 🔹 🦃 Check 🔹 🚑	Translate 🔹 🎦 AutoF	:ill • <i> i</i> ll			le la constante de la constant	+ 🔵 Sign
Find Permission Groups							🗿 • 🔊 -	🖶 🔹 🔂 Bage 🗸	• 💮 T <u>o</u> ols
							My Settings	About Store	Log Ou
SCI Store Paisley							My Settings		
	nd Document Find Tre	satment Log						ant ID:	
ne Find Patient Find Result Fin	nd Document Find Tre Configuration	eatment Log Exceptions Mgmt	Security Maintenanc	e Reporting	General	Notifications		ent ID:	
ne Find Patient Find Result Fin			Security Maintenanc	e Reporting	General	Notifications			
ne Find Patient Find Result Fin e > Find Permission Groups			Security Maintenanc	e Reporting	General	Notifications		ent ID:	
	Configuration		Security Maintenanc	e Reporting	General	Notifications		ent ID:	
ne Find Patient Find Result Fin e > Find Permission Groups	Configuration		Security Maintenanc	e Reporting	General	Notifications		ent ID:	

- Click 🛨 Add Group
- The following screen will be displayed
- Enter a Permission Group Name
- Click on the 🛃 Save icon

SC 🔓	I Store Pa	aisley					
Home	Find Patient	Find Result	Find Document	Find T	reatment Log		
			Configu	ration	Exceptions Mgmt	Security	Maintenance
Home > F	ind Permission	Groups > Mana	age Permission Gro	up			
¢   🔓							
Create	Permission G	roup					
Permis	sion Group Na	me					

- The screen below displays **Available Remote Profiles** as a dropdown. The selected Remote Data Source Profile will be applied to this group.
- The screen below displays **Available Data Restrictions.** Selecting any or all of the available restrictions and using the directional buttons will move them to the **Selected Restrictions** list box. All restrictions selected will be applied to this group.
- Click 🛃 Save, and then 🖙 Exit.

gsc	I Store Pa	aisley								Ay Settings		
Home	Find Patient	Find Result	Find Document	Find Treatment Log						Patient	ID:	Go
			Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications			
lome > I	Find Permission	Groups > Man	age Permission Gro	up							User: admin o	on PJSSCI
🕽 Save	Procedure Su	iccessful. Op	eration Terminate	ed Normally.								
⇔   ×												
-Permi	ission Group	Details —										
Permi	ission Group M	Name										
	s											
Remo	te Profile Pe	missions-				=						
	Remote Pr	ofile Name										
Please	Select		*									
HideFe HideHa HideRa HideRa HideRa HideSa Only Di Only GF	IN BonPatientMaster malePatients sematology iDocs idiology portID%psa ededRecords	9 Alison Kerr	>>> >>> <			~						

In order to add View and Module Permissions to the template, click **Search** to find the template just created and then select is by clicking the left-mouse button over the appropriate entry in the returned list. The screen will then be displayed as follows:

	Paisley										
Home Find Pati	ent Find Result	Find Document	Find Treatment Log						Patient	ID:	Go
		Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications			
Home > Find Permis	sion Groups > Mar	age Permission Gro	up							User: admin o	n PJSSCI
🗢 🗙 🔒											
Permission Gr	oup Details										
Permission Gro HideDOBandF											
Remote Profile	Permissions-				_						
Remot	e Profile Name										
LocalDSAccess		*									
Available Data HideAlIDoB HideCRN HideHaematology HideReDocs HideReportID2psa HideSeedeRecords HideSeederRecords		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Selected Data Restri HideDoBonPatientMaster HideFemalePatients	ctions	8						

In order to add a View Permission, click **View Permissions** and select the required GP(s), Consultant(s), GP Practice(s), Ward(s) or Hospital(s) (see 3.3.1.2).

In order to add Module Permission, click **Module Permissions**. The following screen will then be shown:

🖉 Edit Module Permission - Windows Internet Explorer		- 7 🛛
C C + A http://localhost/StoreWeb/Restricted/Admin/ModulePermissionGroup.aspx?GroupID=8	Google	P-
Elle Edit View Fgvorites Iools Help		
Google Search • 🖗 • Ø 🖶 🔯 • 🗐 Sidewiki • 🍄 Check • 🜆 Translate • 🚡 AutoFill • 💋		🔦 🔹 🔵 Sign In 🔹
😭 🏘 🌈 Edit Module Permission	🙆 • 🔊 -	🖶 🔹 🔂 Page 🔹 🎯 T <u>o</u> ols 🔹 🎇
SCI Store Paisley	My Settings	About Store Log Out 🔥
Home Find Patient Find Result Find Document Find Treatment Log	Patie	nt ID: Go
Configuration Exceptions Mgmt Security Maintenance Reporting General N	otifications	
Home > Find Permission Groups > Manage Permission Group > Edit Module Permission		User: admin on PJSSCI6
ф   🛃		
Permission Group Group Name ECSGPAdmin		
Edit Module Permission		
Select Category Apply Template Category Patent V Template (None) V Apply		
Find and View Patients Find on CHI - Test Match		
View Patient Addresses 🗆 Point in Time View		
View Patient History		
IF         View Patient IDs         □         Break Glass		
🔽 🔽 View Patient Names 🗌 View Anonymous Patients		
□ View Patient ADTs □ Show Service Name Column		
🔽 View Patient Telecoms 🗌 Manual Document Upload		
□ View Patient Treeview □ Flag Duplicate Patients		
Find on CHI - Save to Store		
		>
Done	Second Se	ranet 🔍 100% 🔹 🛒

From here, either a Module Permission template can be applied or the Module Permissions can be created to suit requirements.

### 5.8 Base Location

Base Location refers to the location of a particular sub-set of users; for example, it may be the name of a GP Practice or department. A Local Administrator would be associated with that base location and would be responsible for managing that set of users.

To create a Base Location, select Administration >> Security >> Base Locations.

$\sim$	- kater //leastleast/c	itoreWeb/Restricted/Adr	in /Densel anothing /D	and another Manual Annual						🗸 🍫 🗙 Google		
$\mathbf{U}$	<ul> <li>mttp://iocainost/s</li> </ul>	coreweb/Restricted/Adr	nin/BaseLocation/E	aseLocationMenu.aspx						Google	•	
Edit	⊻iew Favorites <u>T</u> oo											
ogle		~	🚼 Search 🔹 🔶 🍭	🔊 • 🥥 📲 • 🛛 🔊 • 🕅	🔍 Sidewiki 🔹 😽 C	neck 🔹 鶮 Transla	ite 🔹 🎦 AutoFill	• 🥖				🖏 🔹 🔵 Sign
¢.	6 Base Locations									🙆 • 🖻	- 🖶 - 🔂 Bag	je 🔹 🍈 T <u>o</u> ols
SC	I Store Paisley	/								My Settings	About Store	Log Ou
e	Find Patient Find I		ment Find Tr	eatment Log						Pa	tient ID:	G
		Ca	onfiguration	Exceptions Mgmt	Security Ma	intenance R	Reporting G	eneral	Notificatio	ns		
> 6	Base Locations										User: admi	n on PJSSC
_												
+												
	g Base Locations											
stin; eco:	rds Returned											
stin	rds Returned		lress	Post Code	Tel	Fax	Contact	Name	LHCC			
ting	rds Returned	AddressLine1 AddressLine2 AddressLine3	dress	Post Code	Tel	Fax	Contact	Name	LHCC			
ting	rds Returned	AddressLine1 AddressLine2	lress	Post Code	Tel	Fax	Contact	Name	LHCC			
ting	rds Returned Name Lanarkshire	AddressLine1 AddressLine2	iress	Post Code	Tel	Fax	Contact	Name	LHCC			
stin; eco:	rds Returned Name Lanarkshire Local Store	AddressLine1 AddressLine2 AddressLine3	dress	Post Code	Tel	Fax	Contact	Name	LHCC			

Note. A default base location of "Local Store" will be available.

• Click 🛨 Add Base Location.

🕞 🕞 👻 🙋 http://localho	ost/StoreWeb/Restricted/Admin/BaseLocation/A	ddBaseLocation.asp×					~	← K Google		
jle Edit View Favorites	<u>T</u> ools <u>H</u> elp									
Google	🗸 🔧 Search 🔹 🔶	ه • 🌀 📲 🖉 • ا	Sidewiki 🔹	🏷 Check 🔹 🍓 Tra	nslate 🔹 🎦 Aut	oFill • 🌛			Z	🔹 🔵 Sign
Add Base Locatio	n							<b>6</b> • 5	🖶 🔹 🔂 <u>P</u> age	• 💮 T <u>o</u> ols
SCI Store Pais	lev							My Settings	About Store	Log Out
Home Find Patient Fi		eatment Log						Patie	ent ID:	Go
	Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications			
Home > Base Locations > Ad	dd Base Location								User: admin	on PJSSCI
¢= 🛃										
Base Location Administr	ation - Add Base Location									
Code	111									
Name	Remote Store 5									
Address	1 Main Street									
	Test Suburb									
	Test Town									
PostCode	TE1 1ET									
Telephone Number	01234 567890									
Fax Number										
	Contact Name									
Contact Name										

### The fields are:

Field	Туре	Description
Code	Integer	Unique Code for the Base Location.
Name	Alpha-Numeric	Descriptive name, to identify the Base Location.
Address (4 lines)	Alpha-Numeric	Address of the Base Location.
Postcode	Alpha-Numeric	Postcode of the Base

		Location.
Telephone Number	Alpha-Numeric	Telephone number for the Base Location.
Fax Number	Alpha-Numeric	Fax number for the Base Location.
Contact Name	Alpha-Numeric	Name of main contact with the Base Location. Typically this would be the Administrator for this Base Location.
LHCC	Alpha-Numeric	Local Health Care Co- operative.

All fields are optional except for Code and Name. Click **J** Save.

"Base Location has been saved" message will be displayed.

To delete a Base Location, select the base location to be deleted from the list and click on the  $\times$  Delete icon.

If the Base Location has any users assigned to it then the Delete will fail with the following error message:

#### "This Base Location cannot be deleted. All users currently assigned to this Base Location must be either deleted or moved from this Base Location."

If no user is assigned to the Base Location then "**Base Location deleted**" message will be displayed.

For further information on Base Location functionality see the SCI Store Remote Administration Guide.

# 5.9 Timed Access Templates

Timed Access Templates allow an administrator to limit the days of the week, and hours of the day during which an individual User or User Role is active.

On selecting the Security menu then selecting the Timed Access Templates menu item, the following page is displayed.

Configuration	Exceptions Mgmt	Security	Maintenan	ce Report	ing (	General	Notifications
Home > Timed Acces	s Templates					User: a	dmin on PJSSCI6
4							
Add New Templ Template Name		emplate Desc	ription		Add	]	
Available Templ	ates						
1 Record Returned	ł						
<b>Template Name</b>	Template Descripti	on Date	Created	Created by			
friday	friday template	09/05/20	08 16:00:11	admin	Delete		
(							

Any existing templates will be displayed in a grid below the 'Add New Template' fields.

To add a new template enter a name and description and click 'Add', on doing so the following page is displayed

Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications
Home > Timed Acce	ss Templates > Add Tir	med Access Band	ls		User: a	dmin on PJSSCI6
¢=						
<ul> <li>Time Access Te</li> <li>Template Na</li> <li>Template1</li> </ul>	ame Templ	ate Descriptior		ted By min	Date C	<b>reated</b> 8 14:02:08
Create New Bar Day Sunday	nd Time From	00:00	Time To	00:29 🗘	Save	
Time Access Ba	ands					
No Data To Displa	зу					

This page allows the user to create Time Access Bands for the template just created.

Zero-to-many time bands may be created (zero time bands would mean that any User or Role assigned that template would be inactive), and more than one time band per day can be created.

To create a time band select a day from the dropdown list, and using the up or down buttons select a 'Time From' and a 'Time To' for the time band.

Users will be prevented from creating a time band which overlaps an exiting time band or time bands where the 'To' time is prior to the 'From' time.

As time bands are created they are displayed in the grid and ordered by day of the week as below

Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications
ome > Timed Acce	ss Templates > Add Tim	ed Access Ban	ds		User: a	dmin on PJSSCI
Time band crea	ted successfully					
-						
Time Access Te						
Template Na	ame Templa	te Descriptio		ted By	Date C	reated
Template1	l ne	w template	ac	lmin	14/05/200	8 14:02:08
Create New Ba	nd					
Day Monday	Y Time From	00:00 🗘	Time To	07:59 🛟	Save	
Time Access Ba	ands					
4 Records Return	ed					
Day	Time From	Time To				
Sunday	00:00	23:59	Delete			
Monday	00:00	07:59	Delete			
Friday	21:00	23:59	Delete			
Saturday	00:00	23:59	Delete			

In the example above the template effectively allows access from 21:00 on Friday night to 08:00 on Monday morning (i.e. the weekend).

To delete a time band click on the 'Delete' link on the grid for the time band you wish to remove. The user will receive a confirmation prompt before the time band is deleted.

To delete a Time Access Template select the **Timed Access Templates** menu item under the **Security** menu item.

Click the Delete link in the grid next to the template you wish to delete.

A template cannot be deleted if it is assigned to a User or Role.

### 5.10 Login Reasons

A User or User logging in as a Role can be forced to select a Login Reason after they enter their username and password details.

This list of Login Reasons is maintained and configured by selecting the **Login Reason Maintenance** menu item from the **General** menu item; this displays the Login Reason Maintenance page below.

Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications
Home > Login Reaso	on Maintenance				User: a	dmin on PJSSCI6
<b>4</b>						
Maintain Logir	Reasons					
3 Records Return	ed					
Login Reason						
Clinical emergen	су		Delete			
Out of hours acc	ess		Delete			
Weekend clinic o	over		Delete			
Add						
Login Reason						
Add						

Login Reasons can be created by entering text in the Login Reason field and clicking on the 'Add' link.

On doing this the newly created Login Reason is displayed in the grid along with any other already created Login Reasons.

#### Note: No Login Reasons are created by default.

To delete a Login Reason click the delete link beside the Login Reason you wish to remove. A confirmation prompt will appear before the Login Reason is deleted.

# 6 Patient maintenance

## 6.1 Maintain Patient Consent Flag

Granted via the **Module Permissions** screen and part of the **Maintain Patient** toolset, the **Maintain Patient Consent Flag** allows the administrator to restrict/allow patient details shown on screen.

The Maintain Patient option is **only** automatically assigned to module permissions when applying the ALLOW ALL template.

The Maintain Patient screen (shown overleaf) is accessible through the Maintain Patient Icon on the Patient Details page.

🖉 Patient Details - Wir	dows Internet	Explorer							
💽 🗸 🖉 http://ld	calhost/StoreWeb/	Restricted/Patient/PatientDetails	aspx?&ClassId:	x=118		<b>▼</b> <del>*</del> 9	Google		P -
Eile Edit View Favo	rites <u>T</u> ools <u>H</u> e	lp							
🚖 🔅 🌈 Patient Deta	ils					<b>N</b> - <b>E</b>	9 🔹 🔂 <u>P</u> age 👻 🍈 To	ols • 💽 • 🕃	9 🚸 🕰 🍕
SCI Store Pa	aisley						My Settings At	out Store	Log Out 📐
Home Find Patient	Find Result	Find Document Find or					Patient ID	):	Go
Home > Patient Details	Configurati	ion Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications	er: admin o	n PISSCI6
~ A / A =								Select Action	✓ G₀
Patient Maintain Patier	7						Actions		
Patient Nam FNAME0041 SNAM	e	CHI Date Of Birth 3852260 23/02/1975		GP SHEARER, LESLEY		actice	Consultant STANDER, H	Ward/Lo	cation
PNAMEUU41 SNAM	20041 169	23/02/19/5	55 G	SHEARER, LESLET	101 PORTD	AND STREET	STANDER, H		]
Results Documents	Demographics	ADTs IDs Audit							
Filter By		Deserved to The Lock			lay Mode		~		
Discipline	Selec	t Processed In The Last	Hours	Group	By Report 🖲	Ungroup By	y Report O		
1 Record Returned									
Report Id	Discipline	Processed At	Sample	Sample Collected	l Inves	tigation	Date Reporte		es
R,02.0086605.K	Haematology	26/08/2008 01:11:22	Blood	11/06/2002 14:00:0	0 Haemoj	globin A1c	11/06/2002 12:3	0:00 🔲	
									1.2

The Maintain Patient Screen:

🙆 Maintain Patient - Windows Internet Explorer				
C      thtp://localhost/StoreWeb/Restricted/patient/MaintainPatient.aspx?patientid=118		<b>v</b> 49	Google	P -
Elle Edit View Favorites Iools Help				
😭 🏟 🖉 Maintain Patient	🟠 -		n ▼ 🔂 <u>P</u> age ▼ 🍈 T <u>o</u> ols ▼	0· 🕄 🕸 🖏 🤹
SCI Store Paisley			My Settings About S	Store Log Out 📐
Home Find Patient Find Result Find Document Find on CHI			Patient ID:	Go
Configuration Exceptions Mgmt Security Maintenance Home > Patient Details > Maintain Patient	Reporting	General	Notifications	admin on PJSSCI6
			USUN C	
Maintain Patient :: FNAME0041 SNAME0041				
Patient Consent Flag Choosing this option will allow patient details to be displayed				
Patient Consent Given     Cance	l Sa	ve		
Reason for change patient withdrew consent				
<b>K</b>				×
			S Local intranet	€ 100% ▼;

Checking/Un-checking the Patient Consent Given checkbox will have the effect of limiting the restricting/allowing what patient details are shown on screen. If this is un-checked (restricted), a page similar to that shown below will be displayed.

Example shows: Patient details restricted (Consent Flag set to NO):

🖉 Patient Details - Windows Internet Expl	orer						
🕒 🗸 🖉 http://localhost/StoreWeb/Restr	icted/Patient/PatientDetails	.aspx?&ClassIdx=1	18&Reload=1		Google		<b>P</b> •
Eile Edit View Favorites Tools Help							
😭 🔅 Patient Details				🙆 • (	🔊 🔹 🖶 🔹 🔂 Bage 🗸	🍈 T <u>o</u> ols 👻 🔞 🗸 (	3 🕸 🚉 🍕
SCI Store Paisley					My Settings	About Store	Log Out 🔥
Home Find Patient Find Result Fin	d Document Find or	CHI				nt ID:	Go
Configuration	Exceptions Mgmt	Security	Maintenance	Reporting G	eneral Notification		
Home > Patient Details						User: admin	
⇔ <u>⊖</u>					Acti	ons Select Action.	💙 Go
A This patient has withdrawn consent							
Patient Name FNAME0041 SNAME0041	CHI 1693852260	Date Of Birth 23/02/1975	Age GP 33	GP Practice	Consultant	Ward/Loca	ition
·							
					<b>2</b>		<u>∼</u>
Done					Secol int	ranet	🔍 100% 🔹 🧋

Patient details are restricted to Name, CHI, and Date of Birth. To access this Patient Details a user must Break Glass.

# 6.2 Break Glass

Controlled by module permissions, this option allows users of the application to override a Patient's "Consent". This functionality maybe used in situations such as medical emergencies. To break glass on a patient click the padlock icon on the patient details screen

🖉 Patient Details - Windows Internet Exp	lorer								
🔆 🕞 👻 🖉 http://localhost/StoreWeb/Restr	ricted/Patient/PatientDetails	.aspx?&ClassIdx=1	18&Reload=1		✓ <sup>4</sup> 7	Google			• •
Eile Edit View Favorites Tools Help									
😭 🔅 Patient Details				- 10	<b>N</b> - <b>H</b>	• 🔹 🔂 Page 🕶 🌾	🗊 Tools 👻 🔞 🕶	3 🚸 🛍	13
SCI Store Paisley						My Settings	About Store	Log Ou	it 🔥
	nd Document Find or					Patier		G	30
Configuration Home > Patient Details	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications	user: admin	an Diffe	16
									-
						Actio	Select Action.	💙 Go	0
This patien Breakglass pdrawn consent									_
Patient Name FNAME0041 SNAME0041	CHI 1693852260	Date Of Birth 23/02/1975	Age GP 33	GP Practic	e Co	onsultant	Ward/Loc	ation	
·									_
PatientDetails.aspx?ClassIdx=118&Reload=1						Second Intra		100%	<u> </u>

Users accessing this functionality must select a type and supply a reason before "breaking glass" on a particular patient.

🖉 Breakglass - Win	dows Internet Ex	plorer											X
💽 🗸 🔊 🖉 http	://localhost/StoreWe	b/Restricted/Breakg	lass/Breakglass.	aspx?PatientID:	=124		•	v + <sub>7</sub>	Google			5	- C
Eile <u>E</u> dit ⊻iew F	Favorites <u>T</u> ools !	<u>H</u> elp											
🔶 🏟 🌈 Breakgla	155					6	• 🔊	-	🔹 🔂 Page 🔹	💮 T <u>o</u> ols 👻	<b>@</b> - 😣	📣 🛍	-3
SCI Store	Paisley								My Settings	About S	tore	Log Out	^
Home Find Patier		Find Docume	nt Find on	СНІ					Patie	nt ID:		Go	0
	Configura	tion Except	tions Mgmt	Security	Maintenance	e Reportin	j Gen	eral	Notification				
Home > Patient Detai	ils > Breakglass									User: a	dmin or	PJSSCI	6
Greakglass													- 1
Breakglass Type: Breakglass Reason:	If you still intend is being audited. In the next scree information. In the event of a e.g. in a court of Please select a Br	d to access any a en, you will be as a subsequent con f law, by the Gen	dditional infor sked to give y nplaint or chal	mation i.e. o our reason fo llenge, you m	ation to be acces wer-ride the wish or still intending t hay be required t	es of the patie o access any a	dditional						X
Done									🧐 Local int	ranet	6	100%	•

The user will then be able to view the information held against that patient.

**Note:** Breaking Glass on a patient does not over-ride a users Field / Row restrictions

Patient Details - Windows Internet Explorer		
🚱 🕤 👻 http://localhost/StoreWeb/Restricted/Patient/PatientDetails.aspx?&ClassIdx=118&Reload=1	Google	P •
Elle Edit View Favorites Iools Help		
😭 🏟 🌈 Patient Details	🏠 🔹 🔝 🔹 🖶 🔹 📴 Bage 🔹 🍈 Tools 🔹 🕢	3 🕸 🚉 🚳
SCI Store Paisley	My Settings About Store	Log Out 🔥
Home Find Patient Find Result Find Document Find on CHI	Patient ID:	Go
Configuration Exceptions Mgmt Security Maintenance Home > Patient Details	Reporting General Notifications	n on PJSSCI6
	Actions Select Actio	n 🗸 Gu
A Restricted information		
Patient Name         CHI         Date Of Birth         Age         GP           FNAME0041         SNAME0041         1693852260         23/02/1975         33         SHEARER, LESLEY	GP Practice Consultant Ward/ 101 PORTLAND STREET STANDER, H	Location
Results Documents Demographics ADTs IDs Audit		
Filter By	olay Mode	
Discipline Select Processed In The Last Hours 👻 Go Grou	p By Report 🍘 Ungroup By Report C	
1 Record Returned		
Report Id Discipline Processed At Sample Sample Collecter	d Investigation Date Reported N	lotes
R,02.0086605.K Haematology 26/08/2008 01:11:22 Blood 11/06/2002 14:00:0		•
		×
Done	S Local intranet	🔍 100% 🔻 🛒

### 6.3 Break Glass Search

A "break glass instance" is rigorously audited; the username, break glass reason, event time and patient details are audited. This audit can be accessed via the Report->Break Glass Search menu option. The purpose of this screen is to provide administrators with a facility to search for occurrences of a break glass situation.

The default search range when the page is loaded is one month. Clicking on the search button performs a search, whilst clicking on the clear button, clears existing search criteria and results and restores the default search criteria.

This screen is shown below.

When performing a search the following rules should be applied:

- Period start and end dates must be provided.
- Where the period start and end dates span more than one year a username must be provided.

Image: Search       My Settings         SCI Store Paisley       My Settings         Home       Find Patent       Find Document       Find Treatment Log         Configuration       Exceptions Mgmt       Security       Maintenance       Reporting       General       Notifications         Home       Find Result       Find Document       Find Treatment Log       Patent ID:       Patent ID:         Mome > Breakglass Search       User: admin or       Security       Maintenance       Reporting       General       Notifications         Breakglass Search       User: admin or       Security       Maintenance       Notifications       Security         Username       Period End *       10/12/2009       Sississ Patent agreed       Maintenance       Notifications         Details admin       PISSC16       Local       10/12/2009       Sississ Patent agreed       Notifications         Details admin       PISSC16       Local       10/12/2009       Sississ Patent agreed       Notifications         Details admin       PISSC16       Local       10/12/2009       Sississ Patent agreed       Notifications         Details admin       PISSC16       Local       10/12/2009       Sississ Patent agreed       Notifications         Details admin<	Breakglass Type       Altopial * Alto	Breakglass Search - Windows Internet Explorer		
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# 6.4 Break Glass Maintenance

Accessed from the General->Break Glass Maintenance menu option this page allows an administrator to define "Break glass Types". "Break glass Types" can be added or removed. The "types" are used in the break glass page itself

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# 7 Manage Duplicates (Manual and Automated Merging)

Accessed via the **Maintenance** menu, the Manage Duplicates facility allows the user to search for duplicate records in SCI Store using a range of data (see over the page). So for example, it is possible to search for all the patients with the same forename and surname in order to determine if there are any duplicate records in the database. If any are found, the multiple records can then be merged into 1 single record.

# 7.1 Scheduling Considerations

The Automated job will run one query against the database for each candidate on the candidate list. This may have an impact upon database performance if the candidate list is not a manageable size.

A manageable size may be viewed as the number of candidates which can be reviewed and amended in a reasonable time by the user when the automated search has completed. For example a search with hundreds of candidates would require a lengthy time to process against the database - if each candidate returned a list of duplicates then the user would have to spend an inordinate amount of time reviewing the results.

The automated searches are run using the 'Store Maintenance Plan' functionality. This functionality is not 'ON' by default therefore the administrator must add a new string value registry key under SCI\Store14 called 'MaintenancePlanSetting', it should be given the value '1'. This will enable the Maintenance Plan functionality.

# 7.2 Scheduling Guidance

Users creating and scheduling searches should be aware of two points:

The larger the search the longer the search will take and the greater impact it will have on the database processing.

A large search run during peak times of day may diminish the response times for all users, it is recommended that a suitable window be established by the administrator which can be used when scheduling search jobs.

## 7.3 Manual Process Vs Automated Process

### 7.3.1 Manual Searching

The manual search utilises the original logic and code of the Find Duplicates page, this takes the search criteria and does an immediate search based upon the criteria entered.

The page shares some of the screen controls between both functions, primarily the Candidate Filter section and Match Criteria section. It should be noted that the 'count' button does not apply directly to the manual process as it is used to determine the size of the candidate list for the automated search. The Candidate Filter includes some new search fields which were not previously found in the Find Duplicates screen, the new fields are 'Surname To', 'Forename', 'DOB To', 'Practice' and 'Sex'. Consequentially the Match Criteria check boxes have been increased to cater for the new search fields.

An example of the manual search is shown below. Note the search results are shown on the page with check boxes to allow records to be selected for manual merging

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#### 7.3.2 Creating an Automated Search

The Required steps in setting up an Automated Search:

- 1. A satisfactory set of conditions in the Candidate Filter We use the Candidate Filter section first to search for either a distinct patient or a group of patients.
- 2. The count is deemed to be of a manageable size The 'Count' button searches for all patients matching the entered criteria in the database.
- 3. The appropriate Matching Criteria are selected

The Match Criteria are used to look for specific matching fields in the database.

4. Give the combination of Candidate Filter and Match Criteria a Name/Description and click the 'Save This Search' button.

#### 7.3.3 Scheduling an Automated Search

A saved named search is a pre-requisite for scheduling a search. The search is selected from the drop down list and the 'Schedule Search' button is clicked.

🖉 Manage Duplicates - Windows Internet Explorer				
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Home Find Patient Find Result Find Document Find or	CHI		Patient ID:	Go
Configuration Exceptions Mgmt	Security Maintenance	Reporting Genera		
Home > Manage Duplicates			User: adm	in on PJSSCI6
Manage Duplicates				
Candidate Filter	Match Criteria			
Surname black To	Surname			
Forename	Middle Names		Save This Search	
СНІ	CHI black	~	Schedule Search	
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Practice	Postcode			
	Source			
Configure Merge Maintenance Plan Schedule Frequency Once V				
Run Date 27/08/2008				
Time 10:09				
Exit Submit				
<				>
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The date and time can be modified before submission. When the submit button is clicked the number of candidates are checked against the system setting 'AutoMergeMaxCandidates' which holds the preferred maximum candidate list size, the default is set to 50.

A warning message is displayed when the candidate list size exceeds the system setting to ensure that the user is aware of the size of the candidate list in light of the recommendations and considerations sections.

Micros	oft Internet Explorer 🛛 🔀
?	There are more candidates selected than the system recommendation, are you sure you want to continue?
	OK Cancel

The automated search uses the patients from the Candidate Filter – these patients become the candidate list. The automated search runs each patient from the candidate list against the database with the selected Match criteria

#### 7.3.4 Working with Scheduled Searches

The scheduled searches can be setup to run at any date and time in the present or future, once the search is saved it can be maintained from the new screen 'MPAmendMerges' which is accessed by clicking the 'Manage Merges' button.

The initial state of this screen shows no records, prompting the user to search against either the search name, dates or batch ID. The user can leave all fields blank and click the 'Click Here To Search' link button to bring back all the records.

The scheduled searches can not be accessed until the scheduled job has actually ran as shown in the screen shot below, note the description and action links within the grid table are greyed out.

C Amend Merges - Windows Internet Explo	orer							
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Configuration	Exceptions Mgmt	Security	Maintenance	Reporting (	General	Notificatio		
Home > Manage Duplicates > Amend Merges Previous Searches							User: adr	nin on PJSSCI6
Description Start Date	End Date	Batch ID						
Click Here To Search Clear Search	h Navigate Manage	Merges Page						
2 record(s) found								
Description	Candidates Start Processed Date			End Dat		Action	Report	
black		008 10:15				merge		
black 1	27/08/2	008 10:12				merge		
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Each automated search is setup as a scheduled Maintenance Plan Item. The searches can be amended and deleted from the Store Maintenance Plan before the scheduled item has run.

🖉 Store Ma	intenance Plan	- Windows Interne	et Explorer							
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		Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications		
Home > Sto	re Maintenance	Plan							User: admin	on PJSSCI6
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Plan ID	Plan Name	Status	Frequency	Run Time						
1	Automated Merge Submission	ENABLED	Once							
2	Automated Merge Submission	ENABLED	Once							

The Store Services which run the Interfaces/Services also run any Maintenance Plan items. This will automatically run the scheduled searches at the date and time specified. Scheduled searches which have been run will become enabled

When the Maintenance Plan item runs it generates an individual query for each member of the candidate list, each set of results is then analysed to establish the parent.

As the job runs it whittles down the candidate list, removing candidates from the search who have already been returned as duplicates.

Previous Searches	5						
Description		Start Date	End Date Batch	ID			
L Click Here To Search	]	Clear Search	Navigate Manage Merg	ges Page			
4 record(s) found							
Description	Count	Candidates Processed	Start Date	End Date	Batch ID	Action	Report
All men	37	37	14/11/2006 11:38	14/11/2006 11:38		merge	
Everyone	37	37	14/11/2006 11:38	14/11/2006 11:38		merge	
All women	35	35	14/11/2006 11:38	14/11/2006 11:38		merge	

Clicking on the Description will allow the results of the automated search to be displayed.

Previous Searches											
Description		Start Date	End	Date B	atch ID						
Click Here To Search		Clear Search	Navi	igate Manage	Merges Pa	ige					
4 record(s) found											
Description	Count	Candidates Processed	Sta Dat			End Date		B	atch D	Action	Report
All men	37	37	14/3	11/2006 11:3	8	14/11/2	2006 11:38			merge	
Everyone	37	37	14/:	11/2006 11:3	8	14/11/2	2006 11:38			merge	
All women	35	35	14/:	11/2006 11:3	8	14/11/2	2006 11:38			merge	
All men	37	37	14/3	11/2006 11:3	8	14/11/2	2006 11:38			merge	
1		e									
3 candidate record(	s) found	for All men							Actior	I : MERGE	
Identified Merge Group	Ide	ntified Merge Children		Descrij	ption	l	Merge	Mast	er	Sav	e Changes
Jimmy Black	2			John Brown				0			
John Brown	2			Alan Brown				•			
Mand Field	2										
1											

The remaining candidates are shown on the left hand side with a count of the number of children identified. Clicking on the child count shows the patients on the right hand side.

The user can check the details of each patient by hovering over the right hand side patients name and viewing the tooltip.

The option to merge a record is exercised by checking the check box. The parent record is highlighted by the selected radio button. A parent record always forms part of the merge and so does not require a check box; the user can change the selected parent if required.

The user must click the 'Save Changes' button to ensure that all changes are saved.

## 7.4 Performing the Merge/Unmerge

Each automated search can be merged and unmerged only once, the results can be viewed via the Audit Report.

A merge reason must be provided when the merge or unmerge action has been selected.

A valid reason must be provided in order for this action to proceed			
These records are to be merged together		Click here to continue	
	~	Click here to cancel	

The record is now updated providing a 'View' link button and the 'unmerge' action which basically acts as the undo.

Description		Candidates Processed			Batch ID	Action	Report
All men	37	37	14/11/2006 11:38	14/11/2006 11:38	1	unmerge	view

The report contains all the required information on the merge and looks as follows:

Automatic Merg	e Report			
Туре:	Automatic Merge 🛛 🔽	From Patient	To Patient	Processed Message
Merge User: Search	admin	Alison Black	Jimmy Black	Successful Merge
Description:	All men	John Brown	Alan Brown	Successful Merge
Batch Number:	1	MANDATORY FIELD	Mand Field	Successful Merge
Start Date:	14/11/2006 16:11:47			1
End Date:	14/11/2006 16:11:52			
Total Processed:	3			
Successfully Processed:	3			
Unsuccessfully Processed:	0			
Preview	Exit			

## 7.5 Find Merges

Accessed from the Maintenance menu, the Find Merges menu allows the user to search for merged records in SCI Store. If any are found, then multiple records can be unmerged from a single parent record.

Enter the search criteria and click Search.

	Image: Second and seco	ntMerges/FindPatientMerges.aspx		
SCI Store Paisley My Settings About Store Log Out   ome find Patient Find Result Find Document Find on CHI Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications me > Find Merges carch for Clear Clear Goingtobe Master Address Search Clear Goingtobe Master Address St Glasgow M 12/12/1934 View Y renames equals equals equals equals equals equals exercision F class equals exercision exercision equals exercision exercision equals exercision exercision exercision exercision exercision exercision exercision exercision exercision equals exercision	My Setting: Mout Store         Y Setting: My Setting: Mout Store         Y Setting: Find Result       Find Document       Find on CHI       Patient ID:         Configuration       Exceptions Mgm Security Maintenance       Reporting General Notifications         Ome > Find Merges       User: admin         carch for       CHI       Name       Middlename(s)       Address St Giasgow       N 12/12/1934       View         Search Clear       Middlename(s)       Address St Giasgow       M 12/12/1934       View         ontension       Search Clear       Address St Giasgow       M 12/12/1934       View         ontension       Search Clear       Address St Giasgow       M 12/12/1934       View         ontension       Search Clear       Address St Giasgow       M 12/12/1934       View         ontension       Search Clear       Address St Giasgow       M 12/12/1934       View         Search Clear       View <th co<="" th=""><th></th><th></th></th>	<th></th> <th></th>		
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To unmerge a patient, click on the appropriate patient. This will display the following screen:

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SCI Sto	re Paisley					My Settings	About Store	Log Out
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	Configuration	Exceptions Mgmt	Security Mair	ntenance Reporting	General	Notification		
me > Find Mer	ges > Patient Merge						User: admin (	on PJSSCI
urrent Patie	nt							
tient Name	Goingtobe Master	CHI Family Name Secondary	Given Name Willbe	Middle Names		Date of Birth 23/01/1967	Unmerge	
II Ite of Birth	10/10/1004	Cascaded	HasToBe			11/01/1961		
d/mm/yyyy)	12/12/1934	Cascadeu	Hastube		F	11/01/1901		
dress	456 Great Perm Address St							
	Glasgow							
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-	TORRY							
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nsultant	KRUGER, RALPH							
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Exit								
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								>

When the Unmerge box is checked the **Proceed with Unmerge** button will be displayed, clicking on this button will result in the two patient records being unmerged and returned to the state they were in prior to the original merge.

Clicking on the **Merge Audit** button will display the following screen:

Patient Merge	e - Windows Internet Exp	lorer					
互 • 🥥	http://localhost/StoreWeb/Res	tricted/Patien	tMerges/PatientMerges.as	px?Mode=ToMinus&PatientID	=9 🖌 🛃	Google	P
<u>File E</u> dit <u>V</u> iev	v F <u>a</u> vorites <u>T</u> ools <u>H</u> elp						
🍾 🎄 🌈 Pati	ent Merge				🟠 • 🖻 - 🖷	🔹 🔂 Page 👻 🍈 Tools 👻 🔞	- 🛞 🐟 🛍
r SCI Sto	re Paisley					My Settings About Store	E Log Out
lome Find P	atient Find Result F	ind Docume	nt Find on CHI			Patient ID:	Go
	Configuration	Excep	tions Mgmt Secu	rity Maintenance	Reporting General	Notifications	
ome > Find Mer inter Friendly	ges > Patient Merge					User: adm	in on PJSSCI6
urrent Patie	nt	lless		Detirest Name	D	Towned Time	
atient Name HI	Goingtobe Master	User system	Type External Merge	Patient Name Willbe Secondary	Reason Compas Merge	Event Time 26/08/2008 01:51:22	
te of Birth d/mm/yyyy)	12/12/1934						
ldress	456 Great Perm Address St Glasgow						
st Code g. GP	ABBAS, AHMED						
Practice	TORRY NEIGHBOURHOOD CENTRE						
onsultant ard/Location	KRUGER, RALPH						
Exit	Proceed with Unmerge						
							>
							/

The Merge Audit screen displays an audit trail of merge/unmerge transactions for the patient chosen.

Clicking on the **Preview** button will allow the user to print off a copy of the Merge Audit details for a patient.

### 7.6 Flagging Duplicate Patients

General end-users can flag duplicate patients via the Find Patient screen; to do this they must have the **Flag Duplicate Patients** module permission.

The number of patients allowed to be flagged as duplicates is defined by the **MaximumDuplicatePatients** system setting, the default of which is 5. A lower and upper range between 2 and 10 exists. This system setting can be controlled by the SCI Store administrator.

Further information on Flagging Duplicate Patients can be found in the SCI Store – End User Guide.doc

### 7.7 Find Duplicate Patient Requests

Accessed from the Maintenance menu, the Find Duplicate Patient Requests page allows an administrator to search for duplicate patient requests that have been submitted by end users. An administrator must have the **Search Duplicate Patient Requests** module permission to access this screen.

When first loaded the following defaults are applied to the search criteria (these are highlighted by point 1 of the following diagram):

- Request Date: Date range covering the last 30 days.
- Request Status: Defaults to Outstanding

The default search criteria can be amended.

To perform a search, enter at minimum the mandatory search criteria and click the Search button.

To view additional details relating to the request click on any row in the search results (point 2 in the diagram below) to be directed to the **Duplicate Patient Request Details** page.

🧭 Find Duplicate Patient Requests - Windows	Internet Explorer					
😋 💽 👻 🙋 http://localhost/StoreWeb/Restricted	/PatientDuplicates/FindDuplicatePatientRed	quest.aspx			Google	<b>م</b>
Elle Edit View Fgvorites Iools Help Google		🔕 • 🏠 Bookmarks • 🛛 🍣 Check • 🔒 1	iranslate 🔹 🎦	AutoFill + 🌽	🗿 • 🔊 -	🔦 🔹 🔵 Sign In
SCI Store Paisley					My Settings	About Store Log Out
	ocument Find Treatment Log Configuration Exceptions I	Mgmt Security Maintenance	Reporting	General Notificatio		nt ID: Go
Home > Find Duplicate Patient Requests						User: admin on PJSSCI6
Search Options Search Clear	5 Records Returned					
Request Date From* 26/10/2009 V	Requested by	Number of Duplicates		Date of Reques	it ≜	Request Status
Request Date To* 25/11/2009	admin	3		19/11/2009		Outstanding
Request Status Outstanding	admin	4		21/11/2009		Outstanding
	admin	3	_	22/11/2009		Outstanding
Username	admin	2		24/11/2009		Outstanding
	admin	2	2	25/11/2009		Outstanding

Some rules are applied to the Request Date search criteria:

- Date range cannot be greater than 365 days.
- Dates cannot be greater than today's date.
- If dates span a date range that is greater than 30 days a warning message will be displayed informing the user that Wide-Ranging Search Criteria has been specified which may have adverse effects on the system. The user can opt to continue with the search by clicking on OK. Clicking on Cancel will end the search. The following diagram shows the warning message.

are about to run a search with wide-ranging search criteria. Running earch could have an adverse effect on system performance. Do you wish to continue?
OK Cancel

If the rules above are broken or mandatory fields are not completed, an error message will be displayed as shown below.

Find Duplicate Patient Requests - Windows Internet Explorer			╶╺╸
🚱 🕞 👻 🖉 http://localhost/StoreWeb/Restricted/PatientDuplicates/FindDuplicatePatientRequest.aspx 👱 4	47 🗙 Google		<u>م</u>
Ele Edit Yew Favorites Iools Help Google 🗸 🖓 Search - 🖗 🔊 - 🏈 🍁 🔉 Bookmarks - 🍄 Check - 🗟 Translate - 🍗 AutoFill - 🌽		Z	• 🔵 Sign In •
👷 🏟 😥 🗸 🏉 Find Duplicate Patient Re X 🍘 Security Exception	🗿 • 🔊 -	🖶 🔹 🔂 <u>P</u> age	• 💮 T <u>o</u> ols •
SCI Store Paisley	My Settings	About Store	Log Out
Home Find Patient Find Result Find Document Find Treatment Log	Pati	ent ID:	Go
Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications Home > Find Duplicate Patient Requests Mandatory fields are identified by (*). You must supply a value for these fields.		User: admin	on PJSSCI6
Search Options Search Clear			
Request Date From* 02/09/2009 V Request Date To* V Request Status Outstanding V			
Username			

### 7.7.1 Duplicate Patient Request Details

Full details of a duplicate patient request can be viewed by selecting an entry returned from the Find Duplicate Requests search results screen. This will redirect the user to the Duplicate Patient Request Details page.

The details page is broken into three sections:

- Request Details (point 1, diagram below): Overview of the request
- Completion Details (point 2, diagram below): Current status of the request.
- Duplicate Patients (point 3, diagram below): Lists of patients flagged as duplicates for a particular request.

upucate Patient Kequ	est Details - Windows Interr	iet explorer			
💽 🗸 🙋 http://locali	nost/StoreWeb/Restricted/PatientD	uplicates/MergeRequestDetails.as	px?ClassIdx=	1 💌	Google
<u>E</u> dit <u>V</u> iew F <u>a</u> vorites ogle	Iools Help	iearch • • 🧔 • 🥥 💠 - 🖇	🔊 • 🏠 Bo	okmarks = 🛛 🍣 Check 🔹 🚂 Translate 🔹 🧏 AutoFill 🔹 🌽	ي • 🔘 د
🕸 😁 🕶 🏉 Duplicat	e Patient Reques 🗙 🌈 Secur	ty Exception			🗿 🔹 🔝 🔹 🖶 🔹 🔂 Page 🔹 🎯 To
SCI Store Pais	sley				My Settings About Store Log (
ne Find Patient	Find Result Find Document	Find Treatment Log			Patient ID:
	Config	uration Exceptions M	gmt Se	curity Maintenance Reporting General Notifications	
e > Find Duplicate Pati	ent Requests > Duplicate Patie	ent Request Details			User: admin on PJSS
	←(5)				Actions Select Action 🗸
equest Details equested By adn	nin Request D	ate 22/11/2009 14:13:44	Reques	t Reason These are the same patient	6 Printer Friendly Process
mpletion Details (2	)				
quest Status Outs	standing Actioned I	By N/A	Date	Actioned N/A Actioned Comments	
plicate Patients (3	)				
СНІ	Name	DOB	Sex	Address	Postcode
9429464529	James Test	09/01/1965	м	54 Maryhill Road Maryhill Glasgow Scotland	G 389ZW
9181194645	James Test	09/01/1954	М	55 Maryhill Road Maryhill Glasgow Scotland (4)	G 389ZW
		09/01/1954	м	56 Marvhill Road Marvhill Glasgow Scotland	G 389ZW

Clicking on any row in the Duplicate Patients section will redirect users to the Patient Details screen for the selected patient (point 4, in the diagram above).

From this screen a user can update the status of a request either by clicking on the science icon on the toolbar (point 5, in the diagram above) or by selecting the Process action from the toolbar (point 6, in the diagram above). Only users that have been granted the module permission **Process Duplicate Patient Requests** will be able to perform these actions. By selecting to **Process** a request a pop up box as depicted in the diagram below will appear.

в	Update Req	uest Status	×	re.
'19 '19	Mandatory f	ields are ident fo	ified by (*). You must supply a value r these fields.	
19	Status Comments*	Rejected V Completed Rejected	Process	

- A Status of Completed or Rejected must be selected.
- If a Status of Rejected is selected, the Comments field must be completed. If a comment is not completed an error message will be displayed.
- To update the status of the request click on the Process button.
- To cancel the update of the request click on the 🖾 icon in the popup box.

# 8 Store Maintenance plan

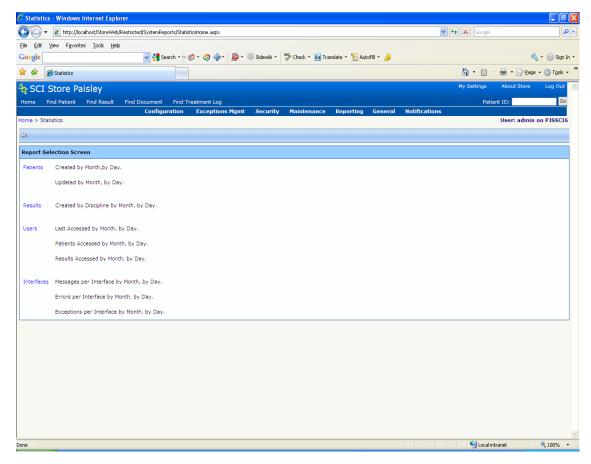
Accessed from the Maintenance menu, the Store Maintenance menu provides the functionality for administrators to automate the maintenance of the components that together provide the results reporting for the end user.

For further information, see:

- Exceptions Management Overview
- SCI Store Store Maintenance Administration Guide

# 9 Statistics

As the name suggests, the Statistics screen provides a range of statistics with regards to Patient records, Test Results, User accounts and Interfaces. To access this screen, select **Statistics** from the **Reporting** menu, the following screen will then be displayed:



From here a full list of the available statistics is displayed. At present these are:

- Patients created/updated by month or by day
- Results created by discipline by month or by day
- Access details of users (when last accessed, numbers of patients/results accessed) by month or by day
- Interface details (no of messages, errors and exceptions per interface) by month or by day

In order to access the required set of statistics, click on the appropriate link.

🖉 Patient Statistics - Windows Internet Explorer		
COC + @ http://localhost/StoreWeb/Restricted/SystemReports/PatientStatistics.aspx	🖌 🗲 🗙 Google	ρ.
Eile Edit View Favorites Iools Help		
Google Search + 🛷 + 🖉 + 🖉 Sidewiki + 🎋 Check + 🏭 Translate + 🦹 AutoFill + 🌽		🖏 🔹 🔵 Sign In 🔹
😭 🏟 🌈 Patient Statistics	🟠 • 🔊 ·	🖶 🔹 🔂 Page 🔹 🎯 Tools 🔹 🎇
SCI Store Paisley	My Settings	About Store Log Out
Home Find Patient Find Result Find Document Find Treatment Log	Patien	t ID: Go
Configuration Exceptions Mgmt Security Maintenance Reporting General Notification Home > Statistics > Patient Statistics	s	User: admin on PJSSCI6
		osen damin on rissiero
Patient Statistics Screen		
Selection Criteria           Start. Date *         10/11/2009           End Date *         10/12/2009		
Start Date " 10/11/2009 Cind Date " 10/12/2009 Cind Date " 10/12/2009		
Report Format		
Grouping Day Y Transaction Type Created V		
Search Clear		
Done	Scal intr	anet 🔍 100% 🔹 🖉

From here, enter the appropriate criteria and click **Search**. The required statistics will then be displayed on screen.

## **10** Patient Information Status Maintenance

The Patient Information Status Update option is found on the Maintenance menu and allows the user to search for patients and update the status of Ids, Names, Telecoms and Result Reports associated with them.

This functionality was introduced to allow administrators to delete or hide information against a patient that may have been added erroneously, e.g. a wrong patient identifier.

Users will initially be able to set the information to have a status of one of the f values below. Each value has a related flag that determines if information set to that status will be actively used in patient matching and also visible in the front end.

Status	Active for matching
Active	Active
Retired	Active
Deleted	Inactive

The values above are data driven and more values can be added manually. Please contact the SCI Store Support team for information on how to add more Status values

## **10.1 Patient Information Status Update search**

Enter the search criteria and click Search.

🖉 Find Patient Iden	rtifiers - Windo	ws Interne	t Explorer									
🕒 🗸 🖉 http	://localhost/StoreW	Veb/Restricted	d/Patient/FindPatientIde	ntifiers.aspx?Reload=1					*	😽 🗙 Google		P
File Edit View Far	vorites Tools H	Help										
🔶 🎄 🌈 Find Pati	ient Identifiers									🔂 • 🔊	🔹 🖶 🔹 🔂 Page	🔹 🌍 Tools 👻
SCI Store	Paisley									My Settings	About Store	Log Out
Home Find Patier	nt Find Resul	lt Find D	ocument Find or	СНІ						Pat	tient ID:	Go
			Configuration	Exceptions Mgmt	Security	Maintenance	Reportin	g General	Notifications			
Home > Find Patient I	Identifiers										User: admin	on PJSSCI6
Search Options	Search	Clear	2 Records Returne	d								
Surname equals	v black		CHI	Name		DOB	Sex			Address		
Surname equals	Y black		CHI 7830135222	Name Alison Black		DOB 21/10/1952	Sex F	1 Garnock Pla	ce Kilbirnie Ayrshin			
Surname equals	<ul> <li>✓ black</li> <li>✓</li> </ul>								ce Kilbirnie Ayrshin ast Road Smalltown	e Scotland		
			7830135222	Alison Black		21/10/1952	F			e Scotland		

To display the Update Information Status page, click on the appropriate patient.

## **10.2 Update Information Status**

The Update Information Status page shows the basic patient demographics, along with a tabbed list of the relevant patient information.

		stricted/Patient/RemoveP			<b>N</b> 🔁 <b>N</b>				Q
		istr 📙 Orange 🏉	Log in Facebook	Convert C# to VB.N					
Update Information Stat							1 🖶 🔹 <u>P</u> age 🔹		-
SCI Store Pa	aisley							About Store	Log(
ome Find Patient	Find Result F		d Treatment Log		Reporting	General	Patient ID: Notifications		G
me > Patient Informa			-	Maintenance	keporting	General		ser: admin on	PJSS
a									
Patient Name Dave Edwards Name Changed	CHI 0504567713	Date Of Birth 05/04/1956	Age 55 HOID	GP DA, ELLEN U	GP Practice	ITRE	Consultant	Ward/Locat	
1 Record Returned									
ID Value ID S	cheme ID Type	Last Encountered	Current Sta	tus Edit Status					
CC/989315545 NHS	Personal	02/03/2012 10:52:4	9 Active	Edit Status					

#### 10.2.1 Identifiers

The IDs tab displays a list of patient identifiers associated to the selected patient and all patients merged to that patient.

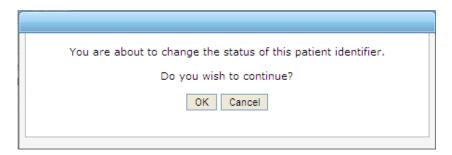
The current CHI number of the patient is not displayed and so cannot be updated. If a patient has been merged the CHI numbers of the secondary patients in the merge will be displayed and can have their status changed.

To edit the status of an ID, click on the **Edit Status** link on the desired row. A popup will be displayed that will display details of the selected ID and a drop down allowing the status to be changes.

IDs that have previously been set to an inactive status cannot have their status changed. In these cases the **Edit Status** link will be disabled

			Set Status: 📔	ease Select 💌 🛛 Go
PatientID				
ID Value	ID Scheme	ID Type	Last Encountered	Current Status
CC/989315545	NHS	Personal	02/03/2012 10:52:49	Active

A dialogue will be displayed to confirm the status change.



An ID that is set to an "inactive" will no longer be visible against the patient in the front end and will also not be used during the patient **matching** process.

If a new/updated record is fed in to Store containing that ID, a new entry will be created for the ID, with the original remaining with its existing status.

**NB** If secondary CHI is set to an "Inactive" status it will be removed from the basic demographics of the secondary patient. If the patients are subsequently unmerged then the chi will not be restored as the secondary patients CHI number

#### 10.2.2 Names

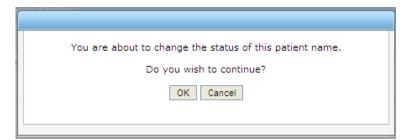
The Names tab displays a list of all previous and attached names associated to the selected patient and the patients merged to it.

Similar to the IDs, names that have previously been set to an inactive status will be visible but cannot have their status changed. To change the status of a name, click the **Edit Status** link on the relevant row.

A popup will be displayed that will contain details of the selected Name and a drop down allowing the status to be changed.

Edit Nan	ie Status			X
			Set Sta	atus: Please Select 💙 Go
Name Title		<b>me</b> Edwords	Last Encountered 05/03/2012 17:24:49	Current Status Active

A dialogue popup will be displayed to confirm the status change.



A Name that is set to an "inactive" will no longer be visible against the patient in the front end and will also not be used during the patient **matching** process.

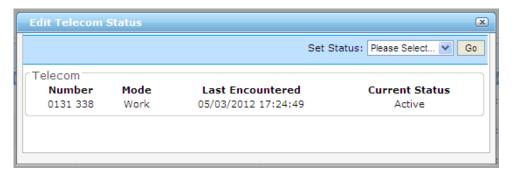
If a new/updated record is fed in to Store containing that Name, a new entry will be created for the Name, with the original remaining with its existing status

#### 10.2.3 Telecoms

The Telecoms tab displays a list of all Telecoms associated to the selected patient and the patients merged to it.

Similar to the IDs, Telecoms that have previously been set to an inactive status will be visible but cannot have their status changed. To change the status of a Telecom, click the **Edit Status** link on the relevant row.

A popup will be displayed that will contain details of the selected Telecom and a drop down allowing the status to be changed.



A dialogue popup will be displayed to confirm the status change.

If a new/updated record is fed in to Store containing that Telecom, a new entry will be created for the Telecom, with the original remaining with its existing status.

#### 10.2.4 Result Reports

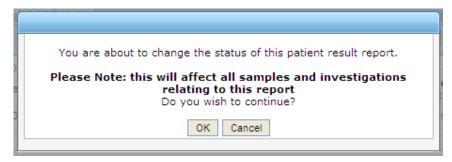
The Results tab displays a list of all Result Reports associated with the selected patient and the patients merged to it.

Similar to the above, Results that have previously been set to an inactive status will be visible but cannot have their status changed. To change the status of a Result, click the **Edit Status** link on the relevant row.

A popup will be displayed that will contain details of the selected Result Report and a drop down allowing the status to be changed.

Edit Report Stat	us		Set Sta	tus: Please Sele	ct 💌 😡
Report Report ID	Discipline	Sample	Investigation	Date Reported	Current Status
H03,08058012.G	WGH Haematology	Blood Film	BLOOD FILM & BLOOD CULTURE	13/02/2007 14:45:00	Active

Changing the status of a result report will affect all investigations attached to that report. A warning is given in the confirmation dialogue.



Result reports behave slightly differently to the demographics above when an update is fed in after the status of a result report has been changed.

The status of the result report will be **re-set** back to the original "Active" value and an entry will automatically be entered into the status audit table.

### **10.3 Notification Events**

Updating the status of Patient Information will result in Notification Events being raised.

In all cases a Patient Event will be raised. Within this patient event, the Patient Process Events field will contain information relating to the status update. The Patient Process Events will hold information of the updated ID, Name or Telecom, including the new status.

In the case of a Result Report status update, the Patient Process Events field will contain the relevant Report Identifier and Store ID, along with the new Status. Result Notification events will also be created for the affected result report.

# 11 eBlz Audit

The eBiz Audit option provides the functionality to re-send XML messages to the appropriate eBiz queue. So for example, if a record comes into SCI Store from the COMPAS system but for whatever reason does not make it into the correct eBiz queue, this screen facilitates the re-sending of this message to eBiz.

🏉 EB	iz Aud	lit - Window	s Internet Exp	lorer										
G	Ð-	🖉 http://lo	calhost/StoreWeb	/Restricted/SystemRep	orts/Demo	gFeedToEbizSearch.asp×					~	fy X Google	F	P -
Ele	Edit	View Favorit	es <u>⊺</u> ools <u>H</u> el;											
Goo	gle			👻 🔧 Se	arch 🔹 🕂 🦿	🔊 • 🥥 🕂 • 🛛 🔊 •	💭 Sidewiki 🔹	🍄 Check 🔹 🔒 Tra	nslate 🔹 🣔 Aut	oFill + 🌛			🖏 🔹 🔵 Sign :	In •
*	۶ 🖉	🚰 EBiz Audit										👌 • 🔊 - 🖷	a 🔹 🔂 Page 🔹 🍈 Tools	• "
50 5	SCI S	Store Pa	isley									My Settings A	bout Store Log Out	^
Hom	e F	ind Patient	Find Result	Find Document		eatment Log						Patient I	D: G0	
	> EBiz	- Audit		Configu	ration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications		ser: admin on PJSSCI6	
	> 001/	z Auun										0	ser: admin on PJSSCI	•
\$														
EBiz	: Audit	t Report												
Mes	sage T	ype												
Peri	od Sta	rt *		10/11/2009	~									
Peri	od End	*		10/12/2009	*									
Pati	ent For	rename												
Pati	ent Su	rname												
Se	arch	Send To EBiz	Clear											
														-

To re-send a message to eBiz, enter the appropriate search criteria and click **Search**.

When the results have been returned, clicking the **SendToEBiz** button will resend these messages to the appropriate eBiz queue.

This functionality is only available if the System Setting 'PersisteBiz' has been created as described in section 3.1.

# 12 Orphan Doc. Cleanup

If a document is processed unsuccessfully, the XML file that contains the metadata is processed but the document itself is not and as a result is left in the document folder. The **Orphan Doc. Cleanup** screen provides the mechanism to delete these documents so that the document folder can be maintained.

For further information see the DocumentToDatabase user guide.

# 13 Cumulative reporting

# 13.1 Cumulative system settings

See Administration Section ### (3.1) for the steps required to implement the system settings.

There are 9 system settings for cumulative reporting:

'CumulativeDefaultOrderDesc'	The requested default OrderBy is sample date Descending. If this requires to be changed to Ascending then set this to FALSE.
'CumulativeDefaultView'	Legitimate values are either 'Dates on X-axis' or 'Dates on Y-axis'. 'Dates on Y-axis' shows dates down the vertical axis and results along the horizontal axis. 'Dates on X-axis' shows results down the vertical axis and dates along the horizontal axis.
'CumulativeReportDays'	This represents the number of days back from todays date to be searched against. Search range is inclusive of 'From' and 'To' dates
'CumulativeDiscoveredDates'	The setting 'CumulativeReportDays' will restrict the results against a date range. Setting 'CumulativeDiscoveredDates' to 'TRUE' will automatically populate the dates from the earliest found to the most recent, this is particularly useful when testing the cumulative reporting functionality.
'CumulativeNoOfColumns'	This represents the number of columns displayed horizontally across the page.
'CumulativeNoOfRows'	This represents the number of rows displayed vertically down the page.
'CumulativeTextLength'	This represents the length of a text result within the report grid, anything less than or equal to the length is displayed in the grid - anything greater than the value is represented by a notepad icon with a link to the results. <b>N.B. Not Table results</b>

'CumulativeShowDescription'	The data grid will default the column / row headers with Codes, setting this to TRUE will populate the description instead.
'CumulativeRestrictedDate'	This setting represents the earliest date that can be used in the cumulative search criteria. During setup of the page the 'From' and 'To' date fields will have their minimum value set to the value of this setting. If the date in this setting is later than the dates calculated by the 'CumulativeReportDays' or 'CumulativeDiscoveredDates' then the date field will be populated with the date set in the 'CumulativeRestrictedDate' setting.

## 13.2 Setting up a Cumulative Grouping

A Cumulative Grouping will be used when filtering and grouping records to be viewed via the Cumulative Report screen.

Cumulative Groupings are accessed via:

### General

 $\Rightarrow$  Cumulative Sources menu

🥙 Cumulative Sources - Windows Internet Explorer	
S + Attp://localhost/StoreWeb/Restricted/Admin/ManageSources.aspx	Scogle
Ele Edit View Favorites Iools Help	
Google Search + 🛷 - Ø 🖶 Sidewiki + 🦃 Check + 👪 Translate + 📔 AutoFill + 🌽	🖏 🔹 🔵 Sign In 🝷
🔆 🏟 🌈 Cumulative Sources	🏠 🔹 🔝 👘 🖶 🔹 📴 Bage 🕶 🎯 Tools 🔹
SCI Store Paisley	My Settings About Store Log Out
Home Find Patient Find Result Find Document Find Treatment Log	Patient ID: Go
Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications Home > Cumulative Sources	User: admin on PJSSCI6
	User: admin on PJSSC16
\$	
Create New Cumulative Group	
Cumulative Grouping Name Add New	
Maintain Cumulative Sources	
Cumulative Grouping Name         Date Created         Created By           iLab-XML40 Group         09/12/2009 21:44:40         admin         Edit Delete	
1	

Enter an appropriate Cumulative Grouping Name in the text box which reflects the intended use of the new grouping.

Click the **Add New** button, the screen will be refreshed and the new Cumulative Source added to the grid.

On the far right of the new row there are options to either 'Edit' or 'Delete' the selected Cumulative Source.

### 13.2.1 'Edit'

'Edit' will expose the Cumulative Source in a text box for edit, the far right of the row will now contain 'Update' and 'Cancel' options.

🖉 Cumulative Sources - Windows Internet Explorer				- 8 🛛
S + Ittp://localhost/StoreWeb/Restricted/Admin/ManageSources.aspx		~	fy 🗙 Google	P •
Ele Edit View Favorites Iools Help				
Google 🔽 😵 🖓 🖓 🖓 🖓 🖓	Sidewiki * 🐐 Check * 🚑 Translate *	📔 AutoFill 👻 🌽		🔦 🔹 🔵 Sign In 🔹
😭 🏟 🌈 Cumulative Sources			💧 • 🔊 - 🖶 • 🗗	age • 🎯 T <u>o</u> ols • »
န္ SCI Store Paisley			My Settings About Stor	e Log Out 🔥
Home Find Patient Find Result Find Document Find Treatment Log			Patient ID:	Go
Configuration Exceptions Mgmt	Security Maintenance Report	rting General Notifications		
Home > Cumulative Sources			User: adn	nin on PJSSCI6
<b>\$</b>				
14				
Create New Cumulative Group				
Cumulative Grouping Name Add New				
Maintain Cumulative Sources				
Cumulative Grouping Name Date	Created Created By			
	09 21:44:40 admin Edit	Delete		
Test Group 10/12/20	09 16:12:38 admin Update	Cancel		
1				

### 13.2.2 'Delete'

Delete will prompt the user to confirm or cancel the requested choice.



### **13.3 Maintaining a Cumulative Source**

Click on the Cumulative Grouping Name to show the 'Maintain Group' for the selected Group

SCI SI	tore Pa	isley									My Settings	About Store	Log Ou
		Find Result	Find Docum	ient Find T	reatment Log						Patie	ent ID:	G
			Cor	nfiguration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications			
me > Cumu	ulative Sour	ces										User: admin	on PJSSC
There are	e currently	no interface	s defined a	ainst group	Test Group								
	c currenti,	ino interruce	J denned u	junist group									
									_				
aintain In	iterfaces												
roup: Test (	Group												
roopr root .	oroup	Interfa	ce		Date	Created	Cr	eated By					
		Internet			Butt	urcated	0.	Satur by					
Add New	Please sele	ct an interface	*										
	Please sele	ct an interface											
	ApexTransi												
	CHI_Broadc CHI_InitiaTra	astTranslator											
	COMPAST												
	ECSTransla												
	HomerTrans	slator											
	iLabTransla												
	MasterlabTr												
	MedipathTra												
	MISYSTrans												
	NashMaster	rlabTranslator											
	TelepathTra												
	XML40Trans												
	XMI 60Trans												
	XMLTransla	ter											

Select an item from the drop down list which has the default value 'Please select an Interface ...'

The drop down list will be populated with all the Services \ Interfaces set up against the SCI Store e.g. 'Telepath' or 'Masterlab'.

Select an Interface and click the 'Add New' button, the interface is now associated with the Group.

St SC	I Store Pa	aisley									My Settings	About Store	Log Out
Home	Find Patient	Find Result	Find Document	Find Tr	reatment Log						Patie	nt ID:	Go
			Config	uration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications			
Home >	Cumulative Sou	irces										User: admin	on PJSSCI
C Sour	ce TelepathTr	anslator adde	d to the Test Gr	oup									
<b>(</b> 2													
1													
									_				
Mainta	in Interfaces												
Group:	Test Group												
		Interfac	e		Date Cr	eated	Create	i By					
Telepa	thTranslator				10/12/2009 16:34:1	0	admin	Dele	te				
1													
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Many similar interfaces can be added to a group. The interfaces added can be deleted if required.

#### 13.3.1 'Delete'

Delete will prompt the user to confirm or cancel the requested choice.

Click 🖙 Exit button to return to the 'Maintain Cumulative Sources' screen.

## **13.4 Cumulative Report Profile Templates**

Cumulative Reporting can now be run using Report Profile Templates to filter the results to show only specific Result Sets (e.g. FBC, Lipids). See section 3.20 for details on how to configure Report Profile Templates.

## **13.5 Granting Cumulative Permissions**

Security is present for Cumulative Sources, Cumulative Reporting and Cumulative Report Templates separately.

These are controlled by the module permissions 'General Admin' from the Administration category, and 'Cumulative Report' and 'Cumulative Report Profile Templates' from the Results Category.

See section # (formerly 3.4.4.) for details on how to configure a users' Module *Permissions*.

# 14 Automatic CHI Lookup

The Automatic CHI Lookup functionality relates to individual interfaces. When a file containing patient demographics is transferred into Store a search for the patient details on CHI will be triggered. If a match for the incoming patient demographics is found on the National CHI Database, the CHI demographics will be saved to Store.

## 14.1 System Settings & CHI Admin Configuration

To enable Automatic CHI Lookup for an interface the following configuration is required:

- **CHICertificatPath** This system setting sets the default filepath location of the SSL certificate required to access the CHI web services.
- **CHIWebServiceURL** This system setting sets the default URL for the CHI web services.
- **CHI Admin Configuration** define and configure the connection to the National CHI database via the CHI Admin Screen (see Section 3.3 for details).

### 14.1.1 Amend Service Definition Screen

SCI Store	Paisley								My Settings	About Store	Log Ou
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Match Patient	Greater Glasgow Match	CHI Demo	ographics? 🗌 Enforce	CHI Demogra	aphics Match						

The **CHI Demographics** checkbox must be ticked as displayed on the screen above.

When this checkbox is ticked the **Enforce CHI Demographics Match** checkbox is displayed.

If the **Enforce CHI Demographics Match** checkbox is ticked and the patient matching rule being applied involves a CHI Search, then the patient demographics will only be saved to Store if a successful match on CHI is found for the incoming patient details. If no match is found on CHI an exception will be raised.

If the **Enforce CHI Demographics Match** checkbox is unchecked, then the incoming patient demographics will be saved to Store regardless of whether a match is found on CHI or not.

Amend Matching Rules - Windows Internet Explorer		
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Amend Matching Rules	🙆 • 🔊 ·	🖶 🔹 🔂 Page 🔹 🎯 Tools 🔹
SCI Store Paisley	My Settings	About Store Log Out
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Configuration Exceptions Mgmt Security Maintenance Reporting General Notification	5	
Home > Local Patient Matching > Amend Matching Rules		User: admin on PJSSCI6
D This patient match rule has already been used and cannot be amended.		
¢		
Patient Match Group		
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Surname C Add Alias		
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Forename Match C No Action		
First Initial No Match		
Date of Birth Match Y		
Sex No Match		
Address No Match		
Postcode No Match 💌		
Source System No Match		
CHI Demographics No Match		
🔽 Use 'X's as Mandatory field indicator checkbox. 🗌 Populate missing CHI numbers from web service?		
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#### 14.1.2 Interface Patient Match Rules Screen

The patient matching rules applied here relate to finding a match for the incoming patient details with an existing patient on SCI Store.

The **C/D** (CHI Demographics) setting should be enabled for each individual patient matching rule that is required to search the CHI to find the patient demographics.

If the **Populate missing CHI numbers** checkbox is ticked, then any file **not** containing a CHI number will automatically perform a CHI Search for whichever patient matching rule is matched.

If a CHI match is found for the patient, all the demographics on Store for the patient will be updated (not just the CHI number).

CHI Patient Matching - Windows Internet Explorer C 🖌 🔶 🗙 Google 0 Eile Edit View Favorites Tools Help Google 🔽 🔧 Search 🔹 🧭 🛪 🥥 📲 🛛 🧟 🔹 🤍 Sidewiki 🔹 🍄 Check 🔹 🌆 Translate 🔹 📔 AutoFill 🗉 🌽 🔩 🔹 🔵 Sign In 🤊 😭 🕸 🏾 🏀 CHI Patient Matching 🟠 🔹 🔝 🕤 🖶 🔹 🔂 Page 🗸 🙆 Tools 🗸 SCI Store Paisley Home Find Patient Find Result Find Document Find Treatment I Patient ID: Go ent Log ome > CHI Patient Matching User: admin on PJSSCI6 ¢= 🛃 🚽 Patient Match Algorithm Name CHI\_test Amend Patient Match Algorithm Patient Match Criteria |CHI|Sur|For|Ini|Dob|Sex|Add|Pcd | X | - | - | X | X | - | | X | X | - | X | X | X | X | Δdd Match \* CHI Number Remove Match ¥ Surname Forename No Match 👻 First Initial No Match ¥ Match 💙 Date of Birth Match v Sex No Match Address Postcode No Match \* 🧐 Local intranet 🔍 100% 🛛 🕶

### 14.1.3 CHI Patient Match Rules Screen

When an interface uses Automatic CHI Lookup, a CHI matching rule must also be assigned.

The patient matching rules applied on this screen relate to finding a match for the incoming patient details with an existing patient on the CHI. These matching rules are used to populate the search criteria used by the CHI's patient search functionality to find a match.

The CHI's patient search functionality will not always return an exact match in relation to the search criteria applied therefore a further check is made within Store to ensure that the patient returned is an exact match.

If an exact match is found, the CHI demographics will be saved to Store as the current demographics for this patient. The demographics on the incoming file will also be saved as historical demographics for this patient.

If no exact match is found, and the **Enforce CHI Demographics Match** rule is switched **on** for this interface, a CHI Match error will be raised and **no** demographics will be saved to Store.

If the CHI demographics fail to match against any of these rules and **Enforce CHI Demographics Match** is switched **off** for this interface, **no** CHI Match error is raised. The demographics on the incoming file will be saved to Store.

### 14.1.4 Redundant CHI Numbers

If the Automatic CHI Lookup facility is invoked by a patient matching rule and the incoming file contains patient details that include a redundant CHI number the following logic will apply:

- If a match on CHI is found, the current CHI number will be returned
- If the invoked SCI Store matching rule matches on CHI Number it will use the current CHI number
- Both current and redundant will be stored as IDs against the patient in SCI Store

# **15 Anonymous Patients**

There is a requirement within SCI Store to be able to receive, display and output Anonymous Patients. Only designated users will have the ability to view these patients once they are in SCI Store.

## **15.1 Receiving Anonymous Patients**

Before a SCI Store can receive Anonymous Patients an Anonymous Translator must be setup (see section 2.1.3.3 TranslatorFromDatabase Service for setting up translators). This translator will contain any matching rules etc specific to anonymous patients. On the **Amend Interface** screen setup the Service Type, Name, Polling Interval and Batch Size as required. As shown below the **Status** radio button must be set to **Off.** Select the relevant Match Patient rule (currently anonymous patients only match on CRN.)

🥙 Amend Interface - Windows Internet Explorer	
So + D http://localhost/StoreWeb/Restricted/Services/ServicesAmend.aspx?ServiceId=308Reload=1	Google
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SCI Store Paisley	My Settings About Store Log Out
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Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications Home > Maintain Interfaces > Amend Interface	User: admin on PJSSCI6
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Amend Service Definition	
Service ID 30	
Service Type TranslatorFromDatabase 🗸	
Service Name * NashMasteriabTranslator	
Polling Interval  10	
Batch Size * 100	
Status C On © Off	
Match Patient CRI Value only CHI Demographics?	

Once this screen has been setup open the **Amend Translator From Database** screen by clicking on the Configure button. The source system for this anonymous translator should match the source system of the translator it will be used with. The identify anonymous checkbox **must** remain unchecked on the anonymous translator.

The anonymous translator should be associated with an existing translator that has already been setup. For example if a Translator has previously been setup to handle Masterlab files, this translator can be updated to additionally handle Anonymous Patients via Masterlab files.

To allow an existing translator to handle Anonymous Patients open the relevant translator and open the **Amend Translator From Database** screen as shown below.

🖉 Amend Translator - Windows Inter	net Explorer		- 7 ×
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Home > Maintain Interfaces > Amend In	iterface > Amend Translator		User: admin on PJSSCI6
🌣 🛃 🗸			Actions Select Action 💙 Go
Amend Translator From Database	Service Definition		
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Source System	MasterLab V		
Select File to Database Service *	c1GGTESTMasteriab\FullFiles		
Interface Type	Results ○ Demographics ○ ECS		
Seeded Record			
Reject Invalid Postcodes			
Update Registered GP	Update Practice		
Update Consultant	Update Ward		
Update Hospital			
Identify Anonymous	Anonymous Translator * NashMasteriabTranslator 😪		
Enable for Demographic Feeds			
ID Format Group			
Demographic Parsing Date			
Result Parsing Date	v		
Schemes And Mappings			
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The identify anonymous checkbox should be checked which will display an Anonymous Translator dropdown list. The relevant anonymous translator should be selected from the list. Click on Save to save these changes.

Once this has been setup the system is ready for receiving anonymous patients.

### 15.2 Displaying Anonymous Patients

To allow Anonymous Patients to be displayed within a system the System Setting **ShowAnonymous** must be set to True. By default this is set to False. See section 3.1 for more information on System Settings.

Once this system setting has been set; users with the **ViewAnonymous** module permission will be able to search for Anonymous Patients via the Find Patient screen using the Advanced Search Criteria (see user guide for more information.) Unless both the System Setting and Module permission have been set to True and Allow respectively no anonymous patients can be searched on via the Find Patient screen. (See section 3.4.3 for more information on Module Permissions.) No results associated to an anonymous patient will be returned via the Find Result screen.

Note: If the System Setting is set to False and the Module Permissions is set to Allow users will **not** be able to search on Anonymous Patients via the Find Patient screen as the System Setting will override the Module Permission.

## 15.3 Requesting Anonymous Patients

To allow web service users to get anonymous patients the user account must have the module permission **View Anonymous Patients** set to **Allow**.

Please note the value of the **ShowAnonymous** system setting has no effect on Web Services.

To request anonymous patients through Notification Services web service users should create a result subscription to receive notifications from the relevant Requesting Organisation (Location). The process for subscribing to Notification Services is described in the Store Notification Services User Guide.doc.

For web service users accessing Anonymous Patients via 4.1 Web Services the following rules will apply:

- FindPatient will include an IncludeAnonymousPatients flag. Where this is set to "True" and the web service user has been given permissions to view anonymous patients then both anonymous and non-anonymous patients will be returned.
- GetPatient will return results for anonymous patients if the Module Permission is set to Allow. A SOAP Exception will be returned if Module Permissions is set to Restrict.
- FindResult will return results where the Module Permission is set to Allow and the IncludeAnonymousPatients flag is set to "True".
- GetResult will return results for anonymous patients if the Module Permission is set to Allow. A SOAP Exception will be returned if Module Permissions is set to Restrict.

For web service users accessing Anonymous Patients via 2.3 Web Services the following rules will apply:

- FindPatient and FindResult, will not return Anonymous Patients
- GetPatient will raise a SOAP Exception if a request is made for an Anonymous Patient.
- GetResult will return results if the Module Permission is set to Allow. A SOAP Exception will be returned if Module Permissions is set to Restrict.

# **16 Notification Services**

SCI Store Notification Services allows web service users to register an interest in Patients, Results or Treatment Logs and be informed of any changes which meet these interests. The functionality is split into two distinct functional areas.

• **Subscription Management**. Manages subscriptions to Patients, Results and Treatment Logs. These subscriptions detail interest criteria e.g. a user can show an interest in all Patients with a particular Consultant, or a user can register an interest in all Treatment Log entries from a particular site.

Patient and Result subscriptions are added by the user via Web Services, or by an administrator in the front end, depending on the users' Subscription Maintenance Mode. The Treatment Log subscriptions can only be added by an administrator user in the front end.

• Notifications. Notifications inform user when an event, which matches the users subscriptions, occurs in SCI Store. These Notifications are stored in a database table, for later pick up by the user via Web Services.

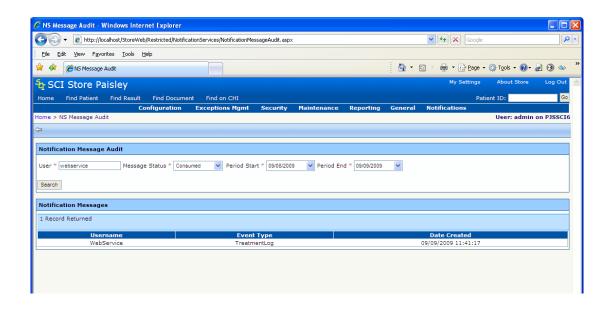
The events that SCI Store creates notifications for are

- $\Rightarrow$  Patient Demographics added/edited in SCI Store
- ⇒ Patient Merge/Unmerge
- $\Rightarrow$  Patient consent change
- $\Rightarrow$  Test Report added/edited in SCI Store
- $\Rightarrow$  Treatment Log added/edited in SCI Store

To monitor Notifications and Subscriptions through the SCI Store Web Frontend users should click on the **Notifications** admin menu. Four options will be displayed; these are described in more detail below.

### 16.1 NS Message Audit

- $\Rightarrow$  Enter a valid Subscriber Name in the username box,
- $\Rightarrow$  Select either Outstanding or Consumed from the **Message Status** dropdown list.
- $\Rightarrow$  Select Period Start and Period End dates
- $\Rightarrow$  Click on the Search button
- $\Rightarrow$  A list of either Outstanding or Consumed notification messages will be displayed, depending on the option selected.



## 16.2 Treatment Log Subscription Search

The Treatment Log Notification functionality was added to version 6.0 to allow users to receive notifications of new and updated Treatment Logs. The responsibility of setting up Treatment Log Subscriptions is covered by an admin user in the front end.

An administrator will only be able to add, amend and delete subscriptions for users who have their Subscription Maintenance Mode setting set to "Maintain in Front End"

To use the Treatment Log Subscription search follow the steps below

- $\Rightarrow$  Select a User from the User Name drop down
  - $\Rightarrow$  This drop down displays only Web Service users
- $\Rightarrow$  Click on the Search button
- $\Rightarrow$  A list of current subscriptions for a particular user will be displayed.

C Treatment Log Subscription Search - Win	dows Internet Explore	:r			
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3 Records Returned					
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### 16.2.1 Add Treatment Log Subscription

Treatment Log Subscriptions are added from the Treatment Log Subscription Search page, which is found in the Notifications admin menu.

To create a new Treatment Log Subscription

- Select the user from the User drop down
- If the user Subscription Maintenance Mode = "Maintain in Front End" the + button will be displayed
- Click the 🛨 in the toolbar to navigate to the Add Treatment Log

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page

- From here users can configure Treatment Log Subscriptions with at least one of the following criteria
  - Site (e.g. Hospital, GP Practice)
  - Specialty (e.g. Cardiology, General Medicine)
  - Patient Type (Inpatient, Outpatient or Day Case)
- To select a Site
  - Type a key-word in the Site field and click search
  - A list of possible matches will be displayed
  - Select a site by double clicking on it

Add/Amend Treatment Log Subscription - Microsoft Inte	ernet Explorer	
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Home > NS Subscription Manager > Add/Amend Treatment Lo	g subscription	User: admin on PJSSC16
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- User Info Username WebService	[90115] NORTH UIST MEDICAL PRACTICE - THE SURGERY LOCHMADDY ISLE (90134) SOUTH UIST MEDICAL PRACTICE - DALBIURGH ISLE OF SOUTH UIST (VM0038) South UIst Medical Practice - Dalburgh Locholosidale Isle of South UI (VM08H) UIst & Berra Hospital - Baltvanich Isle of Benhecula (90168) UIST AND BARRA HOSPITAL - ISLE OF BENBECULA	Base Location Local Store
Add/Amend Subscription		
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• When the criteria are selected, click the 🖬 icon to save the subscription. This will return to the list of Treatment Log subscriptions and display a message if the save was successful.

C Treatment Log Subscription Search - Wind	lows Internet Explore	er										
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Treatment Log Subscriptions												
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			Daycase		11 17:09:46		admin	Delete				
	General Medicin		Outpatient		11 17:09:39		admin	Delete				
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Users are then able to **Amend** an existing subscription by clicking a row in the returned grid. This will navigate back to the Add/Amend Subscription page with the current values populating the drop down lists and search boxes.

Users are also able to **Delete** subscriptions by clicking the Delete link in the grid. The user will always be asked for confirmation of the delete.

Microsoft Internet Explorer									
?	Are you sure you want to delete this subscription?								
	OK Cancel								

NB Again the amend and delete functions are only available if the selected user has their Subscription Maintenance Mode set to "Maintain in Front End"

#### 16.2.2 Generating Treatment Log Events

To ensure that Treatment Log events are generated the following system settings must be configured

- NSEnableEventGeneration True
- NSGenerateTreatmentLogEvents True

Treatment Log Events will then be generated for every Treatment Log file that is fed in to SCI Store. If there are any Treatment Log Subscriptions that

match the Treatment Log Event details a notification will be created for that User and sent to the Notification table. From there the user can pick it up via the Get Notifications Web Service.

In the case of an update to an existing Treatment Log, two events will be created – one for the Treatment Log as it was before the update and one as it is after the update. This is to ensure that users still get a notification when the Treatment Log changes from what the user has originally subscribed to. This should allow them to update their system/records accordingly.

### **16.3 Patient Subscription Search**

The Patient Subscription Search page allows an administrative user to search, add, amend and delete Patient Subscriptions.

An administrator will only be able to add, amend and delete subscriptions for users who have their Subscription Maintenance Mode setting set to "Maintain in Front End"

To use the Patient Subscription search follow the steps below

- $\Rightarrow$  Select a User from the User Name drop down
  - $\Rightarrow\,$  This drop down displays only Web Service users
- $\Rightarrow$  Select the Subscription Type
- $\Rightarrow$  Enter criteria as required
  - $\Rightarrow$  Only criteria that is part of the selected Subscription Type will be enabled
- $\Rightarrow$  Click on the Search button
- $\Rightarrow$  A list of current subscriptions for the selected criteria will be displayed.

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#### 16.3.1 Add Patient Subscription

Patient Subscriptions are added from the Patient Subscription Search page, which is found in the Notifications admin menu.

To create a new Patient Subscription

- Select the user from the User drop down
- If the user Subscription Maintenance Mode = "Maintain in Front End" the + button will be displayed
- Click the + in the toolbar to navigate to the Add Patient Subscription page
- From here users can configure Patient Subscriptions as one of the following types
  - All Patients (creates a "global" subscription)
  - o CHI
  - PatientID
  - o GP Practice
  - o Consultant
  - $\circ$  Ward
  - o CHI and GP Practice

Add/Amend Patient Subscription - Windows	Internet Explorer				
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Tisali	Treatment Log Test user	Tisall@atos.com	1	Local Store	
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Please Select					
All Patients CHI					
Patient ID GP Practice					
Consultant Ward					
CHI & GP Practice					
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- On selecting one of the subscription types, further criteria controls will be displayed e.g
  - o Textbox to enter CHI or Patient ID
  - Search box to search for the desired GP Practice, Consultant or Ward
- When the criteria has been entered, click the 🖬 icon to save the subscription. This will return to the list of Patient subscriptions and display a message if the save was successful.

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Home Find	l Patient	Find Result	t Find D	ocument Find Tre	atment Log						Patient ID:	Go
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Username *	Tisall	~		Subscription ID	Patient ID	Name	CHI	GP Practice	Consultant	Ward	Date Created	Delete
Subscription	СНІ	*		1 2			1234567890 1122334455				20/09/2011 17:19:54 20/09/2011 17:20:05	Delete
Type * Patient ID			1	3			9876543210				20/09/2011 17:31:30	Delete
CHI			]									
GPPractice			1									
			Search									
Consultant			Search									
Ward		5	Search									
<												>
Done									S	Local intra	anet 🦛 🔹	🔍 100% 🔹 🔡

Users are then able to **Amend** an existing subscription by clicking a row in the returned grid. This will navigate back to the Add/Amend Subscription page with the current values populating the drop down lists and search boxes.

Users are also able to **Delete** subscriptions by clicking the Delete link in the grid. The user will always be asked for confirmation of the delete.

Microsoft Internet Explorer					
?	Are you sure you want to delete this subscription?				
	OK Cancel				

NB Again the amend and delete functions are only available if the selected user has their Subscription Maintenance Mode set to "Maintain in Front End"

# 16.4 Result Subscription Search

The Result Subscription Search page allows an administrative user to search, add, amend and delete Result Subscriptions.

An administrator will only be able to add, amend and delete subscriptions for users who have their Subscription Maintenance Mode setting set to "Maintain in Front End"

To use the Result Subscription search follow the steps below

- $\Rightarrow$  Select a User from the User Name drop down
  - $\Rightarrow$  This drop down displays only Web Service users
- $\Rightarrow$  Select the Subscription Type
- $\Rightarrow$  Enter criteria as required
  - $\Rightarrow$  Only criteria that is part of the selected Subscription Type will be enabled
- $\Rightarrow$  Click on the Search button
- $\Rightarrow$  A list of current subscriptions for the selected criteria will be displayed.

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me > Result	Subscription 9	Search								User: admin o	on PJSSCI
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Jsername *	Tisall	~	Subscription ID	Patient ID	Name	Investigation	Discipline	Requesting HCP	Requesting Org	Date Created	Delete
Subscription Type *	Investigation	~	1			FBC				20/09/2011 17:43:26	Delete
Patient ID			2			Full Blood Count (FBC)				20/09/2011 17:43:38	Delete
nvestigation		Search	3			LIPIDS				20/09/2011 17:43:53	Delete
Discipline Requesting											
HCP Requesting		Search									
Requesting Organisation		Search									

#### 16.4.1 Add Result Subscription

Result Subscriptions are added from the Result Subscription Search page, which is found in the Notifications admin menu.

To create a new Result Subscription

- Select the user from the User drop down
- If the user Subscription Maintenance Mode = "Maintain in Front End" the + button will be displayed
- Click the in the toolbar to navigate to the Add Result Subscription page
- From here users can configure Result Subscriptions as one of the following types
  - All Results (creates a "global" subscription)
  - o PatientID
  - o Discipline
  - o Investigation
  - o Requesting HCP
  - Requesting Organisation

Add/Amend Result Subscription - Windows In	iternet Explorer			
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SCI Store Paisley			My Settings About Store Log	Out 🔥
Home Find Patient Find Result Find Doc	ument Find Treatment Log		Patient ID:	Go
Configuration Home > Result Subscription Search > Add/Amend	Exceptions Mgmt Security	Maintenance Reporting General	Notifications User: admin on PJS	5016
	Result Subscription		User: admin on PJS:	5010
User Info Username	Friendly Name	Email	Base Location	
Tisali	Treatment Log Test user	Tlsall@atos.com	Local Store	
Add/Amend Subscription				
Subscription Type All Results				
All Results Patient ID				
Discipline				
Requesting HCP Requesting Organisation				
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- On selecting one of the subscription types, further criteria controls will be displayed e.g
  - Textbox to enter Patient ID
  - o Drop down list to select discipline
  - Search box to search for the desired Requesting HCP or Organisation
- When the criteria has been entered, click the 🖬 icon to save the subscription. This will return to the list of Result subscriptions and display a message if the save was successful.

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Delete

Users are then able to **Amend** an existing subscription by clicking a row in the returned grid. This will navigate back to the Add/Amend Subscription page with the current values populating the drop down lists and search boxes.

Users are also able to **Delete** subscriptions by clicking the Delete link in the grid. The user will always be asked for confirmation of the delete.

Microso	ft Internet Explorer 🛛 🔀
?	Are you sure you want to delete this subscription?
	OK Cancel

NB Again the amend and delete functions are only available if the selected user has their Subscription Maintenance Mode set to "Maintain in Front End"

# 17 Messaging Services

SCI Store has traditionally supported the Scottish XML standard as endorsed by the IOWG for interfacing with externals systems. This standard format was promoted as the solution for connected systems that would provide a common mechanism for interoperability for key clinical datasets. The one disadvantage with this standard was that each system had to write bespoke interfaces based on the NHS Scotland XML Standard when they already had interfaces supporting the HL7 format.

Over the years more and more clinical systems began to support HL7 2.x format out of the box. These systems do not have the ability to develop new interfaces and in reality some require a set of standard data that is readily available in HL7 format. There are potential cost savings to be made by providing native support for HL7 on some clinical data sets.

The messaging services were created to allow communication via other non web service means and formats (tcpip, ftp and non xml i.e. HL7).

SCI Store has two generic messaging services that are designed to control the sending and receiving of different system to system messages. Installation of these services is via individual msi files contained within a release. The detail on the functionality and configuration is contained in separate sections below.

- a) SCI Store Message Delivery Service
- b) SCI Store Message Recipient Service

### **HL7 Demographics Segment Definition**

The delivery and recipient services can deliver HL7 formatted demographics via both services. Detailed below are the segment definitions for the demographic fields that will be contained in the HL7 messages.

# **PID Segment**

### Patient Identifier List (PID3)

The PID 3 segment will contain a list of patient identifiers from SCI Store (0, 1 or many):

The format of the NHS and CHI are as follows: <number>^^NHS^NH <number>^^CHI^NH

All numbers shall have the assigning authority and the type identified.

### NOTE:

- If two CHI numbers exist for a patient then the master CHI will be the first CHI in the list.
- The setting IncludeStorePatientIdentifier will be used to decide whether to include the internal Store identifier as part of the patient identifiers list.

### Patient Name(PID5)

The PID 5 segment will contain the current patient name only

PID-5 will contain the Patient Surname PID-5.2 will contain the Patient Forename PID-5.3 will contain the Patient Middle Name PID-5.7 will contain a Name Type value of "L"

### Patient Date of Birth(PID7)

The PID 7 segment will contain the date of birth in "YYYYMMDD" format

### Patient Sex(PID8)

The PID 8 segment will contain the Patient Sex value, this will be either:

M - Male F - Female U - Unknown

### Patient Address Segment(PID11)

The PID 11 segment contains the current patient address only.

PID-11 will contain Address Line 1 PID-11.2 will contain Address Line 2 PID-11.3 will contain Address Line 3 PID-11.4 will contain Address Line 4 PID-11.5 will contain the Postcode

The patient address values in SCI Store are held as address lines with no specific address information being held in a specific line. Therefore the Patient Address Street or City values could potentially exist in any of the Address Line values.

### Patient Home Telecoms Segment(PID13)

The PID 13 segment will contain a list of patient home telecoms info.

PID-13 will contain the home telephone number (e.g. Area Code & Telephone Number)

The patient telecom information held in SCI Store may or may not contain a Telecom Mode value that identifies the type of number (e.g. Home, Business). For the purposes of this interface, PID-13 will contain a list of all telephone numbers that do **not** have a Telecom Mode value of "Business".

### Patient Business Telecoms Segment(PID14)

The PID 14 segment will contain a list of patient business telecoms info.

PID-14 will contain the business telephone number (e.g. Area Code & Telephone Number)

\*\* The patient telecom information held in SCI Store may or may not contain a Telecom Mode value that identifies the type of number (e.g. Home, Business). For the purposes of this interface, PID-14 will contain a list of all telephone numbers that have a Telecom Mode value of "Business".

### **Other PID Segments**

For the purposes of this interface, all other PID Segments will be blank.

### **PV1 Segment**

For the purposes of this interface a Patient Visit (PV1) segment will be populated.

The PV1-2 'Patient Class' field will contain a value of 'N' for not applicable.

The PV1-8 'Referring Doctor' field will exist with a blank value.

# 17.1 Message Delivery Service

### Overview

The delivery agent service is a standalone application that runs as a windows service on an installed server that has.net framework 2 present. The purpose of this application is to deliver system to system messages to a set of defined channels configured in the app.config.

Currently supported message types for this service is HL7 demographics messages. Messages are generated using SCI Store notification services. SCI Store web services will be used to retrieve information from Store and deliver to a remote system. If a notification is available for the system then the service will construct the message to deliver. The delivery agent acts as a tcpip sockets client sending HL7 messages to an HL7 tcpip listener. Each channel will delivery up to a max number of items within a particular delivery attempt.

Note: A future release may integrate this utility into Store for better exception management. At this time all errors will be logged to the Store event log.

# Note: WS 8.1 is required as a prerequisite for the delivery service to work for HL7 messages

### **Delivery Agent Configuration Elements**

The following elements will be defined for the windows service.

There are two types of elements to configure

- a) Application wide configuration: These elements are define for the deliver agent as a whole and are configured only once.
- b) Delivery Channels: One set of configuration elements will be defined per delivery channel.

### Validation

The configuration elements will be checked during service start-up. If not correct then the service will fail to start with an error in the event log that signifies what failure occurred. On a new installation this is usually config errors.

Item	Details			
Application Configuration Elements				
Defined once for the installation of the delivery agent.				
These elements will be checked during service start-up.				
If not present then the service will stop with an error in the event log				
Web Service URL	Veb Service URL StoreWebServiceURL			
	URL of SCI Store web services (one instance)			
HL7 Delivery	SendingApplication ("SCIStore")			
System Details	SendingFacility ("GoldenJ")			

Retry Settings	RetryIntervals				
	These settings will be a collection of retry periods. These settings are used during the delivery process to control the timeframe between attempting to deliver to a channel (in minutes). It is expected that when a channel is down then we don't want to continually try and send to the channel all the time. These settings allow us to gradually increase the time between retry attempts. When the channel is available then the retry is set back to default.				
	<retryintervals></retryintervals>				
	<interval id="1" minutes="1"></interval>				
	<interval id="2" minutes="2"></interval>				
	<interval id="3" minutes="5"></interval>				
	<interval id="4" minutes="10"></interval>				
	<interval id="5" minutes="30"></interval>				
	<interval id="6" minutes="60"> </interval>				
	fault 60)				
	(Note: while six period have been detailed here, there should not be any practical limit)				
<b>Delivery Channels</b>					
A delivery channel v deliver to.	will be defined for each system that the delivery agent will				
All are mandatory.					
Windows service st	art-up will load and check each item prior to processing.				
If not present or inc event log.	orrect format then the service will stop with an error in the				
ChannelKey	ChannelKey				
	Each channel requires Unique name defined across all the channels configured.				
Channel Type	<b>ChannelType</b> (Channel Type . Currently HL7V2 only supported)				
Receiving System	ReceivingApplication ("Aware")				

	ReceivingFacility ("GoldenJ")
Message Format	MessageFormatVersion
inocougo i onnat	Will be used in conjunction with the ChannelType to determine individual aspects to deliver. HL7 can be 2.1,2.2,2.3,2.3.1,2.4,2.5,2.5.1 or 2.6
	(Since the application will deliver only HL7 we can use this to detail HL7 version in the messages being delivered directly)
WEB Service Account details	Login details for web service access
	StoreLoginUserID
	StoreLoginPassword
	StoreUser Credentials
	RemoteSystem code
	RemoteName
	RemoteUserID
Tcip Delivery	Destination Host
Channel	Destination Port
	Timeout: Timeout of how long to wait before we decide that the host is unavailable or not listening.
Message Limit	MessageLimit:
	(Default=30, 0 = all available)
	This will define the number of message to send in a given delivery attempt.
Delivery Gap	ChannelDeliveryGap
	(default to 30)
	This will be the gap between channel delivery attempts in seconds
Include Store	IncludeStorePatientIdentifier
Patient Identifier	True/False (Default false)
	This setting will decide whether Store identifiers are included as part of the patient identifier list.

	1
	When sending some message type(s) some systems may not have the facility to match on patient information and therefore require a central identifier to match. In this case we can provide the store identifier as the central id for matching.
Following are HL7	Specific settings
HL7 Message	HL7Startframe = \x0b
Framing	HL7Containing = MSH
	HL7EndFrame = \x1c\x0d
HL7 Message format	Following are in quotes. The quote is not part of the value
	HL7SegmentTerminator = "\x0d"
	(Valid
	$\langle cr \rangle = \langle x0d,$
	<cr> $<$ lf> = $x0dx0a$
	<lf>=\x0a</lf>
	)
	HL7FieldSeperator= \x7c (" ")
	HL7ComponentSeperator= \x5e ("^")
	HL7RepetitionSeperator= \x7e ("~")
	HL7EscapeSeperator= \x5c ("\")
	HL7SubComponentSeperator = \x26 ("&")
HL7 Details	SupportedHL7Events:
	Default (A04)
	Certain systems only support specific HL7 event types. This section will be used to decide what event to deliver to a specific destination.
	This element will be a collection of Events that the channel want delivered to it. If not in this collection then it will not be delivered. This allows us in this release to deliver A04 for systems that only support the update but do not support other event types.
HL7 Ack Mode	HL7AckMode
	Commit

Application
Never
(default Commit)

### Process to deliver HL7 demographics to Aware

The following steps will define the process for delivery of notification to a remote HL7 server.

As a pre-requisite for this process it is assumed that Store has been configured with a valid web user that is receiving the correct notifications, the protocols defined with the remote system have been agreed and setup within the channel configuration.

The peek feature of WS 8.1 is used in the notification retrieval to maintain the notification during failure to deliver a message to the remote system.

- 1. For each channel access the notifications web method for patient notifications using the peek mechanism and check if any notifications for the user.
- If a notification exists for the channel then we need to generate a suitable HL7 message for delivery. (Use shared code from HL7 query service). Note: We will only generate the message if it is configured for that channel.
- 3. Deliver message to remote channel.
- 4. If delivery is a success (ACK Accept = AA or CA in acknowledgement message) then we remove the notification from the queue by performing another getNotification without the peek.
- 5. If delivery NOT a success due to ACK Error or ACK Reject then we will log the error to the event log remove the notification from the queue by performing another getNotification without the peek.
- 6. If delivery NOT a success due to channel unavailable then we will cycle to the next channel as per delivery logic below.

### **Delivery Logic**

The delivery application does not run at 100% capacity all the time. The service controls how often a channel attempts a delivery and how to handle the situation when the channel is unavailable. To control the delivery attempts there are two elements are used. Each channel configuration has an element that defines a gap between delivery attempts (seconds) for a channel(**ChannelDeliveryGap**).

Additionally there is a collection of minutes between channel unavailability attempts based on the retry attempt number(**RetryIntervals**). The minutes between attempts will typically increase as each attempt fails.

The outgoing interface from Store will cycle round each channel and attempt to deliver messages(max configured).

When a delivery cycle has been completed the next delivery time will be calculated by taking the current time and adding then channel delivery gap time.

There are certain conditions that will affect the delivery process

- Server for a channel is unavailable to transmit message
- Store Web Services are unavailable

### Server for a channel is unavailable to transmit message

During a delivery attempt, if the channel is unavailable then the channel delivery attempt is aborted. In this situation the number of attempts to deliver to that channel will be preserved internally. The next attempt delivery time for the channel will be calculated by getting the gap for the designated delivery attempt and adding this to the current time to determine the next delivery attempt time. These setting are mainlined in memory only. When the service is started delivery attempt will revert to zero.

No notification messages will be lost during this situation.

### Store Web Services are unavailable

During a delivery attempt, if Store Services are unavailable then the channel delivery attempt is aborted. In this situation no more attempts will be made to deliver messages. The unavailability of the services will be logged. The deliver agent will wait in 5 minute intervals before checking services. When services are available again a message will be logged to that effect and channel delivery will continue as normal. The configuration element "Store services availability attempts" will be used to determine how many checks are made before the service is aborted.

No notification messages will be lost during this situation.

## **HL7 Message Content**

### **Supported HL7 Message Events**

The following HL7 messages can be generated from a notification

• A04 – Register patient

Examples of all these messages type(s) are included in an appendix of this document. These are directly equivalent to the standard event type generated during a patient notification event type

### A04 – Register Patient

Patient details in the format of an HL7 A04 will be generated and send to the delivery channel for standard demographics changes.

Detailed below are the patient demographic fields that will be contained in the Patient Identifier Segment (PID) of the A04 message.

MSHMessage HeaderPIDPatient IdentificationPV1Patient Visit

# 17.2 Message Recipient Service

### Overview

The recipient agent fulfils 2 purposes

- a) Receive incoming messages
- b) Process HL7 Query messages

### **Recipient Agent Configuration Elements**

The following elements will be defined for the windows service.

There are two types of elements to configure

- a) Application wide configuration: These elements are define for the recipient agent as a whole and are configured only once.
- b) Recipient Channels: One set of configuration elements will be defined per recipient channel.

### Validation

The configuration elements will be checked during service start-up. If not correct then the service will fail to start with an error in the event log that signifies what failure occurred.

Item	Details				
Application Configuration Elements					
Defined once for the installation of the delivery agent. All elements are mandatory and require a value unless otherwise specified.					
Web Service URL	StoreWebServiceURL:				
	URL of SCI Store web services V8.1 (one instance)				
Tcip Socket Details	RemotelP :				
	Host to listen on				
	RemotePort:				
	Port to listen on				
	ReceiveTimeout:				
	This is the timeout (seconds) for a message failure if the end of frame has not been received within a specified timeout				
HL7 Recipient	ReceivingApplication ("SCIStore")				
System Details	ReceivingFacility ("GoldenJ")				

HL7 Message	StartFrameProtocol = \x0b
Framing	ContainingProtocol = MSH
	EndFrameProtocol = \x1c\x0d
Recipient Channel	S
A recipient channel receive messages fr	will be defined for each system that the recipient agent will rom.
ChannelKey	ChannelKey
	Each channel requires Unique name defined across all the channels configured.
Channel Type	<b>ChannelType</b> (Channel Type . Currently HL7V2 only supported)
Channel Details	SendingApplication ("Aware")
	SendingFacility ("GoldenJ")
	The values for Sending Application and Sending Facility must be unique within the list of channels (the application and facility could appear multiple times but not together in different channels).
	It will be possible to define a channel with either a blank Sending Application or a blank Sending Facility. While this is allowed this should be used with caution and is only included to backwardly support existing functionality.
WEB Service Account details	Login details for web service access
	StoreLoginUserID
	StoreLoginPassword
	StoreUser Credentials
	RemoteSystem code
	RemoteName
L	1

	RemoteUserID
HL7 Ack Mode	HL7AckMode
	Commit
	Application
	Never
	Note: The receiving systems does not currently support MSH segment definition (field 15 and 16 for acknowledgement)
File delivery	FileDeliveryLocation
location	Path to deliver messages to when the messages are determined as incoming messages (i.e. non HL7 query messages)

### Process to receive HL7 messages

The following steps will define the process for receipt of messages from a remote HL7 client.

As a pre-requisite for this process it is assumed that Store has been configured with a valid web user that has access to correct information (i.e. Demographics for HL7 via HL7 query request) The protocols defined with the remote system have been agreed and setup within the channel configuration. Any errors will be included in the response to the sending application as per standard acknowledgement processing below.

- 1. Accept incoming message and process until end of frame received.
- 2. Parse message to determine HL7 message type.
- 3. If not a valid message type (first line basic check) returns a reject response message.
- 4. If message type is a query message type A19 in MSH-9 (QRY^A19) then process this as per standard HL7 query service. This will respond with a QRY response.
- 5. If message type is an ACK message in MSH-9 (e.g. ACK^A04) then do nothing.
- If valid HL7 message and not query message then we assume it's an incoming file for delivery. In this case we should place the incoming message in the designated directory with a suitable unique filename. (Note: if an error occurs during this process then an Error ACK will be generated with a suitable error text)
- 7. If all OK return ACK success message

### Acknowledgement message

For all situations except the QRY response we will response with an acknowledge message based on the ack mode for the channel.

Acknowledgment messages contain the following HL7 interface segments: NOTE: Single characters responses are not supported at this time.

#### MSH — Message header segment MSA — Message acknowledgment segment

The MSH segment in the response is constructed anew following standard message rules. The following rules apply.

- MSH-7-date/time of message and MSH-10-message controlID refer to the response message; they are not echoes of the fields in the initial message.
- MSH-5-receiving application, MSH6-receiving facility and MSH-11 processing ID contain codes that are copied from MSH-3-sending application, MSH-4 sending facility and MSH11-processing ID in the initiating message.
- MSH-9-MessageType ^TriggerEventStandard protocol is to respons with MessageType "ACK" and the TriggerEvent from the originating message. So an message being received with MSH-9 of ADT^A04 will be acknowledged with ACK^A04

In all the responses described above, the following values are put in the MSA segment

Field	Notes
MSA-1-acknowledgment code	As described below.
MSA-2-message control ID	MSH-10-message control ID from MSH segment of incoming message.
MSA-4-expected sequence number	N/A
ERR segment fields	See examples

The receiving application then passes the response message back to the responding system.

#### **Response acknowledgement Codes**

HL7 acknowledgment messages may contain one of three status codes from the receiving

System Accept, Error or Reject.

Each channel has an element "Ack Mode" that defines how the message is acknowledged.

Valid values for this are defined in the table below.

The following are valid acknowledgement message types

- a) The message was successfully, generating the functional response message with a success acknolwledgement code
- b) send an error response, providing error information in functional segments to be included in the response message with a value an error success acknolwledgement code
- c) fail to process (reject) the message for reasons unrelated to its content or format (system down, internal error, etc.). For most such problems it is likely that the responding system will be able to accept the same message at a later time. The sending application is responsible to decide on-specific basis whether the message should be automatically sent again. The response message contains a value with a reject acknolwledgement code

#### New conditions to check

- Store web services unavailable(REJECT)
- Unable to save file(REJECT)

### **Existing conditions**

- Duplicate patient found(ERROR)
- No patient found(ERROR)

#### Ack Mode

Value	Details
Never	No Acknowledge message is generated.
Application	If this has a value of "Application" then values are AA – Application Accept AE – Application Error AR – Application Reject
Commit	If this has a value of "Commit" then values are CA — Accept acknowledgment: Commit Accept CE — Accept acknowledgment: Commit Error CR — Accept acknowledgment: Commit Reject

# **18 Enable Demographic Feeds**

Enabling demographic feeds for a translator is done from the **Amend Translator From Database Service Definition** screen. To get to this screen, click on the **Configuration** menu and choose **Maintain Interfaces**. Click on the chosen interface and click the **Configure** button. On the **Amend Translator** page, check the checkbox labelled **Enable for Demographic Feeds**.

When the **Enable for Demographic Feeds** checkbox is checked, any information sent via this interface relating to patient demographic inserts, updates and merges will be picked up by active **DemogFeed** interfaces and passed to the appropriate Clearspan Queue.

ClearSpan is an enterprise application integration (EAI) server that allows applications running across the enterprise to exchange information.

🖉 Amend Translator - Windows Interi	et Explorer			- 2 🛛
🚱 🗸 🖉 http://localhost/StoreWeb/	testricted/Services/AmendTranslatorFromDatabase.aspx?ServiceID=27		Google	P •
Ele Edit View Favorites Iools Help				
Google	🗸 🔧 Search + 🗟 + 🥝 🖕 - 🔯 - 💷 Sidewiki + 🧍 Check + 👪 Translate + 🍗 AutoFill + 🌽			🔦 🔹 🔵 Sign In 🔹
🚖 🎄 🌈 Amend Translator			🏠 • 🗟 - 🖶 •	Page • 🔘 Tools • »
SCI Store Paisley			My Settings About	Store Log Out 📐
Home Find Patient Find Result	Find Document Find Treatment Log		Patient ID:	Go
	Configuration Exceptions Mgmt Security Maintenance Reporting Genera	al Notification		
Home > Maintain Interfaces > Amend In	erface > Amend Translator		User:	admin on PJSSCI6
\$ 🛃 🗸			Actions	Select Action 💙 Go
Amend Translator From Database	Service Definition			
Interface File Type	NonXML			
Source System	Compas 🗸			
Select File to Database Service *	c:IGGTEST\COMPASIFulFiles			
Interface Type	Results C Demographics C ECS			
Seeded Record				
Reject Invalid Postcodes				
Update Registered GP	VUpdate Practice			
Update Consultant	V Update Ward			
Update Hospital				
Identify Anonymous				
Enable for Demographic Feeds				
ID Format Group	×			
Demographic Parsing Date				
Result Parsing Date	×			
Colomon And Manainan				
Schemes And Mappings				
GMC Scheme 🗸	Мар			
				~
Done			S Local intranet	🔍 100% 🔹

When enabled for a translator, one of the following demographic feed entries will be generated:

- - ReplicatePatientRequest entry (for patient inserts and updates)
- - CombinePatientRequest entry (for patient merge & unmerge
- transactions).

External Applications monitor specific Clearspan queues at regular intervals and consume the entries that have been fed into the queue via this process.

# **19 Report Profiles**

Organisational Reports in SCI Store are constructed using the 'Report Profiles' functions found under the 'General Menu'.

These profiles allow users to produce reports detailing tests filtered on Result set and Discipline. The profiles can also be used on the Cumulative Reporting page to restrict the results returned to the defined Result Sets and Disciplines.

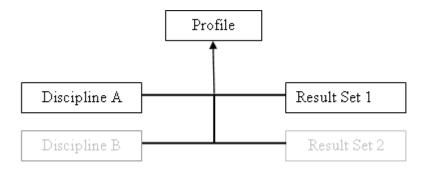
The user defines a profile by selecting the desired discipline or disciplines to be reported on. One or more result sets can then be grouped together and associated with a Report profile.

Investigations descriptions may differ from system to system so the user is able to group several Investigation descriptions together so they appear as a single investigation type (e.g. FBC and Full Blood Count) and associated with a specified Result set.

The main profile screen is shown below.

🖉 Report Profiles - Windows Internet Explorer						
💽 🗸 🖉 http://localhost/StoreWeb,	Restricted/Admin/LaborRepo	ortProfiles.aspx				
<u> Eile E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	)					
😭 🏟 🍘 Report Profiles					1	
SCI Store Paisley						
Home Find Patient Find Result	Find Document Fir	nd on CHI				
	Configuration	Exceptions Mgmt	Security	Maintenance	Reportin	
Home > Report Profiles						
⇔   <b>+</b>						
Evicting Lab Depart Profiles						
Existing Lab Report Profiles						
15 Records Returned						
15 Records Retained						
Profile Name	Created By	Date (	Created	Dele	te	
Biochemistry Test	admin	01/12/200	8 15:17:08	Dele	te	
Third Profile	admin	25/11/200	8 11:55:10	Dele	te	
Fourth profile	admin		8 11:55:44	Dele	te	
5th Profile	admin	25/11/200	8 11:56:00	Dele	te	
6th Profile	admin	25/11/200	8 11:56:13	Dele		
	1 A A A A A A A A A A A A A A A A A A A					

Report profiles are made up of Disciplines and Result Sets. The diagram below illustrates this.

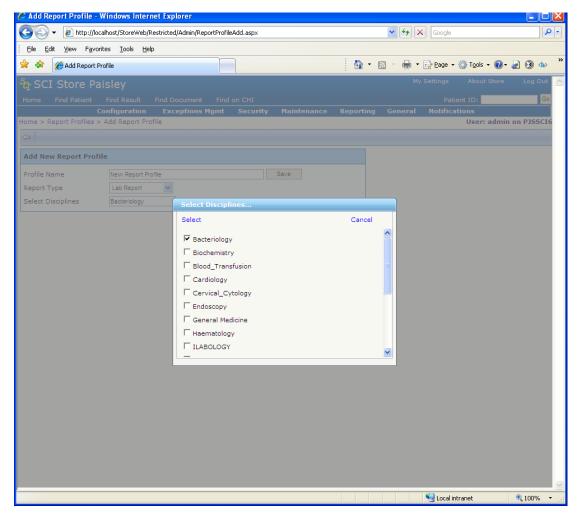


A profile can be made up of one or more Disciplines, together with one or more Results Sets. On the 'Existing Profiles Screen' shown above users can view, edit, delete or create new report profiles.

### 19.1 Creating a New Profile

To create a new Report Profile:

- Click the blue plus (+) button on the toolbar at the top left hand corner of the screen.
- The user is then forwarded to the Add New Profile Screen shown below.



- Enter a profile name in the box provided (e.g. 'New Report Profile')
- Select a Report Type Lab Report for Organisation Lab reports or Cumulative Report to use in the Cumulative Report search criteria.
- Select one or more Disciplines from the popup box on the screen.
- Click the 'Save' button to create the new profile. You are then automatically forwarded to the 'Edit Profile' Screen. Clicking the back arrow button on the toolbar will return the user to the 'Existing Profiles' screen.
- The new profile should now be visible in the Profiles list.

+			
Existing Lab Report Profiles			
Records Returned			
Profile Name	Created By	Date Created	Delete
	Created By admin	Date Created 01/12/2008 15:17:08	Delete Delete
Profile Name Biochemistry Test Third Profile	· · · · · ·		
Biochemistry Test	admin	01/12/2008 15:17:08	Delete
Biochemistry Test Third Profile	admin admin	01/12/2008 15:17:08 25/11/2008 11:55:10	Delete Delete
Biochemistry Test Third Profile 7th Profile	admin admin admin	01/12/2008 15:17:08 25/11/2008 11:55:10 25/11/2008 11:56:49	Delete Delete Delete
Biochemistry Test Third Profile 7th Profile 8th Profile	admin admin admin admin	01/12/2008 15:17:08 25/11/2008 11:55:10 25/11/2008 11:56:49 25/11/2008 11:57:19	Delete Delete Delete Delete

This profile cannot yet be used within a report as it has no associated Result Sets. We must add at least one before the profile can be used.

#### 19.1.1 Adding a Result Set Group to a Profile

To add a result set group to a profile,

 Click on the profile of interest from the Existing Profiles Screen. You will then be forwarded to the 'Edit Profile' screen shown below

Home > Report Profiles > Edit R	ieport Profile		
Edit Existing Report Profi	le		
Profile Name	New Report Profile	Save	
Select Disciplines	Bacteriology Select		
Profile ResultSets			

• Click on the blue plus button on the toolbar and you will be forwarded to the 'Add Result Set Group screen shown below.

🖉 Add Result Set - Windows Internet Explorer		
COO - @ http://localhost/StoreWeb/Restricted/Admin/ReportResultSetAdd.aspx?ProfileID=5	Google	<b>ب</b> م
Elle Edit View Favorites Iools Help		
🚖 🏟 🌈 Add Result Set	🏠 🔹 🔝 🕤 🖶 🔹 📴 Page 🗸 🎯 Tgols 🗸 🔞 🔹 🏚	» »
SCI Store Paisley	My Settings About Store Log Ou	t 📩
Home Find Patient Find Result Find Document Find on CHI	Patient ID:	io
Configuration Exceptions Mgmt Security Maintenance	Reporting General Notifications	
Home > Report Profiles > Edit Report Profile > Add Result Set	User: admin on PJSSC	16
Add New Result Set Group		-
Result Set Group Description Save	9	
Repeat Test (Days)		
Display Order 1		
		V
Done	Scal intranet 🔍 100%	•

- On the 'Add Result Set Group' screen, give the new result set a Description (e.g. 'New Result Set A') and a value for Repeat Days and Display Order.
  - $\Rightarrow$  For Cumulative Report profile types the 'Repeat Test Days' and 'Display Order' fields are irrelevant and will be hidden
  - $\Rightarrow$  For Lab Reports:
    - i. 'Repeat Test Days' can be blank, or a numeric value which must be a positive whole number. This value signifies the number of days between tests for a patient before it is regarded as a repeat test.
    - ii. Enter 'Display Order' value. This is also a numeric field which must be a positive whole number, and determines the order in which this result set will be listed on the final report.
- Click the 'Save' button.
- Result Sets contain a number of sub elements called 'Investigation Matches'. These are the actual test investigation descriptions held in the SCI Store database which will be grouped together under this Result Set.
- In the 'Edit Result Set' screen shown below, we now add the required investigation matches using the 'Select Investigations' button.

C Edit Re	esult Set - Wi	indows Internet	Explorer						
$\bigcirc$	👻 🙋 http://	localhost/StoreWeb/	Restricted/Admin/ReportR	esultSetEdit.aspx?l	ResultSetID=8&Profile	ID=5	✓ ++ >	Google	P •
<u>Eile E</u> d	lit <u>V</u> iew F <u>a</u> v	/orites <u>T</u> ools <u>H</u> e	łp						
😭 🏟	🟉 Edit Result	Set				6	- 🖶 -	🔂 Page 🝷 🚫 Tool	s • 🕖 • 🛃 🐼 🚸 🎽
SCI	Store P	aisley					Му	Settings Abo	ut Store Log Out 📐
Home	Find Patient	Find Result	Find Document F	ind on CHI				Patient ID:	Go
		Configuration	Exceptions Mgm	security	Maintenance	Reporting	General	Notifications	
	leport Profiles tSet added s		ofile > Edit Result Set					Use	r: admin on PJSSCI6
↓	iser added s	successiony							
Edit Exi	sting Result	Set Group							
						_			
	et Group Desc	· ·			Save				
	fest (Days)	0							
Display (	Order	1							
Current	Result Sets								
Sele	ect Result Sets								
No Data	To Display								
								🧐 Local intranet	🔍 100% 🔻 🛒

#### 19.1.2 Adding a new Investigation Match (Search and Select)

Clicking the 'Select Result Sets' button displays the Investigation Selection popup screen. This screen allows you to search and select the required investigation type.

Investigation Match	ies 🗴
Investigation Name	Search Select
12 Lead ECG Admission Profile ALT BLOOD CULTURE BLOOD FILM Blood Units/Products	
Bone Group C-reactive Protein	

In order to search for an investigation description type, simply type part of its name, and click the 'Search' button. To select the required investigation description, click on it in the list, then press the 'Select' button.

🖉 Edit Result Set - Windows Internet Explorer		
😋 💿 👻 🙋 http://localhost/StoreWeb/Restricted/Admin/ReportResultSetEdit.aspx?ResultSetID=8&ProfileI	ID=5 🖌 🛃 Google	<b>P</b> -
Eile Edit View Favorites Iools Help		
😭 🏟 🍘 Edit Result Set	🏠 🔹 🔊 👘 🔹 📴 Page 🗸 🎯 Tools 👻 🕢 🖉	< <b>}</b> ≫
SCI Store Paisley	My Settings About Store Log	Out 📩
	Patient ID:	Go
Home > Report Profiles > Edit Report Profile > Edit Result Set	User: admin on PJS	SCI6
Match criteria successfully added		
Edit Existing Result Set Group Investigation Matches		
Result Set Group Description New Res Investigation Name elec	Search Select	
Repeat Test (Days) 0 Electrolytes		
Display Order 11 Urea & Electrolytes Urea and electrolytes		
Current Result Sets		
Select Result Sets		
1 Record Returned		
Match Value Created By Date Created	Delete	
Electrolytes admin 13/03/2009 15:27:28	Delete	
		<u> </u>
Done	Second Se	% 🔹 🔐

- A message will appear in the background indicating the successful addition; the selection screen will stay visible allowing the user to select another Investigation.
- Close the Investigation matches popup by clicking on the small 'x' in the top-right hand corner.

🖉 Edit Result S	iet - Windows	Internet	Explorer								
<b>@</b> • <b>@</b>	http://localhos	t/StoreWeb/	Restricted/Admin/Repor	tResultSetEdit.aspx?F	tesultSetID=8&Profile	ID=5	🖌 47 🔀	Google			• 9
<u>Eile E</u> dit <u>V</u> ie	ew F <u>a</u> vorites	<u>T</u> ools <u>H</u> e	elp								
🚖 🏟 🏾 🏉 Ed	lit Result Set					🙆 • 6	- 🖶 -	🔂 Page 🔻	💮 T <u>o</u> ols 👻 🔞	- 🔊 🔞 🕯	> >
SCI Sto	ore Paisl	ev					My	Settings	About Store	Log O	ut
		d Result	Find Document	Find on CHI				Pati	ent ID:		Go
	Config	juration	Exceptions Mg	mt Security	Maintenance	Reporting	General	Notifica	ations		
Home > Report	Profiles > Edit	Report Pr	ofile > Edit Result Se	et					User: admi	in on PJSS(	CI6
Match crite	ria successf	ully adde	d								
<b>\$</b>											
Edit Existing	Result Set G	roup									
Luit Existing	nesan ser a	.oup					_				
Result Set Gro	up Description	New Res	sult Set A		Save						
Repeat Test (D	ays)	0									
Display Order		1									
Current Resu	lt Sets										
Select Resi	ult Sets										
1 Record Retu	rned										
Match \	Value	Cre	ated By	Date Cre	ated	Delete					
Electrolytes			dmin	13/03/2009		Delete					
											~
Done								Secol in	itranet	🔍 100%	÷.,

To continue adding other investigations to this result set the popup can be reopened by clicking the 'Select Investigations' button.

• Click the 'Save' button to save the completed result set.

• Any changes you wish to make to the ResultSet definition can also be made in this screen by altering the required details and clicking the 'Save' button'

C Edit Re	esult Set - Windows	Internet Explorer					_ 🗆 🞽
$\bigcirc$	▼ 2 http://localhost	:/StoreWeb/Restricted/Admin,	(ReportResultSetEdit.aspx?R)	esultSetID=88 🔽 😽	× Google		P -
Eile Eo	dit <u>V</u> iew F <u>a</u> vorites	<u>T</u> ools <u>H</u> elp					
😭 🏟	🟉 Edit Result Set			🔄 • 🔊 • 🖶	• 📝 <u>P</u> age • •	🍈 T <u>o</u> ols 👻 🕢	) 3 🐟 👋
Se SC	I Store Paisle	ev			My Settings	About Store	Log Out 🔥
Home		- <b>,</b> d Result Find Docume	nt Find on CHI		Patie	ent ID:	Go
	Configuration	Exceptions Mgmt	Security Maintena	ance Reporting	General	Notifications	
Home > R	Report Profiles > Edit	Report Profile > Edit Res	ult Set			User: admin o	n PJSSCI6
🛈 Resul	tSet Successfully s	saved					
<b>(</b>							
Edit Exi	isting Result Set G	roup					
	-	·					
	et Group Description	New Result Set A		Save			
Repeat 1	Fest (Days)	0					
Display	Order	1					
Current	Result Sets			,			
Sek	ect Result Sets						
1 Record	d Returned						
		Created By	Date Created	Delete			
Electroly	ytes	admin	13/03/2009 15:27:28	Delete			
							~
					🧐 Local int	ranet	€ 100% ·

A message denoting the success of the save operation will be displayed in the top-left corner.

Clicking on the 'back' button 🖙 will return the user to the Report Profile details page.

C Edit R	eport Profile -	·Windows Intern	et Explorer							
$\bigcirc$	👻 🙋 http://k	ocalhost/StoreWeb/R	estricted/Admin/Repo	rtProfileEdit.aspx?Prof	ileID=5&Reload=1		<ul><li>✓ </li><li>✓ </li></ul>	× Google		P -
Eile E	dit <u>V</u> iew F <u>a</u> ve	orites <u>T</u> ools <u>H</u> elp								
🚖 🏟	🟉 Edit Report	Profile				🙆 -		• 🔂 <u>P</u> age •	• 💮 T <u>o</u> ols 🔹 🔞 •	🛃 🐼 🚸 🤎
Se SC	I Store P	aisley					м	ly Settings	About Store	Log Out 📐
Home	Find Patient	Find Result	Find Document	Find on CHI				Pat	ient ID:	Go
		Configuration	Exceptions M	lgmt Security	Maintenance	Reporting	j General	Notifica	tions	
Home > I	Report Profiles	> Edit Report Prof	ile						User: admir	on PJSSCI6
⇔   +										
Edit Ex	isting Report	Profile								
Profile N	lame	New Report Pro	file		Save					
Report 1	Гуре	Lab Report	~							
Select D	Disciplines	Bacteriology	Select							
Profile	Result Set Gr	oups								
1 Reco	rd Returned									
1 Keco	ru Keturneu									
		epeat Test Days	Display Order		Date Created	Delete				
New R	esult Set A		1	admin 13,	/03/2009 15:28:09	Delete				
·										
										~
Done								🛛 🧐 Local ii	ntranet	🔍 100% 🔹 🛒

To add another result set to this profile, simply press the blue plus button on the toolbar again, and repeat steps 3 to 8 above.

#### 19.1.3 Deleting a Result Set from the Current Profile

(Note: a Result Set can only be deleted from a Profile if the Result Set has no underlying Investigation Matches.)

- Click the blue 'Delete' link on the right side of the Result Set you want to delete.
- The following confirmation box will appear:-

Window	s Internet Explorer 🛛 🔀
?	Are you sure you want to delete the New ResultSet A Report Profile?
	OK Cancel

- Press 'OK' to confirm the delete operation.
- If the Result Set still contains underlying investigation matches, you will not be allowed to delete it directly. These investigations matches must be deleted prior to attempting to delete the entire Result Set. If this is the case, a warning will appear at the top of the screen, just under the main menu as shown below.

+	nnot be deleted as it co				
Edit Existing Rep	ort Profile				
		<i>E</i> 1-	Save	-	
rofile Name	New Report Pro	tile	Save	e	
elect Disciplines	Bacteriology	Select			
Profile ResultSe	ts				
Record Returned					
		Display Order	Created By	Date Created	Delete
Description	Repeat Test Days	Display Order	cicated by	Date created	Delete

• After deleting the required Result Set, a success message will be displayed and the grid refreshed showing that the Result Set has been deleted.

<del>lome &gt; Report Profiles &gt; Edit Rep</del> Profile ResultSet successful ▷	
Edit Existing Report Profile Profile Name Select Disciplines	New Report Profile Save Bacteriology Select
Profile ResultSets No Data To Display	

#### 19.1.4 Deleting an Investigation Match for the Current Result Set

- Navigate into the Result Set from which you wish to delete an investigation match.
- From the 'Edit Result Set' screen, click the 'Delete' link of the investigation match you wish to delete as shown below.

Home > Report Profiles > E	Edit Report Profile > Edit Result \$	Set		
Edit Existing ResultS	et			
ResultSet Description	New Result A		Save	
Repeat Test (Days)	7			
Display Order	2			
Select Investigations				
Current Investigatio	ins			
1 Record Returned				
Match Value	e Created	Ву	Date Created	Delete
Electrolytes	admin		02/12/2008 12:03:53	Delete

• You will then be presented with a confirmation box asking if you intend to delete the investigation match selected.



• Click 'OK' to delete the match from the current Result Set. Clicking the cancel button will cancel to delete operation.

• A message will be displayed indicating the success of the delete operation. The grid will be refreshed to show the investigation Match has been deleted.

Home > Report Profiles > Edit Report Profile > Edit Result Set Investigation Match successfully deleted	
Edit Existing ResultSet	
ResultSet Description New Result A Save	
Repeat Test (Days) 7	
Display Order 2	
Select Investigations Current Investigations	
No Data To Display	

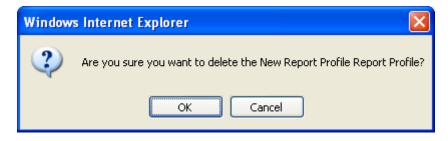
#### 19.1.5 Deleting an entire Report Profile

(Note: An entire Profile can only be deleted if it has no underlying Result Sets attached to it.)

• From the main Profile screen shown below, click the 'Delete' link of the profile you wish to delete.

ne > Report Profiles			
+			
1			
Existing Lab Report Profiles			
7 Records Returned			
Profile Name	Created By	Date Created	Delete
Profile Name Biochemistry Test	Created By admin	Date Created 01/12/2008 15:17:08	Delete Delete
Biochemistry Test	admin	01/12/2008 15:17:08	Delete
Biochemistry Test Third Profile	admin admin	01/12/2008 15:17:08 25/11/2008 11:55:10	Delete Delete
Biochemistry Test Third Profile 7th Profile	admin admin admin	01/12/2008 15:17:08 25/11/2008 11:55:10 25/11/2008 11:56:49	Delete Delete Delete
Biochemistry Test Third Profile 7th Profile 8th Profile	admin admin admin admin	01/12/2008 15:17:08 25/11/2008 11:55:10 25/11/2008 11:56:49 25/11/2008 11:57:19	Delete Delete Delete Delete

• You will then be presented with a confirmation box asking if you intend to delete the selected Profile from the system.



- Click the 'OK' button to delete the selected Profile. A message will be displayed denoting the success of the delete operation; if the delete was successful the grid will be refreshed to show this.
- If the Profile is not empty, (i.e. It still has underlying Result Sets) a warning will appear under the main menu as shown in the screen below. Pressing the 'Cancel' button will cancel to delete operation entirely.

he Profile cannot be deleted a	s it has anothying itesets		
Existing Lab Report Profiles			
Records Returned			
Profile Name	Created By	Date Created	Delete
	Created By admin	Date Created 01/12/2008 15:17:08	Delete Delete
Biochemistry Test			
Biochemistry Test Third Profile	admin	01/12/2008 15:17:08	Delete
Biochemistry Test Third Profile 7th Profile	admin admin	01/12/2008 15:17:08 25/11/2008 11:55:10	Delete Delete
Biochemistry Test Third Profile 7th Profile 8th Profile	admin admin admin	01/12/2008 15:17:08 25/11/2008 11:55:10 25/11/2008 11:56:49	Delete Delete Delete
Profile Name Biochemistry Test Third Profile 7th Profile 8th Profile 11th Profile 23rd Profile	admin admin admin admin	01/12/2008 15:17:08 25/11/2008 11:55:10 25/11/2008 11:56:49 25/11/2008 11:57:19	Delete Delete Delete Delete

Any underlying Result Sets must be deleted from a Profile, before the Profile itself can be deleted.

# **19.2 Amending Existing Profile Details**

Amending the details of an existing Profile (i.e. Profile Name and Disciplines) can be accomplished from the 'Edit Profile' screen below.

Home > Report Profiles >					
Profile successfully	updated				
⇔   +					
Edit Existing Report	Profile				
Eart Existing Report	1101110				
Profile Name	New Report Profile	- updated	Save		
Select Disciplines	Bacteriology	Select			
Profile ResultSets					
Frome ResultSets					
1 Record Returned					
Description	Repeat Test Days	Display Order	Created By	Date Created	Delete
A new result set	14	1	admin	02/12/2008 15:09:32	Delete
L					

- From the 'Edit Existing Profile' page, change the Profile name and selected Disciplines as required.
- Click the 'Save' button to update the Profile record with your changes.

Any change to the Profiles Result Set collection is done by clicking on the required Result Set and editing this separately, as detailed below.

#### 19.2.1 Amending an existing Result Set within a Profile

Amending the details of a Profiles' Result Set is a simple process carried out from the 'Edit Existing Profile' screen.

	t Report Profile				
<b>&gt;   +</b>					
Edit Existing Report Pro	ofile				
Profile Name	New Report Profile	- updated	Save		
Select Disciplines	Bacteriology	Select			
Profile ResultSets					
1 Record Returned					
	Repeat Test Days	Display Order		Date Created	Delete
A new result set	14	1	admin	02/12/2008 15:09:32	Delete

- Click on the required Result Set from the 'Edit Existing Profile' screen shown above
- In the 'Edit Result Set' screen, make any changes to the Result Set Name, Repeat Test Days, or Display order as required. A Result Set Name must be unique with the Profile.

ResultSet Successfu	iiry saved	
Edit Existing Result	Set	
ResultSet Description	A old result set - updated Save	
Repeat Test (Days)	14	
Display Order	1	
Select Investigations		
Current Investigati	ions	
No Data To Display		

- If changes to the Result Sets' investigation matches are required, add or delete these from the list via the 'Select Investigations' button or 'DELETE' link, respectively.
- Click the 'Save' button to update the Result Set details in the database as shown above.

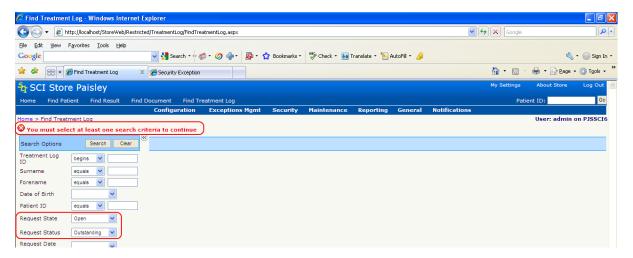
# 20 Treatment Log

The Treatment Log area of the SCI Store Web Front-end should only be made available to SCI Store administrators. General users should not be given access to this area of the application at this point in time.

# 20.1 Find Treatment Log

This provides administrators with the facility to search for Treatment Log records held in SCI Store. To access this screen a user should be given the **Find and View Treatment Logs** module permission, located in the **Treatment Log** category.

To perform a search, enter the required criteria and click the Search button. By default the Request State and Request Status fields default to Open and Outstanding. In addition to these fields at least one other search criteria must be completed, otherwise the user will be presented with an error message.



As shown by points 1 and 2 in the diagram on the following page, Scheduled Treatment Date will only be enabled when Request State is set to 'Open'. Otherwise these fields will be disabled.

A list of treatment log entries will be returned in the search results grid shown in point 3 in the following diagram.

🦉 Find Treatmen	t Log - Windows	s Internet E	xplorer								٦F
🔆 🕘 👻 尼 http://localhost/StoreWeb Restricted/TreatmentLog/FindTreatmentLog.aspx									🖌 🚧 🗙 Google		٩
<u>File E</u> dit <u>Y</u> iew	F <u>a</u> vorites <u>T</u> ools	Help									
Google			👻 🔧 Search 🔹 🛛 🌾	• 🗣 🔕 • 😂	👰 • 😭 Bookman	ks 🔹 😽 Check 🔹 🔒	🛾 Translate 🔹 🎦	AutoFill 🔻 🌽			🔦 🔹 🔵 Sign I
* * 😁 🕻	Find Treatment L	og X	Security Exception						🟠 -	S - 🖶 - B	Page 🔹 🍈 T <u>o</u> ols 🔹
SCI Stor	e Paisley								My Setti	ings About S	tore Log Out
Home Find Pat		ult Find (	Document Find Tr	eatment Log						Patient ID:	Go
			Configuration	Exceptions	Mgmt Securi	ty Maintenance	e Reporting	General Notificat	ions		
Iome > Find Treat	ment Log		_			(3	0			User: a	dmin on PJSSCI
Search Options	Search	Clear	4 Records Returne	ed		, second s					
Freatment Log ID	begins 💌 Ti	R	Name	СНІ	Treatment Log ID	UCPN	Procedure Code	Scheduled Treatment Date	Request Date	Request Status	Assessed Priority
Surname	equals 🔽		TreatmentLog XML6	1112754318	TR00311	100000000320	ICD10	12/08/2009	17/08/2009	Completed	Urgent
orename	equals 🖌		Jean Smith	0111772001	TR100001	←	_(4)_		22/06/2009	Completed	
Date of Birth	<u> </u>	1	Jean Smith	0111772001	TR100011	HO1000000011	A123		22/06/2009	Completed	Urgent
atient ID	equals 🖌		Jean Smith <del>&lt; (</del>	5 1772001	TR100027	HO1000000011	A123	05/08/2009	22/06/2009	Completed	Urgent
Request State	Closed 🔨	←(1)		<u> </u>							
Request Status	Completed	/									
lequest Date from		/									
Request Date To	×	1									
atient Care ype		/									
JCPN											

- Additional treatment log details can be displayed by clicking on any of the fields in the grid (point 4 on the diagram above), apart from the Name field.
- Further patient information can be viewed by clicking on the Name field (point 5 on the diagram above).

### 20.2 Treatment Log Details

The treatment log details page is accessed by clicking through from the Find Treatment Log page. Users will only be able to access this page if they have the **Find and View Treatment Logs** module permission, located in the **Treatment Log** category.

This page displays detailed information relating to a particular treatment log record. It is split into the sections which are highlighted on the following diagram. These sections are general patient information (point 1 on the diagram), treatment log summary information (point 2), attendance request details (point 3), additional treatment request information (point 4) and treatment outcome information (point 5).

Attendance Request Details, Treatment Request and Treatment Request Outcome sections can be shown or hidden by clicking on the arrows for the particular section. These are highlighted by point 8 on the diagram.

From this page an administrator can **Manually Close** a treatment log record. Only users with the **Action Treatment Logs** module permission will be able to perform this action.

An administrator may choose to **Manually Close** a treatment log record if the record has not been closed automatically by an external source system. Only records that do have the request state of Open and request status of Outstanding can be closed in this manner.

🖉 Treatment Log Details - Wir	ndows Internet E	İxplorer						
🚱 🗢 🖉 http://localhost/5	StoreWeb/Restricted,	/TreatmentLog/Treatme	entLogDetails.asp:	&ClassIdx=8</td <td></td> <td></td> <td>Google</td> <td>- م</td>			Google	- م
File Edit View Favorites Too	ols <u>H</u> elp							
Google		🚽 🔧 Search 🔹 🗄	۰ 🌀 🗣	🔊 • 🏫 Bookmarks •	🍣 Check 🔹 🍓 Translate 🔹 🎦	AutoFill 🔹 🌽		🔦 🔹 🔵 Sign In 🔹
🔶 🏟 😁 🗸 🏉 Treatment Lo	g Details 🛛 🗙	Security Exception	T				🗿 • 🔊 - 🖷	🖡 🔹 🔂 Page 🔹 🍈 Tools 🔹
SCI Store Paisley	y						My Settings	About Store Log Out
- Home Find Patient Find F		ocument Find Tr	eatment Log				Patient 1	ID: Go
		Configuration	Exceptions	Mgmt Security	Maintenance Reporting	General Notificatio	ns	
Home > Find Treatment Log > P	atient Details > T	Freatment Log Detai	ls				L	Jser: admin on PJSSCI6
	-6)						Acti	ons Select Action 🗸 Go
Patient	$\cup$							Select Action
Patient Name	СНІ	Date Of Birth	Age	GP		Practice	Consultant 🕖	W Printer Friendly
Jean T Smith 01	111772001	11/01/1977	32	CUNNINGHAM, PAUL	BRUNTSFIELD	IEDICAL PRACTICE		
Treatment Log General Informa	ation <del>&lt; 2</del>							
Treatment Log ID	TR100003				Patient Care Type	Outpatient		
Patient Category					Request Date Time	03/11/2009		
Assessed Priority Request Comment	Urgent this is test com	ment			Assessed Priority Reason	This is test a	ssessed urgency reason	
Request Status	Outstanding	inen.			Request Status Comment			
Attendance Requested Details	←3)							<b>^</b>
Attendance Requested Details								^
Treament Care Point Info								
Site ID Location ID	C206H TLOC				Site Name Location Name	Vale of Leven General H (TLOC) Test Location	lospital	
Responsible HCP ID	0001104				Responsible HCP Name	ANDERSON, JOHN		
Clinic	Outpatient Clin	nic			Speciality Name	General Medicine		
Facility	Day Hospital							
Attendance Requested D	ates							
To Come In Target Date Time	03/12/2009 12	2:00:00			Treatment Breach Date	03/12/2009 00:00:00		
	€(4)							,
Treatment Request								(8) *
Treatment Request Outcome	←(5)							*
	$\smile$							

This action can be performed by clicking on the **Manually Close** icon <sup>(C)</sup> on the toolbar or by selecting the **Manually Close** action on the toolbar, as highlighted by points 6 and 7 on the diagram above.

When this action is performed a popup box will be displayed which is shown in the diagram below.

	Patient Care Tree	In
Manually Close	Request (5) —> 🗷	03
1→Mandatory fields a	re identified by (*). You must supply a value for these fields.	Th
2 Closure Date *	25/11/2009	Th
3 Request Status *	Completed  Completed	
	Cancelled	ale of Leven FLOC) Test L NDERSON, J
	M	eneral Media
	Close Request ← 6	
	Treatment Breach Date	03/12/2009 0

A treatment log record can be manually closed by completing the mandatory fields and clicking the **Close Request** button (point 6, diagram above). If the mandatory fields are not completed the error message shown in point 1 in the diagram above will be displayed.

The rules for manually closing a treatment log record are:

- Closure Date and Request Status must be completed (points 2 and 3 in the diagram above).
- Closure Date cannot be earlier than the records Request Date and cannot be later than today's date.

• If the Request Status of **Completed** is selected a **Closure Comment** must be completed, otherwise no Closure Comment is required.

To exit the Manually Close Request popup box without closing the treatment log record, click on the  $\square$  as indicated by point 5 of the diagram.

## 21 Gateway GUID Stylesheet Maintenance

As part of the changes made to the Gateway to SCI Store Documents interface made in Version 7.0, Gateway will now supply a unique style sheet identifier (GUID) that Store will use to associate the style sheet with the correct document.

The Gateway GUID Stylesheet Maintenance area of the SCI Store Web Front-end should only be made available to SCI Store administrators. This will be reachable from the 'General' Menu.

## 21.1 GUID Stylesheet Association Maintenance

<del>\$</del> 2 SC	CI Store F	Paisley									My Settings	About Store	Log Out	^
Home		Find Result	Find Document	Find Tr	eatment Log						Patie	ent ID:	Go	
				uration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications				
Home >	GUID Styleshe	et Association M	aintenance									User: admin	on PJSSCI6	
¢   -	+ 2													
Maint	ain GUID Style	esheet Associa	tion											
GUII	O Stylesheet	Date of Assoc		3)										
1	1.xsl	31/12/2010		ಲ										
12	10.xsl	31/12/2010	0											
2	11.xsl	31/12/2010	0	$\sim$										
3	12.xsl	31/12/2010	0	(1)										
4	6.xsl	31/12/2010	•	$\sim$										
5	15.xsl	31/12/2010	2											
Done											📢 Local in	rapet	100% •	

This screen will display all the existing associations of GUIDs and corresponding Stylesheets previously created. It will initially be sorted on Date of Association and then on GUID, and has the following columns.

- GUID
- Stylesheet
- Date of Association

• Remove Action – by clicking this action icon, the 'GUID - Stylesheet' association will be removed. (Point 3)

The Back button will take the user to the Home page.

The Add Action icon (Point 2), will take user to a new screen 'Add GUID Stylesheet Association' screen.

## 21.2 Add GUID Stylesheet Association

This screen will associate a GUID to its corresponding stylesheet.

SCI S	Store P	aislev									My Settings	About Store	Log Out	~
		Find Result	Find Document	Find Treat	ment Log						Patie	ent ID:	Go	
			Configu	ration I	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications				
Home > GUI	D Styleshee	et Association M	aintenance > Add G	UID Stylesh	eet Association							User: admin	on PJSSCI6	
¢  🛃 (	5													
Add GUID	Styleshee	t Association	(1)											
GUID *			-	Search	(2)									
Stylesheet	*		0	Search										
			-(3)	-4)-										
														V
Done											🧐 Local in	tranet	🔍 100% 🔹	



The user can enter the unique style sheet identifier (GUID) into the GUID textbox (Point 1 in Fig 1 above). Alternatively, the user can search for the GUID via the Search link (Point 2 above). Clicking on the search link will display a popup box as seen in the screenshot below (Fig 2). When they user has selected a GUID from the popup box, the GUID textbox will be populated.

To select a stylesheet the user must click on the stylesheet search link (Point 4 in Fig 1). A popup box as seen in the screenshot below (Fig 3) will be displayed allowing them to choose the appropriate stylesheet. When they have selected a stylesheet from the popup box, the stylesheet textbox (Point 3 in Fig 1) will be populated.

Image: Add GUID Stylesheet Association     Image: Image			- PI
SCI Store Paisley     My Settings     About Store     Log     Configuration     Exceptions Mgmt     Security     Maintenance     Reporting     General     Notifications     User: admin on P3SSCI      GUID     Search     Stylesheet     Search     Se	😥 🕶 🔊 http://localhost/StoreWeb/Restricted/Admin/AddGUIDStylesheetAssociation.aspx		<b>P</b>
Home Find Patient Find Result Find Document Find Treatment Log Patient To Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications Configuration Exceptions General Notification Configuration Exceptions Security Maintenance Reporting General Notifications Configuration Exceptions General Security Maintenance Reports General Security Maintenance Reports General Security Maintenance Reports General Security General Security Maintenance Reports General Security Maintenance Reports General Security Maintenance Reports General Security General Security Mai	Image: Add GUID Stylesheet Association	🟠 🔹 📾 🔹 🖶 🖬 Page	🔹 🍈 Tools 🔹
Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications   User: admin on P3SCI User: adm	SCI Store Paisley	My Settings About Store	Log Out
one > GUID Stylesheet Association     Add GUID Stylesheet Association     GUID *   Stylesheet *   Search Stylesheet *      Scarch GUIDs to be associated 1     GUID		Patient ID:	Go
Add GUID Stylesheet Association GUID * Search Stylesheet * Search Search GUIDs to be associated		User: admin	on PJSSCI6
Add GUID Stylesheet Association GUID * Stylesheet * Scarch GUIDs to be associated GUID Search Seed Al GUID Search Seed Al GUID Search Seed (3)			
GUID * Search Stylesheet * Search GUID to be associated 1 GUID Search Seerch Al GUIDs are already associated (3)			
Stylesheet *			
Search GUIDs to be associated (1) GUID Search Select AI GUDs are already associated (3)			
	- (3)		

(fig 2)

- Documents uploaded into SCI Store from Gateway may contain GUIDs which are not yet associated with any stylesheets. These **not associated GUIDs** will be displayed at Point 2 above. If all the documents containing GUIDs are already associated with stylesheets, then 'All GUIDs are already associated!' text will be displayed instead of a list.
- The user can refine the search for a GUID by typing in part of name in the GUID text box (Point1 1 Fig 2) and clicking the Search button (Point 3 Fig 2).
- The user can select a GUID from the list displayed and click the Select button (Point 4, Fig 2) this will fill up the GUID textbox with the selected GUID name.

The user can close the popup box by clicking on the 
button of
popup box.

Image: Search     Image: Sea	Log Out 🔥
Wy Settings       My Settings       About Store         Home       Find Patient       Find Document       Find Treatment Log       Patient ID:         Configuration       Exceptions Mgmt       Security       Maintenance       Reporting       General       Notifications         Home > GUID Stylesheet Association       Security       Maintenance       Reporting       General       Notifications         Image: Superior Stylesheet Association       Security       Maintenance       Reporting       General       Notifications         Image: Superior Stylesheet Association       Security       Maintenance       Security	Log Out 🔥
Home Find Patient Find Result Find Document Find Treatment Log Patient ID: Patient ID: Configuration Exceptions Mgmt Security Maintenance Reporting General Notifications Home > GUID Stylesheet Association Maintenance > Add GUID Stylesheet Association  Add GUID Stylesheet Association  GUID *Search	Go
Configuration         Exceptions Mgmt         Security         Maintenance         Reporting         General         Notifications           Home > GUID Stylesheet Association Maintenance > Add GUID Stylesheet Association         User: admin on         User: admin on           Califications         Image: Calification Maintenance > Add GUID Stylesheet Association         User: admin on           Califications         Image: Calification Maintenance > Add GUID Stylesheet Association         User: admin on           Califications         Image: Calification Maintenance > Add GUID Stylesheet Association         Image: Calification Amplitude Amplitu	
Home > GUID Stylesheet Association Maintenance > Add GUID Stylesheet Association       Image: Control Stylesheet Association	PJ55CI6
Add GUID Stylesheet Association GUID *Search	
Add GUID Stylesheet Association GUID * Search	
GUID * Search	
Stylesneet " Search	
Search Stylesheets       Image: Comparison of the search	
Done Signature Signa	100% -

(fig 3)

- A list of stylesheets will be displayed at Point 2 of fig 3. The stylesheets used by documents are stored at a location defined by the system setting called "DocumentStylesheetLocation". This location contains all the stylesheets used by documents. If there are no stylesheet in this folder then 'No Stylesheet in folder' text will be displayed instead of a list.
- The user can search for the stylesheet by typing in part of the name in the Stylsheet text box (Point 1 Fig 3) and clicking on the search button (Point 3 Fig 3).
- The user can select a stylesheet from the list (Point 2, Fig 3) and clicking on the Select button (Point 4, Fig 3) will populate the Stylesheet textbox in point 3 fig 1 with the selected stylesheet name.

The user can close the popup box by clicking on the 
 button of
 popup box.

After selecting the stylesheet and associated GUID, the user can save the association by clicking on the 'Save' action button (point 5 fig 1).

GUID and Stylesheet are both mandatory. If the user tries to save when either or both are not provided, then the error message S Mandatory fields are identified by (\*). You must supply a value for these fields. will be displayed.

If the user tries to associate a GUID which has already been associated, then the error message **GUID** is already associated with stylesheet.To add reassociate remove the old association first. will be displayed. To associate this GUID with another stylesheet, the user must first delete the existing association from the 'GUID Stylesheet Association Maintenance' screen and then create the new association.

# 22 Administration Reports

## 22.1 Organisation Test Report

Accessed from the Reporting Menu, the **Organisation Test Report** functionality allows the user to generate exportable reports that detail the number of tests requested by each GP Practice.

The content of this report is defined via **Report Profiles**. These profiles contain the specified Disciplines and Result set information that the report will be run against. (See section 3.20 for more details on **Report Profiles**)

The Organisation test Report screen allows the user to select from the predefined Report Profiles and specify start and end dates for the reporting period on which information is to be summarised. The page is shown below.

Ser :	SCI S	tore Pa	aisley						
Ноп	ne Fin	d Patient	Find Resu	ılt	Find Doc	ument	Find on CHI		
		Con	figuration		Exceptio	ns Mgmt	Security	1	Main
Hom	e > Orgai	hisation Te	st Report						
R	eport Cr	iteria							
Pro	ofile *	Please se	elect	~	Format	GP Practic	e	~	
Da	te From '	Please se Biochemi	elect stry Tests		Date To *	03/12/2008	; <b>v</b>		
						Report	t Export	Clea	Ir

The user generates a report by selecting an entry from the 'Profile' drop-down list, selecting which format they require (GP Practice or GP Practice Repeat Tests) and then entering dates for the reporting period the user wishes to view.

'Profile', 'Date From' and 'Date To' are mandatory fields and the following message is displayed if any of them are not entered.

SC SC	I Sto	ore Pa	isley							
Home	Find	Patient	Find Re	sult	Find Doc	ument	Find on CH	I		
		Confi	iguratio	n	Exceptio	ns Mgmt	Securit	y I	Maintenance	Re
Home > (	Organis	ation Tes	t Report							
	<b>atory f</b> rt Crit		e identif	ied	by (*). You	ı must su	pply a val	ue fo	r these fields.	
Profile	*	Please se	lect	~	Format	GP Practice	•	*		
Date F	rom *	01/12/200	8	*	Date To *	03/12/2008	*			
						Report	Export	Clear	·	

If no data is available for the Profile within the date range selected then a message will be displayed as shown below.

SC:	I Sto	ore Pa	isley					
Home	Find	Patient	Find Re	sult	Find Do	cument	Find on CHI	
		Confi	guratio	n	Exceptio	ns Mgmt	Security	Mainte
Home > 0	Organis	ation Tes	t Report					
	ws ret	urned fo	r report	cri	teria.			
C Repor	rt Crit	eria						
Profile	*	Biochemis	try Tests	~	Format	GP Practice	)	*
Date Fr	rom *	02/12/200	8	*	Date To *	03/12/2008	*	
						Report	Export (	Clear

If there is data for the selected options then this will be presented in the manner shown below.

SCI SCI	Store Pa	aislev					
Home	Find Patient	Find Result	Find Docume	ont Find	on CHI		
nome		rind Result		uration	Exceptions Mgmt	Security	Maintenance
Home > 0	)rganisation Te	st Report					
- Repor	t Criteria						
Profile *	* Ex	ample Profile	V Fo	rmat	GP Practice	~	
Date Fr	om * 01/	12/2006	Di	ate To *	26/11/2007 💙		
					Report	Export Cle	ear
<i>5</i>	∎ H I I	▶ ▶ 1/4	-	Main Re	eport 💌 🍸	m	100% 💌
Report I Betwee Practice		nple Profile 2/2006 <b>and</b>	GP Prac 26/11/2007	tice Re	eport		
Code Name Address	s NEWAF	KSHIRE					
Descrip	tion				Number Of Tests		
Chlamy	dia PCR				1		
CRP					1		
FBC Histolog	y request				1		
Other	1. request				13		
			Practice	Total	17		

Clicking on the report navigation buttons highlighted below will allow the user to step through the pages of the generated report. The user is also able to

enter a valid page number in the field highlighted, clicking on the button will then navigate to corresponding page of the report.

i 🗇 🔡 🕨	▲ ▶ ▶ 2 / 4 3 🕑 Main Report 💌 🕆 100% 💌
	GP Practice Report
Report Profile Between	Example Profile 01/12/2006 and 26/11/2007
Practice Deta	ils
Code Name Address	63315 ALISON LEA MEDICAL CENTRE POLLOCK LANE CALDERWOOD EAST KILBRIDE G74 3BA
Description	Number Of Tests
Blood FBC	2 2
Other	6
	Practice Total 10

Clicking the 'Show/Hide Group Tree' button will display a tree-view pane to the left of the report containing the practice details for the report. These tree-view elements can be selected to display the associated information, the Practice Name will be highlighted as shown below.

🍊 📴 K 4 🕨 H 3/	4 Main Report 💌 🏦	100% 💌
Content of the street of the s	GP Practice Rep Example Profile 01/12/2006 and 26/11/2007	port
Practice Detai	s	
Code Name Address	76118 DUNBAR MEDICAL CENTRE QUEENS ROAD DUNBAR EAST LOTHIAN EH42 1EE	
Description LFTs Lipids Thyroid U&E Other	Practice Total	Number Of Tests 1 1 1 1 1 5
		-

Once a report has been generated it can be printed by clicking the Print button on screen: , this opens the Print Options popup window as shown below. This allows the user to select print options then produce a hard copy of the report by following the instructions given.

🖉 Print the Report - Windows Internet Explorer
Print Options
Enter the page range that you want to Print.
⊛ All
Pages
From: 1 To: 1
To Print:
<ol> <li>In the next dialog that appears, select the "Open this file" option and click the OK button.</li> </ol>
<ol><li>Click the printer icon on the Acrobat Reader Menu rather than the print button on your internet browser.</li></ol>
ΟΚ

Once a report has been generated, it can also be exported to a spreadsheet application as a comma separated file by clicking the 'Export' button. A File Download popup will appear as shown below.

SC:	I Store	Paisley						My Set	tings /	Abou
Home	Find Patie	nt Find Resul	Find Document	Find	on CHI				Patient I	D:
	C	Configuration	Exceptions Mg	nt Se	curity	Maintenance	Reporting	General	Notifica	tior
	Profile E	Test Report	Format GP Pra Date To * 26/11/2 Re GP Practi S	ctice 2007 port Ex Main Re	port Clea	r 1		0%		lser
Practic Code Name Addres	S NE	46 64 HIGH STREET WARTHILL JARKSHIRE I 5JU		Do yo	Name Type	popen or save this corganisations.cs Microsoft Office clocalhost upen	v	arated Values Fi		
Descrip Other	otion		Practice To	0	harm your	from the Internet ca computer. If you do ïle. <u>What's the risk?</u>	not trust the source			

The user can now choose to save the file to disk or open it directly in their default spreadsheet application, in this case Microsoft Office Excel.

The Report criteria and generated report can be cleared by clicking the 'Clear' button.

## 22.2 Audit Report

Accessed from the Reporting menu, the **Audit Report** functionality provides the ability to monitor unusual patterns of user access to SCI Store in order to satisfy some of the requirements set out in the E-Results Access Protocol document (Section 11 – AUDIT Mechanisms) that outlines "best practice" requirements for safe and secure access to laboratory result information.

The queries that can be run on this page monitor:

- Repeated unsuccessful access attempts
- Wrongly submitted passwords (3 times) that generate a "Lockout"

- Long periods worked by an individual outside normal working hours
- Casual browser (users that have accessed a certain number of patients in a day)

🖉 Audit Report - Windows Internet Explorer		X
🚱 🕞 👻 🖻 http://localhost/StoreWeb/Restricted/SystemReports/AuditReport.aspx	🖌 🛃 K Google	•
Elle Edit View Favorites Iools Help		
Google Search + 🛷 · Ø 🖶 - Sidewiki + 🦘 Check + 👪 Translate + 🖹 AutoFill + 🥖	🖏 🔹 🔵 Sign :	in •
🚖 🏟 🌈 Audit Report	🏠 👻 🗟 🐇 🖶 🛃 Page 🕶 🎯 Tools	•
ScI Store Paisley	My Settings About Store Log Out	^
Home Find Patient Find Result Find Document Find Treatment Log	Patient ID: Go	
Configuration Exceptions Mgmt Security Maintenance Reporting General N Home > Audit Report	Notifications User: admin on PJSSCI	
	User. admin on Passer	_
<u> </u>		
Period Start * 11/11/2009		
Period End * 11/12/2009		
Define Unsuccessful Logon attempts as * 10 per day / machine		
Define Lockouts as *         10         per day / machine           Define long period (in hours) as *         8         hours / day		=
Define casual browser as * 20 Patient accesses / day Base Location		
Search Clear Export to Excel		
Unsuccessful login attempts		
		_
Login attempts against locked User accounts		
<u> </u>		
Long Periods worked by an individual - SCI Store Front End Users that have accessed Patients for more than X hours in any day		
		~
		>
A Done	Scotal intranet 🔍 100%	•:

Each of these textboxes can be amended in the page itself so that different searches can be conducted. However, it is worth noting that the textboxes that define what constitutes an unsuccessful login, a lockout, abnormal hours and a casual browser can have their default values defined via a system setting so that regular queries can be run more easily.

## 22.3 User Audit Reports

### 22.3.1 Overview

A Results Audit report and a Document Audit report are both available from the reporting menu. These can be run to provide a list of all Results or Documents that have been viewed by a user (or all users) across a specified date range.

SCI Store Paisley	My Settings About Store Log C
- ome Find Patient Find Result Find Document Find on CHI	Patient ID:
Configuration Exceptions Mgmt Security Maintenance	Reporting General Notifications
me	Statistics User: admin on PJSS
	Audit Report
Recently Viewed Recently Created My Favourites Administration	Locked Accounts Audit Report
Patients Results Documents	Failed Logins Audit Report
	Casual Browser Audit Report
No Data To Display	Extended Logins Audit Report
	Ebiz Audit
	Breakglass Search
	Breakglass Summary
	Document Audit Report
(	Results Audit Report
	Maintain Patient Audit
	Patient Search Audit
	User Session Report
	Organisation Test Report

#### 22.3.2 Results Audit Report

To view a report detailing results viewed by a specific user (or all users), firstly access the Results Audit Report screen from the Reporting Menu to open the following screen.

SC:	I Store F	aisley							My Setti	ngs About Store	Log Out
Home	Find Patient	Find Resu	It Find Docume	nt Find on CHI						Patient ID:	Go
			Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications		
Home > F	Results Audit F	leport								User: admi	n on PJSSCI6
¢											
Results	audit Repo	t									
Usernar Period S		03/2009	Period Er	ld * 09/04/2009	Re	port Clear					

The date fields are mandatory. The Period End field will default with the present date and the Period Start will default to the present date minus one month. However, these can be modified to whatever date range is required.

The User Name field is optional, but should be populated if audit info for a specific user is required. If no user name is supplied, then maximum date difference between Period Start and Period End is one month.

The clear button will return the screen to the default setup as shown in the above screen shot. The search is invoked by the 'Report' button producing a display similar to the following:

CI Store	Paisley									My Settings	About Store	Log Out
Home Find Patie	nt Find Re	sult Find Documen	Find on C	ні						Patie	ent ID:	G
		Configuration	Exceptio	ons Mgmt	Security M	aintenand	e Reporting	General	Notifica	tions		
iome > Results Aud	it Report										User: admin o	on PJSSC
\$												
Results Audit Rep	ort											
Username	admin											
Period Start *	09/03/2009	Period Er	id * 09/04/	2009	~ Report	Clear						
Report Identifier	Given Name	Family Name	Report Type	Sample Type	Investigation	User Name	Full Name	System	Location	Date/Time Accessed		
R,03.0094773.E	FNAME0018	SNAME0018	Haematology	Blood	ERYTH SED RATE	admin	The Global Admin	PJSSCI6	SCI Store Paisley	09/04/2009 16:07:01		
R,03.0094889.E	FNAME0015	SNAME0015	Haematology	Blood	FBC	admin	The Global Admin	PJSSCI6		09/04/2009 16:07:06		
HAE789789H	ILAB	TESTCOMMENTSONLY	Microbiology	Faeces	Enteric MC&S	admin	The Global Admin	PJSSCI6		09/04/2009 16:07:07		
334479 UEL	Nunit	Medipath	Biochemistry			admin	The Global Admin	PJSSCI6		09/04/2009 16:07:08		
888761 EYE1	Nunit	Medipath	Microbiology			admin	The Global Admin	PJSSCI6	SCI Store Paisley	09/04/2009 16:07:09		
H07,08051012_NEV	/3 Andrew	TestStatusTest	Haematology	Blood	FBC	admin	The Global Admin	PJSSCI6		09/04/2009 16:07:10		
H07,08051012_NEV	/3 Andrew	TestStatusTest	Haematology	Blood	Lipids	admin	The Global Admin	PJSSCI6	SCI Store Paisley	09/04/2009 16:07:10		
END78865	Johnny	Six	Endoscopy	Endoscopy	Endoscopy	admin	The Global Admin	PJSSCI6		09/04/2009 16:07:12		
ECG1234	Billy	ECG	Cardiology	ECG	12 Lead ECG	admin	The Global Admin	PJSSCI6		09/04/2009 16:07:13		
R,02.0086613.L	FNAME0039	SNAME0039	Haematology	Blood	Thyroid	admin	The Global Admin	PJSSCI6		09/04/2009 16:08:49		
R,02.0086600.Q	FNAME0040	SNAME0040	Haematology	Blood	Haemoglobin A1c	admin	The Global Admin	PJSSCI6		09/04/2009 16:08:52		
R,02.0086589.Q	FNAME0038	SNAME0038	Haematology	Blood	Haemoglobin A1c	admin	The Global Admin	PJSSCI6		09/04/2009 16:08:53		
R,02.0086605.K	FNAME0041	SNAME0041	Haematology	Blood	Haemoglobin A1c	admin	The Global Admin	PJSSCI6		09/04/2009 16:08:54		
R,02.0583024.V	Mand	Field	Haematology	Blood	FBC	admin	The Global Admin	PJSSCI6	SCI Store Paisley	09/04/2009 16:08:55		
R.02.008312PSA	Jon	TestGroupFour	Haematology	Blood	FBC	admin	The Global Admin	PJSSCI6		09/04/2009 16:08:56		

### 22.3.3 Document Audit Report

To view a report detailing documents viewed by a specific user (or by all users), firstly access the Document Audit Report screen from the Reporting Menu to open the following screen.

tr SC	Store Pa	isiey									ettings	About Store	Log Out
Home	Find Patient	Find Result	Find Docu	ument Find o	n CHI						Patie	ent ID:	G
			Configura	ation Exce	otions Mgmt	Security	Maintenance	Reporting	General	Notifications			
ome > D	ocument Audit	Report										User: admin (	on PJSSC
¢													
-													
Docume	nt Audit Repo	rt											
Usernar	ne	L											
Period S	tart *	09/03/2009	~	Patient Conse	nt All	~	Category	All Categories	*				
Period E	nd *	09/04/2009	~	Sensitivity	All	*	Sub-Category	All Sub-Categorie	s v				
		-											
Report	Clear												

The date fields are mandatory. The Period End field will default with the present date and the Period Start will default to the present date minus one month. However, these can be modified to whatever date range is required.

The User Name field is optional, but should be populated if audit info for a specific user is required. If no user name is supplied, then maximum date difference between Period Start and Period End is one month.

The Patient Consent, Sensitivity, Category and Sub-Category fields can be changed to further filter the search.

The clear button will return the screen to the default setup as shown in the above screen shot. The search is invoked by the 'Report' button producing a display similar to the following:

SCI S	tore Paisl	ey								My Settings	About Sto	re Log (
		nd Result	Find Doc	ument Find	on CHI					P	atient ID:	
			figuration	Exceptio	ns Mgmt	Security Main	ntenance	Reporting	General	Notifications		
ome > Docu	ment Audit Rep	ort									User: adı	nin on PJSS
\$												
Document /	Audit Report											
Username Period Start	ad	min /03/2009	~	Patient Conser	t All	✓ Categ		O de services	~			
Period Start	-	/04/2009		Sensitivity				Categories Sub-Categories	~			
Period End	03	/04/2003	·	Sensitivity	All	Sub-C	ategory Al	Sub-Categories	×			
Report	Clear											
Username	Document	Full	System	Location	Document	Category	Sub-	Specialty	Document	Sensitivity	Date/Time	Viewed
	Title	Name			Revision		Category		Consent		Accessed	
admin	Upload Document	The Global	PJSSCI6	SCI Store	003	Correspondence	e Clinical lette	r Cardiology	Y	нз	09/04/2009	Document
	Test Compas	Admin The		Paisley							16:07:39	
admin	Merge Willbe Secondary		PJSSCI6	SCI Store Paisley	001	Correspondence	e Clinical lette	r Haematology	Y	s	09/04/2009 16:07:46	Document
	Compas Merge	The		SCI Store							09/04/2009	
admin	Goingtobe Master	Global Admin	PJSSCI6	Paisley	001	Correspondence	e Clinical lette	r Haematology	Y	s	16:07:52	Document
	Web Service Test0001's	The		0.01 01-11		Clinical Letter					00/04/2000	
admin	Word Doc Test	Global Admin	PJSSCI6	SCI Store Paisley	001	Test		Haematology	Y	s	09/04/2009 16:08:00	Metadata
	Stylesheet	The									/ /	
admin	Testdocumen for Full Doc revision 1	<sup>t</sup> Global Admin	PJSSCI6	SCI Store Paisley	001	Assessments	CPA assessment	X-Ray	Y	HS	09/04/2009 16:08:04	Metadata
	Stylesheet	The										
admin	Testdocumen for Full Doc	<sup>t</sup> Global Admin	PJSSCI6	SCI Store Paisley	001	Assessments	CPA assessment	X-Ray	Y	HS	09/04/2009 16:08:04	User Notes
	revision 1 PDF											
admin	Testdocumen for Min	Global	PJSSCI6	SCI Store Paisley	001	Reports	OOH report	X-Ray	Y	s	09/04/2009 16:08:08	Metadata
	DocToDB23 revision 1	Admin										
	Web Service Test0002's	The		SCI Store		Clinical Letter					09/04/2009	
admin	Word Doc Test	Global Admin	PJSSCI6	Paisley	001	Test		Radiology	Y	S	16:08:09	Metadata
											Page(s	1.1

# Appendix A: SCI Store Registry and System Settings SCI Store Registry Settings

Setting Name	Value	Functionality
CacheSystemSettings	0/1 (default 1 if not present)	Enables or disables the caching of the system setting values. Note: This is to be used for testing only and should never be set to 0.
ConnectionString	user id= idvalue;password=pass word;initial catalog=databasename; data source=servername;Co nnect Timeout=30	Defines the database connection string
ECSMode	0/1	Disables/Enables ECS application.
ECSchemaValidation	0/1	Enables or disables the schema validation during upload of ECS Practice files.
ECSSequenceCheck	0/1	Enables/disables sequence number checking on ECS Interface.
LogLevel	<ol> <li>1 = Error</li> <li>2 = Error, Warning</li> <li>3 = Error, Warning, Information</li> <li>Every other value defaults it to 1</li> </ol>	Determines which kinds of messages are displayed in Windows Event Viewer.
NotificationProcessingMode	<ul> <li>0 – Will run normal file processing services, maintenance plan and notification services.</li> <li>1 – Will only run notification services.</li> <li>2 – will only run normal file processing services and maintenance plan.</li> <li>The default value is 0</li> </ul>	This new registry setting can be checked by the windows service. This setting will determine whether to run all services or only the store notification services. This will allow an instance of the Store Windows Service to be installed on another box for the purpose of solely

	This was added in build 7.1.1103	running the notification services.
SchemaFolder	Location of Schemas folder	Location of Web Service and Document upload verification schemas
XsltFolder	Location of the WebFE folder	Location of stylesheets for user admin and system settings screen

## SCI Store Mandatory Fields Registry Settings

Setting Name	Value	Functionality
FindPatient	Mandatory – Yes/No Default conditions are: – equals begins contains soundex (can only be applied to surname field) Index equals (can only be applied to Identifier field) Index contains (can only be applied to Identifier field)	The following fields can be made mandatory: - Forenames - Surname - Identifier - Have Results Default condition defines what will be listed as default in the appropriate drop-down list. The only applicable fields are :- - Surname - Forenames - Identifier Default values are only available for the
		following field: - - Have Results (Yes/No) -

## SCI Store User System Settings

Setting Name	Functionality	Data Type
AdvancedCounterStatsInterval	Most windows counters have no impact on resources. Other advanced counters should only be generated if required. This system setting determines whether these advanced SCI Store windows counters are calculated as part of the file upload process.	Integer
	This setting is used to determine how often the advanced counters are calculated. A value of how many minutes between calculations is defined in this setting. If the system setting has a zero value then the counters are not calculated.	
	See counters appendix for full details on what counters are affected.	
	Default value = 0	
	Range between 0 and 2000	
AllowLocalUserCreation	Implemented in build 6.0.1017 Allows control of the user maintenance features in the application.	Boolean
	Default value = 'True'	
AllowSimultaneousLogins	Implemented in build 5.0.0913 for IAMS user management functionality. Allows administrator to set number of multiple Logins permitted by the same user account. When set to ZERO disables Simultaneous Logins.	Integer
	Default value = 3	

	Range between 0 and 5	
	Revised implementation in build 6.1.1042	
AuditCasualBrowser	Sets default value for Casual Browser query in Audit Report screen	Integer
AuditFailedLogon	Sets default value for Failed Login query in the Audit Report screen	Integer
AuditLockout	Sets the default value for the Lockout query in the Audit Report	Integer
AuditLongPeriods	screen Sets the default value for the Long working hours query in the Audit	Integer
AuditSearchResults	Report screen Audits all search results returned.(Find patient Screen)	Boolean
AutoMergeMaxCandidates	Default setting is 'FALSE' Specifies the maximum number of candidates that should be included in a search using the new AutoMerge functionality. The	Integer
BreakglassWarning	default value of this setting is 50. Sets the default value for the breakglass warning message	String
BusinessReportsTimeout	displayed to the user This setting controls how business report timeouts are processed in the system.	Integer
	Takes an integer value which represents the number of seconds.	
	This has a default value of 600 seconds(10 minutes)	
BypassCriticalXMLValidation	The lower range is 30 and the upper range is 1800. When set to TRUE will bypass xml response validation against schema.	Boolean
	The default setting is TRUE.	
	Note: The default setting was changed from 'false to true in build 5.1.0937	
CHICertificatPath	Sets the default filepath location of	String

CHIProcessDeceased CHIWebServiceURL CloseLogin	the SSL certificate required to access the CHI Webservices If set to True, deceased patients will be processed by the CHIInitial Download service Sets the default URL for the CHI webservices This setting determines whether to show the confirmation before logout	Boolean String Boolean
	Default value is 'False'	
	Added in Build 7.1.1103	
CumulativeDataPoints	This setting has a range between 2 and 10 and a default value of 6	Integer
CumulativeDefaultOrderDesc CumulativeDefaultView	Added in build 6.1.1102 The requested default OrderBy is Descending. If this requires to be changed to Ascending, then set this to FALSE Legitimate values are either 'Dates	Boolean List
	on X-Axis' or 'Dates on Y-Axis'.	
	Dates on X-Axis shows results down the vertical axis and dates along the horizontal axis.	
	Dates on Y-Axis shows results along the horizontal axis and dates down the vertical axis.	
	Default is 'Dates on X-Axis'.	
CumulativeDiscoveredDates	These values were modified in Build 5.0.0913 (Changed from ;A' and 'B' If set to TRUE this setting will override the CumulativeReportDays setting and return all results for the patient being viewed. Default setting is	Boolean
CumulativeEnforceLocalDisplay	FALSE. When set to TRUE shows LOCAL codes – set to FALSE to see BOUNDED List values also.	Boolean
	The default action is TDUE	

The default setting is TRUE.

CumulativeReportDays CumulativeRestrictedDate	This represents the number of days back from todays to be searched against. E.g search range is inclusive from: today – CumulativeReportDays to: today Restricts cumulative reporting to work only on reports dated after this date.	Integer Date / Time
	This has no default setting.	
CumulativeShowDescription	Implemented in build 5.0.0913 The datagrid will show the column / row headers with Codes as default, set as TRUE to show the	Boolean
CumulativeTextLength	description instead. This represents the length of a text result N.B. Not Table results – anything less than or equal to is	Integer
DefaultSessionTimeout	displayed in the grid – anything greater than the value is represented by a notepad icon. Defines the default session timeout in minutes for a users/roles. Who have not had a timeout explicitly set against their user account. This overrides the session timeout set in the web.config.	Integer
	This setting has a range between 5 and 60 (mins and a default value of 20(mins)	
DefaultDocumentsDisplayRange	Implemented in build 4.1.0844 The default Documents Display Range used on the Patient Documents filter. If a user does not have a Documents Display Range configured this default value will be used	List
	Default setting is '30' days	
	Implemented in build 8.1.1201	
DefaultResultsDisplayRange	Allows the System Administrator to set a global value for the 'Processed Range' dropdown on the 'Results' Tab 'Filter By' section on the 'Patient Details' page.	List

	Default setting is '30' days (Default value amended to 30 in build 8.1.1201)	
DocumentSearchLimit	Introduced in Build 6.1.1037 Limits the number of records returned by Document searches	Integer
	Default setting is 1000 Introduced in Build 3.0.0714	
DocumentStylesheetLocation	Defines the folder where the stylesheet files for documents are stored.	String
	Default Setting is 'C:\'	
DocUpload23_UseClinicalIndex Validation	Introduced in Build 6.1.1102 When set to TRUE document metadata will be parsed using the 2_3 schema.	Boolean
DTDFileUploadLimit EbizServer	The default setting is TRUE. Note – the default was amended to True for release 3.0.0647 of Store The maximum filesize (in kilobytes) that can be uploaded using the DTD Interface. The default setting is 5000 Defines where eBiz is running for	Integer String
ECSSchemaValidationFolder	use with WS Subscription Services Defines the location of the folder containing the ECS Schemas, for validation purposes.	String
	The default value is: -	
	"C:\Program Files\SCI\SCIStore\StoreWS\Sche mas"	
	Added in build 8.0.1104	
ECSSchemaValidationV1	Applies inbound schema validation to the version 1 ECS XML files.	Boolean
	The default setting is 'False'.	

ECSSchemaValidationV2	Added in build 8.0.1104 Applies inbound schema validation to the version 2 ECS XML files.	Boolean
	The default setting is 'False'.	
ECSSchemaValidationV3	Added in build 8.0.1104 Applies inbound schema validation to the version 3 ECS XML files.	Boolean
	The default setting is 'True'.	
ECSWSOutboundSchemaValida tionV10	Added in build 8.0.1104 Enable outbound web service validation for the ECS Schema Version 1.0 (all WS versions).	Boolean
	The default setting is 'False'	
	Added – Build 8.1.1201	
ECSWSOutboundSchemaValida tionV20	Enable outbound web service validation for the ECS Schema Version 2.0 (all WS versions).	Boolean
	The default setting is 'False'	
	Added – Build 8.1.1201	
ECSWSOutboundSchemaValida tionV21	Enable outbound web service validation for the ECS Schema Version 2.1 (all WS versions).	Boolean
	The default setting is 'False'	
	Added – Build 8.1.1201	
ECSWSOutboundSchemaValida tionV30	Enable outbound web service validation for the ECS Schema Version 3.0 (all WS versions).	Boolean
	The default setting is 'False'	
	Added – Build 8.1.1201	
ECSWSOutboundSchemaValida tionV31	Enable outbound web service validation for the ECS Schema Version 3.1 (all WS versions).	Boolean
	The default setting is 'False'	

EnableAutomaticIAMUserProvis ioning	Controls whether the consumption of IAM requests allows automatic provisioning of users or whether it is the responsibility of the local admin to finalise user creation.	Boolean
	Default setting is 'False'	
EnableSecurityLogging	Implemented in build 5.0.0913 for IAMS user management functionality. This setting enables the logging of security issues found in Store. This will log when data restrictions are not being applied.	Boolean
	Default Setting is 'False'	
	Implemented in Build 6.0.1001 – for use of testing for errors in the security related stored procedures.	
EnableWindowsServiceDBMonit or	This setting will enable a db connection monitor in the windows service. The purpose of this monitor is to check the db connection at regular intervals and stop the windows services tasks until a connection is re-established.	Boolean
ExceptionManagementSearchLi mit	The default setting is 'False' Introduced in Build 5.0.0909 Limits the number of records returned by Exception Management searches	Integer
FindDocumentsSortOrder	Default value of 1000 Introduced in Build 3.0.0714 Allows the System Administrator to define a default sort order for Find Documents search results	List
	Ascending or Descending order can be set for individual columns.	
FindPatientsSortOrder	Implemented in Build 5.1.0929 Allows the System Administrator to	List

Added – Build 8.2.1202

	define a default sort order for Find Patients search results.	
	Ascending or Descending order can be set for individual columns.	
	Implemented in Build 5.0.0909	
FindResultsSortOrder	'Deceased Ascending' and 'Deceased Descending' added in build 6.0.1009. Allows the System Administrator to define a default sort order for Find Results search results	List
	Ascending or Descending order can be set for individual columns.	
	Implemented in Build 5.0.0909	
FindPatientMaxRequests	This defines the maximum number of locations that can be requested for the FindPatient and Locate Patient web methods.	Integer
	Range between 1 and 20	
	Default value – 5	
	Implemented in Build 8.3.1301	
GetPatientsDocumentListMaxRe quests	This defines the maximum number of patients that can be requested for the 'GetPatientsDocumentList' web method.	Integer
	Range between 1 and 20	
	Default value – 5	
	Implemented in Build 8.3.1301	
GetPatientsResultListMaxReque sts	This defines the maximum number of patients that can be requested for the 'GetPatientsResultList' web method.	Integer
	Range between 1 and 20	

	Default value – 5	
	Implemented in Build 8.3.1301	
InsertACSC InterfaceStatusViewState	Disables/enable CHI registration functionality This setting controls which interfaces are displayed by their status on the homepage interface admin tab and the services menu.	Boolean List
	There are 3 possible settings: - 'View All', 'Status On Only' and 'Status Off Only'	
	The default for this setting is 'View All'	
LabelPrintTemplateName	Implemented in build 4.1.0844 Defines the name of the Template to be used when printing multiple labels. This has a default value of 'SCI_Patient'.	String
LastAccessesCount	Implemented in Build 4.1.0823. While displaying Last Accesses Summary for Patients/Documents/Results, restricts the Last Accesses Summary displayed to the last x users	Integer
	Default value of 5	
	Allowable range between 3 and 8	
LoginMessage	Implemented in Build 6.0.1033 Allows a message to be displayed on the login screen for all users	String
MaximumDuplicatePatients	Replaced former RegistrySetting of the same name in Build 3.0.0708 Determines the maximum number of patients allowed to be flagged as duplicate at any one time by a user	Integer
MaintenancePlan	The default for this setting is '5' Disables/Enables scheduler and maintenance plans	Boolean

NameChangeIndicator	Default Value = 'False' Added Build 7.1.1103. Defines the criteria to be used when determining if a patient has had a name change.	List
	Has a default value of 'Title, Givenname, Familyname'	
NSEnableEventCreation	Replaced the 'AllowNameChangedIndicator' System setting in Build 4.1.0832 Enables\Disables the generation of notification events.	Boolean
	Default Value = 'False'	
	This was added in build 8.0.1104 and replaced the 'AllowSubscribers' setting.	
NSGenerateForNational	Determines whether to generate notifications based on Read/National code descriptions. When set to True notifications will be created when either the Local or the Mapped descriptions match a subscription.	Boolean
	The default setting is set to 'False'	
NSGeneratePatientEvents	Implemented in Build 4.1.0838 Determines whether Patient Events in Notification Services should be created.	Boolean
	The default setting is 'False'	
	Implemented in Build 4.1.0829	
NSGenerateResultInvestigation Events	Note: The default value was amended from 'True' to 'False' in Build 5.1.0937 Determines whether Investigation level Result Events in Notification Services should be created.	Boolean
	The default setting is 'Ealse'	

The default setting is 'False'

	Implemented in Build 4.1.0829	
NSGenerateResultMasterEvents	Note: The default value was amended from 'True' to 'False' in Build 5.1.0937 Determines whether Result Events in Notification Services should be created.	Boolean
	The default setting is 'False'	
	Implemented in Build 4.1.0829	
NSGenerateTreatmentLogEvent s	Note: The default value was amended from 'True' to 'False' in Build 5.1.0937 This setting controls whether or not to create Treatment Log Notification Services events when processing a Treatment Log file.	Boolean
	The default setting is 'True'	
NSManagementAmberEventCou nt	Implemented in Build 5.1.0937 The number of unprocessed NS Events that must exist before an amber light is shown in the management console.	Integer
	Default Value of 500	
	Range between 100 and 10000	
NSManagementAmberEventMin utes	Implemented in Build 8.0.1104 The time in minutes since the last event was processed before an amber light is shown in the management console.	Integer
	Default Value of 10	
	Range between 1 and 100	
NSManagementDataCacheTime	Implemented in Build 8.0.1104 The time in minutes that the Notification Services Management data will be held in cache.	Integer
	Default Value of 5	

	Range between 1 and 30	
NSManagementRedEventCount	Implemented in Build 8.0.1104 The number of unprocessed NS Events that must exist before a red light is shown in the management console.	Integer
	Default Value of 1000	
	Range between 100 and 20000	
NSManagementRedEventMinute s	Implemented in Build 8.0.1104 The time in minutes since the last event was processed before a red light is shown in the management console.	Integer
	Default Value of 15	
	Range between 1 and 250	
	Implemented in Build 8.0.1104	
NSMinsSinceConsumptionAmb er	The number of minutes since the last notification consumption that will result in an amber light in the management console.	Integer
	Default Value of 10	
	Range between 1 and 100	
	Implemented in Build 8.0.1104	
NSMinsSinceConsumptionRed	The number of minutes since the last notification consumption that will result in a red light in the management console.	Integer
	Default Value of 15	
	Range between 1 and 250	
	Implemented in Build 8.0.1104	
NSSubscriptionSearchLimit	Limits the number of records returned by subscription searches.	Integer
	The default setting is 1000	

	Implemented in Build 8.0.1104	
NSUnConsumedAmber	The number of unconsumed notifications for a user that will result in an amber light in the management console.	Integer
	Default Value of 100	
	Range between 1 and 1000	
	Implemented in Build 8.0.1104	
NSUnConsumedRed	The number of unconsumed notifications for a user that will result in a red light in the management console.	Integer
	Default Value of 200	
	Range between 1 and 1000	
	Implemented in Build 8.0.1104	
NumberUserNotes	Defines the number of notes displayed on the Document metadata screen.	Integer
OrphanDocumentsOver	The default setting is 3. Sets the number of days that is used as the search criteria in the Orphan documents search screen – e.g. if 10 is entered the search will look for documents that are	Integer
PandemicOutbreak	over 10 days old. ECS Pandemic outbreak flag, setting to true removes all data view restrictions from ECS	Boolean
	The default setting is 'False'	
PasswordExpiry	Implemented in Build 5.0.0905 Globally sets how long passwords are valid before they expire.	Integer
	Default value of 30	
	Range between 1 and 90	

	Revised implementation in build 6.1.1042	
PatientSearchLimit	Limits the number of records returned by Patient searches.	Integer
PersistEbiz	Default value of 1000 Introduced in Build 3.0.0714 Disables/enables eBiz Audit functionality. If set to True, messages that did not get into a e- biz queue can be sent via the front end.	Boolean
PrintPreviewMessage	Message displayed in Print Preview header	String
RecentCreatedRangeDays	Defines the number of days that the recently created views will attempt to return. See administrator manual for details.	Integer
	Default value of 30	
	Range between 1 and 250	
	Added in build 8.5.1501	
RecentViewRangeDays	Defines the number of days that the Recently Viewed tabs on the Homepage will return when selected. Currently only implemented against the Recently Viewed Patients tab.	Integer
	Default value of 30	
	Range between 1 and 250	
	Added in build 8.2.1202	
RestrictLocalAdmin	When set to true the local admin user will only be able to perform minimal admin for	Boolean
ResultDays	Determines a value to be used to populate the 'Processed In The Last' filter on the 'Results Tab' on the 'Patient Details' screen.	Integer
	Has no default value and will accept only Integer values in the Range 1 – 999.	

	When created, the 'Processed In The Last' filter will be pre- populated with the value of the System Setting and the associated drop down list will be pre- populated with a value of 'Days'	
ResultDisplay	Implemented in Build 4.1.0823. Disables/enables test reports grouped by sample	List
	Available Values are : - 'Group by sample' and 'Ungroup by sample' Default is 'Group by sample'	
ResultMappingMethod	This setting controls how ResultSet and Test Result mappings are processed in the system. The Administrator will have the option to stop incoming reports from entering the system by generating an exception (legacy mechanism) or auditing the failure to audit tables in order to allow the failure to be resolved later using a mapping audit report.	List
	There are 2 available settings: -	
	AuditMapping – files are parsed and 'set' and 'test' mapping failures are audited to the database. CreateExceptions - Create parse exception when mapping fails for result sets and test results.	
	The default setting is : CreateExceptions	
SearchSecondaryProvider	This determines default data source search order for Web Service 2.3 find patient. If set to TRUE then a search will be made to Local database, If no Local records returned CHI will be searched (if configured) - Setting to FALSE will search Local only.	Boolean
	Implemented in Build 3.0.0644	

List

### ServiceProcessMode

Note: Description changed to above in Build 3.1.0735 This setting controls how Store service tasks are processed in the system. This is currently to be used for TESTING only and should not be implemented unless approved by SCI Store implementation.

The setting values are as follows: -

*'All tasks in one thread (including planned maintenance)'* – all tasks including planned maintenance will be run in a single thread.

*'All service tasks in one thread – planned maintenance in a separate thread'* - all service tasks will be run in one thread. The planned maintenance task will be run in a separate thread.

**'Tasks will run in separate thread based on task type (Parser type included fileupload and doctodb)'** service tasks are run in separate threads based on 'task' type. File upload and doc to db will run in same thread.

### **'Tasks will run in separate thread based on task type (Separate thread for fileuploadparser and doctodb)'** service tasks are run in separate threads based on 'task' type. File upload and doc to db will run in separate threads. This setting sets the sleep time for the windows service (in seconds).

Integer

Default value – 10 seconds

Range between 10 and 100

Added Build 7.1.1103

ServiceTimerInterval

SetUserQuestions	Forces new users to register	Boolean
ShowAllContacts	password reset questions When set to TRUE all administrator contact details will be shown for users. Disables/enables Anonymous Patient Search functionality.	Boolean
ShowAnonymous		Boolean
	Note: This enables the visibility of the anonymous search checkbox on the 'Find Patient' screen – which allows the user to search for NASH patient details.	
	This is used to globally enable/disable all users from seeing the 'Anonymous Search' checkbox. It should be noted that it works in tandem with the 'View Anonymous Patients' module permission – which is granted on an individual basis to users.	
ShowDeceasedIndicator	Allows administrators to configure the display of the 'Deceased' column when the 'Find Patient' search screen results are displayed.	Boolean
	When set to 'True' the column will be displayed. When set to 'False' it will not be displayed.	
	The default setting is 'True'.	
ShowLabelPrintButton	Implemented in build 6.0.1013 of Store. When set to TRUE will show the PrintLabel button on the Patient Details form.	Boolean
ShowRemoteDataSources	The default setting is FALSE. Disables/enables Remote Data Source functionality.	Boolean
ShowServiceName	Note: The default setting was revised to 'True' in build 6.0.0949 Shows the 'Service Name' column	Boolean

	on the patient details demographic tabs.	
	The default setting is 'False'	
	Note: - this System setting works globally, but individual users must be granted the 'Show Service Name Column' module permission from the 'Patient' category section of the Module Permissions screen. Before the 'Service Name' column will be visible.	
SystemNameSCI	Implemented in Build 5.0.0909 SCI Store identifier. The value of this setting is displayed on the login screen and in the menu bar in the application.	String
SystemMessageBody SystemIdentifier	The default Setting is 'SCI Store'. Message displayed on homepage Identifies the location of Store e.g. PJSSCI6	String String
UnmergeAll	Permits/prevents the unmerging of external merge transactions (e.g. from COMPAS)	Boolean
WebserviceTokenTimeout	This setting sets the timeout value for the SCI Store Web Services (in minutes).	Integer
	Default value – 10 mins	
	Range between 5 and 30 mins	

Added Build 7.1.1103

### SCI Store Clean-up Processes

The following table details clean-up processes that must be setup and run manually by an administrator.

Process	Details
Close Interrupted User Sessions	<b>Description</b> This process closes user login sessions that were not closed correctly. It processes sessions in batches (oldest first) where the session is older than 5 hours without any activity. It runs until all records have been processed.
	The batch size avoids large transactions on the appropriate tables.
	Details A stored procedure exists in the database "s_UserSessions_CloseInterrupted"
	This procedure closes all open session (status = 6) where the session has been open for over 5 hours with no activity.
	This procedure requires the following parameters.
	@BatchSize int,
	Schedule the running of the procedure with appropriate parameters at a suitable time.
Remove redundant open webtokens	<b>Description</b> This process deletes webservice tokens that were not deleted through the logout web method. It deletes tokens older than x minutes (oldest first) in batches. It runs until all records have been processed.
	The batch size avoids large transactions on the appropriate tables.
	<b>Details</b> A stored procedure exists in the database "s14_WebTokensMaintain"
	This procedure requires the following parameters.
	<ul><li>@BatchSize int,</li><li>@AgeToDeleteMins int</li></ul>
	Schedule the running of the procedure with appropriate parameters at a suitable time.

### SCI Store SysEng System Settings

The following list summarises the non user-configurable system settings available for SCI Store – i.e. these are 'hidden' from the user view and should only be configured by SCI Store Support Team members.

Setting Name	Value	Data Type
DBTransIsolationLevel ReadUncommitted	Implements dirty read or isolation level 0 locking which means that no shared locks are issued and no exclusive locks are honoured. This is the least restrictive of the four isolation levels.	Boolean
DefaultCacheEnabled	Specifies whether the default cache is enabled. This turn on/off the object cache mechanism globally	Boolean
	Default Value = True	
	This was introduced in Build 8.5.1501	
DefaultCacheProvider	Used to retrieve the default cache used by the cache framework.	String
	Default setting – MemoryCache	
	This was introduced in Build 8.5.1501	
DefaultSessionTimeout	Defines the default session timeout for a user. This overrides the session timeout set in the web.config	Integer
	The range is between 5 and 60 mins with a default of 20 mins	
	This was introduced in Build 4.1.0835	
DevelopmentOnly	Used by developers to assist development process.	Boolean
	Note: the name of this setting	

	was changed from 'Enable22' in build 4.1.0844.	
ECSClientCertificatesC acheDurationInMinutes	Defines the number of minutes that the ECS client certificates list will be cached before they are reloaded. See administrator manual for details.	Integer
	The range is between 1 and 100 mins with a default of 10 mins	
	This was introduced in Build 8.5.1501	
ECSClientCertificatesV alidationMode	Defines where ECS will look to load the client certificates for WCF web services. 1 = WebConfig 2 = Database Table.	List
	The default setting is 1	
	This was introduced in Build 8.5.1501	
ECSLocationMode	This setting determines the area where ECS is installed. It will therefore change CHI text labels accordingly.	List
	The available values are: -	
	Scotland, Northern Ireland.	
	Implemented in build 6.1.1042	
IDFormatCacheDuratio nInMinutes	This defines the number of minutes an IDFormat object is cached for before it is reloaded.	Integer
	The range is between 1 and 1000 with a default of 120 mins	
	This was introduced in Build 8.5.1501	
LocalPatientMatchingC acheDurationInMinutes	This defines the number of minutes a patient matching object is cached for before it is reloaded.	Integer

	The range is between 1 and 1000 with a default of 120 mins	
NationalCodesSchemel dCacheDurationInMinut es	This was introduced in Build 8.5.1501 This defines the number of minutes NationalCodesSchemeld value is cached for before it is reloaded.	Integer
	The range is between 1 and 1000 with a default of 120 mins	
	This was introduced in Build 8.5.1501	
PatientMasterCacheDur ationInSeconds	This defines the number of seconds a PatientMaster object is cached for before it is reloaded.	Integer
	The range is between 1 and 10000 with a default of 600 mins	
	This was introduced in Build 8.5.1501	
UserCacheDurationInS econds	This defines the number of seconds a user object in web services is cached for before it is reloaded.	Integer
	The range is between 1 and 10000 with a default of 600 mins	
	This was introduced in Build 8.5.1501	
Version_no	Holds the current version number of Store. This is loaded by the database create / upgrade scripts.	String
WebSessionTokenCac heDurationInSeconds	This defines the number of seconds a web service token object is cached for before it is reloaded.	Integer

The range is between 1 and 10000 with a default of 600 mins

This was introduced in Build 8.5.1501

# **Appendix B: Module Permissions**

Below is a list of all module permissions available in SCI Store/ECS

Category	Display Name	Detailed Description
Patient	Find and View Patients	Allow access to the Find Patient Search and Patient Details Screen. Also controls to the FindPatient and GetPatient Web Services
Patient	View Patient ECS Details	Allow user to view the patient ECS tab
Patient	View Patient Telecoms	Allows user to view the patient telecoms tab in the front end
Patient	View Patient Treeview	Allows user to view the patient treeview tab in the front end
Patient	View Patient Names	Allows user to view patient names tab in the front end
Patient	View Patient ADTs	Allows user to view patient Admission, Discharge and Transfers. Alos controls access to FindADT and GetADT Web Services
Patient	View Patient Addresses	Allow user to view patient addresses tab in the front end
Patient	View Patient History	Allow user to view the patient update history
Patient	View Patient IDs	Allows user to view the patients IDs tab in the front end
Patient	Find on CHI - Save to Store	Allow user to save details retrieved from the Find on CHI search into the local Store and to refresh patient demographics from CHI.
Patient	Find on CHI - Test Match	Allow user to perform a test patient match on patient details retrieved from the CHI search
Patient	Maintain Patient Consent	Allow user to change the Consent flag for a patient
Patient	Break Glass	Allow user to Breakglass to override the patient consent flag. This also allows the user to Breakglass via the Web Services
Patient	Point in Time View	Allow user to see a point in time view of a patient
Patient	View Anonymous Patients	Allow user to view anonymous patients (i.e. patients added via NASH)
Patient	Show Service Name Column	Shows the service name of the Service that added/amended the demographics details
Patient	Flag Duplicate Patients	Allows a user to flag a patient as being a duplicate

Patient	Search Duplicate Patient	Allows a user to search duplicate patient requests
Patient	Requests Process Duplicate Patient	Allows a user to process / action duplicate patient requests
Patient	Requests Manual Document	Allows a user upload documents against a patient from the SCI Store web front-end.
Patient	Upload View UCPN	Allows a user to view the UCPN tab on the patient details page
Results	Find Result Search	Allow access to the Find Result search. Also controls access to the FindResult Web Service.
Results	View Results	Allow user to view Patient Results
Results	View Results History	Allows user to view historical versions of a result report
Results	View and Add Result Notes	Allow user to view and add result notes
Results	Cumulative Report	Allow access to the Cumulative Report page
Results	Cumulative Report Profile Templates	Allow the user to use the Report Profile Templates on the Cumulative Report screen
Results	Ad Hoc Cumulative Report	Allows access to the Ad Hoc Cumulative Report page
Results	Recently Requested	Allows a user to set up a list of healthcare professionals in Requestor Groups and view a list of results requested
Documents	Results Find Document	by those Requestor Groups. Allow access to the Find Document search. Also controls access to the FindDocument, GetDocument and
Documents	Search View Documents	GetDocumentStylesheet Web Services Allow user to search for and view documents. Also controls access to the document notes and audit pages
Documents	Retire Document	Allow user to retire documents
Configuration	Maintain User Questions	Allow user to Maintain their user security questions. If the user is an administrator this will also allow them to edit
Configuration	Code Scheme Configuration	other users questions Allow access to the Mapping Audit Report, Scheme Code Maintenance and Manage Scheme Code Pages
Configuration	Code Scheme Group	Allow access to the Scheme Group Definition and Maintenance Pages
Configuration	Configuration View User Customisation Page	Allow user to view the user customisation page

Configuration	View and Edit System	Allows user to view and edit the system settings
Configuration	Settings Add/Edit Scheme and Code	Allows user to add and edit scheme code mappings
Configuration	Mappings Store Interface Configuration	Allow access to the interface definition and amendment screens
Configuration	Patient Matching Rule	Allow user to configure patient matching rules
Configuration	Configuration ID Format Configuration	Allow user to configure ID Format rules
Configuration	Break Glass Maintenance	Allow user to create and amend Breakglass Types. Allows web service user access to GetBreakGlassTypes Web Service
Configuration	Cumulative Sources	Allow user to create and amend interface groupings for Cumulative Reports
Configuration	Configuration GUID Stylesheet Association	Allows access to the GUID Stylesheet association pages.
Security	Maintenance User Configuration	Covers user configuration, User Questions, Password Reset, User History, User Results History, User Document History and View Permissions
Security	Add User	Allow user to create new User accounts
Security	Update User	Allow user to update existing user accounts
Security	Delete User	Allow user to delete existing user accounts
Security	Change Password	Allow users to change their password
Security	Data Restrictions Configuration	Allow user to configure Data Restrictions
Security	Permission Group Configuration	Allow access to the Permission Group Configuration pages
Security	Field Permissions Configuration	Allow user to configure Field Permissions

Security	Module Permissions Configuration	Allow user to configure Module Permissions. Also allows user to create and amend Module Permission Templates
Security	Remote Data Source User Configuration	Allow user to set user access to Remote Data Sources
Security	Base Location Configuration	Allow user to configure Base Locations
Security	User Session Admin	Allow access to the User Session Admin page
Security	Role Configuration	Allow access to the Role Administration page
Security	Timed Access Template Configuration	Allow access to the Timed Access Template configuration page
Security	Administration Password Common	Allows a user to set up a list of words which are not allowed in passwords
Reporting and Auditing	Words Break Glass Summary	Allow access to the Breakglass Summary page
Reporting and Auditing	Break Glass Search	Allow access to the Breakglass search and Breakglass details pages. Also controls access to the BreakglassAudit Web Service
Reporting and Auditing	ECS Missing Files Report	Allow access to the ECS Missing Files Report
Reporting and Auditing	ECS Practice Files Report	Allow access to the ECS Practice Files Report
Reporting and Auditing	EBIZ Audit	Allow access to the EBIZ Audit functionality
Reporting and Auditing	ECS Access Report	Allow access to the ECS Access Report functionality
Reporting and Auditing	Document Audit Report	Allow access to the Document Audit report page
Reporting and Auditing	Maintain Patient Audit	Allow access to the Maintain Patient Audit page. Also controls access to the FindPatientConsentAudit Web Service

Reporting and Auditing	Notification Services Subscription	Allow access to the Notification Services Subscription Manager
Reporting and Auditing	Manager Notification Services	Allow access to the Notification Services Message Audit page
Reporting and Auditing	Message Audit Patient Search Audit	Allow access to the Patient Search Audit page
Reporting and Auditing	Patient Information Status Audit	Allows access to the Patient Information Status Audit Report Page.
Reporting and Auditing	Report ECS Cross Border Report	Allow access to the ECS Cross Border Report
Reporting and Auditing	ECS Report Selection	Allow access to the ECS Weekly, Monthly and Annual Report screen
Reporting and Auditing	ECS Admin Access Report	Allow access to the ECS Admin Access Report
Reporting and Auditing	Organisation Test Report	Allow access to the Organisation Test Report page
Reporting and Auditing	Report Profiles Configuration	Allow user to create/amend/delete Lab Report Profiles
Reporting and Auditing	ECS GP Consent Audit Report	Allow access to the ECS GP Consent Audit page
Reporting and Auditing	Locked User Account Audit Report	Allow access to the Locked User Account Audit page
Reporting and Auditing	Failed Login Audit Report	Allow access to the Failed Login Audit page
Reporting and Auditing	Casual Browser Audit Report	Allow access to the Casual Browser Audit page
Reporting and Auditing	Extended Login Audit Report	Allow access to the Extended Login Audit page
Reporting and Auditing	View Statistics	Allow access to the statistic pages. This includes Patient Statistics, Result Statistics, User Statistics and Interface
Reporting and Auditing	View Audit Report	Allow access to the user Audit Report
Reporting and Auditing	View User Audit on Patient and Result Pages	Allow user to view user audit information on the Patient and Results pages

Reporting and Auditing	ECS Outbound Schema Validation	Allows access to the ECS outbound schema validation report
Web Services	Report Remote Data Source Configuration	Allow user to configure Remote Data Sources
Web Services	Provider Save to Store	Allow user to save patient details retreived from the CHI system into the local Store
Web Services	Notification Access	Allow user to Create/Amend/Delete subscriptions and Get Notifications
Web Services	Generic Data Access	Allow access to the FindHCP, GetHCP and GetInterfaceStatus Web services
Web Services	Message Queue Access	Allow access to the MessageQueueCount, MessageQueuePeek, and MessageQueueDelete Web Services
Exceptions Management	Uploaded Files	Allow access to the Uploaded Files exceptions management functionality
Exceptions Management	Parsed Files	Allow access to the Parsed Files exceptions management functionality
Exceptions Management	Document to Database Search	Allow access to the Document Upload exceptions management functionality
Exceptions Management	ACSC Registration Search	Allow access to the ACSC Registration search page
Exceptions Management	View the Store Parse Log	Allow user to view the store parse log
Store Maintenance	Find Merges Search	Allow access to the Find Merges search. Also allows access to the Find Merges Web Service
Store Maintenance	Find and Merge Duplicate Patients	Allows a user to search for and merge duplicate patients. Also controls access to the MergePatient and UnmergePatient Web Services
Store Maintenance	Maintenance Plan Configuration	Allow access to the Store Maintenance Functionality
Store Maintenance	Orphan Document Clean-up	Allow access to the Orphan Document Cleanup page

Store Maintenance	Job Type and Login Reason Maintenance	Allow user ability to create and amend the list of Job Types and Login Reasons
Store Maintenance	Patient Information Status Maintenance	Allows a user to search for a patient and update the status on patient result reports and certain demographic items.
Store Maintenance	Search Duplicate patient Requests	Allows a user to search on duplicate patient requests
Store Maintenance	Process Duplicate Patient Requests	Allows a user to process / action duplicate patient requests
Treatment Log	Action treatment logs	Allows a user to perform updates on outstanding Treatment Logs via the web application
Treatment Log	Find and View Treatment Logs	Allows a user to search for and view Treatment Log entries via the web application. Also controls access to FindTreatmentLog and GetTreatmentLog Web Services.

## **Appendix C: SCI Store Performance Counters**

The following table details the performance counters available in the system. These counters can be used to query and log the ongoing performance of particular areas of the application.

Counter Name	Functionality
"# active windows service tasks"	This counter will signify the current number of threads that the windows service is currently running with.
"# total upload actions performed by windows service"	This will count the total number of "file upload" actions the windows service has performed since the windows services was started
"# total split actions performed by windows service"	This will count the total number of "file split" actions the windows service has performed since the windows services was started
"# total parse actions performed by windows service"	This will count the total number of "file parse" actions the windows service has performed since the windows services was started
"# total non functional actions performed by windows service"	This will count the total number of "non functional" actions the windows service has performed since the windows services was started.
	Non functional services are services that have been deprecated from the system but the code still tries to execute the service. This counter is there for debug purposes only.
"# total Document Upload actions performed by windows service"	This will count the total number of "document upload" actions the windows service has performed since the windows services was started
"# service uploaded files/sec"	This will detail the number of actions per second for "file upload" actions the windows service has performed since the windows services was started
"# service split files/sec"	This will detail the number of actions per second for "file split" actions the windows service has performed since the windows services was started
"# service parsed files/sec"	This will detail the number of actions per second for "file parse" actions the windows service has performed since the windows services was started
"# service documents uploaded and parsed/sec"	This will detail the number of actions per

"# service upload files average time"	second for "document upload" actions the windows service has performed since the windows services was started This will detail the average time in seconds that it takes to perform a "file upload" action. This value is calculated
"# service split files average time"	since the windows services was started This will detail the average time in seconds that it takes to perform a "file split" action. This value is calculated
"# service parsed files average time"	since the windows services was started This will detail the average time in seconds that it takes to perform a "file parse" action. This value is calculated
"# service document upload average time"	since the windows services was started This will detail the average time in seconds that it takes to perform a "document upload" action. This value is
"# Average time (secs) for last 100 Compas records"	calculated since the windows services was started This will detail the average time in seconds that it takes to perform the last 100 Compas records
"# Average time (secs) for last 100 Homer records"	Note: This is an advanced counter and will only be updated calculated every x minutes if the AdvancedCounterStatsInterval system setting has a non zero value. This will detail the average time in seconds that it takes to perform the last 100 Homer records
"# Average time (secs) for last 100 iLab records"	Note: This is an advanced counter and will only be updated calculated every x minutes if the AdvancedCounterStatsInterval system setting has a non zero value. This will detail the average time in seconds that it takes to perform the last 100 iLab records
"# Average time (secs) for last 100 MasterLab records"	Note: This is an advanced counter and will only be updated calculated every x minutes if the AdvancedCounterStatsInterval system setting has a non zero value. This will detail the average time in seconds that it takes to perform the last 100 MasterLab records

"# Average time (secs) for last 100 Medipath records"	Note: This is an advanced counter and will only be updated calculated every x minutes if the AdvancedCounterStatsInterval system setting has a non zero value. This will detail the average time in seconds that it takes to perform the last 100 Medipath records
"# Average time (secs) for last 100 Telepath records"	Note: This is an advanced counter and will only be updated calculated every x minutes if the AdvancedCounterStatsInterval system setting has a non zero value. This will detail the average time in seconds that it takes to perform the last 100 Telepath records
"# Average time (secs) for last 100 XML41 records"	Note: This is an advanced counter and will only be updated calculated every x minutes if the AdvancedCounterStatsInterval system setting has a non zero value. This will detail the average time in seconds that it takes to perform the last 100 XML41 records
"# Average time (secs) for last 100 XML60 records"	Note: This is an advanced counter and will only be updated calculated every x minutes if the AdvancedCounterStatsInterval system setting has a non zero value. This will detail the average time in seconds that it takes to perform the last 100 XML60 records
	Note: This is an advanced counter and will only be updated calculated every x minutes if the AdvancedCounterStatsInterval system setting has a non zero value.

## Appendix D: SCI Store Direct Page Access

The following table give details of pages that will support bookmarks or direct page access.

Note: If the user is not currently logged in then they will be prompted to login prior to being redirected to the selected page. In order to use these pages an understanding of the URL format is required

In the pages highlighted below the examples give a sample path to SCI Store as <u>http://StoreURL/StoreWeb/</u>. Replace this with the actual path for the desired instance of Store.

Page Name	Functionality
HomePage	Default path: http://StoreURL/StoreWeb/ Restricted/Home/home.aspx
Find Patient	Default path: http://StoreURL/StoreWeb/Restricted/patient/findpatient.aspx?patientidenti fier=1234567890
Patient Details	Using a querystring on patientIdentifier performs an identifier search across the patient repository. If a single patient is found with this identifier then an automatic redirect is performed to the patient details page for that patient. If more than one instance is found then the findPatient form is presented with all patients with that identifier. This allows the user to select the correct patient. Default path: http://StoreURL/StoreWeb/ Restricted/Patient/PatientDetails.aspx?ClassIdx=141 ClassIdx = Internal patientid This will automatically display full details for a patient with the specified internal id via the querystring.
Find Result	Note: Only implement when internal id's are not liable to change. Default path: http://StoreURL/StoreWeb/Restricted/results/findresult.aspx
	This will display the findresult form
Find Documents	Default path: http://StoreURL/StoreWeb/Restricted/results/findresult.aspx This will display the finddocument form

# **Appendix E: Security Settings**

### **Encrypting Web.Config**

The web.config can sometime contain sensitive information that if exposed would be a security risk. This file should not be available to non admins but there is the potential that someone may have direct access to the file inadvertently.

The following section provides a recommended method of encrypting these setting to ensure that if someone got access to the web.config they would not be able to determine the real values for this sensitive data.

Examples of where sensitive information is in the web.config

- Document upload requires impersonation that has a user id and password in clear text
- Gateway recipient web services has various settings that expose user id and passwords

The utility within the .Net framework that provide this functionality is:-

#### aspnet\_regiis.exe

It resides in the .net framework directory. For V2.0 of the framework this is

#### C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727

When running this utility you should setup a batch file so that this directory is included in the dos path to allow easier access.

This utility will allow various setting to be applied. For the purpose of this document only the ability to encrypt and decrypt a section of the web.config will be discussed.

Note: This utility is provided as part of the .Net framework. When a section is encrypted the application does not require to be modified. The methods within the application that access these values will automatically decrypt them without any coding by the developer.

Before we run the utility we need to establish certain aspect on what we want to do:-

- a) Ensure that the user running the utility is a local administrator
- b) Ensure that the web.config is read/write before attempting to apply the encryption.
- c) Decide on what section of the web.config we want to encrypt/decrypt.
- d) Decide on which of the two command line parameters for encryption/decryption that we will use
- e) Decide on what type of encryption to apply

#### Ensure the user running the utility is a local administrator

This utility is a command line utility that can only be run by a local machine administrator on the machine where the web.config resides. Ensure that you have local admin rights prior to running the utility.

#### Ensure the Web.Config is read write

The aspnet\_regiis.exe utility will modify the web.config when encrypting/decryping the specified section. Ensure that the file can be modified (is not read only).

#### Decide on what section to encrypt/decrypt

The section that is to be encrypted / decrypted must already exist in the web.config before running the utility. Ensure that this is available and that the path to the section is known. This is generally an xpath command that is specified relative to the configuration node.

The layout of a web.config can vary. An cut down example of this layout is as follows:-

```
<?xml version="1.0"?>
<configuration>
<configSections>
.....
</configSections>
<appSettings>
.....
</appSettings>
<system.web>
<identity />
</system.web>
</configuration>
```

Here we see that the root node is <configuration>. Under the root node there are other nodes <configSections> and <system.web>.

The format and layout of a web.config will vary for each application. A node with the same name may appear at various locations in the hierarchy. What is important is to understand that each node is a potential section that can be encrypted and where it appears in the hierarchy of the web.config file.

When deciding what section to encrypt we must determine the correct reference. (the reference does not include the configuration node as this is the root node).

If we wanted to encrypt the <appSettings> section above the reference would be "appSettings".

If we wanted to encrypt the <identity> section above the reference would be "system.web/identity"

#### Decide on what command line parameters to use

There are two methods that will allow a section to be encrypted

a) Specify the path where the web.config files exists

If the encryption parameter is –pef or – pdf then the full path of the directory that contains the web.config file should be specified. The web.config itself should nor be specified. An example is include below

aspnet\_regiis.exe -pef "system.web/identity" "C:\SCI Store\SourceCode\StoreWeb" -prov "DataProtectionConfigurationProvider"

b) Specify the web application name in IIS of the web application.

If the encryption parameter is -pe or - pd then the iis application name should be specified. The utility will use this to determine the location of the web.config. An example is include below

aspnet\_regiis.exe -pe "system.web/identity" -app "/StoreWeb" -prov "DataProtectionConfigurationProvider"

#### Decide on what type of encryption to apply

There are two standard types of encryption to use RSAProtectedConfigurationProvider and DataProtectionConfigurationProvider.

Only DataProtectionConfigurationProvider has been tested in SCI Store and is the only method supported. Ensure that the "-prov DataProtectionConfigurationProvider" parameter is included in the encryption command line to ensure this method is used. If not specified the RSAProtectedConfigurationProvider method will be used as this is the default.

#### Examples of encryption / decrypting a web.config

The following are examples of encrypting the StoreWeb application for the identity impersonate section. Only the specified parameters have been tested and are supported. The section name should be change relative to the requirements.

This example uses the pef and pdf to encrypt and decrypt using full path to the web.config files. The pef is used to encrypt and pdf to decrypt. The –prov is not required when decrypting. In the following examples "system.web/identity" relates to the section in the web.config where we setup identity impersonation. Used in the application for document upload.
"appsettings" is used in the Gateway recipient web services to define settings within the application. This section includes sensitive information. The utility will encrypt the full section.

aspnet\_regiis.exe -pef "system.web/identity" "C:\SCI Store\SourceCode\StoreWeb" -prov "DataProtectionConfigurationProvider"

aspnet\_regiis.exe -pdf "system.web/identity" "C:\SCI Store\SourceCode\StoreWeb"

aspnet\_regiis.exe -pef "appSettings" "C:\SCI Store\SourceCode\RecipientWebServices\SCIStore.RecipientWebServices" prov "DataProtectionConfigurationProvider"

aspnet\_regiis.exe -pdf "appSettings" "C:\SCI Store\SourceCode\RecipientWebServices\SCIStore.RecipientWebServices"

• This example uses the pe and pd to encrypt and decrypt using the iis application name. The pe is used to encrypt and pd to decrypt. The –app is used to specify the application name. This must already be a valid application in iis. The –prov is not required when decrypting.

aspnet\_regiis.exe -pe "system.web/identity" -app "/StoreWeb" -prov "DataProtectionConfigurationProvider"

aspnet\_regiis.exe -pd "system.web/identity" -app "/StoreWeb"

# **Document control**

SCI Store – Administration Guide
8.4
SCI-DPUG-009
Linwood
SCI Store - Administration Guide.doc
Microsoft Office Word 2003
Campbell Roberts
Campbell Roberts
Final
http://www.sci.scot.nhs.uk/products/store/
Final version for version 8.4.1401 of SCI Store