

**How-to Guide
SAP xApps**



How to Send an IDoc from the SAP R/3 Enterprise to the SAP xMII IDoc Listener

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1 Scenario

Sending IDOCs from SAP to xMII – Often there is need to trigger downloading of information (e.g. Production Orders, material Master, etc) from SAP to an external system. This guide walks you through a step by step process of setting up the sending of IDOCs to SAP xMII.

2 Introduction

<<< In some cases where information needs to be “pushed” from SAP rather than “pulled” , one needs to configure the setup of sending IDOCs to an external system. The external system in this case needs to have a listener, which is triggered when information is sent to it. The systems involved in this scenario are SAP R/3 and SAP xMII.>>>

3 The Step By Step Solution

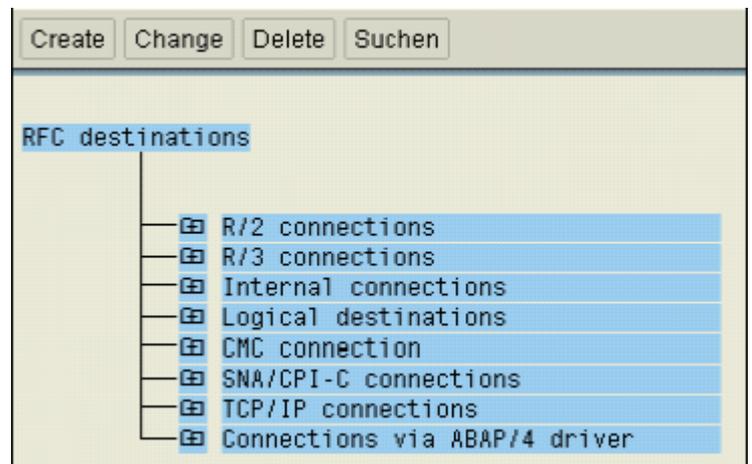
To enable your SAP R/3 Enterprise server to issue RFCs for SAP xMII IDoc Listener services on an SAP xMII IDoc Listener, you must define an RFC destination on the SAP R/3 Enterprise server. Each SAP R/3 Enterprise server has a single RFC destination for an SAP xMII IDoc Listener that identifies where the SAP R/3 Enterprise server sends all RFCs that invoke an SAP xMII IDoc Listener service.

3.1 Creating an RFC Destination on the SAP R/3 Enterprise Server

3.1.1 Registering an SAP xMII IDoc Listener as an RFC Destination

Use the following procedure to configure the SAP xMII IDoc Listener as a registered RFC destination on the SAP R/3 Enterprise server. You must have the proper authorizations for SAP R/3 Enterprise to add an RFC destination. If you do not have this authorization, have your SAP administrator perform the following steps.

1. Logon to SAP R/3 Enterprise. Choose *Administration* → *System Administration* → *Administration* → *Network* → *RFC Destinations* (transaction SM59).

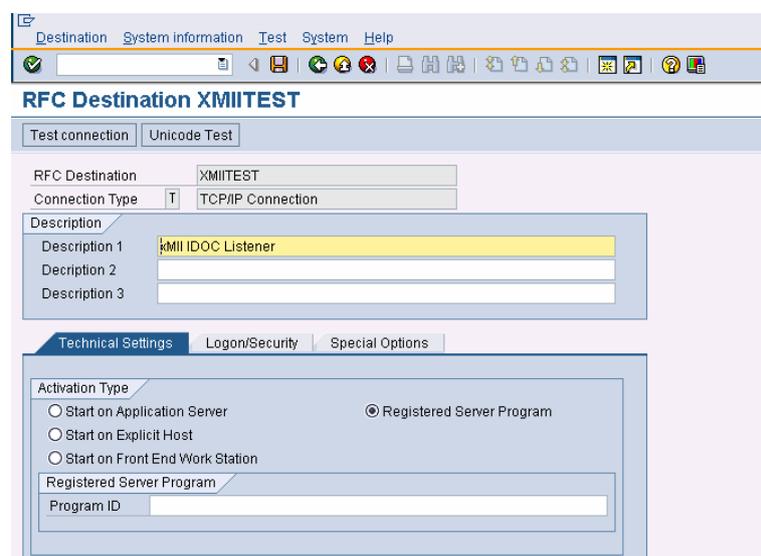


2. Choose *TCP/IP connections*.
3. Choose *Create*.

4. In the *RFC Destination* field, type a meaningful name that identifies both the SAP xMII IDoc Listener and SAP R/3 Enterprise. You must re-enter this name several times, so keep it simple and memorable.

We recommend that you keep the name of the RFC Destination, ProgID, and xMII IDoc listener the same. For example, XMIJCO1.

This field is case sensitive. We recommend that you pick a name that is all UPPERCASE characters.



5. Enter `T` in the *ConnectionType* field (destination type TCP/IP).
6. Enter `xMII IDOC Listener` in the *Description* section.
7. Choose *Save* from the toolbar or select *Save* from the *Destination* menu.
8. Choose *Registered Server Program*.
9. In the *Program ID* field, type the name of your RFC destination from step 4. Enter it exactly as you did in that step. This is also a case sensitive field.
10. Choose *Save* from the toolbar or select *Save* from the *Destination* menu.
11. Choose *Destination* → *Gateway Options*.
12. Enter `<sap system application server>` in the *Gateway host* field.
13. Enter `sapgw<sap system number>` in the *Gateway service* field. This guarantees that you can access the RFC Server from all SAP application servers.

The screenshot shows a configuration window with three tabs: 'Technical Settings', 'Logon/Security', and 'Special Options'. The 'Registered Server Program' section is active, showing three radio button options for 'Activation Type': 'Start on Application Server', 'Start on Explicit Host', and 'Start on Front End Work Station'. The 'Registered Server Program' section contains a text field for 'Program ID' with the value 'xMIJCO1'. Below this, the 'Gateway Options' section contains two text fields: 'Gateway host' with the value 'idph1303.phl.sap.corp' and 'Gateway service' with the value 'sapgw50'. A 'Delete' button is located to the right of the 'Gateway service' field.

14. Choose *OK*.
15. Choose *Save*. Remain on the current screen while you complete the steps for creating an SAP xMII IDoc Listener RFC Listener. Refer to the Help on the SAP xMII IDoc Configuration Editor.

3.1.2 Managing RFC Trace Information

If there are problems with the function modules, it is sometimes helpful to view RFC traces you are trying to call during the development and test phases. In order to avoid the need to access the file system of the machine on which the SAP xMII IDoc Listener is running, it is now possible to view and delete RFC trace files and SAP log files from the administrator UI.

3.1.3 Testing the RFC Listener

Use the following procedure to verify that the SAP R/3 Enterprise server can successfully issue an RFC to the SAP xMII IDoc Listener.

In SAP R/3 Enterprise, if your screen does not contain a *TestConnection* toolbar button, complete the following steps.

1. Choose *Administration* → *System Administration* → *Administration* → *Network* → *RFCDestinations* (transaction SM59).
2. Open the *TCP/IP connections* folder.
3. Select the RFC destination you previously created.
4. Choose *Test Connection*.
 If the SAP R/3 Enterprise server can successfully connect to the SAP xMII IDoc Listener RFC Listener, it will display connection information as shown.
 If you receive an error message, review the steps for creating an RFC destination and creating an RFC listener to verify your configuration settings.

Connection test RFCCER	
Connection type:	TCP/IP connection
Logon:	63 msec
0 KB:	9 msec
10 KB:	15 msec
20 KB:	17 msec
30 KB:	23 msec

3.1.4 Testing the Gateway Monitor

The Gateway Monitor is used to analyze and administer the SAP Gateway in SAP R/3 Enterprise. The initial screen of the gateway monitor shows all the active gateway connections on this instance. You can launch the Gateway Monitor via transaction SMGW or by choosing the following menu path *Administration* → *System Administration* → *Monitor* → *System Monitoring* → *Gateway Monitor*.

Number	LU name	TP Name	User	Status	Symbolic	Conversa	Prot	Last req	SAP e	CPIC
3	idph1866	jlaunch	idph1866	CONNECTED	<Java	03535384	INT	12:05:22	0	0
7	idph1857	jlaunch	idph1857	CONNECTED	<Java	87178318	INT	07:45:07	0	0
8	idph1866	jlaunch	idph1866	CONNECTED	<Java	97359457	INT	10:29:27	0	0
10	idph1857	jlaunch	idph1857	CONNECTED	<Java	03583071	INT	12:06:10	0	0
11	idph1866	jlaunch	idph1866	CONNECTED	<Java	89488508	INT	08:22:17	0	0
12	idph1857	jlaunch	idph1857	CONNECTED	<Java	87175287	INT	07:45:08	0	0
23	idph1866	jlaunch	idph1866	CONNECTED	<Java	97357863	INT	10:29:32	0	0
30	idph1866	jlaunch	idph1866	CONNECTED	<Java	89491039	INT	08:23:43	0	0
33	idph1866	jlaunch	idph1866	CONNECTED	<Java	03530587	INT	12:05:22	0	0

*** 9 active connection(s) ***

3.1.5 Displaying Clients Currently Logged On

You can display a list of systems that are currently logged on via *Goto* → *Logged on systems*.

Gateway Monitor for idph1303 / Connections to Clients

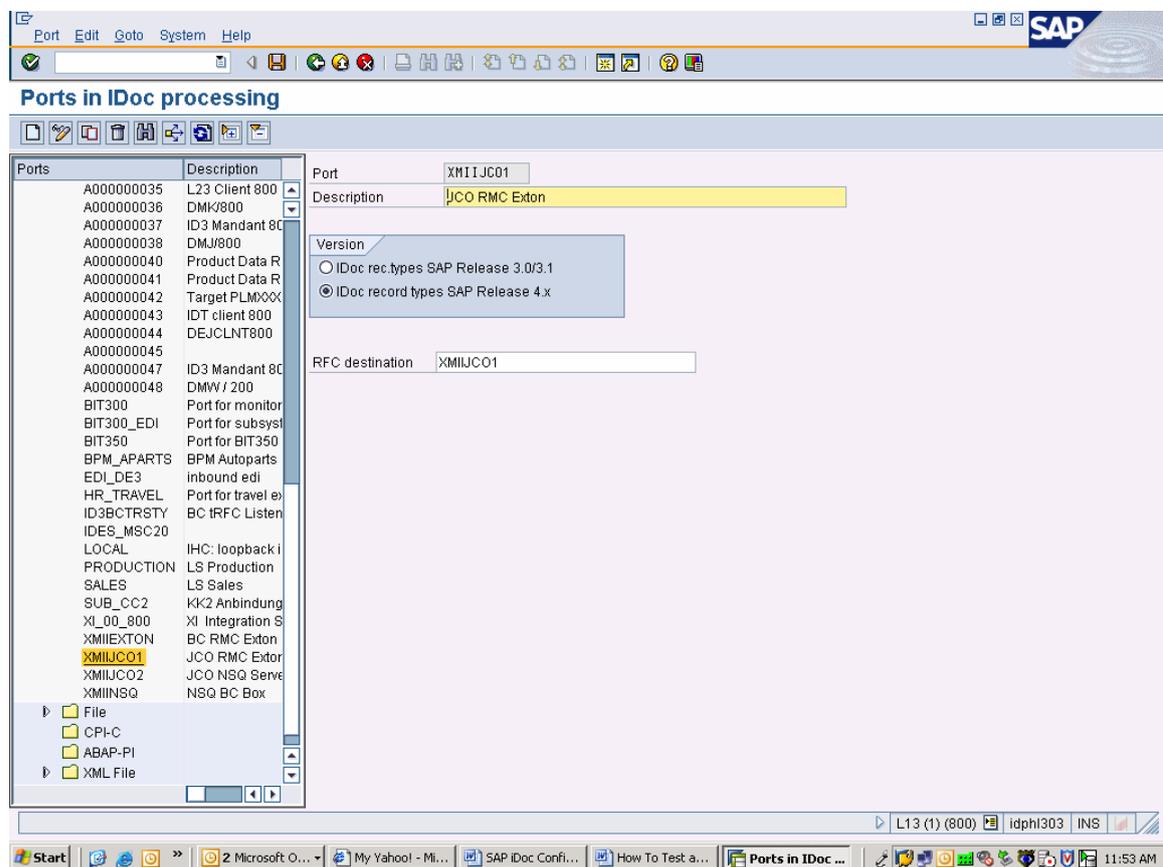
Number	LU name	TP Name	Syst. type	Host name	Host Address	Last req	Status	
<input type="checkbox"/>	0	idph1303	sapgw50	LOCAL_R3	idph1303.ph1.sap.cor	10.3.66.73	12:11:14	Connected
<input type="checkbox"/>	1	idph1892	EHS_MGMT	REGISTER_TP	idph1892.ph1.sap.cor	10.3.65.69	12:08:05	Connected
<input type="checkbox"/>	2	idph1892	GENPC_L1	REGISTER_TP	idph1892.ph1.sap.cor	10.3.65.69	12:07:40	Connected
<input type="checkbox"/>	3	idph1892	GENPC_L1	REGISTER_TP	idph1892.ph1.sap.cor	10.3.65.69	12:07:40	Connected
<input type="checkbox"/>	4	idph1890	p08552.d	REGISTER_TP	idph1890.ph1.sap.cor	10.3.77.30	12:10:54	Connected
<input type="checkbox"/>	9	idph1817	IACOR_id	REGISTER_TP	idph1817.ph1.sap.cor	10.3.77.44	12:08:55	Connected
<input type="checkbox"/>	10	idph1817	IACOR_id	REGISTER_TP	idph1817.ph1.sap.cor	10.3.77.44	12:08:56	Connected
<input type="checkbox"/>	11	idph1817	IACOR_id	REGISTER_TP	idph1817.ph1.sap.cor	10.3.77.44	12:08:58	Connected
<input type="checkbox"/>	12	idph1817	IACOR_id	REGISTER_TP	idph1817.ph1.sap.cor	10.3.77.44	12:08:56	Connected
<input type="checkbox"/>	15	idph1892	EHS_EXPE	REGISTER_TP	idph1892.ph1.sap.cor	10.3.65.69	12:08:23	Connected
<input type="checkbox"/>	83	idph1857	j1aunch	NORMAL_CLIENT	idph1857.ph1.sap.cor	10.3.76.186	12:10:54	Connected
<input type="checkbox"/>	107	idph1857	j1aunch	NORMAL_CLIENT	idph1857.ph1.sap.cor	10.3.76.186	12:10:54	Connected
<input type="checkbox"/>	124	idph1866	j1aunch	NORMAL_CLIENT	idph1866.ph1.sap.cor	10.3.76.179	12:10:54	Connected
<input type="checkbox"/>	136	DALN0041	XMIIJC01	REGISTER_TP	DALN00411441A	10.1.4.179	12:08:46	Connected
<input type="checkbox"/>	137	idph1866	j1aunch	NORMAL_CLIENT	idph1866.ph1.sap.cor	10.3.76.179	12:10:54	Connected
<input type="checkbox"/>	160	idph1301	sapgw20	REMOTE_GATEWAY	idph1301.ph1.sap.cor	10.3.66.71	12:08:08	Connected
<input type="checkbox"/>	162	idph1302	sapgw25	REMOTE_GATEWAY	idph1302.ph1.sap.cor	10.3.66.72	12:08:08	Connected
<input type="checkbox"/>	186	idph1866	j1aunch	NORMAL_CLIENT	idph1866.ph1.sap.cor	10.3.76.179	12:10:54	Connected
<input type="checkbox"/>	214	idph1866	j1aunch	NORMAL_CLIENT	idph1866.ph1.sap.cor	10.3.76.179	12:10:54	Connected
<input type="checkbox"/>	220	idph1866	j1aunch	NORMAL_CLIENT	idph1866.ph1.sap.cor	10.3.76.179	12:08:23	Connected
<input type="checkbox"/>	257	p72153	XMIIJC02	REGISTER_TP	p72153.wdf.sap.corp	10.21.112.90	12:10:23	Connected
<input type="checkbox"/>	280	idph1857	j1aunch	NORMAL_CLIENT	idph1857.ph1.sap.cor	10.3.76.186	12:11:32	Connected
<input type="checkbox"/>	281	idph1866	j1aunch	NORMAL_CLIENT	idph1866.ph1.sap.cor	10.3.76.179	12:09:59	Connected
<input type="checkbox"/>	283	idph1866	j1aunch	NORMAL_CLIENT	idph1866.ph1.sap.cor	10.3.76.179	12:10:54	Connected

*** 24 system(s) logged on ***

3.2 Defining a Logical Port

The lower level networking requires that a system port number be associated with the RFC destination. The logical port identifies the port to which messages are sent. The logical port can only be used if an RFC destination was previously created. You can define a unique logical port using transaction WE21 (alternatively, use the following menu path to do this: Main screen → Tools → Business Communication → IDoc-Basis → IDoc → Port Definition).

1. Select *Transactional RFC* and choose *Create*.
2. Choose *New Entries* in the toolbar.
3. Either choose your own descriptive port name or let the system generate one.
4. Enter the IDoc version you want to send via this port, the RFC destination you just created, and a short description of your logical port, then save the information.



3.3 Creating a Partner

A logical subsystem manages one or more RFC destinations. You can create a partner (logical system) using transaction SPRO_ADMIN. Alternatively, use the following menu path to do this: *Tools* → *AcceleratedSAP* → *Customizing* → *Project Management*.

1. Choose *SAP Reference IMG*.
2. Expand the following nodes: *Basis Components* → *Application Link Enabling(ALE)* → *Sending and Receiving Systems* → *Logical Systems* → *Define Logical System*. [You can also use transaction SALE and select the path described above starting with *Application Link Enabling (ALE)*].
3. Click the green checkmark next to *Define Logical System*.
4. Choose *New Entries*.
5. Enter an informative name for your partner and provide a short description. After saving the partner information, assign it to a transport request.

The screenshot shows the SAP SPRO_ADMIN interface for the 'Logical Systems' overview. The window title is 'Change View "Logical Systems": Overview'. The main area contains a table with the following data:

Log System	Name
X32CLNT800	ID3 client 800
XI20_800	XI 20
XI_00_010	XI Integration Server old
XI_00_800	XI Integration Server 3.0
XI_DT8	XI system DT8
XI_ED1	XI EDI Demo with Seeburger
XMIEXTON	XMIEXTON
XMIJCO1	XMIJCO1
XMIJCO2	XMIJCO2
XMIINSQ	XMIINSQ
XSUB_CC2	Test channel
XSUB_CC21	Connection to EPIC
XSUB_CC22	Connection to Benzinger

At the bottom of the window, there is a 'Position...' button and the text 'Entry 298 of 310'. The taskbar at the bottom shows the Start button and several open applications, including '2 Microsoft O...', 'My Yahoo! - Mi...', 'SAP iDoc Confi...', 'How To Test a...', and 'Change View ...'. The system clock shows 11:57 AM.

3.4 Creating a Partner Profile

Use transaction WE20 to create a partner profile (alternatively, use the following sequence to do this: Main screen → Tools → Business Communication → IDoc-Basis → IDoc → Partner profile).

1. Choose *LS* (logical system) partner and click *Create*.
2. Enter the partner you created in step 3.3 in the *Partner* field and save the partner profile.
3. Click *Insert entry* below the outbound parameter table control.
4. Enter the message type of the IDoc (for example, MATMAS).
5. Enter the logical receiver port you created before and enter the basic type of the IDoc (for example, MATMAS03).
6. Save the outbound parameter.

The screenshot displays the SAP WE20 transaction interface for configuring an outbound partner profile. The window title is "Outbound parameters" and the main heading is "Partner profiles: Outbound parameters".

Key fields and values shown:

- Partner No.: XMIIJC01
- Parth.Type: LS (Logical system)
- Message Type: LOISTD (Stock/requirements list)
- Receiver port: XMIIJC01 (Transactional RFC)
- Output Mode: Transfer IDoc Immed. (Output Mode 2)
- IDoc Type: Basic type LOISTD01 (Master requirements/stock list)
- Cancel Processing After Syntax Error: Checked

Navigation tabs include "Outbound Options", "Message Control", "Post Processing: Permitted Agent", and "Tele...".

7. Click *Insert entry* below the inbound parameter table control.
8. Enter the message type of the IDoc (for example, MATMAS) and the process code (for example, MATM).
9. Save the inbound parameter.

Partner profiles

Partner	Description
OMOCLNT800	
P13CLNT800	P13 Client 800
PFS_ID_M	Logical System
PFS_ID_T	Logical System
PRODUCTION	Productive syst
PS_02_200	PS_02_200
REC_00_800	DMJ Client 800
RFID800	RFID All 2.1 TM
RPMCLNT800	DMK Client 800
RPM_00_800	s
SALES	Sales system (
SEMCLNT800	..
SMBONE	SMBONE
SRM_00_300	.
SRM_00_800	.
SUB_CC1	SUB_CC1
SUB_CC2	Productive syst
SUPPLY188	.
SUS_00_805	SUS Linkage
T13CLNT800	T13 Client 800
T30MAND091	
T82CLNT400	xx
T90CLNT090	IDES ALE Cent
TXXCLNT400	Target of PLMX
WMS	WMS
X32CLNT800	ID3 client 800
XI20_800	XI 20
XI_00_800	XI Integration S
XI_EDI	XI EDI Demo wi
XMIEXTON	XMIEXTON
XMIJCO1	XMIJCO1
XMIJCO2	XMIJCO2
Partner Type US User (first 10 cl	

Partner no.	XMIJCO1	XMIJCO1
Partn.Type	LS	Logical system

Post processing: permitted agent Classification

Type	0	<input type="checkbox"/> Organizational unit
Agent	50010120	EDI Department
Lang.	EN	English

Outbound parmts.

Partner Role	Message type	Message va...	MessageFu...	Test
	LOISTD			<input type="checkbox"/>

Inbound parmts.

Partner Role	Message type	Message va...	MessageFu...	Test
				<input type="checkbox"/>

3.5 Creating a Distribution Model for the Partner and Message Type

After you define a partner and partner profile, you can create a distribution model that triggers the creation of a communication IDoc.

If you are using SAP System 4.5 or earlier, you can use transaction BD64 to create the distribution model (alternatively, you can use the following sequence Main screen → *Tools* → *Business Framework* → *ALE* → *Customizing*).

1. Open the *Cross-Application Components* folder, then the *Distribution (ALE)* folder, then the *Distribution Customer Model* folder in the tree view. Click the green hook next to *Maintain customer distribution model directly*.
2. Create a new model using *Model* → *Create*.
3. Add a message type to your model, enter the sender in the dialog box (for example, ALRCLNT000), enter the receiver (for example, your logical system), and the message type (for example, MATMAS).

If you are using SAP System 4.6 or later, you can use transaction BD64 or alternatively, the following procedure:

1. In the Main screen, choose *Tools* → *AcceleratedSAP* → *Customizing* → *Project Management*. Choose *SAP Reference IMG*.
2. Expand the following nodes: *Basis Components* → *Distribution (ALE)* → *Modeling and Implementing Business Processes* → *Maintain Customer Distribution Model*.
3. Click the green hook next to *Maintain Customer Distribution Model* (transaction BD64).
4. Change to edit mode.
5. Choose *Create model view*.
6. Enter a short text string and a technical name for your new model view.
7. Select your new model view in the Distribution Model tree, and choose *Add message type*.
8. In the dialog box, enter the sender (for example, ALRCLNT000), the receiver (for example, your logical system), and the message type (for example, MATMAS).

Display Distribution Model

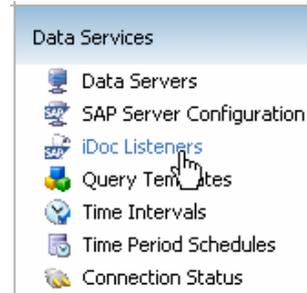
Filter model display Create model view Add BAPI Add message type

Distribution Model	Description/technical name	Business object
Auto ID Model	AUTOID	
Auto ID Node 2.1 NB1	AUTOIDNB1	
B2B 2.0B to IDES 4.6B	B2B_IDES	
CATs for cProjects (Note 634923)	ID3DSZCATS	
CIDX Demos	CIDX	
Cross System Flow of Goods	CSFG	
DE3 - KABA BENZING	DE3-KABA	
DH3->ID3 & M13 <-> ID3	DH3->ID3	
Global Trade Services	GTS	
HR to BW/SEM	HR_ORG_BW	
ID3(HR) to DEJ(eRecruitment)	ID3->DEJ	
ID3(HR) to DMJ(eRecruitment)	ID3-DMJ	
ID3(PS)toDMK(xRPM)	ID3 - DMK	
ID3->DSZ	ID3-DSZ	
IDES - FICO Distribution to xRPM	FICOTORPM	
IDES - HR Distribution to xRPM	HRTORPM	
MDM Demo Model	MDMDEMO	
MEREP	MEREP	
MM-SUS	MM-SUS	
PLMXXX	PLMXXX	
R/3 Backend Communication (Idocs)	EBP_TO_R3	
SMBONE	SMBONE	
SMI	SMI	
US Product Data Replication	US_PDR	
XMIEXTON	XMIEXTON	
XMIJCO Listener 1	XMIJCO1	
IDES ALE Central system (client 800)	T90CLNT090	
XMIJCO1	XMIJCO1	
LOISTD	Stockrequirements list	
Zmodel20	ZMODEL20	

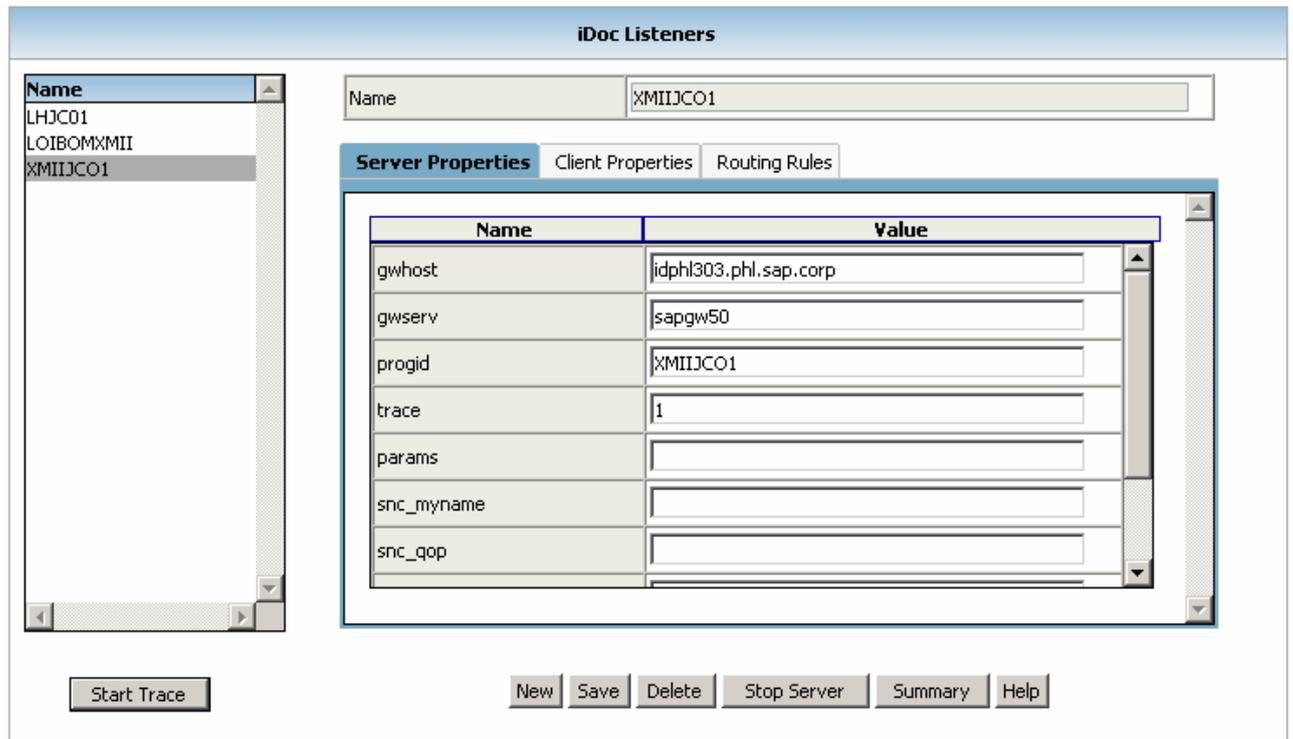
L13 (1) (800) idphl303 INS

4 xMII iDoc Listener Configuration

1. Select 'iDoc Listeners' from the xMII administration menu.



2. Select 'New' and name the listener the same name as the previously created RFC Destination and Program ID.
3. Enter in the following:
 - gwhost: ERP Gateway Host IP address
 - gwserv: The string sapgw with the System number appended to it.
 - progid: Previously created in section 3 item 9.
 - trace: Enter 0 or 1 here for disabled and enabled

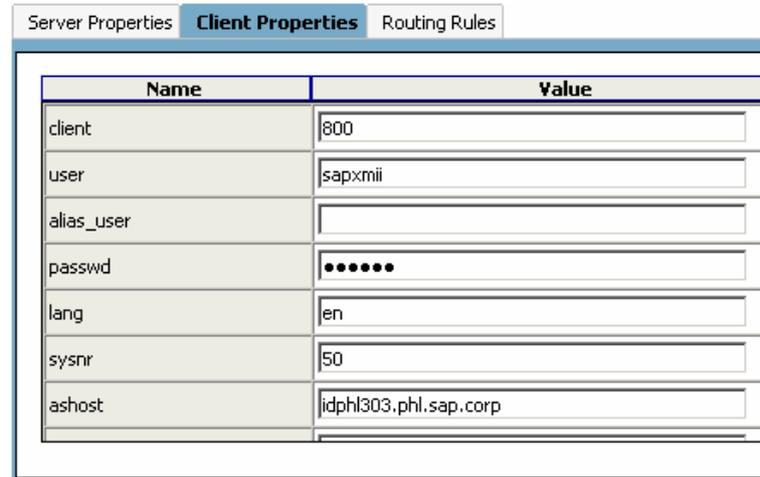


Name	Value
gwhost	idphl303.phl.sap.corp
gwserv	sapgw50
progid	XMIIJCO1
trace	1
params	
snc_myname	
snc_qop	

4. Select the 'Client Properties' tab.

5. Enter the following:

- client: Client number of the desired ERP system
- user: Username to login to the client system with
- passwd: Password associated with the user field
- lang: Desired language of the login
- sysnr: The ERP system number
- ahost: The IP address of the ERP application server
- Any other additional information required to specify the ERP server



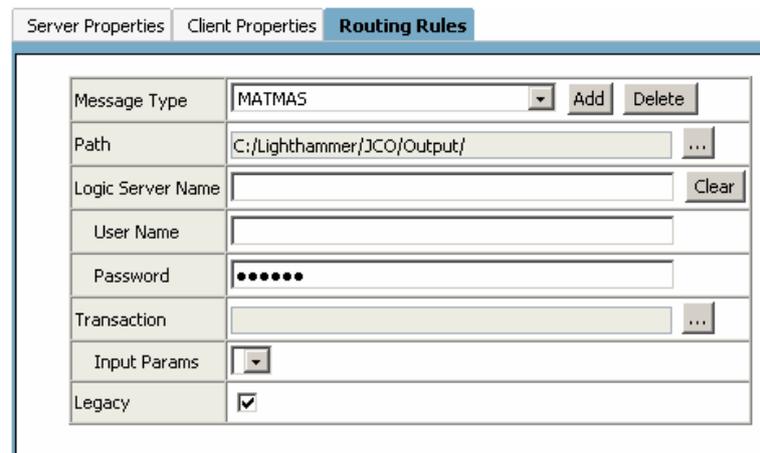
Name	Value
client	800
user	sapxmii
alias_user	
passwd	••••••
lang	en
sysnr	50
ahost	jdph1303.phl.sap.corp

6. Select the 'Routing Rules' tab.

7. The Message type drop down will allow you to specify different transactions for the various different iDoc types that can be received from an ERP system. The asterisk is used as a wild card.

8. Enter the following:

- Logic Server Name: IP of the xMII server
- User Name: xMII Username
- Password: Password associated with the xMII username
- Transaction: The transaction that will handle the iDoc XML
- Input Params: The available XML input properties associated with the specified transaction.
- Legacy: This check box allows for interaction with the .NET version of business logic.



Message Type	MATMAS	Add	Delete
Path	C:/Lighthammer/JCO/Output/	...	
Logic Server Name		Clear	
User Name			
Password	••••••		
Transaction		...	
Input Params			
Legacy	<input checked="" type="checkbox"/>		

Troubleshooting

For systems that which support Unicode; the Unicode flag must be set in the SM59 transaction in order to function properly:

RFC Destination SAP_XMII_SRV16

The screenshot shows the SAP SM59 transaction for RFC Destination SAP_XMII_SRV16. The 'Unicode Test' button is highlighted. The 'RFC Destination' is SAP_XMII_SRV16 and the 'Connection Type' is TCP/IP Connection. The 'Description' field contains 'XMII JCO server on iwdfm1017'. The 'MDMP & Unicode' tab is selected, showing the 'Unicode' flag set to 'Unicode'.

Connection Test Unicode Test

RFC Destination SAP_XMII_SRV16

Connection Type T TCP/IP Connection Description

Description

Description 1 XMII JCO server on iwdfm1017

Description 2

Description 3

Administration Technical Settings Logon & Security MDMP & Unicode Special Options

Communication Type with Target System

Non-Unicode

MDMP Settings

Inactive Active

Unicode

Character Conversion

Default Setting Ignore Error, Error Indicator: #' = U+0023

Short Dump After Conversion Error

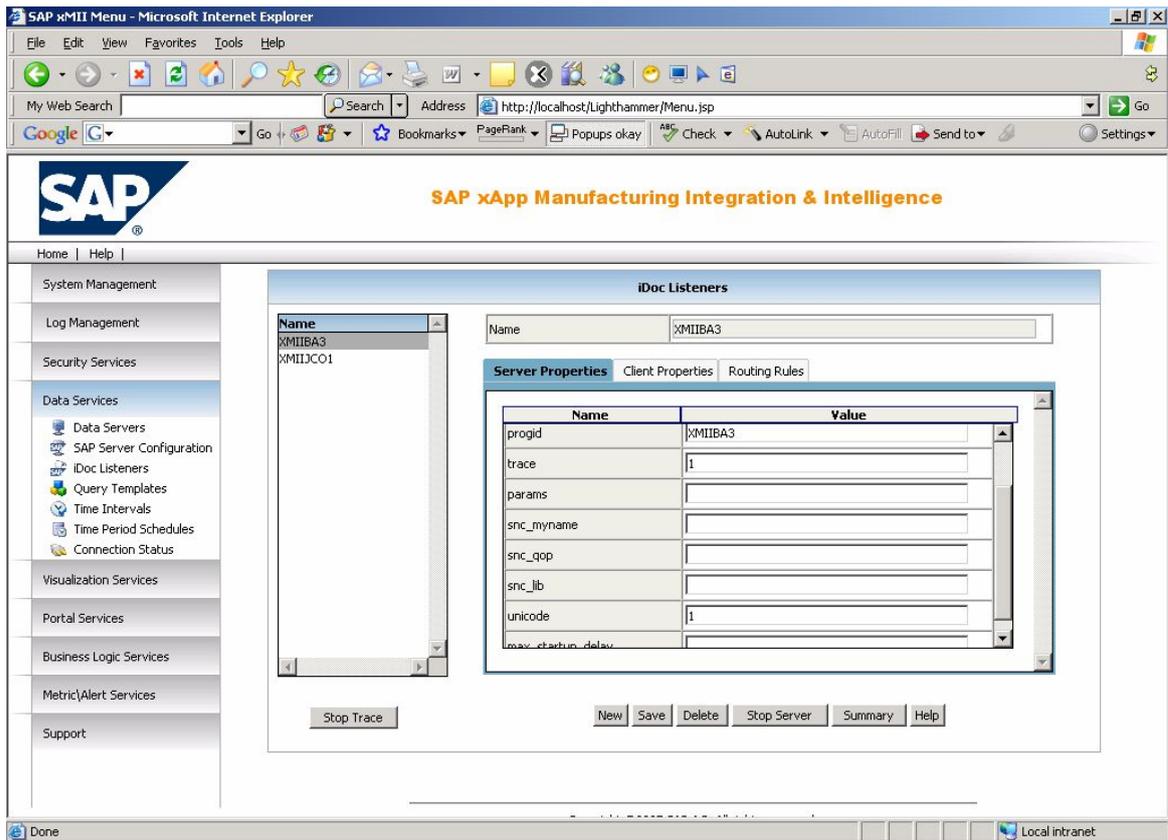
Ignore Conversion Errors

Display of Conversion Errors

Error Indicator #

U+ 0023

Also set the Unicode value in the server properties for the IDOC listener on xMII to 1



Appendix

For more information, see the following documentation:

- SAP Help
- SAP xMII Help
- SAPBCSapAdapterGuide

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