

SCI Store

Installation & Configuration Guide Clinical Documents Interface

For SCI Store Release 8.5

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CHANGE LOG Error!	Bookmark not defined.
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1 Introduction

1.1 Document purpose

SCI Store provides a mechanism whereby clinical documents for a patient may be uploaded, and the uploaded documents may be searched and displayed. Each document is associated with an XML metadata record which identifies the patient and provides patient-document link information. A detailed description of the facilities and options is given.

The purpose of this document is to provide information on how create and use a Service to take a variety of Clinical documents (e.g. Referral and Discharge letters) and automatically upload the documents and attach them to the corresponding patients' records on SCI Store.

1.2 Intended Audience

This document is aimed at SCI Store Administrators who wish to create and manage a SCI Store document upload service, and at Users who wish to make use of the facilities provided by such a service.

1.3 Scope

This document will detail:

- The options to search for, select and view documents are described.
- The facilities to identify and manage exceptions are described.

1.4 References

- Clinical Documents User Guide
- Store Patient Data Matching Reference Guide

2 Clinical document in SCI Store

2.1 Document Sources

Clinical documents may arise from a variety of sources, e.g. Patient Referral Letter, (In-patient) Immediate Discharge and Final Discharge Letters, and (Outpatient) Clinic Letters. They may be supplied in any of the common industry-standard formats, such as Microsoft Word (.doc) or Adobe Acrobat (.pdf), or in a non-proprietary format such as Rich Text Format (.rtf), HTML (.htm, .html) or XML (.xml).

2.2 Document types

Documents in Office Word and PDF formats may have embedded graphics, which will be preserved. It must be recognised that these will substantially increase the size of the documents being stored and may have an adverse effect on system response times and performance. Users need to balance the benefit of graphics against the effect on performance.

Note: Adobe PDF viewer, particularly version 6, is slow to load initially.

RTF documents cannot contain graphics. HTML and XML documents can in theory contain graphics, but in the current implementation of the document upload mechanism these will not be recognised. RTF and HTML documents have their display characteristics (font size, layout etc.) defined when the document is initially produced. XML documents on the other hand have a separate Style sheet which determines how the information is presented, and in principle this can be different for different Users.

2.3 Document storage

There are three options for the storage of documents, and one of these options must be selected when a Service for the upload of documents is created. The options are:

- Saving to a local database
- Saving to a remote database
- Saving to a file server

Saving to a database creates a binary (image) field in a database table; saving to a file server simply creates a copy of the original file. No interpretation of the contents of the document is performed.

2.4 Identifying the Patient, and linking Patient and Document

Details of the patient are not extracted from the document; indeed if the document is itself an Image, it may have no details capable of extraction. Instead, details of the patient and of the document to be uploaded are provided in a XML (eXtensible Markup Language) file. The structure of this file and specific recommendations for its use are given in Section 3.

Definition of a Document Upload Service is described in Section 4. It is the responsibility of the User to deliver the Documents and associated XML metadata files, to designated locations on a server from which the Upload Service may detect and act upon the records. The Upload Service operates in five stages:

- 1 Obtain an XML metadata record and store it on the database
- 2 Parse the XML record and extract the constituent details, storing that on the database
- 3 Using the supplied details, identify and upload the document to the destination defined by the Upload Service (database or file server)
- 4 Using the supplied details, carry out Patient Matching using the rules specified for the Upload Service, identifying an existing patient on SCI Store or (if the Matching rules permit) creating a new patient record. Details of the Healthcare Professionals identified in the XML metadata are also matched against existing information in SCI Store
- 5 Finally, a link is set between the uploaded document and the identified (or new) patient within SCI Store.

Note: At each of these stages, exceptions may occur. The identification and management of exceptions is covered in Section 5.

2.5 Document Revisions

There can only be one "Current" Revision of a document (and there may be none).

2.6 Moving documents to history

In the process of moving a document from "Current" to "History", the document itself is not moved. However, the database search control record relating to this document is moved from a table of "Current" records to a table of "History" records, and appropriate database adjustments are made.

2.7 XML Metadata Record

As previously described, each Document to be uploaded must be accompanied by an XML record containing metadata identifying the patient and providing linking and search criteria for the document. It must be recognised that the content of the documents themselves will not be searchable.

The construction and content of the XML metadata is described in detail in the document "SCI Store Clinical Document Input Requirements User Guide", and examples are given.

3 Document Upload Service Definition

3.1 Creating the Document Upload Service

Each SCI Store site may have a number of clinical document sources and may require to configure a number of Document Upload Services. Services may be configured by the site SCI Store Administrator.

• From the "Configurations" Menu, select "Maintain Services

Home	Find Patient	Find Result Fi	nd Document Find on	CHI				Patie	ent ID:	G
		Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notificatio	ns	
Patients Patients Record Sourc	s Results		tching dministration						User: admin o	

• 4.2.2 On the Service list screen, click "New Service"...

ି ନ୍ଦୁ SC	I Store Pa	isley							My Settings	About Store	Log Out
Home	Find Patient	Find Result F	ind Document	Find on Cl	ні				Patie	ent ID:	Go
		Configuration	Exceptions	Mgmt	Security	Maintenance	Reporting	General	Notificatio	ns	
Home > I	Maintain Interfac	es								User: admin	on PJSSCI
Existi	ng Services										

• From the drop-down list of Service Types, select "DocumentToDatabase"...

	About Store	My Settings						isley	I Store Pa	SC:
:	ID:	Patient				сні	Document Find on C	Find Result Find	Find Patient	ome
		Notifications	General	Reporting	Maintenance	Security	Exceptions Mgmt	Configuration		
er: admin on PJSS	User: admi							es > New Interface	Maintain Interfac	me > N
								v Service Definitio	Nov	
								v service Definitio	Nev	
							~	FileToeBiz	е Туре	Service
								FileToeBiz eBizToStore	e Name	Service
								SCI Gateway	Interval	Pollina
								StoreToeBiz		(secon
								Splitter	ds)	(record
								CompasSocket	1	Status
								CHILookup	Patient	Match F
								FileToDatabase		
								CHIRegistration		
							atabase	DemogFeed Translator Spitter CompasSocket ReferenceData MiSysSocket CHLookup FileToDatabase SpitterFromData TranslatorFromD	Size ds)	(secon Batch S (record Status Match F

 Enter a distinct Name for the Service Name, e.g. "General Medicine Discharge Letters".

Note: "Polling Interval" and "Batch Size" should be set having regard to any other Services which may be running (e.g. Laboratory results reporting). "Polling Interval" determines how long the Service Manager process will wait before again looking to see if there are any documents to upload. "Batch Size" determines how many documents may be uploaded before the Service Manager is released to perform work on another Service. Clearly, too short a "Polling Interval" or too large a "Batch Size" will adversely affect the availability of the Service Manager to carry out other tasks. The values may need to be adjusted to obtain optimum performance overall.

"Status" is by default configured "On", i.e. included in the Service schedule. Setting the "Status" to "Off" will exclude the Document Upload service from the automatic Service schedule.

Note: "Match Patient" determines which set of Patient Matching rules are used to compare the Patient Demographics information supplied in the XML metadata with the existing patients in SCI Store. It cannot be over-emphasised that definition/selection of appropriate patient matching rules is fundamental to the success of SCI Store.

• When all the values have been entered, click "Save" to save the details and to return to the maintain services screen...

St SC	I Store Pa	aisley						My Settings	About Store	Log Out
Home	Find Patient	Find Result Find	Document Find on C	сні				Patier	nt ID:	Go
		Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications		
Home >	Maintain Interfa	ces > New Interface							User: admin	on PJSSCI6
			_							
	Nev	w Service Definiti	on							
Servio	e Type	DocumentToDa	tabase 🗸							
Servio	e Name	New Doc Interfa	ace							
Polling	j Interval	10								
(secor	nds)	10								
Batch (recor		2								
Status		© On	Coff							
Match	Patient	CHI Update	*							
		Exit Save								

Click on the newly-listed Service to open the Amend Service Definition scree

SCI Store Pa	aisley						My Settings	About Store	Log Out
Home Find Patient	Find Result Find	Document Find on (ні				Patie	nt ID:	Go
	Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications		
Home > Maintain Interfac	ces > Amend Interface							User: admin	on PJSSCI6
Am	end Service Defin	ition							
Service ID Service Type Service Name Polling Interval Batch Size	47 DocumentToDatabase New Doc Interface 10 2	DocumentToDataba	se 💙						
Status Match Patient Delete	On Off CHI Update Exit	CHI Update		CHI Demographic	s?	Configure	1		

Click "Configure" to open the "DocumentToDatabase" Service configuration screen.

Sc Sc	I Store Pa	aisley								My Settings	About Store	Log Out
Home	Find Patient	Find Result	Find Do	cument Fin	d on CHI					Pati	ent ID:	Go
		Config	uration	Exception	s Mgmt	Security	Maintenance	Reporting	General	Notifications		
Home > I	Maintain Interfa	ces > Amend I	nterface >	Amend Doc to	DB						User: admin	on PJSSCI6
						Docume	nt To Databas	9				
Docume	nt Source											
Docume	nt Path											
XML Path	h											
Styleshe	et Path											
Docume	nt Extension											
Docume	nt Size Limit	0 kB										
Default F	Patient Consent	No 💙										
Allow Fut Date	ture Attestation	No 💙			Scheme	s And Mappi	ngs:					
Default S	Sensitivity	Sensitive	*		Default		*	Мар				
Schema	Version:	V22	*									
		Local SCI	Store									
Docume	nt Storage	O Remote S	CI Store D	в								
		O File Serve	r									
Ex	iit S	Save De	fault Values	Test Proce	SS							

This identifies the origin of documents (e.g. Outpatients) **Document Source** and will be a search option for a user. **Document Extension** Each Document Source may be expected to produce documents in a limited range of formats, e.g. Microsoft Word (.doc), Adobe (.pdf), HTML (.htm, .html) etc. In order to prevent the upload of inappropriate items (e.g. executables - .exe, .msi), the list of acceptable document types for each Document Upload service will be configured, in the form of a comma-separated list, e.g. .doc,.pdf,.htm,.jpg (or *.doc,*.pdf,*.htm,*.jpg) Note: Documents with an unlisted document extension will be reported as an exception. Facilities will be provided to deal individually with such exceptions, allowing acceptance despite the configured list (although

executables will never be accepted). The SCI

Store administrator must ensure that appropriate display mechanisms exist for any document type uploaded.

• Having entered Document Source and Document Extension, click the "Default Values" button. This will provide a set of default path names and values as shown:

Sc SC	I Store Pa	isley								My Settings	About Store	Log Out
Home	Find Patient	Find Result	Find Do	cument	Find on CHI					Pati	ent ID:	Go
		_	uration		tions Mgmt	Security	Maintenance	Reporting	General	Notifications		
Home > N	Maintain Interfa	ces > Amend I	nterface >	Amend Do	oc to DB						User: admin	on PJSSCI6
						Documo	nt To Database					
						Docume	ne to Ducubuse	3				
	nt Source	MySource										
Docume	nt Path	C:\SCI Store\Ver	sion 2.1\Data	a\MySource\	Document							
XML Path	h	C:\SCI Store\Ver	sion 2.1\Data	a\MySource\	XML							
Styleshe	et Path	C:\SCI Store\Ver	sion 2.1\Dat	a\MySource\	Styles							
Docume	nt Extension	.pdf, .doc, .bxt, .r	rtf, .xml									
Docume	nt Size Limit	25 kB										
Default F	Patient Consent	No 🛩										
Allow Fut Date	ture Attestation	No 🗸			Scheme	es And Mappir	igs:					
Default S	Sensitivity	Highly Sensitive	*		Default		*	Map				
Schema	Version:	V22	*									
		C Local SCI	Store									
Docume	nt Storage	C Remote S	CI Store D	в								
		C File Serve	r									
Ex	it S	ave De	fault Values	Test F	Process							

These default pathnames may be changed as required:

Document Path	This is the location at which SCI Store will expect to find documents for upload. It is specifically the User's responsibility to deliver, or to instruct the supplier of the User's documentation system to deliver, documents to this location. The default directory for a Document Source "MySource" will be: c:\SCI Store\Version 2.1\Data\MySource\Document Users must ensure that documents have a unique file name, not simply within each Document Source, but also within SCI
	Store as a whole. How this is done is for each User's system to define, but a possible method is to concatenate Document Source with Date and Time (down to milliseconds). It is required that the title also include a revision control indicator (Rxxx), eg MySourceyyyymmddhhmmsssssRrrr.doc
	It is recommended that to eliminate potential problems which could arise from processing XML before the associated document has been provided, the document is delivered to the location specified by "Document Path" <u>before</u> the associated XML is delivered to the location specified by "XML Path".
XML Path	This is the location at which SCI Store will expect to find the XML metadata records describing documents for upload. It is specifically the User's responsibility to deliver, or to instruct the

	supplier of the User's documentation system to deliver the XML metadata records to this location. The default directory for a Document Source "MySource" will be: c:\SCI Store\Version 2.1\Data\MySource\XML The extension of all the XML records must be ".xml". It is also the User's responsibility to ensure that there is an exact 1:1 correspondence between the XML metadata records and the Documents to which they relate.
Stylesheet Path	This item is only relevant, and using the "Default Values" button will only be populated, if the Document Extension list includes ".xml". The path specifies the location at which a stylesheet for displaying a document which is itself XML may be found for uploading to the SCI Store stylesheet collection. It is specifically the User's responsibility to ensure that Stylesheets are uniquely named. (See also para 3.4.3).
Document Size Limit	Each Document Source may be expected to produce documents in a fairly consistent range of size. In order to prevent SCI Store being overloaded by excessively large documents, an upper document size limit will be configured for each Document Upload service. Documents which exceed this size will be reported as an exception. Facilities will be provided to deal individually with such exceptions, allowing acceptance despite the restriction, or rejection. The SCI Store Administrator must recognise that regular acceptance of "oversize" documents may affect the performance of SCI Store as a whole and the Users' database size calculations. The maximum value permitted is 1000 (kb).
Default Patient Consent	The metadata for each Document to be uploaded may include an item relating to Patient Consent for the information to be shared beyond the originating sub-specialty and originating organisation. In the event that this item is missing from the metadata, a default is required, and this can be configured for each Document Source as either "Y" (Yes) or "N" (No). The "Default Values" button setting is "N".
Default Sensitivity	The metadata for each Document to be uploaded may include an item relating to Sensitivity of the information from a Healthcare Professional viewpoint. In the event that this item is missing from the metadata, a default is required, and this can be configured for each Document Source as either "S" (Sensitive) or "HS" (Highly Sensitive). The "Default Values" button setting is "HS".
Document Storage	Configuration may select one of three options:

Store in the local SCI Store database
 Store in a specified remote SCI Store database - see 4.3 below.
• Store at a specified File Server - see 4.4 below.

Note: In the case of a Remote Database or a File Server it is only the Document that is stored remotely (this being the largest element involved). All other information is held on the local SCI Store database.

When all the details have been entered, click "Save" and, when confirmation that the details have been saved is obtained, click "Exit" to complete the Document To Database service setup

3.2 Remote Database for Document Storage

- Create the document to database service as per section 4.2
- Select "Remote SCI Store DB" radio button and input the database connection string in to the "Remote Store DB DSN" text box...

SC:	I Store Pa	aisley							My S	ettings	About Store	Log Out
Home	Find Patient	Find Result	Find Document	Find on CHI						Patie	ent ID:	Go
			Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications			
Home > N	Maintain Interfa	ces > Amend (Interface > Amend I	Doc to DB							User: admin o	n PJSSCI6
					Docume	ent To Database						
Documer	nt Source	Remote Docs										
Documer	nt Path	C:\GGTest\Doct	oDB23\RemoteDB\Docu	ment								
XML Path	h	C:\GGTest\Doct	oDB23\RemoteDB\XML									
Styleshe	et Path											
Documer	nt Extension	.doc, .xis, .txt, .	pdf									
Documer	nt Size Limit	1000 kB										
Default P	Patient Consent	Yes 💙										
Allow Fut Date	ture Attestation	No 💙		Schemes And M	appings:							
Default S	Sensitivity	Sensitive	~	GMC Scheme		💙 Map						
Schema	Version:	V23	~									
Exi	nt Storag		er efault Values	Remote Stor	c	ser id=sa;pass atalog=Store21 imeout=30)	

• Then click "Save" to save the changes and to complete the setup.

3.3 File Server for Document Storage

- Create the document to database service as per section 4.2
- Select "File Server" radio button and input the <u>\\Server\Folder</u> path to the relevant folder on the File server.

SC:	I Store Pa	isley							My Se	ettings	About Store	Log Out
Home	Find Patient	Find Result	Find Document	Find on CHI						Patie	ent ID:	Go
			Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications			
Home > N	laintain Interfa	ces > Amend I	Interface > Amend D	oc to DB							User: admin (on PJSSCI6
					Dooumo	ent To Database						
Documer	nt Source	Remote File Ser	ver		Docume	ant to Database	3					
Documer			oDB23\RemoteFile\Docu	nent								
XML Path			oDB23\RemoteFile\XML		_							
Styleshe	et Path	C:\GGTest\Doct	oDB23\RemoteFile\Style:	5	=							
Documer	nt Extension	.doc, .xis, .txt, .	pdf									
Documer	nt Size Limit	1000 kB										
Default F	Patient Consent	Yes 🗸										
Allow Fut Date	ture Attestation	No 💌		Schemes And M	lappings:							
Default S	Sensitivity	Sensitive	~	GMC Scheme		💙 Map						
Schema	Version:	V23	*									
		C Local SCI	Store	File S	erver URL	\Pjssci5\c\$\Re	moteDocs			~		
Documer	nt Storage	C Remote S	CI Store DB									
		C File Serve	er 🖉							~		
Exi		ave D	efault Values Test	Process								
Service :	Saved Successf	ully. Click Exit										

• Then click "Save" to save the changes and to complete the setup.

3.4 Permission Settings for a Remote File Server

If the File Server is a remote machine from the Web Server, access to this machine will be required. To enable this, the credentials of an account with the appropriate permissions will need to be assigned to the Web Server and the Windows Service.

• In the Web.config file (usually found in C:\Program Files\SCI\SCIStore\StoreWeb) find the following line....

```
<system.web>
```

```
<!--
Use to allow Clinical Letters to be held on a remote Store
<identity impersonate="true" UserName="domain\username" password="password"/>
```

 Un-comment the "Identity" line, and enter a domain, username and password of an appropriate account.

<system.web>

```
<!--
Use to allow Clinical Letters to be held on a remote Store -->
<identity impersonate="true" userName="domain\username" password="password" />
```

- Save the file and then restart IIS to complete the Web.Config setup.
- Navigate to the Windows Services list Control Panel\Administrative Tools\Services. Right click on "Store Services" and select "Properties"...

📧 😭	🔁 🗟 😫 🕨 🔳 🗉 🖦						
Services (Local)	🍓 Services (Local)						
	Store Services	Name 🔺	Description	Status	Startup Type	Log On As	
		Simple Mail Transfer Protocol (SMTP)	Transports	Started	Automatic	Local System	
	Stop the service	Smart Card	Manages a	Started	Automatic	Local Service	
	Restart the service	SQL Server (MSSQLSERVER)	Provides st	Started	Automatic	Local System	
		SOL Server Active Directory Helper	Enables int		Disabled	Network S	
		SOL Server Agent (MSSOLSERVER)	Executes i		Manual	Local System	
		SOL Server Analysis Services (MSSO.		Started	Automatic	Local System	
		SQL Server Browser	Provides S		Disabled	Local System	
		SQL Server FullText Search (MSSQL		Started	Automatic	Local System	
		SOL Server Integration Services	Provides m		Automatic	Network S	
		SQL Server Reporting Services (MSS.		Started	Automatic	Local System	
		SQL Server VSS Writer	Provides th		Automatic	Local System	
		SSDP Discovery Service	Enables dis		Manual	Local Service	
		Store Services	Endblos distri	Started	Automatic	Local System	
		Start Start	ks syst		Automatic	Local System	
		Suctem Restore Service	orms s	Started	Automatic	Local System	
		Task Scheduler	oles a	Started	Automatic	Local System	
		TCP/IP NetBIOS Helper	ples su	Started	Automatic	Local Service	
		Telephony Restart	ides T	Started	Manual	Local System	
		Telnet All Tasks	▶ ples a r	Startoa	Disabled	Local System	
		Terminal Services	vs mult	Started	Manual	Local System	
		Themes Refresh	ides u	Started	Automatic	Local System	
		30		Juanteu	Manual	Local Service	
		South States of the second sec	ides s		Manual	Local Service	
		We Vicual Studio 2005 Pero	iues s		Dicabled	Local System	



Store Services Properties (Local Computer)
General Log On Recovery Dependencies
Service name: StoreServices
Display name: Store Services
Description:
Path to executable: PCADe area: FileASCASCASCASCASCASCASCASCASCASCASCASCASCA
"C:\Program Files\SCI\SCIStore\StoreServices\SCIStore.WindowsService
Startup type: Automatic
Service status: Started Start Stop Pause Resume You can specify the start parameters that apply when you start the service from here. Start accessed on the service from here.
Start parameters:
OK Cancel Apply

- Click "Stop" to stop the windows service.
- Select the Log On tab. Change the "Log on as" from the Local System account to another account with the appropriate permissions.

Store Services Proper	rties (Local Computer) 🛛 ? 🔀
General Log On Reco	overy Dependencies
Log on as:	
🔵 Local System accour	nt
Allow service to in	nteract with desktop
 This account: 	SCI\1234z Browse
Password:	•••••
Confirm password:	•••••
You can enable or disab	le this service for the hardware profiles listed below: Service
Profile 1	Enabled
Docked Profile	Enabled
	Enable Disable
	OK Cancel Apply

• Click "Apply" and if the account is OK the following message is displayed...

Services	· 🛛 🔀
⚠	The new logon name will not take effect until you stop and restart the service.
	ОК

• Click the "General" tab, then click the "Start" button to start the Service.

Store Services Pr	operties (Local Computer)	?×
General Log On	Recovery Dependencies	
Service name:	StoreServices	
Display <u>n</u> ame:	Store Services	_
Description:		< >
Pat <u>h</u> to executable	e:	
"C:\Program Files"	SCI/SCIStore/StoreServices/SCIStore.WindowsSer	vice
Startup typ <u>e</u> :	Automatic	~
Service status:	Stopped	_
<u>Start</u>	Stop Pause Resume	
You can specify th from here.	e start parameters that apply when you start the serv	ice
Start para <u>m</u> eters:		
	OK Cancel A	pply

• Finally Click "OK" to complete the Store Services setup.

3.5 Warning

Having created and started to use a Document Upload Service, under no circumstances should the Document Storage option be changed; If this were done, the reference information which is used to retrieve Documents would be altered and access to documents stored using the previous option would be lost. If a User wishes to use a new storage option, a new Document Upload Service should be created. A disused service may be removed from the active list by changing its Status to "No".

4 Running a Document Upload Service

4.1 Testing

Facilities are provided to test a Service Definition, created as described in Chapter 3.

• To do this, first navigate to the "Amend Service Definition" screen and set "Status" to "Off", then click "Save" to save the change. This will isolate the Service from the automatic (Windows) Store Services system. In testing, the "Polling Interval" parameter is ignored, but the "Batch Size" parameter will be used to determine the number of documents processed in the test.

ିନୁ SC	I Store P	aisley							My Settings	About Store	Log Out
Home	Find Patient	Find Result	Find Document	Find on CHI					P	atient ID:	Go
			Configuration	Exceptions Mgmt	Security	Maintenance	Reporting	General	Notifications		
Home > I	Maintain Interfa	aces > Amend I	Interface							User: admin	on PJSSCI6
		10 1	0.0.11								
	An	nend Service	e Definition								
Service	e ID	21									
Service	е Туре	DocumentToDate	abase Docu	mentToDatabase 🗸 🗸							
Service	e Name	Local_DocToDB	v23								
Polling	Interval	20									
Batch :	Size	20									
Status		O On	Off								
Match	Patient	Greater Glasgo	w Match Great	ter Glasgow Match 🛛 🖌	CHI Demo	graphics?					
	Delete		Exit	[Save		Configure				
								_			

• Return to the "Amend Service Definition" screen and click "Configure" to view the Service configuration screen.

Sc SC	I Store Pa	aisley							My Settings	About Store	Log Out
Home	Find Patient	Find Result	Find Docum	ent Find on	CHI				Patie	ent ID:	Go
			figuration	Exceptions	Mgmt Securi	ty Maintenance	Reporting	General	Notifications		
Home > N	Maintain Interfac	ces > Amend I	Interface > Am	end Doc to DB						User: admin	on PJSSCI6
					Docu	ment To Database					
Docume	nt Source	Local Docs v2.3	3								
Docume	nt Path	C:\GGTest\Doct	oDB23\LocalDocs	\Document]					
XML Path	ı	C:\GGTest\Doct	toDB23\LocalDocs	XML]					
Styleshe	et Path	C:\GGTest\Doct	oDB23\LocalDocs	VXsit]					
Docume	nt Extension	.doc, .xis, .txt, .j	pdf, .xml, .tif, .htm]					
Docume	nt Size Limit	1000 kB									
Default P	Patient Consent	Yes 💙									
Allow Fut Date	ture Attestation	No 💌		S	chemes And Mappi	ngs:					
Default 9	Sensitivity	Highly Sensitive	e 💙	(GMC Scheme	✓ M	ар				
Schema	Version:	V23	~								
Docume	nt Storage	€ Local SCI C Remote S C File Serve	SCI Store DB								
Ex	it S	ave De	efault Values	Test Process]						

- Load the appropriate document(s) and corresponding XML metadata file(s) to the specified locations (and Stylesheet(s) if the document(s) are themselves XML).
- Click the "Test Process" button to run the Document Upload service on a single batch of documents. The result of the test is displayed as a message below the line of buttons.

If the document(s) is/are processed without any problem arising, the message will be of the form:

1 File processed with 0 errors. If errors are found, the total number of documents processed and the number of errors found will be reported with a message like:

1 File processed with 1 error. If an attempt is made to process documents without having loaded any XML metadata files, the message will be:

There we no XML Metadata files present to process.

4.2 Running a Production Document Upload Service

How often the Document Upload input directories are examined to determine whether there is anything to be uploaded is determined by a combination of the Polling Interval for the Upload Service and the total of all Polling Intervals for all the separate Services being run. There is considerable scope for the local SCI Store Administrator to tune these parameters to achieve the optimum throughput.

The first stage in the upload process is examination of the Directory specified by the "XML Path" to ascertain if there is any data to be uploaded. The Upload Service examines the XML metadata record to determine which document is to be uploaded and attempts to do so. If no such document is found, an exception will be reported. It is recommended that to eliminate this type of problem, the document is delivered to the location specified by "Document Path" <u>before</u> the associated XML is delivered to the location specified by "XML Path". (Facilities to recover from this type of problem are described in the next chapter, but require manual intervention for each case).

5 Managing Document Upload Exceptions

5.1 Overview

There are five distinct stages to the Document Upload process:

- Finding and reading an XML metadata record
- Parsing the metadata
- Locating and loading the document specified by the metadata
- Matching the Patient and Hcp (Healthcare Professional) details given in the metadata with existing information on SCI Store
- Linking the document with a patient on the SCI Store database

5.2 Document source table

At each stage problems can occur. The progress of every document is tracked at every stage in a single database table (**DocumentSource**). SCI Store Users with specific Administrator rights have access to a Menu option which provides facilities to review and manage all exceptions found.

Note: Please refer to the Exceptions Management Installation Guide (Appendix B), for detailed information about document upload exception status definitions.

5.3 Document upload service status

For all users, the current status of the Document Upload Service may be displayed on the Home page, and shows the position for successfully uploaded documents.

SCI Store Pa	aisley						My	Settings	Abou
ome Find Patient		tment Log						Patie	ent ID:
	Configuration Ex	ceptions Mgmt	Security I	Maintenance R	eporting Gene	ral Notific	ations		
me									Use
Recently Viewed Recen	ntly Created Recently Requested My Favourites	Administration							
Patients Results	Documents								
15 Records Returned									
Name	Title	Revision	Category	Sub-Category	Specialty	Uploaded	Sensitivity	Info	Linke
James Dell	ManualDocumentUploadForms	001	Charts & Forms	ED Card	Allergy	19/01/2010	S	0	-
All MinDocToDB23	PDF Testdocument for Min DocToDB23 revisi	on 1 001	Reports	OOH report	X-Ray	13/01/2010	s	0	-
Willbe Secondary	Compas Merge Willbe Secondary	001	Correspondence	Clinical letter	Haematology	13/01/2010	s	0	-
Don McDiarmid	DonMcDairmidReferralDocument2	001	Correspondence	Referral letter	General Medicine	13/01/2010	HS	0	- 1
Carol Dobson	Web Service Test0001's Word Doc Test	001	Clinical Letter Tes	t	Haematology	13/01/2010	s	0	-
Alan Brown	Web Service Test0002's Word Doc Test	001	Clinical Letter Tes	t	Radiology	13/01/2010	S	Retired	-
NegativeValues Doc	-35	001	Correspondence	Transfer letter	-35	13/01/2010	S	0	-
Don McDiarmid	DonMcDairmidReferralDocument	001	Correspondence	Referral letter	General Medicine	e 13/01/2010	HS	0	- 1
Jimmy Black	Upload Document Test	003	Correspondence	Clinical letter	Cardiology	13/01/2010	HS	0	-
James Dell	Upload Document Test	003	Correspondence	Clinical letter	Cardiology	13/01/2010	HS	0	-
Jimmy Black	Upload Document Test	010	Correspondence	Clinical letter	Cardiology	13/01/2010	HS	0	-
Goingtobe Master	Compas Merge Goingtobe Master	001	Correspondence	Clinical letter	Haematology	13/01/2010	s	Retired	-
HasTobe Cascaded	Compas Merge HasToBe Cascaded	001	Clinical Letter Tes	t	Haematology	13/01/2010	S		-
All Doc	Stylesheet Testdocument for Full Doc revisio	n 1 001	Assessments	CPA assessmen	X-Ray	13/01/2010	HS	0	
Bulk Load	BulkLoad New Document	040	Correspondence	Transfer letter	Cardiology	13/01/2010	s	0	-

5.4 Configuring user permissions

The SCI Store Administrator will configure the settings for each User individually depending on their requirements. Whether or not individual documents and patients can be accessed from the Home page will depend on whether or not the User

concerned has appropriate security permissions. These are discussed in a later Chapter.

5.5 Exceptions Management

The management process is accessed by selecting "Exception Management", then "Documents Uploaded. See below.

SCI Store Pa									
me Find Patient	Find Result Find Document Find T	reatment Log						Patie	nt ID:
	Configuration	Exceptions Mgm	t Security	Maintenance R	eporting Gener	al Notific	ations		
ne		Uploaded Files							Use
ecently Viewed Rece	ently Created Recently Requested My Fave	Parsed Files							
ecently viewed Rece	Recently Requested My Pave	Documents Uploa	ded						
Patients Results	Documents	Mapping Audit Re	port						
15 Records Returned		ACSC Registration	IS						
15 Records Returned									
Name	Title	Revision	Category	Sub-Category	Specialty	Uploaded	Sensitivity	Info	Linke
James Dell	ManualDocumentUploadForms	001	Charts & Forms	ED Card	Allergy	19/01/2010	s		-
All MinDocToDB23	PDF Testdocument for Min DocToDB23 re	vision 1 001	Reports	OOH report	X-Ray	13/01/2010	S	0	
Willbe Secondary	Compas Merge Willbe Secondary	001	Correspondence	e Clinical letter	Haematology	13/01/2010	s	0	-
Don McDiarmid	DonMcDairmidReferralDocument2	001	Correspondence	e Referral letter	General Medicine	13/01/2010	HS	0	- 1
Carol Dobson	Web Service Test0001's Word Doc Test	001	Clinical Letter T	est	Haematology	13/01/2010	S	0	-
Alan Brown	Web Service Test0002's Word Doc Test	001	Clinical Letter T	est	Radiology	13/01/2010	S	Retired	-
NegativeValues Doc	-35	001	Correspondence	e Transfer letter	-35	13/01/2010	s	0	
Don McDiarmid	DonMcDairmidReferralDocument	001	Correspondence	e Referral letter	General Medicine	13/01/2010	HS	0	1
Jimmy Black	Upload Document Test	003	Correspondence	e Clinical letter	Cardiology	13/01/2010	HS	0	-
James Dell	Upload Document Test	003	Correspondence	e Clinical letter	Cardiology	13/01/2010	HS	0	-
Jimmy Black	Upload Document Test	010	Correspondence	e Clinical letter	Cardiology	13/01/2010	HS	0	-
Goingtobe Master	Compas Merge Goingtobe Master	001	Correspondence	e Clinical letter	Haematology	13/01/2010	S	Retired	-
HasTobe Cascaded	Compas Merge HasToBe Cascaded	001	Clinical Letter T	est	Haematology	13/01/2010	s	0	-
All Doc	Stylesheet Testdocument for Full Doc rev	ision 1 001	Assessments	CPA assessment	X-Ray	13/01/2010	HS	0	
Bulk Load	BulkLoad New Document	040	Correspondence	e Transfer letter	Cardiology	13/01/2010	s	•	

The system navigates to the Document Uploaded Search Screen. See below.

5.6 Documents Uploaded Search

The Documents Uploaded search screen allows the user to check the status of any documents that are uploaded and manage any exceptions that occur.

This "Documents Uploaded Search" screen provides a set of selection options to allow problems to be studied.

For general review purposes, selection of a "Document Source" from the drop-down list, together with entry of "Date/time From" and "Date/time To" will provide a list of all items processed.

Note: It is important to recognise that the date value in this case has to be one which exists <u>before</u> the metadata and document is processed and does not depend on the metadata content (in case the XML fails to parse). For this reason, the XML File date is used. This is the date that would be shown in a Windows Explorer directory listing of the XML metadata file, under the heading "Modified". Thus in normal processing it will be the date (and time) the XML metadata file is written.

Attp://server1/storeWeb/Restricted/Services/DocToDBSearch.aspx	~	→ 🗙 Google	8
le Edit View Favorites Tools Help			
🛠 🖞 * 🖸 ' 🖶 Rage * 🖗 Roos * 🖗 * 🧦 🛍 🖏			
SCI Store Paisley			
me Find Patient Find Result Find Document Find on CHI		Patient ID:	G
	eneral Notifications		
ne > Documents Uploaded		User: adr	nin on PJSSC
arch Options Search Clear			
sument			
urce			
cessing v			
ge internet in the second se			
cessed v			
tus (All Errors)			
e/Time			
m v			
te/Time To			
ient Details			
name equals 🖌			
ename equals V			
te Of Birth			
tcode			
er ID equals 💌			
cument Details			
cument Identifier			
cument Category			
tegory			
cument Title			
ditional Text			
cument Specialty			
zument			
anisation ginating HCP			
esting HCP			
teiving HCP			
pied HCP			

To search, enter one or more of the following search criteria and click the "search" button.

5.6.1 Search Options

- Document Source (Name of the Document to Database interface)
- XML Filename
- Processing Stage (detailed in Appendix B)
- Processed
- Status
- Description (Content of the message associated with the status of the uploaded document e.g. Completed successfully)
- Date/Time From (Date/Time Processed From)
- Date/Time To (Date/Time Processed To)

5.6.2 Patient details search criteria

The patient details search criteria is hidden from view. If hidden (by default), select " * " to show the search options, or if shown, select " * " to hide the search options.

Note: All values taken from XML Metadata file

- CHI
- Other ID
- Other ID Type
- Surname
- Forename
- Date of Birth
- Postcode

5.6.3 Document Details Criteria

The document details search criteria is hidden from view. If hidden (by default), select " $\stackrel{*}{\stackrel{*}{}}$ " to show the search options, or if shown, select " $\stackrel{*}{}$ " to hide the search options.

Note: All values taken from XML Metadata file

- Document Identifier
- Document Category
- Document Title
- Additional Text
- Document Specialty
- Document Organisation
- Organisation Type
- Originating HCP
- Attesting HCP
- Receiving HCP
- Copied HCP

Note. If no search criteria are entered, all the results in the database will be returned (depending on whether the "SearchLimit" system setting has been set).

The search results will then be returned as follows:

Documents	s Uploaded -	Windows Inte	ernet Ex	plorer						
COO + 🖻 http://localhost/StoreWeb/Restricted/Services/DocToDBSearch.aspx							Soogle			
Elle Edit View Favorites Iools Help									Links	
k 🕸 🧭	Documents Uplo	aded							🏠 • 🔊 · 🖶 • 🗗 • 🎯 • 🕢 •	8
SCI S	tore Pais	slev							My Settings About Store Log C	Dut
		ind Result	Find Do	cument Find Ti	eatment Log				Patient ID:	Go
			Con	figuration E	xceptions Mgmt	Security Maintenance	Reporting	Genera		
ome > Docu	iments Upload	ed	6	3					User: admin on PJSS	CIE
Search Optio	ons	Search Cl	ear	60 Records Reti	irned Records P	er Page 🛛 20 👻 View All			File Actions Select Action 💌 (Go
ocument	Local Docs v2.3		*	123						
ML lename				Service	XML File Date	Processing Stage Reached	Processed	Status	Description	
ocessing		~		Local Docs v2.3	2010-01-13 22:12:45	5 - Link Document to Patient	ок	ок	Completed successfully 13/01/2010 22.12.51	
age 🗆 ocessed 🗌	~			Local Docs v2.3	2010-01-13 21:13:52	5 - Link Document to Patient	ок	ок	Completed successfully 13/01/2010 21.16.39	
atus		~		Local Docs v2.3	2010-01-13 21:13:51	5 - Link Document to Patient	ок	ок	Completed successfully (Document retired) 2010-01-19 09:47:47.	
escription				Local Docs v2.3	2010-01-13 21:13:51	5 - Link Document to Patient	ок	ок	Completed successfully 13/01/2010 21.16.38	
ate/Time		-		Local Docs	2010-01-13	5 - Link Document to Patient	ок	ок	Completed successfully 13/01/2010 21.16.38	
ite/Time		*		v2.3 Local Docs	21:13:51 2010-01-13	5 - Link Document to Patient	OK	ок	Completed successfully 13/01/2010 21.16.37	
tient Detail	ls		×	v2.3 Local Docs	21:13:51 2010-01-13	5 - Link Document to Patient		ок	Completed successfully 13/01/2010 21:16:37	
icument De	etails		×	v2.3 Local Docs	21:13:51 2010-01-13					
				v2.3 Local Docs	21:13:51 2010-01-13	5 - Link Document to Patient		ок	Completed successfully 13/01/2010 21.16.36	
				v2.3	21:13:50	5 - Link Document to Patient	ок	ок	Completed successfully 13/01/2010 21.16.36	
				Local Docs v2.3	2010-01-13 21:13:50	5 - Link Document to Patient	ок	ок	Completed successfully 13/01/2010 21.16.36	
				Local Docs v2.3	2010-01-13 21:13:50	5 - Link Document to Patient	ок	ок	Completed successfully 13/01/2010 21.16.35	
				Local Docs v2.3	2010-01-13 21:13:50	5 - Link Document to Patient	ок	ок	Completed successfully 13/01/2010 21.16.35	
				Local Docs v2.3	2010-01-13 21:13:50	5 - Link Document to Patient	ок	ок	Completed successfully 13/01/2010 21.16.34	
				Local Docs v2.3	2010-01-13 21:13:49	5 - Link Document to Patient	ок	ок	Completed successfully 13/01/2010 21.16.34	
				Local Docs	2010-01-13 21:13:49	5 - Link Document to Patient	ок	ок	Completed successfully 13/01/2010 21.16.33	
				Local Docs	2010-01-13	5 - Link Document to Patient	ок	ок	Completed successfully 13/01/2010 21.16.33	
				v2.3 Local Docs	21:13:49 2010-01-13	5 - Link Document to Patient	OK	ок	Completed successfully 13/01/2010 21.16.32	
					01.12.40	5 Enit Document to Fotone		U.C.	Local intranet 100%	

Clicking on the **Clear** button will clear the search results and criteria and restore the search defaults.

5.6.4 File Actions

The following functions can be accessed from the "File Actions" drop down list.

Flag as actioned

As per the Uploaded Files and Parsed Files Search screens, the messages that the search returns can then be flagged as "Actioned" by selecting "Flag As Actioned" option from the Actions drop down and clicking "Go"

By flagging as "Actioned" it is assumed that some sort of user action has been carried out, for example, the user has viewed the record and concluded that there is nothing that can be done to the file.

Note: Only files that have errors (E.g. in processing stage 1-4) will be "flagged as actioned". Once "go" is selected by the user, the system will display an information message that shows the number of files that were flagged as actioned.

5.7 Document Upload Details Screen

Clicking on one of the messages returned in the documents uploaded search will then display the following screen:

🖉 Documents Upload Det	ails - Windows Internet Explor	er					
😋 🕤 👻 🙋 http://local	host/StoreWeb/Restricted/Services/Do	cToDBDocumentDetails.aspx?5	iourceID=57		🖌 🛃	Google	P -
<u>File Edit View Favorite</u>	es <u>T</u> ools <u>H</u> elp						
🚖 🕸 🌈 Documents Uple	oad Details				🗄 • 📾 • 🖶 •	📴 Page 🔹 🌍 Tools 🔹 🔞 🗸	🛃 🕄 🗄 🎽
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 Mainte	enance Reporting Gen	ieral Notifications		
	ded > Documents Upload Details					User: admin	on PJSSCI6
(-) 🔛 💽 🔛 🚨 🗎						Actions Select Act	ion 💙 Go
C Document Upload De	tails						
Document Source	Local Docs v2.3		XML File Path	d:\Reg_Interface\DoctoD	B23\LocalDocs\XML		
Stage Reached	5 - Link Document to Patient		XML File Name	xml_WillBeSecondaryMer	rgeDoc.xml		
Processed	1 - Processing Complete		XML File Date	05/06/2009 01:37:55			
Status	1 - Processing successful		Status Date	05/06/2009 01:40:24			
Status Description	Completed successfully 05/06/	2009 01.40.24					
Document Parsing Details							â
Parse Date & Time	05/06/2009 01:40:24			Document Status	New		
Document Title	Compas Merge Willbe Seco	ndary		Document Specialty	Haematology		
Document Revision	001			Document Organisation	Glasgow Western Infirma	ary	
Document Category	Correspondence			StyleSheet	N/A		
Document Sub-Categor	y Clinical letter			Sorting Date & Time	20/03/2006 15:55:00		
Patient Consent	Y			Sensitivity	s		
Additional Text	N/A						
Patient Parsing Details							*
Patient Name Patient Sex	WillBe Secondary M	CHI Other ID	N/A RCH2804		Address 46 East P Edinburg	erm Road	
Date of Birth	23/01/1967	Other ID Ty		Post Cod			
Matching Details							×
Document Upload Details							×
XML File							×
							~
Done						Scal intranet	🍕 100% 🔹 🛒

This screen displays details relating to the progress of the Document Upload process for the selected record.

This includes:

- Document parsing details (upload stage & status)
- Patient Parsing details (patient information parsed from the XML metadata file)
- Matching Details (mapping and matching information)

- Document upload Details
- The XML metadata file that has been uploaded

5.7.1 Actions

The following actions can be performed from this page

- Flag as Actioned: Flag the message as "Actioned", only available if the record has not been successfully processed.
- Manual Match: Navigates to the Manual Match screen so that records can be matched to a patient
 - ⇒ Only available if the status flag is "PatientMatch Error", "CHI Match Error" or "Duplicate Patient".
 - \Rightarrow Explained in more detail in section 6
- **Reprocess Document From Current Stage:** The system will attempt to reprocess the record from its current state. This action should be undertaken after the user has fixed the original cause of the exception e.g. after:
 - \Rightarrow fixing any mapping issues
 - \Rightarrow manually matching the record to a patient
 - \Rightarrow copying a missing document into the correct directory

If the record is processed successfully the user will also be able to:

- View Patient: View the patient record
- View Document: View the uploaded document, unless the document has been deleted

If more than one record has been returned by the original search, the user can navigate through the list of Document Upload records using the standard navigation toolbar in the top left of the screen.

Appendix A: Link an Uploaded Document to a Patient Prerequisites

Linking a document to a patient may be attempted under the following conditions:

- Upload XML Metadata has completed
- Parse XML Metadata has completed

AND

The "DocumentStatus" element in the XML Metadata is

- "New"; or
- "Amend"

Procedure

- Upload Document
- Perform Patient (Demographics) Match,
- Perform HCPs Match/Mapping' and
- Perform DocumentSpecialty Match/Mapping

The actions to be carried out depend on:

- <DocumentStatus> value which can be one of
 - \Rightarrow "New",
 - \Rightarrow "Amend",
 - \Rightarrow "Delete" and
 - \Rightarrow "DeleteAll"
- <DocumentRevison> value
 - \Rightarrow any previously-loaded Revisions of this document that have existed on SCI Store

Appendix B: Action for "New" DocumentStatus Revisions of the Document exist on file

The document is always linked to the patient.

One or more Revisions of the Document exist on file

Revision of incoming Document < highest Revision number on file

Exception reported: "Document rejected: Higher revision already on file"

Revision of incoming Document = highest Revision number on file

Exception reported: "This revision already on file"

Revision of incoming Document > highest Revision number on file

The document is linked to the patient

Appendix C: Action for "Amend" DocumentStatus No Revisions of the Document exist on file

The document is always linked to the patient (i.e. treated as "New").

One or more Revisions of the Document exist on file

Revision of incoming Document < highest Revision number on file

• Exception reported: "Document rejected: Higher revision already on file"

Revision of incoming Document = highest Revision number on file

- Existing document with this Revision moved to "History"
- Metadata updated
- New document is linked to the patient

Revision of incoming Document > highest Revision number on file

- Existing "Current" document moved to "History"
- Metadata updated
- The document is linked to the patient

Appendix D: Action for "Delete" DocumentStatus

No Revisions of the Document exist on file

Exception reported: "There is no existing Document on file to Amend or Delete".

One or more Revisions of the Document exist on file

Revision in XML Metadata < highest Revision number on file

Exception reported: "Document rejected: Higher revision already on file"

Revision in XML Metadata = highest Revision number on file

"Current" Document moved to "History"

User Note added to corresponding "History" metadata

(Patient will have no occurrence of this document as "Current", but will retain

"History", the highest revision marked as "Deleted")

Revision in XML Metadata > highest Revision number on file

Exception reported: "Document rejected: Cannot delete a revision greater than the highest on file"

Appendix E: Action for "DeleteAll" DocumentStatus No Revisions of the Document exist on file

Exception reported: "There is no existing Document on file to Amend or Delete".

One or more Revisions of the Document exist on file

Revision in XML Metadata < highest Revision number on file

Exception reported: "Document rejected: Higher revision already on file"

Revision in XML Metadata = highest Revision number on file

"Current" Document moved to "History"

User Note added to corresponding "History" metadata

User Notes added to any other revisions of this document in "History"

(Patient will have no occurrence of this document as "Current", but will retain

"History", all labelled as "Deleted")

Revision in XML Metadata > highest Revision number on file

Exception reported: "Document rejected: Cannot delete a revision greater than the highest on file"

Document Control

Document information

Name:	Clinical Documents - Installation and Configuration		
Issue:	2.0		
Location:	Linwood		
Identifier:	SCI-DPUG-005		
Filename:	SCI Store - Clinical Documents - Installation and Configuration.doc		
Format:	Microsoft Office Word 2003		
Owner:	Campbell Roberts		
Status:	Draft		
Distribution:	SHOW		

Change log

lssue:	1.0
Date:	03/07/2009
Changed by:	Campbell Roberts
Details:	Final version for V5.1 of SCI Store
Issue:	2.0
Date:	30/09/2013
Changed by:	Campbell Roberts
Details:	Final release for V8.3 Of SCI Store