



Amlib SIP2 Manager Procedures Manual

Version 6.0

Last Updated: 24 February 2014

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OVERVIEW

SIP2 (**Standard Interchange Protocol, Version2)** provides communication between the Amlib Library system and other SIP2 compliant computer based applications. It provides controlled access to certain information from Amlib (for example details about Patrons or Items) via a TCP/IP connection through a nominated Port

These applications include Self-Service Circulation (DIY) terminals, accessing Ebooks from Online Suppliers, managing Library Internet PC processes such as PC Reservations, electronic resources and other communications. Ebook applications need to verify that a patron has proper borrowing rights before allowing downloads of Ebooks

<u>Request messages</u> to access information or perform operations are sent via a connection and the Response messages sent in return

There are three components that comprise the SIP2 module

- 1. **<u>SIP2 Server</u>** which runs as a service in Windows
- 2. <u>Configuration Manager</u> client program enables settings to be made in relation to:
 - Database (Database definition, Usernames and Passwords to the Database)
 - SIP2 Server settings (Database prefix, Port Number and maximum No of connections)
 - Logging settings (Enabling, Log Files and Archive Files)
- 3. <u>SIP2 Manager</u> client program which is used to maintain the SIP2 settings including:
 - Listener
 - Instance settings. These include:
 - o Parameters
 - Messages, Message fields and values

A Self Check device is the connection initiator and the SIP2 server is a TCP/IP listener

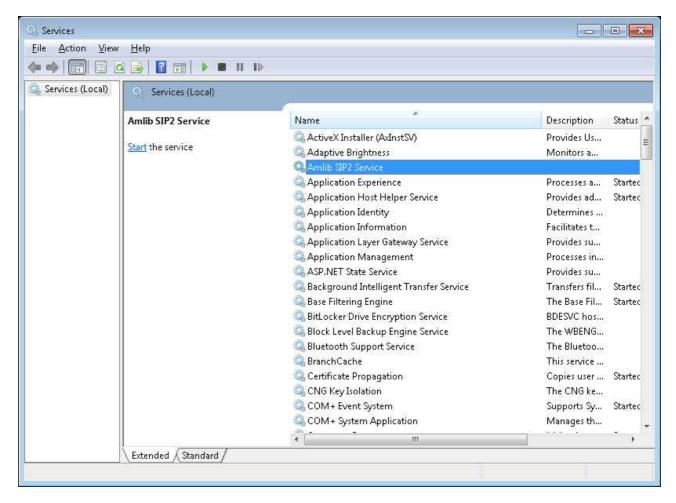
- From Amlib Version 6.0, a multi-threaded SIP2 Server is a replacement for the existing Amlib DIY module. There can be multiple listeners using a single instance
- The multi-threaded server supports multiple TCP/IP connections from SIP2 clients whereas the Version 5.3 and older versions of the Amlib DIY module only supported a single SIP2 client connection
- Each instance has its own set of messages, message fields and parameters. The parameters are not dependent on SIP2 client vendor types. The new SIP2 Manager is able to be customised to a greater degree than in the previous versions, in relation to customised messages and parameters

Functionality exists within the SIP2 Manager for the creation, editing or deleting of Listeners, associated Instance parameters, Instance messages and Instance message fields and values

SIP2 redevelopment includes the reorganisation of existing parameters and addition of new parameters. The new parameters will facilitate vendor independent coding. It is possible to convert existing Amlib DIY parameters to the new SIP2 parameters during the Version 6.0 upgrade or later using the SIP2 Manager.

SIP2 Server and Service

The SIP2 Server is an application that runs as a Windows Service. The service name is <u>AmlibSIP2Service</u>. After installation the service can be started and stopped in the Services area in Windows



The SIP2 server uses:

- Settings in the <u>AmlibConfig.xml</u> file maintained by the <u>Configuration Manager</u>
- SIP2 Parameters and Message Values stored in the local database and maintained by the <u>SIP2 Manager</u>
- <u>Amlib Circulation</u> Settings and parameters to check Circulation privileges for the borrower. If different Settings are based on Location the system uses the Login Location of the SIP2 Manager to verify the Circulation settings to use

SIP2 Server Process

1. Before the service starts, the amlibconfig.xml is opened, database connectivity is checked and the Amlib database is at least Version 6.0

- After starting, the server <u>listens</u> on the defined **Port Number** for incoming <u>TCP/IP</u> connections from SIP2 clients. The maximum <u>number of concurrent connections</u> is defined in the Configuration manager SIP2 Server tab
- 3. When an <u>incoming connection</u> occurs from a SIP2 client, the server determines the IP address of the client and performs a DNS lookup to get the Host name. The Client Address column on the SIP2 <u>Listener table</u> is then checked for either the IP or the host name and if found, the SIP2 parameters are loaded for the instance defined
- 4. Once connected the server receives SIP2 <u>request messagess</u> from the client and using the instance parameters does the required database lookups, processing etc. and returns the appropriate <u>response message</u>. The parameters define how the data for each field in the response message is derived.

Error Handling & Maintenance

- In the event of the IP or the host name not being found, the connection is *closed* by the server and the error logged
- While loading the SIP2 parameters for the instance from the database, checks are performed to verify their integrity. If not valid, the connection is <u>closed</u> and the <u>SIP2 parameter errors</u> <u>logged</u>
- Logging for the service is saved to the amlib.log file in the folder where the AmlibConfig.xml file is located.

By default the installers copy this file to the Data directory for the application. This is operating system dependent. For example in Windows XP it is found in Documents and Settings/All Users/Application Data/OCLC/Amlib SIP2 Manager/amlib.log

For Windows 7 and Windows Server 2008 the default is C:\Program Data\OCLC\Amlib SIP2 Server for the Server and C:\Program Data\OCLC\Amlib SIP2 Manager for the manager.

	<u>H</u> elp	ation DataWCLCVAmlib SIP2 M	anager		
🌀 Back 🔹 🕥 - 🏂 🔎 Sea	rch 🜔 Fol	ders			
dress 🛅 C:\Documents and Settings\Al	Users\Applica	tion Data\OCLC\Amlib SIP2 Manager			
olders	×	Name 🔺	Size	Туре	Date Modified
	~	🗐 amlib.log	16 KB	Text Document	25/10/2011 3:15 PM
Amlib SIP2 M	anager	AmlibConfig.xml	2 KB	Amaya Files	20/12/2011 5:16 PM
Conic	71,075 7 770	AmlibSIP2Manager.xml	1 KB	Amaya Files	07/07/2011 10:47 AM
TEMP		SIP2GettingStarted.doc	484 KB	Microsoft Office Wo	30/09/2011 10:28 AM
		TSIP2GettingStarted.pdf	84 KB	Adobe Acrobat Doc	15/06/2011 8:03 AM
		SIP2ProcedureManual.doc	1,691 KB	Microsoft Office Wo	18/10/2011 9:50 AM
		1 SIP2ProcedureManual.pdf	84 KB	Adobe Acrobat Doc	15/06/2011 8:03 AM

• After a successful connection, logging specific to the Listener is written to a folder below the main application data folder outlined above. The folder name is the IP address or host name configured for the Listener. The log file name is the same ie amlib.log)

- For <u>diagnostic purposes</u>, the service can also be run in a console by double clicking on the exe in the installation folder. The service must be stopped before doing this. When running as a console, no logging occurs as all messages and errors are displayed
- When parameters are changed, the **Client Connection(s)** using that Instance have to closed and reopened. This will <u>reload the SIP2 parameters and circulation parameters for the instance</u> and no restart of the SIP2 Server service is required

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AmlibSIP2Service Settings

Settings for the Service can be altered using the Properties of the Service in Control Panel > Administrative Tools>Services.

Highlight the Service in the list and right click and choose Properties

General TAB

The General TAB contains:

- Service Name needs to be AmlibSIP2Service
- Service Status
- Path to the SIP2Server application
- Startup Type

Amlib SIP2 Service Properties (Local Computer)
General Log On Recovery Dependencies
Service name: AmlibSIP2Service
Display name: Amlib SIP2 Service
Description:
Path to executable: "C:\Program Files (x86)\OCLC\Amlib SIP2 Server\AmlibSIP2Service.exe"
Startup typ <u>e</u> : Automatic
Help me configure service startup options.
Service status: Stopped
<u>Start</u> Stop Pause <u>R</u> esume
You can specify the start parameters that apply when you start the service from here.
Start parameters:
OK Cancel Apply

Log On

Set to Local System Account

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Amlib SIP2 Service Properties (Local Computer)			
General Log On Recovery Dependencies			
Log on as:			
Local System account			
Allo <u>w</u> service to interact with desktop			
Password:			
Confirm password:			
Help me configure user account log on options.			
OK Cancel Apply			

Recovery TAB

Keep as default settings

Dependencies TAB

Keep as default settings

Configuration Manager

The SIP2 server uses settings in the AmlibConfig.xml file maintained by the Amlib Configuration Manager. This file is saved in the Application data folder depending on the operating system. For example in Windows 7, it is saved in ProgramData/OCLC/Amlib SIP2 Server/ AmlibConfig.xml. In XP it is held in Documents and Settings/All Users/Application data/OCLC/Amlib SIP2 Server/AmlibConfig.xml

The settings are:

Amlib Systems tab

• Amlib Database definition – Database Prefix and Description etc

Am	Amlib Configuration Manager						
		Shocuments and Settings All Users Application Data OCL New	Open				
	Prefix	Description	New				
	AM	Live	Edit				
	TE	Test					
			Delete				
			Test				

SIP2 Server tab

- Database Prefix (must be configured in the Amlib Systems tab)
- **TCP/IP Port Number** for the SIP2 Server to listen for SIP2 Client connections
- Maximum Number of Concurrent connections (thread pool) Number of connections that you wish to allow at the same time through the port. This will depend on the type of connections – whether they are Self Issue devices or Ebook patron verifiers. The setting here should also be equal to or greater than the No of Licences set in the SIP2 Manager
- Changing any of these setting requires a restart of the service

Note: Ensure that there are enough Computer resources (for example Memory) to allow for the No of connections specified – especially if set to a high number

Amlib Configuration Manager	
Configuration File C:\Documents and Settings\All Users\Application Data\OCL New Ope	n
Amlib Systems Logging SRU Pusher VDX Email Debt Collection Service SIP2 Server	
Database Prefix Live 🗸 Port Number 6003 📚	
Maximum Number of Concurrent connections 6 🤤	

Logging tab

- Debug logging enabled if enabled all message data is logged. Errors are always logged by default
- Maximum log file size (MBytes)
- Number of archived log files
- Changing any of these setting requires a restart of the service

Amlib Configuration Manager					
Configuration File C:\Documents and Settings\All Users\Application Data\OCL New (Amlib Systems Logging SRU Pusher VDX Email Debt Collection Service SIP2 Server	Open				
Debug Logging Enabled					
Maximum log file size (MBytes) 1 🗢 Number of archived log files 3 🗢					

SIP2 Manager after Version 6.0 Upgrade

When the program is first run after upgrading to 6.0, it will display a form which populates the Master Message and Message Field tables.

It will also allow optional conversion of existing DIY parameter sets to the new table structure.

After completion there will an entry in the UPDATE_LOG Table in the LIB database for each process. The example below shows the creation of the master messages, conversion of parameter set 1 as a 3M device and parameter set 2 as an Envisionware device.

PROCES	S_ID PROCESS_NAME	AMLIB_VERS	SION DATE_STARTED	DATE_COMPLETED	STATUS	EXTRA_DATA
266	DIYParamsToSIP2-MasterMessa	ages 6.0	2011-06-14	2011-06-14	S	NULL
267	DIYParamsToSIP2-1-3M	6.0	2011-06-14	2011-06-14	S	NULL
268	DIYParamsToSIP2-2-Envision	Ware 6.0	2011-06-14	2011-06-14	S	NULL

The parameters are stored in tables in the Local database – the tables and their created using the Amlib 6.0 Changes.sql' upgrade script

The SIP2 Server uses settings in the AmlibConfig.xml file maintained by the Amlib Configuration Manager

The SIP2 Subsystem must be defined before any activity can be done. Existing Amlib DIY configurations can be converted for the updated SIP2 Facility. See <u>separate Notes</u> on Conversion.

External Support Files

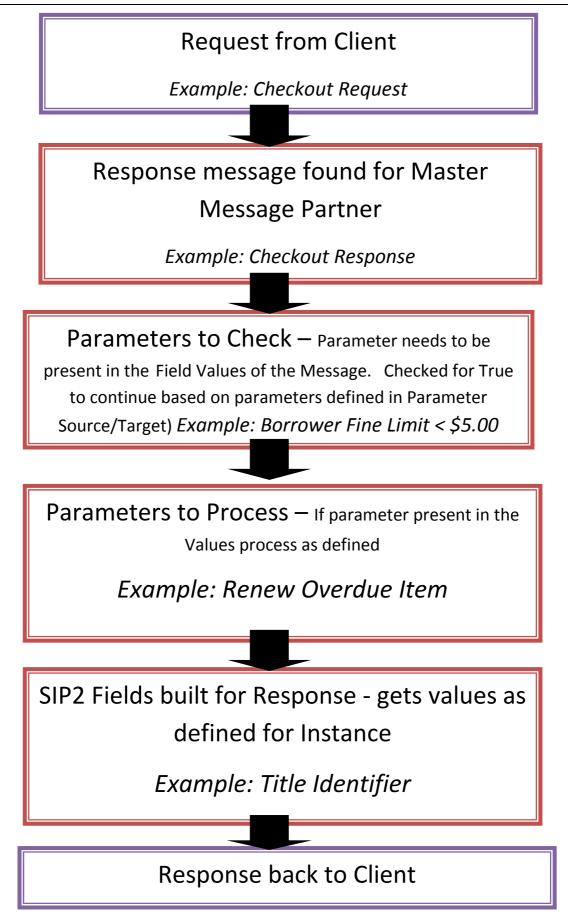
To facilitate the conversion process and setting up of specific vendors, external xml files contain default data. These files are:

DIYParametersConversion.xml – Holds parameter data from the existing DIY parameters relevant to SIP2 plus additional fields required for the new setup.

VendorsConversion.xml – Holds SIP2 message and field defaults for the currently supported vendors in DIY – 3M, EnvisionWare, STILogitrack, TalkingTech, SmartLibrary, Overdrive and Wheelers

DIYVendorDIYType.xml – Defines which parameters in the *DIYParametersConversion.xml* are relevant to the vendors in *VendorsConversion.xml*

SIP2 Request - Response Stages



SIP2 Manager

Login Instructions

 Launch the Amlib SIP2 Manager client – the Amlib Login with <u>Connection Details</u> window will display:

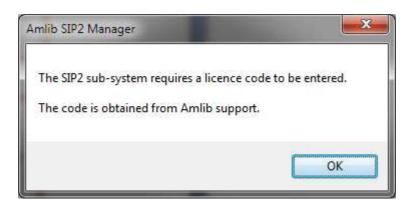
🖧 Amlib Login	$\overline{\mathbf{X}}$
Connection Details	
Amlib User Name	STAFF
Password	****
Database	Live
ок 🛛	Cancel

- 2. Enter a valid Amlib User Name and Password (not case-sensitive)
- 3. Select a <u>Database</u> this should be the same Live database you use for Amlib
- 4. Click the **OK** button the <u>Please select a location</u> window will display:

An	Amlib Login					
ſ	Please	select a location				
		Code	Description			
		С	Council library			
		LDIY	Wombat Self Check only			
	۶.	LIB	Wombat Library			
			ОК			

 Choose a login location and click the OK button (by default, the Location setup for your Username in the Amlib Installation settings will be highlighted). **Note:** A different Location can be used for gathering Statistics for the Self Check Issues. This is set up on the Listeners Window – in the Location for Stats section

6. The first time the login occurs, The Amlib SIP2 Manager dialogue box will display. It will be necessary to enter a <u>code</u> for the Number of Licences the site is configured to use. If you do not have the code it will be needed before the setting up of the Manager can go any further. Contact Amlib Support to obtain the relevant code



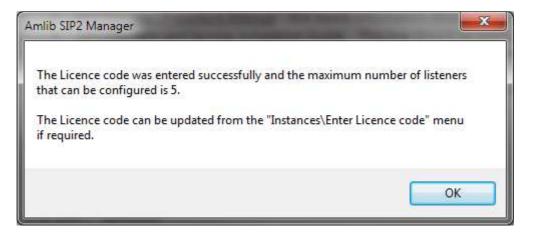
7. Click OK

8. The Enter Licence Code dialogue box will display

Enter Licence Code	
Licence Code (as supplied by Amlib support)	
[Ok	Cancel

- 9. Enter the licence code and press **OK**
- 10. The Amlib SIP2 Manager confirmation box will appear showing the No of licences applied

**Ensure that the Maximum Number of Concurrent connections configured in the Configuration Manager is equal to or greater than the No of Licences



- 11. Click OK
- 12. The *SIP2 Manager* box displays to give the information about initialising the SIP2 system before use. It is possible to Convert existing DIY parameters to initialise the system.



13. Click OK to continue

14. The Create SIP2 Master Message and/or convert DIY Parameters Dialogue box will display

Create SIP Parameters	2 Master Messages 3	and, if selected	, convert DIY para	meters to	SIP2
Vendor	Convert from D	DIY parameters	DIY Paramete	er Set 1	Ŧ
	Run	業	•	Exit	

15. Click the Convert from DIY parameters if a conversion is required from the parameters set in DIY (suggested). See Convert DIY

16. At the finish, a message will display



Note: The licences are set up as a range:

- 1 user
- 2-5 users
- 6-10 users
- 11-20 users
- 21- Unlimited

Menus

9 Amlib SIP2 Manager			
File Instances Help			
Listeners			
Instance	IPAddress / Host Name	User	Location for Statistics
M - Eastville Branch	10.61.80.13	8 STAFF	LDIY
New Edit			Delete
Instance			Apply
Client Address - IP Address or Host N	ame		Cancel Edit
	amo		
IP Address			
User Name	×		
Location for Stats	~		

File Menu

Properties

[™] Properties		
Getting Started Manual Path	gs\All Users\Application Data\OCLC\Amlib SIP2 Manager\\SIP2GettingStarted.pdf	
Procedure Manual Path	C:\Documents and Settings\All Users\Application Data\OCLC\Amlib SIP2 Manager	
	OK Cancel	

Displays the Paths for the Getting Started Manual and Procedure Manuals.

Please Note: It is possible to customise both the **Getting Started** guide and the full **Procedures Manual** – see: Appendix A: Modifying & Linking Your Own Manual in the Amlib SIP2 Manager Client

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A full <u>Help</u> system is available within the *Amlib SIP2 Manager* client. From the menu, select **Help** > **Help** – the <u>Help</u> guide will display.

<u>Context sensitive Help</u> is available on each screen by clicking the **F1** Function key on the screen Window on which Help is required.

In addition, a **Getting Started** guide and the full **Procedures Manual** (both in **PDF**) can be accessed from the Help menu.

<u>Exit</u>

Closes the Amlib SIP2 Manager **Note**: The SIP2 Manager can also be closed by clicking the X on the top far right Corner of the SIP2 Manager Window

Instances Menu

Instances

Displays the Instances currently defined.

🔑 Instand	ces	_ 🗆 🗙
	Description	
•	3M - Eastville Branch	
	3M - Johnson Branch	
Ne	ew Edit Edit Messages Edit Parameters	Delete
Des	cription	Apply
		ancel Edit
	OK Cancel	

From this Window it is possible to select buttons for the following:

- New: Create a New Instance
- Edit: Edit the Instance to change the description of an Existing Instance
- Edit Messages: All the Messages will display for the existing Instance. It is then possible to Add, Edit or Delete Messages See more information in separate section

- Edit Parameters: All the Messages will display for the existing Instance. It is then possible to Add, Edit or Delete Parameters See more information for Edit Parameters
- **Delete**: <u>Delete Instances</u> to remove them from the SIP2 Manager. Instances cannot be deleted if they are being used by a Listener

Convert DIY

Create SIP2 Master Messages and, if selected, <u>Convert DIY Parameters</u> to SIP2 Parameters. This Process will create a New Instance which can then be further modified if required

Enter Licence Code

Allows the entry a new <u>code</u> to update the *Number of Licences* the site is configured to use.

Help Menu

Getting Started Manual

Displays the Getting Started Manual from the path as shown in the Properties

Procedure Manual

Displays the Procedures Manual from the path as shown in the Properties

<u>Help</u>

Displays the full SIP2 Help Contents

<u>About</u>

Displays the Version number and Copyright details

About Amlib SIP2 Ma	nager	\mathbf{X}
	Amlib SIP2 Manager Version 5.4.4258.28757 Copyright © OCLC (UK) 2011 OCLC (UK)	
	Amlib SIP2 Manager	<u>K</u>

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Main Window

Amlib SIP2 Manager			
File Instances Help			
Listeners			
Instance	IPAddress / Host Name	User	Location for Statistics
▶*			
New Edit			Delete
			0000
Instance	~		Apply
Client Address - IP Address or Host Nar	me		Cancel Edit
	me		Cancel Edit
Client Address - IP Address or Host Nar	me		Cancel Edit
	me		Cancel Edit

The SIP2 Main window displays any configured Listeners. A Listener defines an incoming TCP/IP connection to the SIP2 Server, the instance it will use for the SIP2 messages, an Amlib logon to load circulation parameters and a location for statistics. from SIP2 devices via TCP/IP connections. It is possible to have different Listeners connect to a single Instance. When defining the Listener an IP Address or Host Name can be used

Create a New Listener

- 1. Click the **New** Button the **New** Button will be disabled if the number of Listeners configured is equal to the No of Licences
- 2. Select the **Instance** from the Drop-down list of Instances (If no Instances display, these need to be set up first from the Instances Menu See Create a New Instance)

Instance	3M - Eastville Branch	~
Client Address - IP	3M - Eastville Branch 3M - Northville Branch 3M - Southville Branch	

3. Enter the **Client Address of the Self Check device** which must be either the <u>IP or Host Name</u>. This is used to load the SIP2 parameters of the instance after an incoming connection is received

🔑 Amlib SIP 2 Mana	ager			
File Instances H	lelp			
Listeners				
Instance		IPAddress / Host Name	User	Location for Statistics
New	Edit			Delete
Instance	3M - Eastville Branch	~		Apply
Client Address - If	P Address or Host Name			Cancel Edit
✓ IP Address	10.61.80.138			
User Name		~		
Location for Stats		~		

4. If the details listed are the IP address ensure the Checkbox for IP Address is ticked

Client Address - II	P Address or Host Name
IP Address	10,61.80.138

5. Select the Amlib Login **Username** from the Drop-down list of valid Usernames. The Username is used to get the Login Location and Circulation Parameters etc

User Name	MARSHALL	~
Location for Stats	BARKER CATNET DARBY	
	MARSHALL	

6. Enter the **Location** for where the <u>Circulation statistics</u> will be posted to for reporting.

Location for Stats	~	
	C - Council library	
	LIB - Wombat Library	

This could be the same as the Login Location or a different Location if separate statistics is required for just the Self Check device. A new Location could be created in Amlib and used just for the collection of statistics for the Device. This is most relevant for Returns type devices.

LDIY - Wombat Self Check only	~
C - Council library	
LDIY - Wombat Self Check only	

7. Click Apply to save the settings or Cancel Edit to discontinue with the editing

Edit a Listener

To change any details for the Listener

1. <u>Highlight</u> the *Listener* on the Listeners Table (from the Main Window of the Amlib Sip2Manager)

Amlit	b SIP2 Manager			
le I	Instances Help			
istener	IS			
	Instance	IPAddress / Host Name	User	Location for Statistics
	3M - Eastville Branch	10.61.80.138	STAFF	LDIY
	3M - Northville Branch	libraryserver	DARBY	С
Ne Insta	ew Edit Ince			Delete
Insta Clie				
Insta	ent Address - IP Address or Host Name			Apply

- 2. Click the Edit Button
- 3. The entries for each field displays
- 4. Change the Instance if required
- 5. Change the Client Address IP Address or Host Name if required
- 6. Change the Location for the collection of Statistics if required
- 7. Click Apply to save the settings or Cancel Edit to discontinue with the editing

Delete a Listener

1. <u>Highlight</u> the *Listener* on the Listeners Table (from the Main Window of the Amlib SIP2 Manager)

tances Help			
nstance			
nstance			
	IPAddress / Host Name	User	Location for Statistics
M - Eastville Branch	10.61.80.138	STAFF	LDIY
M - Northville Branch	libraryserver	DARBY	С
Edit	~		Delete
Address - IP Address or Host Name			Cancel Edit
ame	¥ ¥		
e ,	Edit Edit Address - IP Address or Host Name Address me	Edit Address - IP Address or Host Name Address me	Edit Edit Address - IP Address or Host Name Address me

- 2. Click the **Delete** Button
- 3. A confirmation message will display

AmlibSIP 2 Manager 🛛 🛛 🔀
Remove Instance - 3M - Southville Branch from the Instances?
Yes No

4. Select Yes to delete the Instance or No to cancel out of the deletion process

Create a New Instance

It is possible to create a <u>New Instance</u> as the result of a Conversion of Amlib DIY parameters (see further Notes on this process – Convert DIY). The following options outline how to create a New Instance if the DIY Amlib facility has not been used previously OR the existing parameters are not being converted

1. From the SIP2 Manager Window, select **Instances** from the <u>Instances Menu</u>. If already defined, the Instances display in the top window.

🔑 Instanc	ces				_ 🗆 🔀
	Descrip	ion			
▶*					
Ne	W	Edit	Edit Messages	Edit Parameters	Delete
Dee	cription				Apply
Des	chpuon				
					Cancel Edit
			JK Can	cel	

To create a new Instance, select New

It is possible to

- Copy from an existing Instance (if already defined)
- Copy from a Vendor
- Create a default Instance

ℬ New Instance	
 Copy from an existing In 	nstance
3M - Eastville Br	anch 💌
Copy from a Vendor	
3M	×
Create a default Instan	ce
ОК	Cancel

Copy from an existing Instance

This will copy ALL the Parameters, Messages and Message Field values from one instance already defined to another Instance that can be renamed. This option will remain grey if there are no instances defined on the Instance Window

- 1. Select New from the Instances Window
- 2. Ensure Copy from an existing Instance is the radio button selected
- 3. Select the Instance to copy from the Drop-down box
- 4. Click OK
- 5. <u>Highlight</u> the newly created Instance on the Table

🔑 Instances	
Description	
ЗМ	
> 3M New	
New Edit Edit Messages	Edit Parameters Delete
Description	Apply
	Cancel Edit
ОК	Cancel

- 6. Select Edit
- 7. Give the New Instance a new <u>Description</u>

🔑 Instand	ces	_ 🗆 🔀
	Description	
	3M	
•	3M New	
Ne	w Edit Edit Messages Edit Parameters	Delete
Des	cription 3M Eastiville Branch	Apply
		incel Edit
	OK Cancel	

- 8. Select Apply
- 9. It is then possible to Edit Messages or Edit Parameters as required

Copy from a Vendor

This will ensure necessary Parameters, Messages and Message Field values relevant to the Vendor will be made available as parameters to use in the Parameter table. It will be necessary to add some Target Values to some of the Parameters where the Target Values do not exist.

- 1. Select New from the Instances Window
- 2. Ensure Copy from a Vendor is the radio button selected
- 3. Select the <u>Vendor to copy</u> from the Drop-down box

∕∕€ New Instance	_ 🗆 🔀
Copy from an existing Instance	
3M - Eastville Branch	~
 Copy from a Vendor 	
ЗМ	~
Create Logitrack EnvisionWare Smart Library Overdrive	
OK Cancel	

- 4. Click OK
- 5. The <u>New Instance from Vendor</u> Window will display with the relevant Parameters for that particular vendor displayed
- 6. There will be some Default parameters ticked. These will be required by the Vendor and can't be unselected either manually or by using Unselect All

	Include	Description	Message	Туре	Source Type	Source Value	Source Value Flag	Operator	Target Type	Target Value
×		Allow Cancel of overdue ch	Item charge cancelled	Item	Constant	Y	NotAll	Equal	String	Y
		Allow Issue/Checkout when	This item may not be issued. Please take it to the In	Item	Constant	Y	NotAll	Equal	String	Y
		Allow Issue/Checkout when	This item may not be issued. Please take it to the In	Item	Constant	Y	NotAll	Equal	String	Y
		Allow Renew of Overdue Item	Item is overdue and may not be renewed	Item	Constant	Y	NotAll	Equal	String	Y
		Borrower - Exists on database	Invalid borrower	Patron	Incomi	Patron	Notál	Eviste	Datab	Borrow
	dit set	Check All Uncheck All	J]	1	уре				Create In	istance
	ription	Check All Uncheck All	J]	1	ype				Create In	
Desc	ription age	Check All Uncheck All]	1	ype.				Create In	
Desc	ription age irce	Check All Uncheck All	Target	1	уре		~			Apply
Desc Viess - Sioi Ty	ription age irce	Check All Uncheck All		ġ	ype		~			k

- 7. Not all parameters need to be selected but for those that are selected must have Target Values. Some of these Values will need to be entered where the Target Value is blank. If left blank, the Instance will be able to be saved but a message will be displayed noting that the configuration will need to be completed manually
- 8. To add or edit a **Target Value** for a Parameter, double click the line or select Edit (see details below), set to required values and click **Apply**. Generally it is the **Database values** that will

be needed for selection using the Special button – displaying the selection choices for the Source Value selected. See below more details on Parameters

9. Tick the parameters to be selected for the new Instance from the Include column displaying first in the top Window.

Note:

- If most parameters are to be included select the **Select All** button and revise to uncheck any not to be included
- To uncheck most of the parameters there is an **Unselect All** button that may be useful
- 10. When complete, select Create Instance button. Any Parameters selected but without a Value will display where value will need to be defined.

AmlibSIP2 Manager 🛛 🔀
Not all the Parameters are fully defined. The new Instance can be created, but the configuration will have to be completed manually.
These issues need to be addressed.
Borrower - fine limit Target Value missing Borrower - Group Target Value missing Item - Magnetic media Target Value missing Item - Magnetic media Target Value missing Item - Not to be removed Target Value missing Item - Renew Overdue Item Source Table and/or Source Column missing Target Value missing
Continue with the Instance Creation?
<u>Y</u> es <u>N</u> o

- 11. It is suggested, that if this message is displayed, that No is selected and the Target Values be entered for the Missing Values
- 12. Once the Target Values are set for those chosen for the Instance, the creation should be successful.



Create a default Instance

Generally, <u>Copy from an existing Instance</u> OR <u>Copy from a Vendor</u> would be selected.

It is possible to Create a default Instance from scratch, but this would **NOT** be advised.

Once selected, every Parameter and Message would have to be entered manually. If this is required please contact Amlib Support for advice.

Parameters					ז
Description	Туре	Source Type	Source Value Flag O	perator Target Type	
Edit New				Delete	
Description		Туре			~
		1300			
Message					
Cource	- Target			Apply	
Туре	✓ Type		~		
			~	Cancel Edit	
Null Value	Operator		×		
Value 🔽	Value	~	~	Special	
	ОК	Cancel			

Edit an Instance

To change any the Description of the Instance

1. <u>Highlight</u> the *Instance* on the Instances Table (from the Instance Menu)

🖉 Instances 📃 🗆 🔀					
		Description			
		3M - Eastville Branch			
	F	3M - Northville Branch			
		3M - Southville Branch			
	Nev	v Edit Edit Messages Edit Parameters	Delete		
	Desc	ription	Apply Cancel Edit		
		ОК			

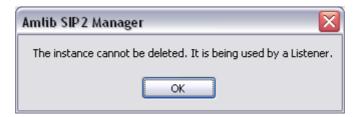
- 2. Click the Edit Button
- 3. The description for the Instance displays
- 4. Change the <u>Description</u> as required
- 5. Click Apply to save the settings or Cancel Edit to discontinue with the editing

Delete an Instance

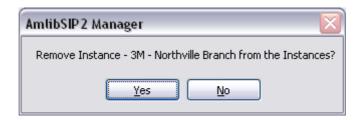
1. <u>Highlight</u> the *Instance* on the Instances Table (from Menu Instances)

ß	🖉 Instances 📃 🗆 🔀				
		Description			
	-	Description			
		3M - Eastville Branch			
	•	3M - Northville Branch			
		3M - Southville Branch			
	Nev	w Edit Edit Messages Edit Parameters	Delete		
	Desc	ription	Apply		
			Cancel Edit		
		ОК			

2. Click the **Delete** Button. If it is being used by a Listener, a message will display



3. If the Instance is no longer being used by a Listener, the deletion can take place. A <u>confirmation message</u> will display



4. Select Yes to confirm or No to cancel the Deletion

Convert DIY

This facility is displayed after the Version 6.0 Update for conversion. It can be accessed after the Upgrade if other Parameter sets are also to be converted

From the Instance Menu, select Convert DIY

📴 Create SI	P2 Master Message	es and/or coi	nvert DIY Param 🖃 🗖 🔀					
	Create SIP2 Master Messages and, if selected, convert DIY parameters to SIP2 Parameters							
	Convert from DIY	parameters						
Vendor	ЗМ	~	DIY Parameter Set 🔋 💌					
	Run	彩	Exit					

This <u>Conversion process</u> will create the **SIP2 Master Messages** for the selected Vendor. It can **convert** the current settings from the <u>DIY parameter set</u> within Amlib Supervisor, Library Menu, DIY Params. It will create a new Instance as a result of the process. As there can be several sets of parameters, it is possible to select the Set Number of the Parameter Set to convert.

- 1. Select **Convert from DIY Parameters** if the existing Amlib Parameters are to be converted across to the SIP2 Manager
- 2. Select the Vendor
- 3. To view the Vendors supported, click on the Drop-down arrow. A listing will display :
 - 3M
 - TALKING Tech
 - Logitrack
 - EnvisionWare
 - Smart Library
 - Overdrive
 - Wheelers

🕓 Create SIP	2 Master Messages and/or	convert DIY Param 💶 🗖 🔀						
Create SIP2 Master Messages and, if selected, convert DIY parameters to SIP2 Parameters								
	Convert from DIY parameters							
Vendor	3M	DIY Parameter Set 🔋 🔽						
	Logitrack EnvisionWare Smart Library	Exit						

- 4. Select the Number for the DIY Parameters Set to be converted. For example, Set 1
- 5. Select the **Run** button to begin the Conversion
- 6. When complete (it will only take a few minutes) click the Exit button
- 7. A new Instance will be created as a result of the Conversion and will list in the Instances Table
- 8. An Entry is inserted in the **UPDATE_LOG** table for each run for example 'DIYParamsToSIP2--3M'

All files (log and xml) are located in the same folder as the executable. If the DIY conversion is rerun for the same Parameter Set a <u>Verify Run Selections</u> window will display where confirmation of a rerun can be given with a **Yes** response, or cancel the rerun with a **No** response

Verify Run Selections 📃 🗖 🔀
The selection :
Parameter Set 1
Vendor 3M
has already been processed.
Do you wish to to continue ?
Yes No

Note: Some of the parameters used in Amlib DIY will **NOT be converted** because they are not used within SIP2 or that they are using the underlying <u>Circulation parameters</u>

Amlib DIY Parameter Not Converted	Borrower	Amlib DIY	Reason
	1	No	
	Stockitem		
Max on loan	В	1	Apply circulation parameters
Borrower reregister on expiry	В	5	Not Applicable for SIP2
Log off password	В	8	Not Applicable for SIP2
Inactivity timeout	В	9	Not Applicable for SIP2
3m Offline	В	15	Not Applicable for SIP2
Amlib version	В	16	Not Applicable for SIP2
Library Name	В	18	Not Applicable for SIP2
Terminal Location	В	19	Not Applicable for SIP2
Amlib Main Image	В	23	Not Applicable for SIP2
Amlib Borr Image	В	24	Not Applicable for SIP2
Amlib Item Image	В	25	Not Applicable for SIP2

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Amlib Allow Print onloan	В	26	Not Applicable for SIP2
Wand Barcode Desc	В	27	Not Applicable for SIP2
Amlib Allow Print new items	В	28	Not Applicable for SIP2
Borrower Button Text	В	29	Not Applicable for SIP2
Allow renewals in Amlib	В	31	Not Applicable for SIP2
Amlib Invalid borrower barcode	В	32	Not Applicable for SIP2
If <u>Proceed</u> = Y : Check for item charge on return and cancel	S	5	Not Applicable for SIP2
Stop issue on charge	S	6	Not Applicable for SIP2
No loan allowed	S	7	Apply circulation parameters
No renewal allowed	S	8	Apply circulation parameters
Renewal limit exceeded	S	9	Apply circulation parameters
Item not for loan	S	10	Apply circulation parameters
Renew Overdue Item	S	11	Apply circulation parameters
Max Items Reached	S	12	Apply circulation parameters
Exceeded Form Limit	S	13	Apply circulation parameters
Default loan period	S	17	Not Applicable for SIP2
Amlib - Item button text	S	18	Not Applicable for SIP2
Allow returns in Amlib	S	19	Not Applicable for SIP2
Amlib - Print return items list	S	20	Not Applicable for SIP2
Return reserved item	S	21	Not Applicable for SIP2

Parameters

The Parameters Window is reached by creating a <u>New Instance from a Vendor</u> or by the <u>Edit</u> <u>Parameters</u> button from the Instances Window

When creating or editing each parameter of an Instance, there 3 main levels

1. General

- Description Description of the Parameter
- Message Message that will appear in the DIY interface
- Type Item, Patron or System

2. Source - Obtain Data for Checking

- Source Type : Action, Constant, Database, Incoming, Message
- Null Value : Not Allowed/Allowed
- Source Value Depends on the Source Type chosen

3. Target - Contains Values for Checking...

- **Target Type**: Database, DateTimeValue, Decimal Value, IntegerValue, StringList, Stringvalue
- **Operator** : Equal, Not Equal, In, Not In, Greater, Less etc. Restricted by the Target Type
- Target Value: Entry depends on the Target Type
- **Special** to give a listing of Database Values for inclusion e.g. Borrower Types used so that they can be selected for the parameter or DateNow (for current date)

Note: It is possible to create a New Instance based on the Instance created previously e.g. for different branches

	Include	Description	Message	Туре	Source Type	Source Value	Source Value Flag	Operator	Target Type	Target Value	
		Borrower - Exists on database	Invalid borrower	Patron	Incomi	Patron	NotAll	Exists	Datab	Borrow]
		Borrower - fine limit	Your Account has exceeded the allowed limit	Patron	Datab	Borrow	NotAll	Less	Decim		1
	4	Borrower - Group	Not a Member of a permitted Borrower Group	Patron	Datab	Borrow	Allowed	Notin	StringL]
		Borrower - Memo count	Please call at the Information Desk as we have	m Patron	Action	Borrow	NotAll	Less	Integer	1	1
											16
esc	dit fiption	Check All Uncheck All Borrower - fine limit Your Account has exceeded th	You have over due Items on Loan. Please call		Action	Patron	Notál		Integer Create In:		
) esc dess	dit ription age	Check All Uncheck All) e allowed limit			(Notál				
)esc Iess	dit ription age urce	Check All Uncheck All Borrower - fine limit)]		(Apply	
)esc 1ess Sou Tyj	dit ription age urce	Check All Uncheck All Borrower - fine limit Your Account has exceeded th	a allowed limit]		(

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Setting Parameters for a New Instance

Once the Instance has been created from a Vendor the default Parameters will display.

It will be necessary to choose your own Values where there are currently No Target Values

Select a parameter and Double click or press Edit. The fields will display in the lower section

	Include	Description	Message	Туре	Source Type	Source Value	Source Value Flag	Operator	Target Type	Target Value	
	~	Borrower - Exists on database	Invalid borrower	Patron	Incomi	Patron	NotAll	Exists	Datab	Borrow	1
8		Borrower - fine limit	Your Account has exceeded the allowed limit	Patron	Datab	Borrow	NotAll	Less	Decim		
	V	Borrower - Group	Not a Member of a permitted Borrower Group	Patron	Datab	Borrow	Allowed	NotIn	StringL		1
		Borrower - Memo count	Please call at the Information Desk as we have a r	. Patron	Action	Borrow	NotAll	Less	Integer	1	
Desc	dit stiption	Romower - Overdues count Check All Uncheck All Borrower - fine limit	You have over due Items on Loan. Please call at J	Patron	<u>Action</u> ype	Patron	Notàll		Integer Create In:		
Desc Mess	dit cription sage	Check All Uncheck All) e allowed limit				Notál				•
Desc Mess	dit ription sage urce	Check All Uncheck All Borrower - fine limit)	1					Create In:	Apply	
Desc Mess Sol Ty	dit ription sage urce	Check All Uncheck All Borrower - fine limit Your Account has exceeded th	e allowed limit	1					Create In:		

Note: The <u>Borrower exists on database</u> (for a check of Invalid Borrower) and <u>Item exists on database</u> (for a check of Invalid Item) are special parameters that **MUST** be used and cannot be edited except for the Message response

- 1. The default Description, Message and Type of the parameter will display
 - Description Description of the Parameter it is not recommended that this be edited. However it is allowed as a new Parameter may need to be entered if advised by a Vendor or if a correction to a description is necessary.
 - **Message** Message that will appear in the DIY interface this is the message that the users of the DIY will see if an Issue is blocked for some reason. This can be edited by the site to make the messages more meaningful
 - **Type** Item, Patron or System (for Source Type of Messages only) whether the Data will come from the Item, Patron or System Tables of the database
- 2. Check the **Source** details. Generally it will be the Database Type parameters where the values are to be set
 - Type Action, Constant, Database, Incoming or Message

- Null Value Decide whether a null value (empty field) is allowed. Select NotAllowed/Allowed from the Drop-down options (Note: Allowing a null value is rare. Borrower Group is an example where a null value is recommended)
- Value Select the Value as required. This will be dependent on the Instance Type (Patron, Item or System) as well as the Source Type chosen previously
 - If the Source Type is **Database**, the choices in the Database Table and sub Table are further restricted by the **Target Type** which is selected
 - For example if the Instance Type is Patron, the Source Type is Database and the Source Value is chosen from the Borrower Table, the Target Type endeavours to set to a suitable Type automatically
 - Note: All the values possible within the selected Table will display not all are relevant but select only the Value needed for the Source of the Parameter.
 Some of these Values will never be selected but remain in the list for future use if required

Description	Borrower - fine limit		Туре	Patron	×
Message	Your Account has exceeded the allowed limit				
Source Type Null Value Value	Database	Target Type StringList Operator Value		V Special	Apply Cancel Edit
	ationCode StartLocationCode StatusCode	OK Cancel			

If changed to Amount Owing, the Target Type will alter

Description	Borrower - fine limit			Туре	Patron	v
Message	Your Account has exceeded the allowed limit					
Source Type Null Value	Database	Target Type Operator	DecimaWalue		~	Apply Cancel Edit
Value	Borrower	Value			Special	

- 3. Check the **Target** values
 - Type Database, Date Time Value, Decimal Value, Integer Values, String List, String Value.
 - Operator Select the Operator appropriate. For example In, Not In etc.

- Value Select the Database Table and sub Table if relevant
- 4. If the Source Value is a Database Table, select relevant codes from the Special button. Tick the codes and OK

Target List 📃 🗆 🔀
 Adult Bulk Loan Council Staff External agency Family housebound Inter Library Loan Junior Library Staff Traveller
OK Cancel

- 5. When complete, select Apply or Cancel Edit
- 6. On Apply, the relevant data will display in the Target Value column in the top section

	Include	Description	Message	Туре	Source Type	Source Value	Source Value Flag	Operator	Target Type	Target Value	
		Borrower - Exists on database	Invalid borrower	Patron	Incomi	Patron	NotAll	Exists	Datab	Borrow	
8		Borrower - fine limit	Your Account has exceeded the allowed limit	Patron	Datab	Borrow	NotAll	Less	Decim		
	~	Borrower - Group	Not a Member of a permitted Borrower Group	Patron	Datab	Borrow	Allowed	NotIn	StringL		
	~	Borrower - Memo count	Please call at the Information Desk as we have a m	Patron	Action	Borrow	NotAll	Less	Integer	1	
	1000			Patron	Action	Borrow	Notál	Less	Integer	1	7
		Check All Uncheck All	You have over due Items on Loan. Please call at t		уре				Create Ins		
	dit										
)esc Mess	dit										- -
)esc Aess	idit ription sage]				×			Apply	
)esc Iess Sol Ty	idit ription sage)								

7. It is necessary to decide which Parameters will be available for the Instance. These can be used for the Parameters to Check, Screen or Print messages fields etc in the Instance messages. It is possible to use the Select All button to include all parameters and then go through and deselect any that will not be needed. Two parameters (Borrower – Exists on database and Item – Exists on Database) cannot be deselected as are used by the majority of messages.

Note: The Parameters that are NOT Selected do not need to have their Target Values created

- 8. Click **OK** to exit and save the parameters set
- 9. **Hint**: If another parameter is to be chosen and the current Parameter is not to be saved, then ensure the **Cancel Edit** button is chosen prior to selecting the next Parameter to Edit. This will not be allowed until the current Parameter is either applied or cancelled

Last Updated: 24 February 2014

Editing Parameters for a Saved Instance

Once the Instance has been created and saved, it is possible to alter the Parameters if required

1. From the Instances Window, highlight the relevant Instance and select Edit Parameters

🔑 Instanc	es	_ 🗆 🗙
	Description	
F	3M - Eastville Branch	
	3M - Johnson Branch	
Nev	w Edit Edit Messages Edit Parameters	Delete
Desc	ription	Apply
	C	ancel Edit
	OK Cancel	

- 2. The Parameters Window will display
- 3. Select a parameter and **Double click** or press **Edit**. The fields will display in the lower section

	Description		Туре	Source Type	Source Value Flag	Operator	Target Type	
	Borrower - CHILD Borrower Type(s)		Patron	Database	NotAllowed	In	StringList	
	Borrower - Exists on database		Patron	Incoming	NotAllowed	Exists	Database	
	Borrower - fine limit		Patron	Database	NotAllowed	Less	DecimaMalue	
	Borrower - Group		Patron	Database	Allowed	Notin	StringList	
	Borrower - Memo count		Patron	Action	NotAllowed	Less	IntegerValue	
	Borrower - Overdues count		Patron	Action	NotAllowed	Less	IntegerValue	
Ed					Туре		Delete	1
	iption				Туре		Delete	C
)escri	iption		Target-		Туре			
)escri 1essa	iption	V	Target		Туре	×	Delete Apply Cancel Ed	
lescri lessa Sour Typ	iption				Туре	× ×	Apply	

- 4. The default Description, Message and Type of the parameter will display as described above
- 5. After each parameter has been set click Apply

<i>β</i> Para	meters						_ 🗆 🛛
	Descript	ion	Туре	Source Type	Source Value Flag	Operator	Target Type 🛛 🔼
	Borrowe	r - CHILD Borrower Type(s)	Patron	Database	NotAllowed	In	StringList
	Borrowe	r - Exists on database	Patron	Incoming	NotAllowed	Exists	Database
	Borrowe	r - fine limit	Patron	Database	NotAllowed	Less	DecimalValue
F	Borrowe	r - Group	Patron	Database	Allowed	Notin	StringList
	Borrowe	r - Memo count	Patron	Action	NotAllowed	Less	IntegerValue
	Borrowe	r - Overdues count	Patron	Action	NotAllowed	Less	IntegerValue 🗹
	dit ription age	New Borrower - Group Not a Member of a permitted Borrower Group		T3	vpe Patron		
Sou	irce		Target-				Apply
Тур	pe	Database 💌	Туре	StringList		~	Cancel Edit
Nu	ll Value	Allowed	Operator	Notin		•	
Val	lue	Borrower BorrowerGroupCode	Value	~		Special	
			ОК	Cancel			

6. To exit the screen click the **OK** button

Delete a Parameter

- 1. Highlight the Parameter
- 2. Click the Delete button.
- 3. A check will be made of the Instance Messages, Values and Fields. If the parameter is being used a message will display listing the Message Number and details of the Messages being referenced:

Amlib SIP 2 Manager 🛛 🔀
The Parameter cannot be deleted as it is referenced by the Instance Message(s) and Field(s) below : 10 - MagneticMedia 12 - ParametersToCheck 12 - MagneticMedia 30 - ParametersToCheck 30 - MagneticMedia
ОК

4. If the Parameter is not referenced it is removed from the Parameter list. A confirmation message will display:



Note: Some parameters are needed and cannot be deleted

Adding a Parameter

- 1. Click the **New** button
- 2. Enter the Description, Message and Type of the parameter
- 3. Enter the Source Fields
 - Type choose from the Drop-down options
 - Null Value Allowed/Disallowed
 - Value Select the Value from the Drop-down options Depends on the Source Type. In some instances a Database Table is selected and a Database
- 4. Enter the **Target** values
 - Type
 - Operator
 - Value and sub Value if needed
- 5. When complete, select Apply or Cancel Edit
- 6. Click OK to leave the Window

Core Parameters

Parameter	Comments/Message display if Fail occurs on the Parameter	Source/Target Examples
ADULT Borrower Type(s)	Identify Borrower Type for any Adult –	Source: Database
	used for populating the information for	Value: Borrower
E	the Response messagerather than	Table: TypeCode
	parameter to check. Enter code/s for	Target: StringList
	Adult patrons	Operator: In
		Value: xxx,xxx from Special
	Message: ADULT Borrower Type	list of codes
CHILD Borrower Type(s)	Identify Borrower Type for any Child -	Source: Database
	used for populating the information for	Value: Borrower
E	the Response message rather than	Table: TypeCode
	parameter to check. Enter code/s for	Target: StringList
	Junior patrons	Operator: In
		Value: xxx,xxx from Special
		list of codes
	Message: CHILD Borrower Type	
Exists on Database	Hardcoded: Must be included as a	Source: Incoming
AU	parameter and cannot be edited,	Operator: Exists
All Vendors	deleted or unselected	Target Type: Database
	Message: Invalid Borrower	
Fine Limit	If a Borrower has Money owing - how	Source: Database
	much the value will be before the Self	Value: Borrower
3M,E,L,T,	Check is halted: Allow the issue where	Table: Amountowing
	the Amount owing is less that 5.00	Target: DecimalValue
		Operator: Less
	Message: Your Account has exceeded the allowed limit	Value: x.xx
Group (Used to set	Not a Member of a Permitted Group	Source: Database
Internet Access)	Code (some sites use the Borrower	Value: Borrower
,	Group code to indicate whether	Null Value: Allowed
E,L,T	Internet is allowed or No Internet)	Value: Borrower
		Table: BorrowerGroupCode
	Message: Not a member of a permitted	Target: Stringlist
	Group	Operator: NotIN
		Value: xx,xx from Special
Memo Count	If a Borrower has a Memo	Source: Action
		Value: Borrower MemoCoun
	Message: Please call at the Service desk	
C I T	as we have a message for you	Target: IntegerValue
E,L,T		Operator: Less
		Value: 1
Overdues Count	If a Borrower has Overdue Items	Source: Action
		Value: Borrower
	Message: You have overdue items on	OverduesCount

3M,E,L, T,	loan. See Library Staff	
- , , , ,	,	Target: IntegerValue
		Operator: Less
		Value: 1
Owing not equal to 0	Borrower has Money owing	Source: Database
5 L C T	a a b b b b b b b b b b	Value: Borrower
E,L,S, T	Message: There is an amount owing on	Table: Amountowing
	your Account. See Library Staff	Target: DecimalValue
		Operator: Equal Value: 0.00
		value. 0.00
PIN required	Borrower needs a Personal	Source: Incoming
	Identification Number in addition to a	Value: Patron Password
3M, E,L,S,T	Barcode	
	Bureoue	Target: Database
	Message: Please enter your PIN	Operator: Equal
	Number	Value: Borrower
		Field: PIN
Registration expired	Check Patron Registration Date	Source: Database
		Value: Borrower
3M,E,L,S,T	Message: Your card is due for re-	Table: RegistrationDate
	registration. See Library Staff	Target: DateTimeValue
		Operator: Greater
		Value: DateNow
ltem		
Alert	An Alert is placed on the Stockitem	Source: Database
		Value: Stockitem
3M,E,L, S,T	Message: This item may not be issued.	Table: UserAlert
	Please take it to the Information Desk	Target: StringValue
		Operator : NotEqual
Allow Cancel of	Allow cancel of Overdue Charge on	Value: Y Source: Constant
overdue Charge on	Return	Value: Y
Return/Checkin	Netum	value. 1
	Note: This parameter only needs to exist	Target: StringValue
E,L,S	on this Table. Leave as a Constant and	Operator : Equal
	will be checked at the time if chosen as a	Value: Y
	Parameter to Check	
Allow	Message: Item Charge cancelled If an item is showing as being on loan	Source: Constant
Issue/Checkout/Renew	already.	Value: Y
when Item On Loan to	an cauy.	
another borrower	Note: This parameter only needs to exist	Target: StringValue
	on this Table. Leave as a Constant and	Operator: Equal
E,L, ,S,T	will be checked at the time if chosen as a	Value: Y
	Parameter to Check	
	Message: This item may not be issued.	

	Please take it to the Information Desk	
Allow	If an item is reserved already.	Source: Constant
Issue/Checkout/Renew		Value: Y
when Item Reserved	Note : This parameter only needs to exist	
by another borrower	on this Table. Leave as a Constant and	Target: StringValue
sy another sorrower	will be checked at the time if chosen as a	Operator: Equal
E,L,S T	Parameter to Check	Value: Y
	Message: This item may not be issued.	
	Please take it to the Information Desk	
Allow Renew of	If an item is Overdue allow renew?	Source: Constant
Overdue Item		Value: Y
	Note: This parameter only needs to exist	
E,L,S,T	on this Table. Leave as a Constant and	Target: StringValue
	will be checked at the time if chosen as a	Operator: Equal
	Parameter to Check	Value: Y
	Message: This item is ovedue and may	
	not be renewed	
Exists on Database	Hardcoded: Must be included as a	Source: Incoming
	parameter and cannot be edited, deleted	Operator: Exists
All Vendors	or unselected	Target Type: Database
Magnatia Madia	Message: Invalid Item	Seuree: Databasa
Magnetic Media	Magnetic Media that should not go	Source: Database Value: Stockitem
3M,E,L,S	through the self check	Table: Form (select as
5101, L, L, J	Message: These are sensitive items and	required)
	•	Target: StringList
	cannot be lent via DIY	Operator: NotIN
		Value: xxx,xxx Select from
		Special (list of codes)
Magnetic Media	Magnetic Media that can go through the	Source: Database
	self check	Value: Stockitem
3M,E,L,S		Table: Form (select as
		required)
		Target: StringList
	Message: These are sensitive items and	Operator: NotIN
	can be lent via DIY	Value: xxx,xxx Select from
		Special (list of codes)
Memo Count	If an Item has a Memo	Source: Action
		Value: Item MemoCount
3M,E, L,T,S,	Message: This item may not be Issue.	
	Please take it to the Information Desk	Target: IntegerValue
		Operator: Less
Not to be removed	Items that should not be removed from	Source: Database
	the Library. Can't go through the	Value: Stockitem
3M,E,L,S,	Desensitise process	Table: Form (select as
		required)
		Target: StringList

	densitised	Operator: NotIN Value: Select from Special (list of codes)
System		
Institution ID	Message: Name of Library	Source: Message
3M,E,L,S,T		Target: StringValue Eastville Library
Print message	Message for Library	Source: Message
3M,E,L,S,T	To display for Reports etc.	Target: StringValue Main Branch
Screen Message	Message for Screen	Source: Message
3M,E,L,S,T	To display on the screen as a Default unless an alternative message displays due to an alert message etc.	Target: StringValue Thank you for using the Eastville Library
3M = 3M, E = Envisio	nware, L = Logitrack, S = Smart Library, T = Tal	king Tech

Source Types and Examples

Action

Predefined actions that may that may be used in Parameters or Message fields

Valid Actions

- Borrower Available Hold Count
- Borrower Issues Count
- BorrowerMemoCount
- BorrowerOutstanding
- BorrowerOverduesCount
- BorrowerUnavailableHoldCount
- ItemCirculationStatus
- ItemMemoCount
- ItemMediaType
- ItemProperties
- CheckinAlertTypeLocation
- Checkin3MChuteAlertTypeLocation
- BorrowerMemoText
- ItemMemoText
- BorrowerMaxOverdueDays

Example

When an Item Memo Count is present, then a message will display "Please call at the Information Desk as we have a message for you" as the result will be False for the Source/Target calculation – so message will display

Description	Item - Memo count		Туре	Item	~
Message	This item may not be issued. Please take it to the Information	on Desk			
Source Type Null Value	Action	Target — Type Operator	Integer/Value	×	Apply Cancel Edit
Value	ItemMemoCount	Value	1	Special	
	(OK	Cancel		

Constant

Value that is fixed and not changed via the Database - Text values

Example

Item Charge cancelled (Source and Target value of Y as a String Value)

Description	Item - Cancel overdue charge allowed/disallowed		Туре	Item	~
Message	Item charge cancelled				
Source		Target-			Apply
Туре	Constant	Туре	StringValue	~	Cancel Edit
Null Value	NotAllowed	Operator	Equal	~	
Value	Υ 🔹	Value	Y	~	Special
		OK	Cancel		

Database

The value is derived from a table and column in the Amlib Database

Valid Table entries:

- Borrower
- Stockitem
- Items On Loan
- Reservation
- Financial Transactions

Once the Table is selected, the columns for that table are available for selection in the second value dropdown.

Note – the first Value is always a Table Name and then the second Value is always a column for from that Table. For example, Borrower in the First column, Borrower Type in the second value column

Example

Description	Borrower - CHILD Borrower Type(s)		Туре	Patron	~
Message	CHILD Borrower Type				
Source Type Null Value Value	Database NotAllowed Borrower TypeCode		StringList In Junior	V V Special	Apply Cancel Edit
		ОК	Cancel		

The Special button displays a Target List which allows for the Values to be selected.

Target List	_ 🗆 🗙
 Adult Bulk Loan Council Staff External agency Family housebound Inter Library Loan Junior Library Staff Traveller 	
OK Cancel	

Incoming

The Value is derived from a field in the Request Message from Vendor. The fields available are dependent on the message type as defined in the SIP2 protocol. This may be a better option than querying the Database to find the Value, as it is fast and efficient

Example of valid Incoming Field Names

- Fee Amount
- Language
- Patron Identifier
- Patron Password
- Item Identifier

Example: Borrower PIN required

	Include	Description	Message	Туре	Source Type	Source Value	Source Value Flag	Operator	Target Type	Target Value
		Borrower - Overdues count	You have over due Items on Loan. Please call at	. Patron	Action	Borrow	NotAll	Less	Integer	1
		Borrower - Owing not equal	You have an outstanding Account. Please call at t	Patron	Datab	Borrow	NotAll	Equal	Decim	0.00
•		Borrower - PIN Required	Please enter your Pin number	Patron	Incomi	Patron	NotAll	Equal	Datab	Borrow
		Borrower - Registration expir	Your registration has expired. Please call at the Info	. Patron	Datab	Borrow	NotAll	Greater	DateTi	DateN
	dit	Item - Δlert Check All Uncheck All Borrower - PIN Required	This item mau not be issued. Please take it to the l		Datab ype	Stockit	Notêll	NotEn	String Create In:	
Desc	dit	Check All Uncheck All Borrower - PIN Required	This item mau not be issued. Please take it to the l				Notàl	NotEa		stance
Desc Mess	dit ription age	Check All Uncheck All					NotAll	NotEo		
Desc Mess	dit	Check All Uncheck All Borrower - PIN Required	Target				NotAll	NotEo		stance
Desc Mess	dit ription age	Check All Uncheck All Borrower - PIN Required					Notàll	NotEn		stance [
Desc Mess Sou Ty	dit ription age	Check All Uncheck All Borrower - PIN Required Please enter your Pin number	Target					NotFa		stance r Apply

Message

The Value is text only and no Target value needs to be defined.

Fields within messages where these may be used are

- Screen Message used as a defaults unless an Error Message displays
- Print message for slip printers depending on the SIP2 client
- Institution ID: Library Name

	neters					-0
	Description	Туре	Source Type	Source Value Flag	Operator	Target Type
1	Item - Memo count	Item	Action	NotAllowed	Less	IntegerValue
1	Item - Not to be removed	Item	Database	NotAllowed	Notin	StringList
•	System - Institution Id	System	Message	NotAllowed	Equal	StringValue
9	System - Print message	System	Message	NotAllowed	Equal	StringValue
	System - Screen message	System	Message	NotAllowed	Equal	StringValue
Descript						
Messag				Type System		×
	e Eastville City Library	Target		Type System		
Messag	e Eastville City Library		tringValue	Type System	v	
Messag - Sourc	ge Eastville City Library Message	V Type S		Type System	v v	
Messag - Sourc Type	ge Eastville City Library Message Value NotAllowed	V Type S	tringValue qual	Type System		Cancel Edit

Target Types

If the <u>Source Type</u> = <u>Database</u> then the available Target Types are derived from column definition in the Amlib database.

- Database derived from the Database values
- DateTime Value Date and Time
- Decimal Value Numbers showing decimal places
- Integer Values Number Values
- String List List of Alpha/Numeric codes
- String Value Value which may be Alpha/Numeric

Operator

Operator used when evaluating Source and Target Values.

The values available for selection are dependent on the Source and Target Type.

- Exists (special case for Borrower, Item Lookup)
- Equal
- Not Equal
- Greater
- Less
- Greater Than or Equal
- Less Than or Equal
- In
- Not In

Edit Messages

The Instance Messages window will display. Apart from one, Messages are linked as pairs, with a Request and a Response together. For example a Checkin Request is linked to a Checkin Response.

Block Patron is an exception to this and is a separate Request Message with no linked Response

This Window displays :

- 1. Number of the Message this is the Standard No for SIP2 and cannot be altered
- 2. Description of the Message
- 3. Message Type:
 - **Request** <u>Cannot</u> be edited
 - Response Can be edited

Note: When clicking on a Request line, the Edit button remains grey because only Response messages can be edited

J	🗿 Insta	nce Mes	sages		
	Instance	∋ 3M - E	astville Branch		
		Number	Description	Туре	<u>^</u>
	F	9	Checkin	Request	≣
		10	Checkin Response	Response	
		11	Checkout	Request	
		12	Checkout Response	Response	
		15	Hold	Request	
		16	Hold Response	Response	~
	Ad	ld 🛛	Edit Fields	Delete	
			ОК		

- 4. Click on any Response Message to be edited. The Edit button will display
- 5. For example, click on Hold response

Checksum System InstitutionId Parameter ItemIdentifier Incoming Ok System	•	Field	Type System	^
ItemIdentifier Incoming Ok System				=
Ok System		InstitutionId	Parameter	
		ItemIdentifier	Incoming	
ParametersToCheck Parameter		Ok	System	
		ParametersToCheck	Parameter	

- 6. The <u>Message fields</u> relevant to the **Response** will display
- 7. Fields are different Types
 - System: Defined from a predefined process. Cannot be edited
 - Database: Value is a Database Lookup (Table, column/s & formatting)
 - Parameter: Value is dependent on Parameter(s) check (Boolean Fields only)
 - Incoming: Value is from an Incoming Field in the request message
 - Action: Value is from a predefined action
 - **Constant**: Value does not change

Adding a New Message to the Instance

New Fields can be added if the parameter allows. This depends on the Vendor chosen and the Instances Messages already defined

- 1. From the Instance Messages Window select the Add Button
- 2. The <u>Add Message Instance</u> window will display where any <u>Master Messages</u> available to add will be listed

🖗 Add Me	essage					
Instance	3M - No	nthville Branch				
Include	Number	Description				
	1	Block Patron				
	29	Renew				
Select /		nSelect All				
	(OK Cancel				

- 3. Click the Include checkbox if to be included. Master Message to add or Select All to tick All Messages
- 4. Select OK
- The selected Message will now list in the Instance Message Table. Note: The accompanying Response Message will also be added. For example, if Renew (Message 29) is added, the linked Response (Message 30 – Renew Response) will also be added

	ince Mes e 3M - N	Northville Branch	<u> </u>	
	Number	Description	Туре	^
	23	Patron Status Request	Request	
	24	Patron Status Response	Response	
	29	Renew	Request	≡
	30	Renew Response	Response	
<u> </u>	35	End Patron Session	Request	
	36	End Session Response	Response	~
A	bt	E dit Fields	De	ete
		ОК		

Edit Fields

Where Fields exist for Instance messages, it is possible to Edit the actual Fields of the Message

1. <u>Highlight</u> the message and select Edit Fields

Last Updated: 24 February 2014

2. The Message Fields Window will display

	Field	Туре
Þ	Desensitize	Action
	DueDate	System
	InstitutionId	Action
	ItemIdentifier	Action
	MagneticMedia	Action
	Ok	System
	Add Edit Type Edit Values	Delete
T	уре	Apply Cancel Edit

- 3. It is possible to alter either Add or Edit the Type or Values
- 4. To Add a Message Type
 - a. Select **Add**. Any Master Field not yet applied to the Instance will display. Select any Message Fields to add by clicking into the Include Checkbox
 - If most parameters are to be included select the **Select All** button and revise to uncheck any not to be included
 - To uncheck most of the parameters there is an **Unselect All** button that may be useful
 - The Fields are listed with the Field Description and the Message Field Type

Add Fi	eld 3M - Northville Branch			
Message	30 Renew Response			
Include	Description	Туре		^
	Checksum	System	~	
	Currency Type	Action	~	
	Fee Amount	Action	~	
	Fee Туре	Action	~	
	Item Properties	Action	~	
	Media Type	Action	~	
	Parameters To Process	Parameter	~	
	Print Line	Action	~	
	Screen Message	Action	~	~
Select	All UnSelect All OK Cancel)		

Note: Some of the Response Messages may already be included. This is because they are required Fields in the Standards

- b. It is possible to alter the Message Type by selecting from the Drop-down options.
 This will depend on the Message and guidance sort from the 3M Standard
 Interchange Protocol. The Message Type will be one of the following:
 - Action
 - Constant
 - Database
 - Incoming
 - Parameter
 - System (Note: These cannot be altered to another Type)

	ata 3M - Northville Branch 30 Renew Response		
Include	Description	Type	^
	Checksum	System	
	Currency Type	Action	
	Fee Amount	Action	
	Fee Туре	Action	
 Image: A start of the start of	Item Properties	Action	
	Media Type Parameters To Process Print Line Screen Message	Action Constant Database Incoming Parameter Action	
Select /	All UnSelect All OK Cancel]	

c. The Message Field will appear in the list

	Field	Туре
	Desensitize	Action
	DueDate	System
	InstitutionId	Action
	ItemIdentifier	Action
•	ItemProperties	Action
	MagneticMedia	Action
,	Add Edit Type Edit Values	Delet
Т	уре	Apply Cancel Edit

To Edit Values

There should be at least one value for each Message Field (except System Fields which do not require a Value)

1. <u>Highlight the Message Field</u>

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- 2. Select Edit Values from the Message Fields Window
- 3. The elements of the Response Packet will display
- 4. New elements can be added by clicking on the **New** Button. This will depend on the Vendor and what is required to be contained in the Response packets back to the Vendor. It will also depend on what Type of Field is identified.
- 5. If a Database Field, the first value on the Field Value table is the <u>Table name</u> from which to derive the data. The second value <u>must</u> always be a column name for the table. The Table names include:
 - a. Borrower
 - b. Financial Transactions
 - c. Items on Loan
 - d. Reservation
 - e. Stockitem

[©] Field	Values			_ 0
Instan	ce 3M - Eastville Branch	Messag	e 64 Patron Information Res	sponse
Field	ChargedItems	Туре	Database	
	Value		Туре	
•	ItemsOnLoan		None	
	Barcode		None	
			None	
	Line1		None	
Ne	w Edit	Up Down		Delete
Value -		· · · · · · · · · · · · · · · · · · ·		Apply
Туре		V	Lar	ncel Edit
		OK		

SIP2 Manager – Setting up Instances, Parameters and Messag
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Field	Valu	es				
Instan	ce 3 1	M - Northville Branch		Message	30 Renew Response	
Field	Pa	tronldentifier		Туре	Database	
	Value	9			Туре	
•	Borro	wer			None	
	Barco	ode			None	
Ne	W	Edit	Up Down	-		Delete
Value -		Borrower Borrower	~	S	pecial	Apply
Туре		FinancialTransactions ItemsOnLoan Reservation				Cancel Edit

6. The other Values that can be selected depend on the Table Name. If this first selection Value is edited and changed, then the other Values are no longer Valid and will require reselection.

AmtibSIP 2 Manager
Changing the table name from Borrower to ItemsOnLoan requires column values and text to be re-entered. Continue with change?
<u>Y</u> es <u>N</u> o

- Once the Table name has been selected, click the Special Button to choose the other <u>Column</u> <u>Values</u>. These_ can be selected from a <u>Drop-down box</u> to be selected and moved to the Column
 - a. Select the Value from the Drop-down box
 - b. Click the Column button to move it to the Selection box
 - c. Text or Spaces can be added. Enter the relevant Text in the right hand Text Field and select the Text button to move it to the Selection box. Note: Spaces can be added here to make it easier to read and is indicated as a <space> in the Selection box
 - d. Click **OK** to save the Table Column Values or click Cancel to exit

<< Column	BorrowerBarcode
Remove >>	
	<< Text

8. If Cancel is selected a <u>confirmation</u> will display

AmlibSIP2 Manager	K
Save changes before exiting?	
Yes <u>N</u> o Cancel	

- 9. Select **Yes** to Save the changes, **No** to exit without Saving and **Cancel** to remain on the Window for further editing
- 10. Message Values can be moved up and down the list by using the Up and Down buttons with the exception of a Database Type field where the first value is always the Table and the second must be a valid column name.
 - a. Highlight the Value line to move
 - b. Click on the Up or Down button as required
 - c. Click OK when the Order is fixed correctly

Delete Instance Message

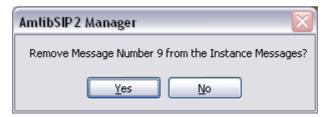
From the Instance Messages Window highlight the Message line to delete and select the Delete Button

If the Request line is deleted the Response part of the pair will also be deleted. The Response part cannot be deleted separately

Warning: Deleting Instance Messages would *not normally* be necessary unless advised from the Vendor that the Request packets are no longer sent

A confirmation message will be displayed. Select Yes to delete and No to cancel

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ParametersToCheck

ParametersToCheck is special field in response messages except Status and is used by the Amlib SIP2 Server to perform validation and depending on the result, set field values in the response message or stop processes such as Checkout

The ParametersToCheck field for a message contains values which are parameters that have been defined for the instance. The evaluation of the Source and Target value for the parameters return a true or false result. All parameter results are combined using Boolean And to produce an overall true or false result.

If the overall result is false then the process such as Checkout will not proceed or the patron status will be set to invalid in response to a patron information request.

Parameter Source and Target values can be modified or removed from or added to the ParametersToCheck field to alter the validation rules for the Instance Response message.

To Edit or Add the Values:

- 1. From the Instances menu, select Instances. Highlight the relevant Instance
- 2. Select Edit Messages. The Instances Messages Window displays
- 3. Highlight the relevant Message. For example Number 12 Checkout Response

🖗 Inst	ance Mes	sages]>
Instan	ce 3M - V	¥estville Branch		
	Number	Description	Туре	
	1	Block Patron	Request	≣
	9	Checkin	Request	
	10	Checkin Response	Response	
	11	Checkout	Request	
►	12	Checkout Response	Response	
	15	Hold	Request	~
	dd (Edit Fields	Delete	
		ОК		

- 4. Select Edit Fields
- 5. The Message Fields Window will display
- 6. Scroll to ParametersToCheck
- 7. Click Edit Values

	Field	Туре	
	MediaType	Action	
	Ok	System	
	ParametersToCheck	Parameter	
	ParametersToProcess	Parameter	
	PatronIdentifier	Incoming	
	PrintLine	Parameter	
A	dd Edit Type Edit Values		Delete

8. The Field Values Window will display

9. Highlight the **ParametersToCheck**

⁹ Field	Values	
Instan	ce 3M - Westville Branch Messa	age 12 Checkout Response
Field	ParametersToCheck Type	Parameter
	Value	Туре
•	Borrower - Exists on database	None
	Borrower - PIN Required	And
	Borrower - Memo count	And
	Borrower - Owing not equal to 0	And
	Borrower - fine limit	And
	Borrower - Registration expired	And
Ne Value	Edit Up Down	Delete Special Apply
Туре		Cancel Edit
	ОК	

Note: Some Values are needed by the system and <u>cannot</u> be removed. The Delete button will remain Grey for these Values. For example, Borrower – Exists on Database, Item – Exists on Database

10. To remove a Value from being checked, highlight and select Delete

⁹ Field	Values			_ 0
Instan	ce 3M - Westville Branch	Messa	ge 12 Checkout Response	
Field	ParametersToCheck	Туре	Parameter	
	Value		Туре	^
	Borrower - Exists on database		None	_
	Borrower - PIN Required		And	
	Borrower - Memo count		And	
	Borrower - Owing not equal to O		And	
•	Borrower - fine limit		And	
	Borrower - Registration expired		And	~
Ne	ew Edit	Up Down		Delete
Value		×	Special	Apply
Туре		~	Ca	ancel E dit
		ОК		

- 11. To Add a New value to be checked, select the New button
- 12. Select the Value from the Drop down box

⁹ Field	l Values			
Instan	ice 3M - Westville Branch	Messa	ge 12 Checkout Response	
Field	ParametersToCheck	Туре	Parameter	
	Value		Туре	
۶.	Borrower - Exists on database		None	
	Borrower - PIN Required		And	
	Borrower - Memo count		And	
	Borrower - Owing not equal to 0		And	
	Borrower - Registration expired		And	
	Borrower - Group		And	\sim
Ne Value		p Down	Special	Delete
Туре	Borrower - fine limit Borrower - Type Item - Not to be removed			ancel Edit
		OK		

- 13. As the Fields are combined as a Boolean set, And is the only Type available
- 14. Click Apply to add the Value. Click Cancel Edit if it is not to be applied

ParametersToProcess

ParametersToProcess may be used to allow certain processes to proceed if a defined situation occurs.

There are four available ParametersToProcess values for use with Checkin, Checkout or Renew :

- IssueItemOnLoan (Issue an Item even if it shows to be on loan at the time of the Self Check issue. It returns to item as it would in the normal Issues window). Valid for Message 12 (Checkout response)
- IssueltemOnReserve (Issue an Item even if it is Reserved for another borrower at the time of the Self Check issue). Valid for Message 12 (Checkout response), Message 30 (Renew Response), Message 66 (Renew All Response)
- **RenewOverdueItem** (Allow Renew even though the Item is Overdue for the borrower performing the Self Check issue)If the Parameter exists in the list, it is included in the checking. If the Parameter is not present in the list, it is NOT included in the checking. Valid for Message 12 (Checkout response), Message 30 (Renew Response), Message 66 (Renew All Response)
- **ReturnRemoveOverdueCharge** (Return an Item and remove the Overdue charge that may apply). Valid for Message 10 (Checkin response)

For example, if the Stockitem shows that it is already On Loan, then if the ParametersToProcess includes IssueItemOnLoan, then proceed with the Ioan (acts like an override).

If the decision to **not allow** any Stockitem currently on loan to be issued via the Self Check system, then <u>remove</u> the parameter from the ParametersToProcess by the Delete button.

- 1. From the Instances menu, select Instances. Highlight the relevant Instance
- 2. Select Edit Messages. The Instances Messages Window displays
- 3. Highlight the relevant Message. For example Number 12 Checkout Response

Þ	🤄 Instance	Messages		- 0 🗙
	Instance 31	4 - Westville Branch		
	Nur	nber Description	Туре	<u>^</u>
	1	Block Patron	Request	=
	9	Checkin	Request	
	10	Checkin Response	Response	
	11	Checkout	Request	
	12	Checkout Response	Response	
	15	Hold	Request	~
	Add	Edit Fields		Delete
		OK		

- 4. Select Edit Fields
- 5. The Message Fields Window will display
- 6. Scroll to ParametersToProcess
- 7. Click Edit Values

	Field	Туре
	MagneticMedia	Parameter
	MediaType	Action
	Ok	System
	ParametersToCheck	Parameter
•	ParametersToProcess	Parameter
	PatronIdentifier	Incoming
	Add Edit Type Edit Values	Delet
Т	уре	Apply Cancel Edit

8. The Field Values Window will display

P	^j Field	Values				_ 🗆 🗙
	Instan	ce 3M - Westville Branch	ł	vlessage	12 Checkout Response	
	Field	ParametersToProcess		Туре	Parameter	
		Value			Туре	
	۶.	IssueltemOnLoan			None	
		IssueltemOnReserve			None	
		RenewOverdueItem			None	
	Ne	w Edit	Up Down			Delete
	Value		×	S	pecial	Apply
	Туре		~		C	ancel Edit
	·		ОК			

- 9. To remove a Value from being checked, highlight and select Delete
- 10. To Add a New value to be checked, select the New button
- 11. Select the Value from the Drop down box. Disregard the Type.

🖗 Field	Values			
Instan	ce 3M - Westville Branch	Message	12 Checkout Response	
Field	ParametersToProcess	Туре	Parameter	
	Value		Туре	
۱.	IssueltemOnLoan		None	
	IssueltemOnReserve		None	
	RenewOverdueItem		None	
Ne	w Edit Up Down			Delete
Value Type	ReturnRemoveOverdueCharge None	S		Apply ncel Edit
	OK			

12. Click Apply to add the Value. Click Cancel Edit if it is not to be applied

Last Updated: 24 February 2014

Parameters - Messages Interaction

In Version 5.3 and previous Versions the Amlib DIY parameter indicated the Message, whether to Proceed and the Parameter Number

In the new SIP2 Manager, a parameter exists on the Parameter table for the Instance, as well as being used in the special message field as a ParametersToCheck. Each Parameter on the Table could be used various times within the Master Messages. For example used for CheckOut Response, Hold Response, Patron Status Response etc.

Example : Memo count

Borrower Memo Count

Previous DIY Value: 2

Appears on the Parameter table

	nce Para e 3M - V	∀estville Branch									
	Descripti	on	Message	Туре	Source Type	Source Value	Source Value Null	Operator	Target Type	Target Value	
	Borrower	- Group	Not a Member of a permitted Borrowe	Patron	Database	Borrower,Borrow	Allowed	In	StringList	G	
2	Borrower	- Memo count	Please call at the Information Desk as	Patron	Action	BorrowerMemoC	NotAll	Less	IntegerV	1	
	Borrower	• Overdues count	You have over due Items on Loan. P	Patron	Action	BorrowerOverdue	NotAll	Less	IntegerV	1	
	Borrower	-Owing not equal	You have an outstanding Account. Pl	Patron	Database	Borrower,Amount	NotAll	Equal	Decimal	0.00	
	Borrower	- PIN Required	Please enter your Pin number	Patron	Incomina	PatronPassword	Notèll	Equal	Database	Borrower PIN	
Ed Descrij Messa	ption	New Borrower - Memo cou Please call at the Info	unt ormation Desk as we have a message for	you		Туре	Patron				
Descrij Messa	ption	Borrower - Memo cou				Туре	Patron			Apply	
Descrij Messa	ption [Borrower - Memo cou		you Target Type	IntegerV		Patron	×		Apply	
Descrij Messa So Ty	iption [lige [Borrower - Memo cou Please call at the Info	ormation Desk as we have a message for	Target	Enclose Transie		Patron			Apply Cancel Edi	
Descrij Messa So Tj Ni	iption [lige [burce ype	Borrower - Memo cou Please call at the Info Action	ormation Desk as we have a message for	Target Type	Enclose Transie		Patron	×			

Parameter Type: Patron Source Type: Action Target Type: Integer Value Messages: Can be Included as a Checkout Response (Message 12) – Parameters to Check

			ge 12 Checkout Response	
Field	ParametersToCheck	Туре	Parameter	
	Value		Туре	
	Borrower - Exists on database		None	
	Borrower - PIN Required		And	
•	Borrower - Memo count		And	
	Borrower - Owing not equal to O		And	
	Borrower - fine limit		And	
	Borrower - Registration expired		And	~
Ne	ew Edit	Up Down	De	lete
Value		×	Special App	oly
Туре		¥	Cance	l Edit

Also available in other Master Messages from the Value Drop-down for Parameter s to Check

	Values			
Instanc	e 3M - Westville Branch	Message	16 Hold Response	
Field	ParametersToCheck	Туре	Parameter	
	Value		Туре	
•	Borrower - Exists on database		None	
	Item - Exists on Database		And	
_		_		
Ne	w Edit Up Down			Delete
Ne	w Edit Up Down			Delete
Nev Value	w Edit Up Down		pecial	Delete
	Borrower - Memo count Borrower - fine limit Borrower - Owing not equal to 0 Borrower - PIN Required Item - Alert	s S	pecial	
Value	Borrower - Memo count Borrower - fine limit Borrower - Owing not equal to 0 Borrower - PIN Required	s S	pecial	Apply

SPECIAL SCREEN MESSAGES

It is possible to edit a System Message to include text – for example, to have a Reservation alert first if applicable before a System Message. Another example would be to include a Borrower Memo when a Borrower looks at their details.

Applying a Reservation Message Parameter

- 1. Go to Instances Menu in Sip2 Manager
- 2. <u>Highlight</u> the Instance
- 3. Click Edit Parameters
- 4. The Instance Parameters window will display
- 5. Click New
- 6. Enter the Description of Reservation Message

Descriptio	on	Message	Туре	Source Type	Source Value	Source Value Null	Operator	Target Type	Target Value
Item - Exis	sts on Database	Invalid item	Item	Incoming	ItemIdentifier	NotAll	Exists	Database	Stockitem,Barcoo
System - I	Institution Id	Amlib	System	Message		NotAll	Equal	StringVal	
System - F	Print message	Storytime every Wednesday at 10:30	System	Message		NotAll	Equal	StringVal	
System - 9	Screen message	Welcome to Singleton Public Library	System	Message		NotAll	Equal	StringVal	
	New Reservation messa Reserved at	ge			Туре	System	1		Delete
cription [Reservation messa		- Targat-		Туре	System	n		Delete
cription [Reservation messa	ge	- Target Type	StringList		System	n		
cription [sage [Source	Reservation messa Reserved at			Entering Transce		System			
sage [Source Type	Reservation messa Reserved at Database	▼	Туре	Entering Transce		System	2		

- 7. Enter the Message to be viewed for example, Reserved at
- 8. Enter the Message Type from the Drop-down list this will be System
- 9. Enter the Source Type this will be Database
- 10. Enter the Source Value for the Table choose Reservation from the Drop-down list

- 11. Also enter the <u>Source Value</u> for the *Column* choose **CollectLocation** from the Drop-down list
- 12. Click Apply

Applying a Reservation Message

- 1. Go to Instances Menu in Sip2 Manager
- 2. <u>Highlight</u> the Instance
- 3. Click Edit Message
- 4. The Instance Messages window will display
- 5. <u>Highlight the Response appropriate for example, Checkin Response</u>
- 6. Select Edit Fields
- 7. <u>Highlight</u> Screen Message
- 8. Select Edit Values
- 9. Enter New
- 10. Select the Reservation message from the Drop-down list of Values

🔑 Field	d Value	es						
Instar	nce 3N	I-DIY Parameter Set=1		Message	10 Checkin	Response		
Field	Sci	reenMessage		Туре	Parameter			
	Value	;			Туре			
•	System	m - Screen message			None			
	ew	Edit	Up Dowr			Delete		
	ew		Up Dowr	1		Delete		
Value		Reservation message		✓	pecial	Apply		
Туре		Borrower Memo System - Institution Id		^		Cancel Edit		
		System - Print message Borrower - Registration expir	ed	=				
		Borrower - fine limit Borrower - Overdues count						
		Reservation message Borrower - Exists on database		v				

- 11. Leave the <u>Type</u> as **Or**
- 12. Select Apply

- 13. The <u>Reservation Message</u> will display under the System Screen Message
- 14. Highlight the Reservation message line
- 15. Click Up to move it above the System Screen Message

۶	Field	Values				_ 🗆 🛛
	Instan	ce 3M-DIY Parameter Set=1		Message	10 Checkin Response	
	Field	ScreenMessage		Туре	Parameter	
		Value			Туре	
	۲	Reservation message			None	
		System - Screen message			Or	
l						
	Ne	w Edit	Up Down			Delete
	Value		¥	S	pecial	Apply
	Туре		~			Cancel Edit
			ОК			

- 16. Click OK
- 17. When a Reservation is due for Collection a Reservation Message will display

Applying a Borrower Memo Parameter

- 13. Go to Instances Menu in SIP2 Manager
- 14. Highlight the Instance
- 15. Click Edit Parameters
- 16. The Instance Parameters window will display
- 17. Click New
- 18. Enter the Description of Borrower Memo

SIP2 Manager – Setting up Instances, Parameters and Messages

	Description		Message	Туре	Source Type	Source Value	Source Value Null	Operator	Target Type	Target Value
	Borrower - fine	limit	- You have over \$10 in fees and can	Patron	Database	Borrower Amount	NotAll	Less	Decimal	9.99
	Borrower - Over	rdues count	You have overdue items, please see	Patron	Action	BorrowerOverdue	NotAll	Less	IntegerV	1
	Borrower - Reg	jistration expir	Your membership has expired, please	Patron	Database	Borrower,Registr	NotAll	Greater	DateTim	DateNow
	Borrower Memo	p i	Memo :	System	Action	BorrowerMemoText	NotAll	Equal	StringList	
	Item - Exists on	Database	Invalid item	ltem	Incomina	ItemIdentifier	Notáli	Exists	Database	Stockitem Barcode
escr		ew wer Memo				Туре	System	3		Delete
essa	ription Borro	ower Memo		- Target-		Туре	System	3		
essa S(ription Borro age Memo ource	ower Memo		- Target Type		Туре	System	n		
escr essa S(T	ription Borro age Memo ource fype Act	wer Memo				Туре	System			Apply
essa S(T N	ription Borro age Memo ource Fype Act Vull Value No	wer Memo		Туре		Туре	System	2		Apply

- 19. Enter the Message to be viewed for example, Memo:
- 20. Enter the Message Type from the Drop-down list this will be System
- 21. Enter the Source Type this will be Action
- 22. Enter the <u>Source Value</u> for the *Action* choose **BorrowerMemo Text** from the Drop-down list
- 23. Click Apply

Applying a Borrower Memo Message

- 1. Go to Instances Menu in SIP2 Manager
- 2. Highlight the Instance
- 3. Click Edit Message
- 4. The Instance Messages window will display
- 5. <u>Highlight</u> the Response appropriate for example, Patron Information Response

Þ	Instar	nce Mes	sages		IX
In	stance	3M-DI	Y Parameter Set=1		
		Number	Description	Туре	^
		38	Fee Paid Response	Response	
		63	Patron Information	Request	
Þ		64	Patron Information Response	Response	
		65	Renew All	Request	
		66	Renew All Response	Response	
		98	A C S Status	Response	~
	Ade	d (Edit Fields	Delete	
			ОК		

- 6. Select Edit Fields
- 7. <u>Highlight</u> Screen Message
- 8. Select Edit Values
- 9. Enter New
- 10. Select the Borrower Memo from the Drop-down list of Values

🔑 Field	Values		
Instan	ce 3M-DIY Parameter Set=1	Message 64 Patron Information Resp	onse
Field	ScreenMessage	Type Parameter	
	Value	Туре	
Þ	System - Screen message	None	
Ne	w Edit Up Down		elete
	ew Edit Up Down		siete
Value	Borrower Memo 🗠	Special Ap	ply
Туре	Or 🖌	Cance	el Edit
	OK		

- 11. Leave the <u>Type</u> as **Or**
- 12. Select Apply

- 13. The Borrower Memo will display under the System Screen Message
- 14. Highlight the Reservation message line
- 15. Click **Up** to move it above the System Screen Message

J	⁾ Field	Values				
	Instan	ce 3M-DIY Parameter Set=1	١	lessage	64 Patron Information Response	
	Field	ScreenMessage		Туре	Parameter	
		Value			Туре	
	•	Borrower Memo			None	
		System - Screen message			Or	
	Ne	w Edit	Up Down		Delete	
	Value		v	Sp	pecial Apply	
	Туре		*		Cancel Edit	
			ОК			

- 16. Click **OK**
- 17. If the borrower has a memo, the Screen message field will contain the text for the memo. Otherwise the System Default Screen Message text will be present

Media Types

Media Type is a field is used for statistical purposes by the Envisionware Onestop product.

🏟 Form Codes - STAFF at Wombat Library Main Application Window

In Version 6.0 Media Type is part of the Form definitions

ILL Inter Library Loan Y N N LP Large Print Books Y N Y MAP Map Y N N MUS Music Y N N	Form	Description	Allow Loan	Floating ?	Cat Def Defined	Media Type (SIP2)
CASClasselleINImagazine bound journal audio tapeCDCompact discs - Mus/AudioYNYBound journal audio tapeCDRCDROMYNYNYCHChartYNNCD/CDROMCSComputer SoftwareYNNdiskette book with disketteGAMGamesYNNNILLInter Library LoanYNNbook with CD book with audio 1LPLarge Print BooksYNNotherMUSMusicYNNother	BK	Books	Y	N	N	
CDCompact discs - Mus/AudioYNYbound journal audio tapeCDRCDROMYNYaudio tapeCHChartYNNCD/CDROMCSComputer SoftwareYNNdisketteGAMGamesYNNbook with diskettILLInter Library LoanYNNbook with cDLPLarge Print BooksYNYbookMUSMusicYNNother	CAS	Cassette	Ý	N	Y	
CDRCDROMYNYaudio tape video tapeCHChartYNNCD/CDROMCSComputer SoftwareYNNdisketteGAMGamesYNNbook with diskettILLInter Library LoanYNNbook with CDLPLarge Print BooksYNYbookMAPMapYNNotherMUSMusicYNNother	CD	Compact discs - Mus/Audio	Y	N	Y	bound journal
CSComputer SoftwareYNNCD/CDROM disketteGAMGamesYNNbook with disketteILLInter Library LoanYNNbook with CD book with audio 1LPLarge Print BooksYNYMAPMapYNNotherMUSMusicYNNother	CDR	CDROM	Y	N	Y	audio tape
CSComputer SoftwareYNNdisketteGAMGamesYNNbook with disketteILLInter Library LoanYNNbook with CDLPLarge Print BooksYNYMAPMapYNNotherMUSMusicYNNother	СН	Chart	Y	N	N	video tape
ILL Inter Library Loan Y N N LP Large Print Books Y N Y MAP Map Y N N MUS Music Y N N	CS	Computer Software	Y	Ň	N	
ILL Inter Library Loan Y N N LP Large Print Books Y N Y MAP Map Y N N MUS Music Y N N	GAM	Games	Y	N	N	book with diskette
LPLarge Print BooksYNYbookMAPMapYNNotherMUSMusicYNNother	ILL	Inter Library Loan	Y	N	N	
MUS Music Y N N other	LP	Large Print Books	Y	N	Y	
	MAP	Мар	Y	N	N	other
PAM Pamphlet Y N N other	MUS	Music	Y	N	N	other
	PAM	Pamphlet	Y	Ň	N	other
PER Periodical Y N N magazine	PER	Periodical	Y	N	N	magazine
VID Videorecording Y N Y video tape	VID	Videorecording	Y	Ň	Y	video tape

The Media Type is included in the Response messages with the value of the Field derived from the Form code being processed:

- 10 Checkin response
- 12 Checkout response
- 18 – Item information response
- 30 Renew response ٠

The valid values for the Media Type field are:

000- Other

- 001 Book
- 002 Magazine

003 - Bound Journal

- 004 Audio Tape
- 005 Video Tape

- 0

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006 - CD/CDROM

- 007 Diskette
- 008 Book with Diskette
- 009 Book with CD
- 010 Book with Audio Tape

	Field	Туре	^
	InstitutionId	Parameter	
	ItemIdentifier	Incoming	
	MagneticMedia	Parameter	
•	MediaType	Action	
	Ok	System	
	ParametersToCheck	Parameter	~
	Add Edit Type Edit Values	Del	ete
٦	Гуре	Apply Cancel Edit	

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Appendix A: Customise PDF help Files

Location of Original Help Files

The original text version of the Help > Getting Started and Help > Procedure Manual can be located in the AmlibSIP2/HelpDocs folder on the Amlib server. These files may be customised to incorporate information specific to your institution and then linked to the Amlib SIP2 Manager client.

The two files are:

- SIP2GettingStarted.doc
- SIP2ProcedureManual.doc

Once modified they can be saved in PDF format

. The altered file should be saved with a new name (for example: **SIP2GETSTAT.DOC** to avoid being overwritten during an upgrade.

Link to an Updated File

- 1. Launch the Amlib SIP2 Manager client
- 2. The initial screen shows the current processes
- 3. From the menu, select File > Properties a blank Properties screen will display
- 4. The <u>File Paths</u> to the **Getting Started** guide and the **Procedure Manual** will both be showing.
- 5. To link to an updated guide:
 - a. Click on the 🛄 button next to the file you want to alter
 - b. Navigate to the location of the customised file
 - c. **Select** the file and click on the **Open** button the File Path to the document will be updated
 - d. Click on **OK** button when complete

Appendix B: SIP/SIP2 Messages and Fields Supported by Vendor Type

3M Self Check

SIP	SIP2
• 97 – Request ACS Resend	• 63 – Patron Information
• 99 – SC Status	• 35 – End Patron Session
• 23 – Patron Status Request	• 17 – Item Information
• 01 – Block Patron	• 29 – Renew
• 11 – Checkout	• 65 – Renew All
• ¹ 09 – Checkin	• 37 – Fee Paid

¹SIP2 Extensions are used in the response packet:

• **CV** field – Alert type

The following alerts are checked for:

VALUE	STATUS
• 01	hold for this library
• 02	hold for other branch
• 04	• send to other branch

- **CT** field Destination Location
- CY Field Hold Patron ID
- **DA** Field Hold Patron Name

TalkingTech iTiva

SIP	SIP2
• 97 – Request ACS Resend	• 63 – Patron Information
• 99 – SC Status	• 35 – End Patron Session
• 01 – Block Patron	• 17 – Item Information
	• 29 – Renew
	• 65 – Renew All
	• 15 – Hold

STi LogiTrack RFID

**No packet checksum is generated for this device.

SIP	SIP2
• 97 – Request ACS Resend	• 63 – Patron Information
• 99 – SC Status	
• 23 – Patron Status Request	
• 11 – Checkout	
• 09 – Checkin	

EnvisionWare

SIP	SIP2
• 97 – Request ACS Resend	• ¹ 63 – Patron Information
• 99 – SC Status	• 35 – End Patron Session
• 23 – Patron Status Request	• 17 – Item Information
• 01 – Block Patron	• 29 – Renew
• 11 – Checkout	• 65 – Renew All
• ² 09 – Checkin	• 37 – Fee Paid

¹Special fields or formatting are used in the response packet:

Non standard fields:

- **ZY** field Using Borrower type (either **ADULT** or CHILD or no **ZY** field)
- PA field Internet access using Borrower group (I = Internet OK / NI = No Internet)

Non standard format in fields:

- **AT** field Overdue items:
 - Item Barcode <space>Item due date<space>Issuing location<space>\$0.00<space>Item title
- AV field Fine/Fees:
 - **o** Transaction id <space>\$Fine amount<space> Fine type<space> Item title/comments
- **AS** field Available Hold items:

Item Barcode <space>Reserve location<space>Reserve Date<space>\$0.00<space>b<space>Item title

- **CD** field Unavailable Hold items:
 - Item Barcode <space>Reserve location<space>Reserve
 Date<space>\$0.00<space>b<space>Item title

²SIP2 Extensions are used in the response packet:

• **CV** Field – Alert type

The following alerts are checked for:

VALUE	STATUS
• 01	hold for this library
• 02	hold for other branch
• 04	• send to other branch

- **CT** field Destination Location
- CY Field Hold Patron ID
- **DA** Field Hold Patron Name

OverDrive

SIP	SIP2
• 97 – Request ACS Resend	• 63 – Patron Information
• 99 – SC Status	
• 23 – Patron Status Request	

Wheelers

SIP	SIP2
97 – Request ACS Resend	• ¹ 63 – Patron Information
• 99 – SC Status	
• 23 – Patron Status Request	

¹Special fields are used in the response packet:

Non standard fields:

• **PD** field –Borrower Date of Birth in yyyymmdd format

<u>SmartLibrary</u>

SIP	SIP2
• 97 – Request ACS Resend	• 63 – Patron Information
• 99 – SC Status	• 35 – End Patron Session
• 23 – Patron Status Request	• ¹ 17 – Item Information
• 01 – Block Patron	• 29 – Renew
• 11 – Checkout	• 65 – Renew All
• ² 09 – Checkin	

¹Special fields or formatting are used in the response packet:

Non standard fields:

- **CR** field Item collection code
- **CS** field Item Call Number

The fields are separated by a **^** character

²SIP2 Extensions are used in the response packet:

- **CR** field Item collection code
- **CS** field Item Call Number
- **CT** field Destination Location
- **CV** Field Alert type

The following alerts are checked for:

VALUE	STATUS	
• 02	 hold for this library 	
• 03	hold for other branch	

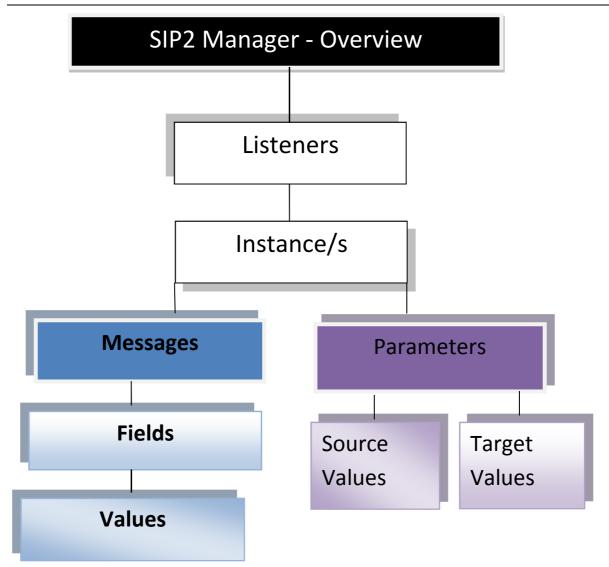
- **CY** Field Hold Patron ID
- DA Field Hold Patron Name

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Appendix C: Master Message Parameters

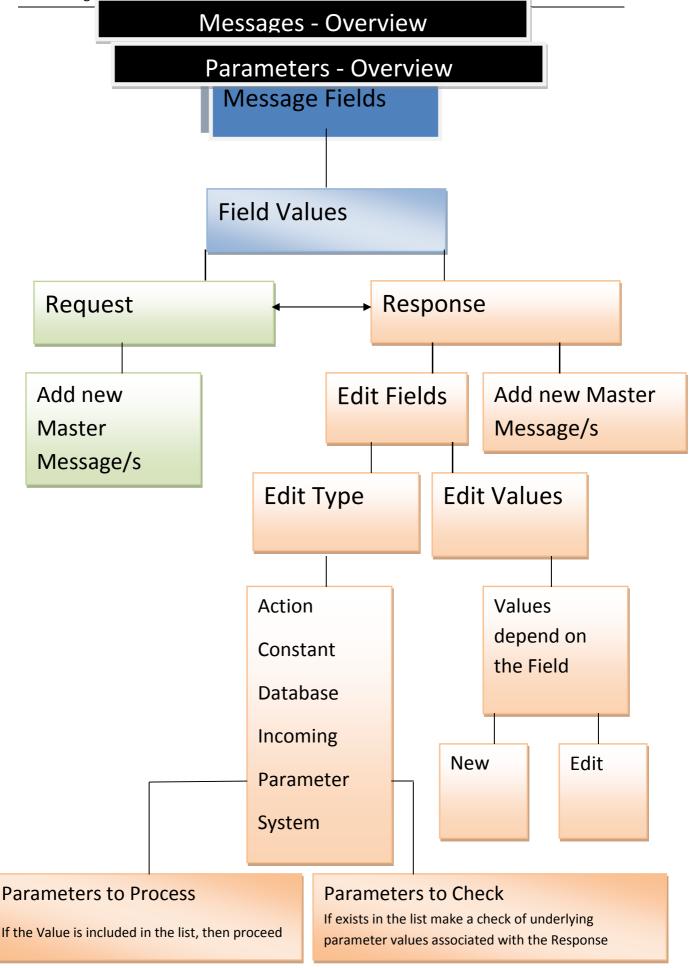
	Request	No of	Response
		Partner	
		Response	
01	Block Patron	24	Patron Status Response
09	Checkin	10	Checkin Response
11	Checkout	12	Checkout Response
15	Hold Cancel	16	Hold Response
17	Item Information	18	Item Information Response
23	Patron Status Request	24	Patron Status Response
29	Renew	30	Renew Response
35	End Patron Session	36	End Session Response
37	Fee Paid	38	Fee Paid Response
63	Patron Information	64	Patron Information Response
65	Renew All	66	Renew All Response
99	SC Status	98	A C S Response

Request and Response Message types supported

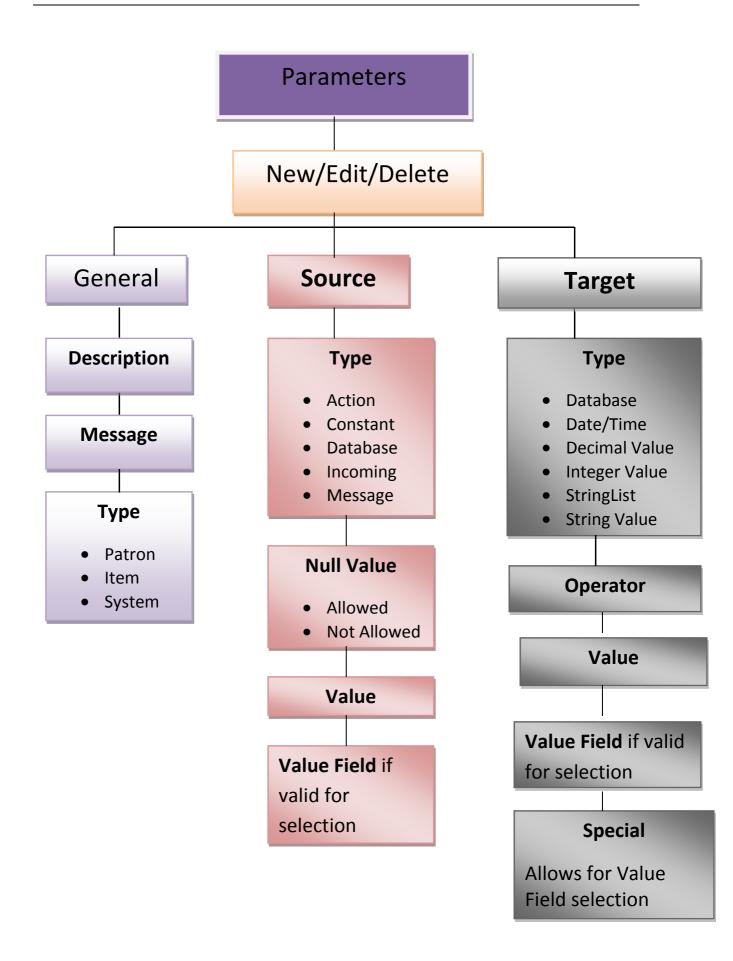


Appendix D: Flowcharts: Overviews of Manager, Parameters, Messages

SIP2 Manager - Setting un Instances, Parameters and Messages



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Glossary

For more detailed explanations of the Master Messages please refer to the 3M Standard Interchange Protocol, Version 2.00

ACS: Automated Circulation Software which is Amlib in this context

Action: Predefined valid action that may be defined that has relevance to the Vendor . Used for Source values of Parameters. Examples include Borrower Issues Count, Item Memo Count etc.

Block Patron: Request Message that the patron card be blocked by Amlib due to a reason raised at the Self Check device due to tampering or because a card was left in the device. Request Message 01 – Response Partner is 24 Blocked Status Response

Configuration Manager: Contains the database settings and a SIP2 Server Tab with Server settings

Checkout: Request Message (Message11) used by the Self Check device to process an Issue (Loan) of an Item. Respond with Checkout Response (Message12). This Request has a series of Amlib Parameters to Check and Parameters to Process as well as undergoing Amlib Circulation Checks (for example Loan Privileges)

Checkin: Request Message (Message9) used by the Self Check device to process a Return of an Item. Respond with Checkin Response (Request Message10). This Request has a series of Amlib Parameters to Check and Parameters to Process as well as undergoing Amlib Circulation Checks (for example Loan Privileges)

Constant: A uniform Value entered as Text that will remain the same under different circumstances. Used for Source values of Parameters. This Value is fixed

Database: Fields and Values are derived from the Tables and Columns within the Database structure. At least 2 String entry Values are needed – the actual Table name and a Column field

Fields: Standard SIP2 Message Fields contain Values that make up a Response Packet. These are defined within each Master Message and contain information such as Fee Amount, RenewalOK . They are sent as a Field ID within the packet - For example AA (Patron Identifier). The can be of varying types – Action, Constant, Database, Incoming, , Parameter, System. There are also Fields that contain Value for Parameters to Check and Parameters to Process that impact on whether the Response will be actually sent or stopped

Incoming: Source Type is determined by the Request packet and contains Field Names relevant to the Vendor in the Message being received.

Instance: Set of Parameters that can be customised by a site to suit the connection activity between Amlib and a Vendor for SIP2

IntegerValue: Number Value

Instance Messages: SIP2 communication includes a Request as well as a Response, so consists of Message pairs. Each Message pair is independent of previously sent or future Message pairs. Each Message has a standard number e.g. Checkout Response is Message 12

Instance Message Fields: The Fields and associated Values that make up a Message. For example, a Checkout Response, Message 12 may be made up of several Message Fields which contains Values e.g. Renewal OK, Fee Amount etc.

Listener: The Network computer that will receive messages from SIP2 devices via TCP/IP connections. It is possible to have different Listeners for each Instance. When defining the Listener an IP Address or Host Name can be used

Master Messages: The entire set of Request and Response Standard Messages and Standard Numbers supported for SIP2. These Messages contain Master fields. See <u>Master Messages</u>

Multi threaded SIP2: Supports multiple TCP/IP connections on a defined port from SIP2 Clients

Packet Format: Messages from and to the Client to Amlib. Each message packet starts with a command identifier, followed by field values and ending in a carriage return. Generally contains ASCII characters

Port Number: Defined Port Number which is used by the Server to "listen' for the incoming TCP/IP connections from SIP2 clients

Request: A coded message (Message type 0) requesting information from Amlib. This can take many forms and usually results in a Response that is paired. For example a Checkout request is received and a Checkout Response packet is returned

Response: A coded message (Message type 1) responding to a Request and results in information being sent back. These can take many forms and usually results in a Response that is paired. For example a Checkout request is received and a Checkout Response packet is returned

SIP2: **Standard Interchange Protocol** provides communication between the Amlib Library system and other computer based applications via TCP/IP connections on defined Ports usually in range 6000 and above

SIP2 Server: Runs the SIP2 Service (AmlibSIP2Service) in Windows

SIP2 Manager: Client program which maintains the SIP2 Parameters used by the Server

Source: Source Values within the Parameters are combined with Target Values, are used with an Operator to return a True/False response. The Source Values will depend on the Type of Parameter and the column names available etc. Often it is easiest to decide on the Target Type required to limit the Source Values appropriate. For example find the Borrower Columns available in the Source Values Targets

StringValue:

An Alpha Numeric (Letter and/or Number) Value which can be picked up from the Database. For example Y or RM12

StringList: A List of Code Values that can be selected from the Special button (once selected it displays a list of codes to be selected by clicking the Check box of the relevant codes). One or more codes can be selected

Target: Target Values within the Parameters are combined with Source Values, are used with an Operator to return a True/False response.

Values: Information contained for the Fields. The Values are defined for the Parameters as Target Values and form the basis of the response field.

Clarifications

- When setting the Target Values for the <u>Borrower Fine Limit</u>, ensure that the Borrower Table / AmountOwing is used. The Outstanding Amount from the FinancialTransactions Table refers to individual Transactions and *not* the total owing
- StartLocationCode in the Borrower Table is the Location Joined (Location code where the Borrower joined the Library) – would not be used much for SIP2 but available in case

Appendix E: DIY Parameters applicable to SIP2

Borrower Type Parameters

Туре	No.	Parameter Settings – No in brackets indicates Database value	Message	Description
В	2	Action(4) BorrowerMemoCount(3) Less(4) IntegerValue(1) 1	Please call at the Information Desk as we have a message for you	Borrower has memo
В	3	Action(4) BorrowerOverduesCount (2) Less(4) IntegerValue(1) 1	You have overdue items on Loan. Please call at the Information Desk	Borrower has overdues
В	4	Database(0) Borrower(0) AmountOwing Equal(1) DecimalValue(2) 0.00 (see B30)	You have an outstanding account. Please call at the Information Desk	Borrower owes money
В	6	Database(0) Borrower(0) RegistrationDate Greater(3) DateTimeValue (4)	Your registration has expired. Please call at the Information Desk	Borrower has expired

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		DateNow		
		(Current Date)		
В	7	Incoming(1) Field=PatronPassword(AD) Equal(1) Database(0) Borrower(0)	Please enter your Pin number	Borrower Pin No. Required if Proceed = Y
		PIN		
Туре	No.	Parameter Settings	Message	Comment
В	10	If Group Codes in message Database(0) Borrower(0) BorrowerGroupCode Null source value=Allowed(1) If Proceed Y In(7) Else NotIn(8) StringList(0) (Group codes from message)		Borrower group(s) with preceding hyphen If Proceed =Y List of permitted groups If Proceed =N List of prohibited groups
В	14	If Proceed Y Include message 01 Block Patron request	Update borrower status if instructed by device	3m Update status Process 01 Block Patron request
B S	17	Message	Amlib Public Library	Institution Id
B S	20	Message	Welcome to the Library	3m Screen message
B S	21	Message	Happy Christmas	3m Print message

В	30	Database(0)	3100Your Account has exceeded the allowed limit	Borrower fine limit - The 1st 4 digits
		Borrower(0)		are limit in cents
		AmountOwing		
		Less(4)		
		DecimalValue(2)		
		(value from message)		
		(see B4)		
В	33	If Type Codes in message		Borrower type(s) with preceding
		Database(0)		hyphen which are classed as ADULT
		Borrower(0)		
		TypeCode		
		ln(7)		
		StringList(0)		
		(Type codes from message)		
В	34	If Type Codes in message		Borrower type(s) with preceding
		Database(0)		hyphen which are classed as CHILD
		Borrower(0)		
		TypeCode		
		In(7)		
		StringList(0)		
		(Type codes from message)		
S	1	If Proceed Y	This item may not be issued. Please take it to the	Item already on loan
		ParametersToProcess	Information Desk	
		IssueltemOnLoan		
S	2	Action(4)	This item may not be issued. Please take it to the	item has memo
		ItemMemoCount(6)	Information Desk	
		Less(4)		
		IntegerValue(1)		
		1		

S	3	D	This item may not be issued. Please take it to the	item has alert
		STK_OPER_ALERT	Information Desk	
		Not Equal		
		S		
		(Y)		
S	4	Database(0)	This item may not be issued. Please take it to the	item has alien reserve
		Stockitem	Information Desk	
		UserAlert		
		NotEqual(2)		
		StringValue(3) Y		
S	5	If Proceed Y	Item charge cancelled	If PROCEED = Y Check for item
		ParametersToProcess		charge on return and cancel
		ReturnRemoveOverdueCharge		
S	7	No conversion – uses Circulation	You may not borrow this type of Item	No loan allowed
		Parameters		
S	8	No conversion – uses Circulation	You may not renew this type of item	No renewal allowed
		Parameters		
S	9	No conversion – uses Circulation	You have renewed this too often already	Renewal limit exceeded
		Parameters		
S	10	No conversion – uses Circulation	This item may not be borrowed	Item not for loan
		Parameters		
S	11	If Proceed Y	Item is overdue and may not be renewed	Renew Overdue Item
		ParametersToProcess		
		RenewOverdueItem		
S	12	No conversion – uses Circulation	You have too many items on loan already	Max Items Reached
		Parameters		
S	13	No conversion – uses Circulation	You have too many items of that type on loan	Exceeded Form Limit
<u> </u>		Parameters		
S	14	If Form Codes in message		Magnetic media

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		Database(0) Stockitem FormCode If Proceed Y In(7) Else NotIn(8) StringList(0) (Form codes from message)		Item form code(s) with preceding hyphen If Proceed =Y List of permitted form codes If Proceed =N List of prohibited form codes
S	15	If Form Codes in message Database(0) Stockitem FormCode If Proceed Y In(7) Else NotIn(8) StringList(0) (Form codes from message)		Magnetic media Item form code(s) with preceding hyphen If Proceed =Y List of permitted form codes If Proceed =N List of prohibited form codes
S	16	If Form Codes in message Database(0) Stockitem FormCode In(7) StringList(0) (Form codes from message)		Items not to be removed from library eg Reference Item form code(s) with preceding hyphen
S	21	No conversion – uses vendor conversion default Checkin message CY field-Borrower barcode	The returned item is on reserve to another borrower	Return reserved item

	DA field-Borrower Name	
	CV field-Alert type	
	Alert	