

**How-to Guide
SAP NetWeaver '04**



How To... Sample IDoc-XI Scenarios

Version 1.00 – August 2004

**Applicable Releases:
SAP NetWeaver '04
SAP Exchange Infrastructure 3.0**

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1 Scenario

This guide gives an overview of how to configure different IDoc-XI-IDoc scenarios using alternative identifiers and header mapping. However, the contents are also relevant to other interfaces, for instance, scenarios involving systems that use the RNIF adapter. The table below shows the scenarios that will be addressed and the different approaches that will be applied.

Case	Outbound Party Type Sender / Recv.	Inbound Party Type Sender / Recv.	Alternative Identifiers	Header Mapping	Identifiers in Communication Channel	Chapter
1	LS / LS	LS / LS	—	—	—	3
2	≠LS / ≠LS	≠LS / ≠LS	✓	—	✓	4
3*	≠LS / ≠LS	≠LS / ≠LS				5
4	≠LS / ≠LS	LS / LS	✓	✓	—	6
5	≠LS / ≠LS	≠LS / LS	✓	✓	✓	7
6	LS / LS	≠LS / ≠LS	✓	✓	✓	8
7	LS / ≠LS	≠LS / ≠LS	✓	✓	✓	9

* Master data consolidated

2 Introduction

An IDoc that is sent to the inbound channel of the Integration Server is converted from native IDoc format to IDoc XML format by the IDoc adapter. The IDoc adapter calls the Integration Engine pipeline for routing and mapping purposes. The XML message that is sent to the Integration Server consists of a header and a body with the IDoc XML as the payload.

The sender service within the message header is identified by the adapter-specific identifiers. For business systems that are maintained in the System Landscape Directory (SLD), the relevant properties are replicated into the Integration Directory. For business services, you can enter the adapter-specific identifiers directly in the Integration Directory. For SAP systems, the sender service is determined by the system ID of the sender port and by the client. For non-SAP systems, it is identified by the logical system name.

The sender and receiver party within the message header are specified depending on the IDoc partner type. For logical systems (partner type 'LS'), the service remains partyless. For any other, an alternative party is generated as follows:

Party name	IDoc partner number
Identification scheme	ALE # <partner-type> # <partner-role>
Agency	Service (identified as described above)

In order to normalize the alternative party, that is, to replace it with an internal XI party, you have to specify alternative identifiers. The conversion can be done in both the inbound channel and the outbound channel of the Integration Server.

The IDoc adapter at the Integration Server outbound channel converts the IDoc XML to native IDoc format, and sends the IDoc to the receiver system. The IDoc partner is identified by the sender and receiver service in the message header. For partyless services, the IDoc partner is a logical system.

Otherwise, the IDoc partner is identified using the alternative party. In the case of a normalized party, you have to define alternative identifiers in the communication channel. Furthermore, you can modify the party and service by a header mapping. The header mapping is required within the receiver agreement, hence you only define it at the outbound channel of the Integration Server. There, it is executed before the internal XI party is converted to the alternative party.

The control record of the IDoc is discarded and renewed by the IDoc adapter. If you want to add values to the control record, you have to select the *Apply Control Record Values from Payload* checkbox in the communication channel. When a new communication channel of type IDoc is created, the flag is set by default. If the flag is not set, the settings comply with XI 2.0. For more information, see SAP Note 728792.

3 Case 1: IDoc of Type Logical System (LS)

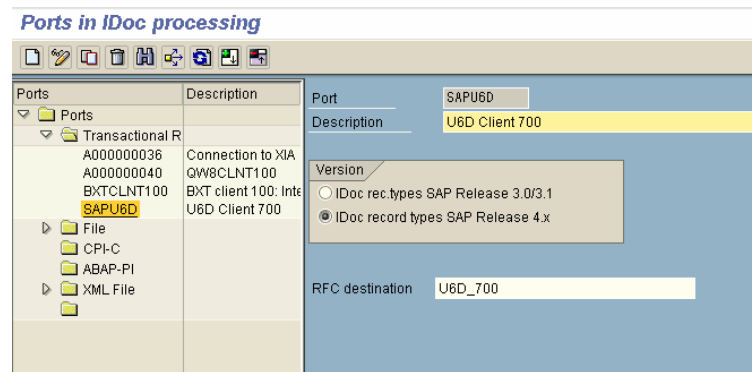


	IDoc Party Name / Type	XI Party Agency / Scheme / Name / Service	IDoc Party Name / Type
Sender:	B6MCLNT000 / LS	- / - / - / B6M_000	B6MCLNT000 / LS
Receiver:	XIDCLNT113 / LS	- / - / - / XID_113	XIDCLNT113 / LS

3.1 Maintain Partner Profiles in Sender and Receiver Systems

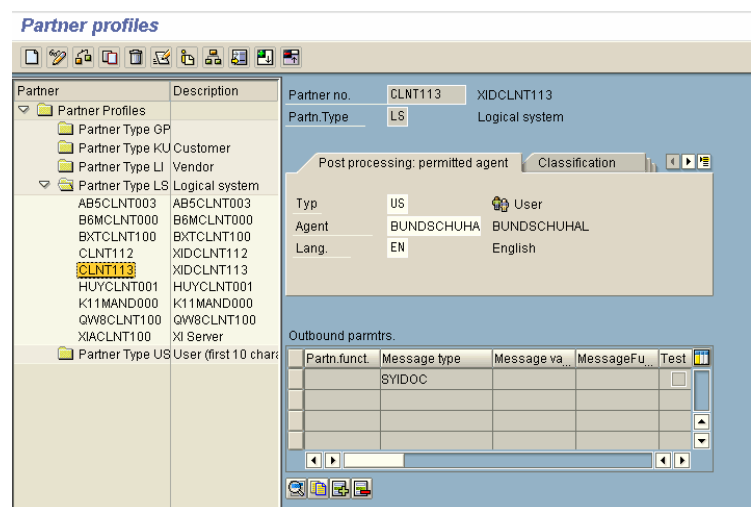
1. In the sender system, use transaction WE21 to create the tRFC port SAPU6D.

Maintain the RFC destination U6D_700 to address the Integration Server.



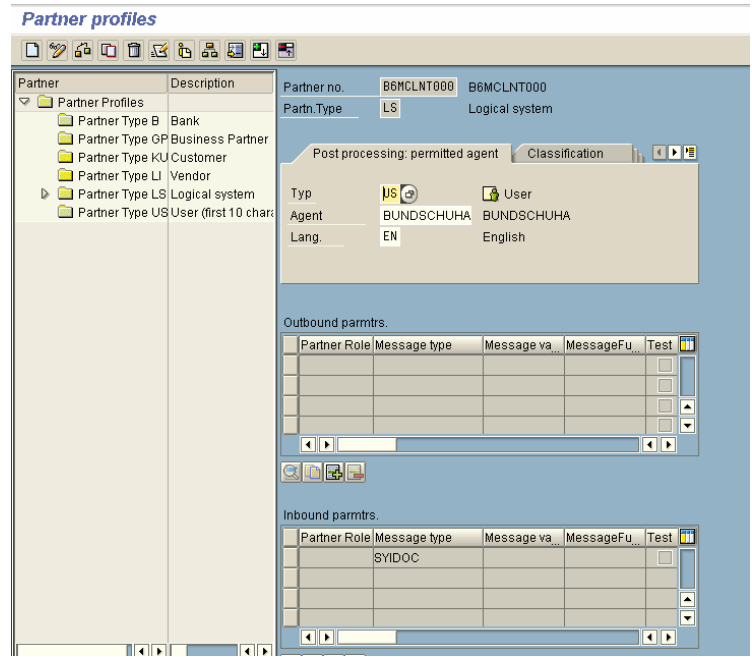
2. In the sender system, use transaction WE20 to maintain the partner profile for the receiver system CLNT113.

Select the message type SYIDOC, the corresponding basic type, and the receiver port SAPU6D as outbound parameters.



3. In the receiver system, use transaction WE20 to maintain the partner profile for the sender system B6MCLNT000.

Select the message type SYIDOC as an inbound parameter.



3.2 Maintain the System Landscape Directory (SLD)

The following steps are valid for the other business cases as well.

1. In the SLD, maintain the business system B6M_000.

Select the technical system, the system ID, the client, and the logical system name.

Business Landscape

View and configure business systems for use in the Exchange Infrastructure (XI).

Business System: B6M_000

[Save](#) [Remove](#) [Export](#)

Name: B6M_000

Description:

Administrative Contact:

Business System Role: Application System

Related Integration Server: INTEGRATION_SERVER_U6D_700

Group: CONS

Transport Targets:

Technical System: **B6M on Is0028** [Change...](#)

Client: 000 of B6M

Logical System Name: B6MCLNT000

Installed Products: SAP WEB AS, 6.20 B6M on Is0028

2. In the Integration Directory, the adapter-specific identifiers of business system B6M_000 are retrieved from the SLD.

The IDoc adapter uses the system ID and the client to determine the corresponding service.

Scenarios Objects Change Lists

Search:

Party

Service Without Party

Business Service

Business Process

Business System

AJH

B6M_000

Communication Channel

com_miset_seller

ESP

Fileadapter_P45380

HASUJ2EE

Integration_Server_U6D

INTEGRATION_SERVER_U6D_700

JPL50021307

JPR30_Seltest

JPTesL_Local

RKT30_Adapter_HK

U6D_105

U6D_106

U6D_107

Webservices_NWLH

XI6_300

Receiver Determination

Service Edit View

Display Service

Service: B6M_000

Party:

Description:

Business System

Display Adapter-Specific Identifiers

IDoc Adapter

Logical System: B6MCLNT000

IDoc Adapter and RFC Adapter

R/3 System ID: B6M

Client: 000

MML Adapter

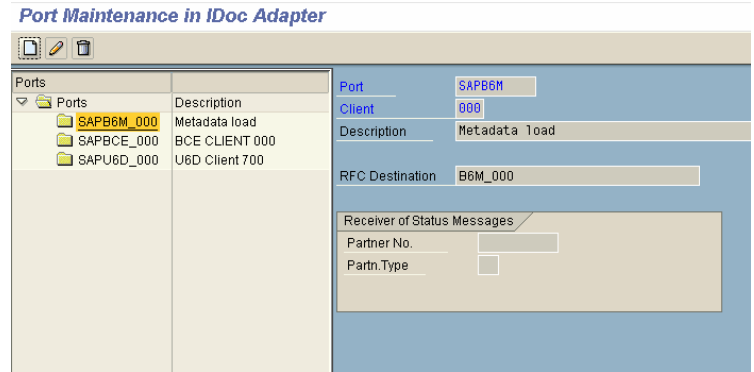
DDID:

[Close](#)

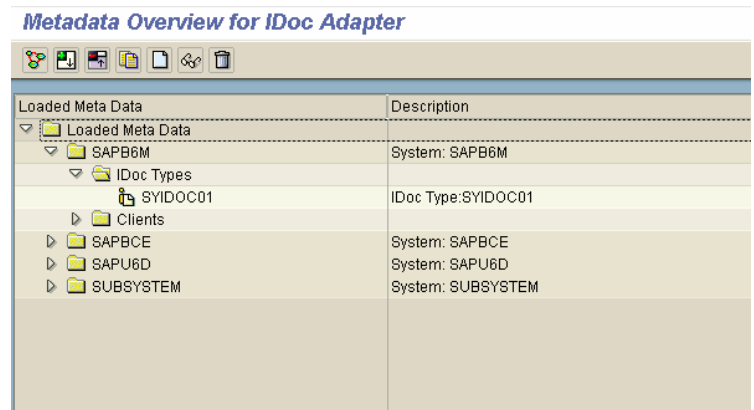
3.3 Maintain the Integration Server

The following steps are valid for the other business cases as well.

1. Use transaction IDX1 to maintain the port SAPB6M_000 to load the IDoc metadata.



2. Use transaction IDX2 to obtain an overview of the metadata that is already loaded into the Integration Server.



3.4 Integration Builder: Configuration

1. In the Integration Directory, create a receiver determination, an interface determination, and a receiver agreement.

Select the partyless sender service B6M_000, the sender interface SYIDOC.SYIDOC01, the partyless receiver service XID_113, the inbound interface SYIDOC.SYIDOC01, and the communication channel IDoc.

2. Create a communication channel of adapter type IDoc.

Select the adapter type IDoc, the RFC destination XID_113, the port SAPXID, and the appropriate SAP release.

The *Apply Control Record Values from Payload* checkbox is selected by default.

The image displays three screenshots from the SAP Integration Builder interface:

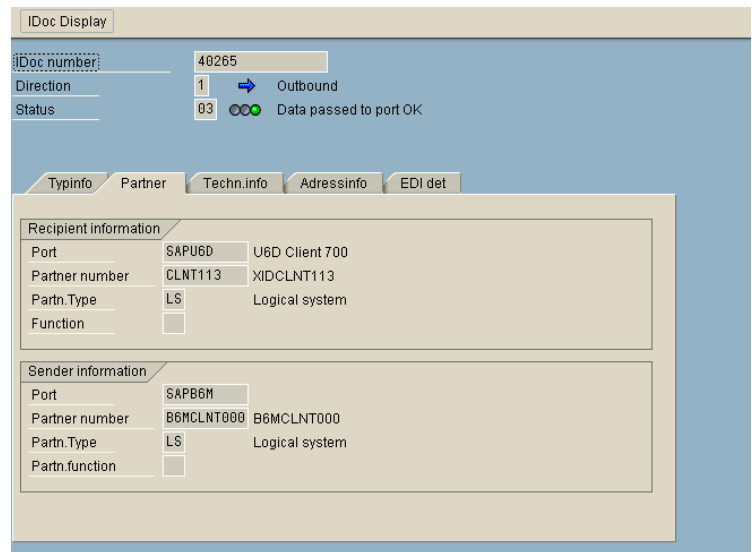
- Display Receiver Determination:** Shows the configuration for a receiver determination. The Sender section includes Party (empty), Service (B6M_000), Interface (SYIDOC.SYIDOC01), and Namespace (urn:sap-com:document:sap:idoc:messages). The Receiver section includes Party (*), Service (*), and Description (empty). Below is a table for Configured Receivers:

Condition	Party	Service
		XID_113
- Configuration Overview for Receiver Determination:** Shows a tree view with a selected node for XID_113. The details below show SYIDOC.SYIDOC01 (Not specified) and IDoc.
- Edit Communication Channel:** Shows the configuration for a communication channel named IDoc. The Adapter Type is IDoc, and the Adapter Engine is Integration Server. The RFC Destination is XID_113, Segment Version is empty, Interface Version is SAP Release 4.0 or Higher, and Port is SAPXID. The SAP Release is 640. The checkbox for "Apply Control Record Values from Payload" is checked.

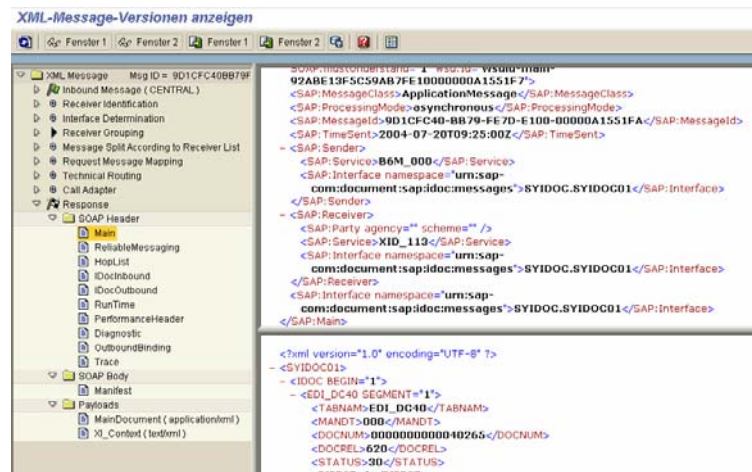
3.5 Execute the Scenario

1. Send an IDoc of partner type LS (logical system).

In the sender system, use transaction WE05 to display the outbound IDoc. The IDoc partner type of both receiver and sender is LS.

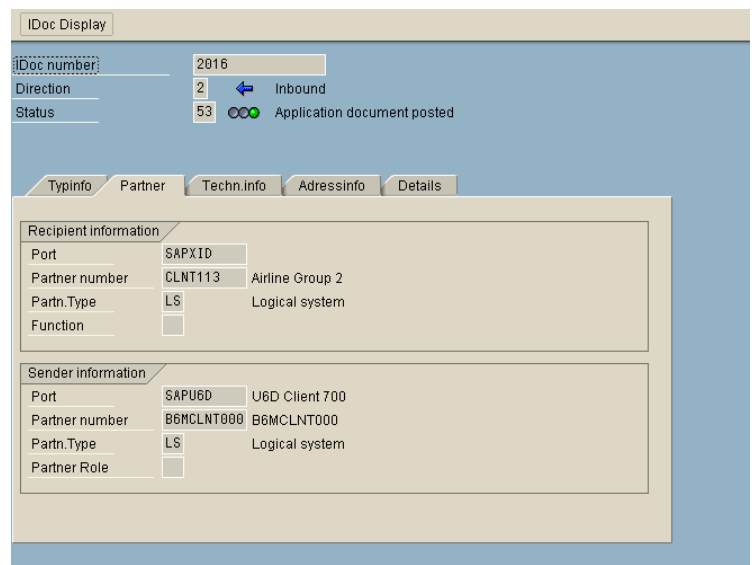


2. On the Integration Server, use transaction SXMB_MONI (Integration Engine Monitoring → Monitor for Processed XML Messages) to display the message.



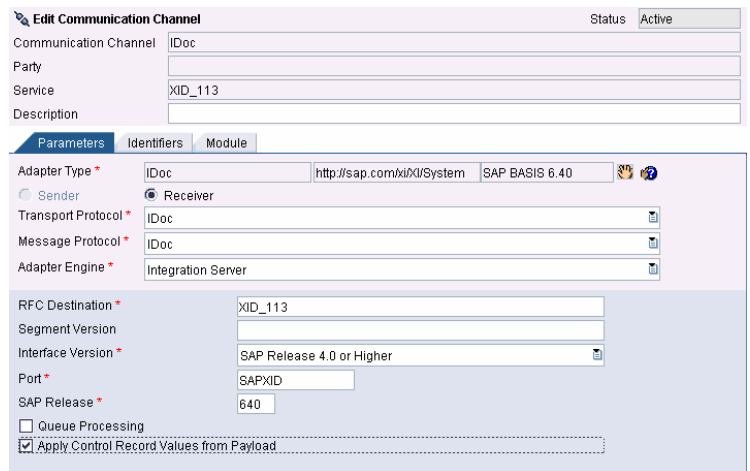
3. In the receiver system, use transaction WE05 to display the inbound IDoc.

The IDoc partner name and type remain unchanged.

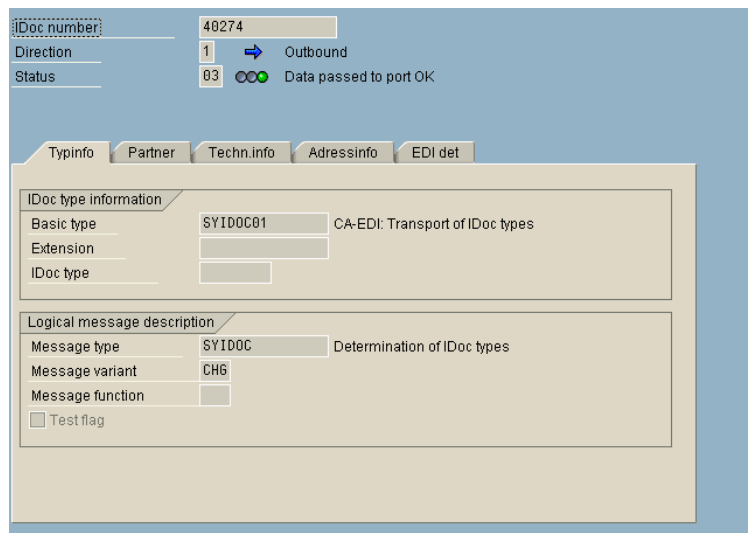


3.6 XI 2.0 Compliance

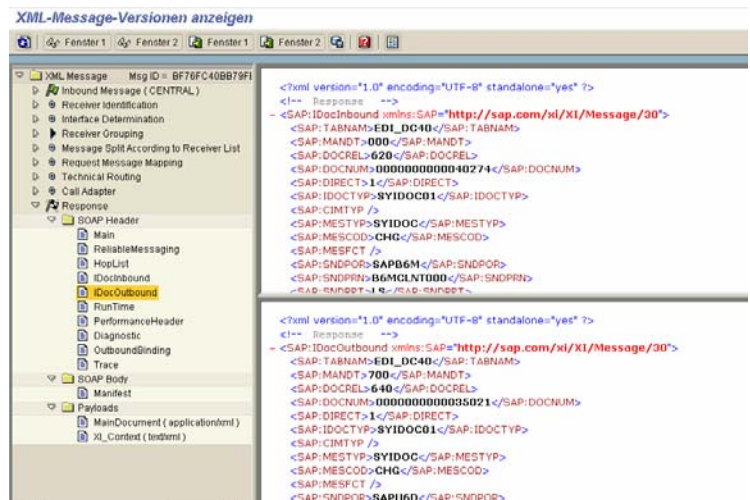
- Option 1: The *Apply Control Record Values from Payload* checkbox is selected in the communication channel.



- Send an IDoc of message type SYIDOC and message variant (technical name: MESCOD) CHG.



- A comparison between *IDoc Inbound* and *IDoc Outbound* indicates that the MESCOD field is filled by the corresponding value of the IDoc XML.



- Option 2: The *Apply Control Record Values from Payload* checkbox is not selected (XI 2.0 compliant).

Edit Communication Channel Status: Active

Communication Channel: IDoc

Party: _____

Service: XID_113

Description: _____

Parameters Identifiers Module

Adapter Type * IDoc http://sap.com/xi/XI/System SAP BASIS 6.40

Sender Receiver

Transport Protocol * IDoc

Message Protocol * IDoc

Adapter Engine * Integration Server

RFC Destination * XID_113

Segment Version _____

Interface Version * SAP Release 4.0 or Higher

Port * SAPXID

SAP Release * 640

Queue Processing

Apply Control Record Values from Payload

- The comparison between *IDoc Inbound* and *IDoc Outbound* indicates that the MESCOC field is not filled.

XML-Message-Versionen anzeigen

Fenster 1 Fenster 2 Fenster 2 Fenster 2

XML Message Msg ID = 9079FC40BB79F1

- Inbound Message (CENTRAL)
 - Receiver Identification
 - Interface Determination
 - Receiver Grouping
 - Message Split According to Receiver List
 - Request Message Mapping
 - Technical Routing
 - Call Adapter
 - Response
 - SOAP Header
 - Main
 - ReliableMessaging
 - HopList
 - IDocInbound
 - IDocOutbound**
 - Runtime
 - PerformanceHeader
 - Diagnostic
 - OutboundBinding
 - Trace
 - SOAP Body
 - Manifest
 - Payloads
 - MainDocument (application/xml)
 - XI_Content (text/xml)

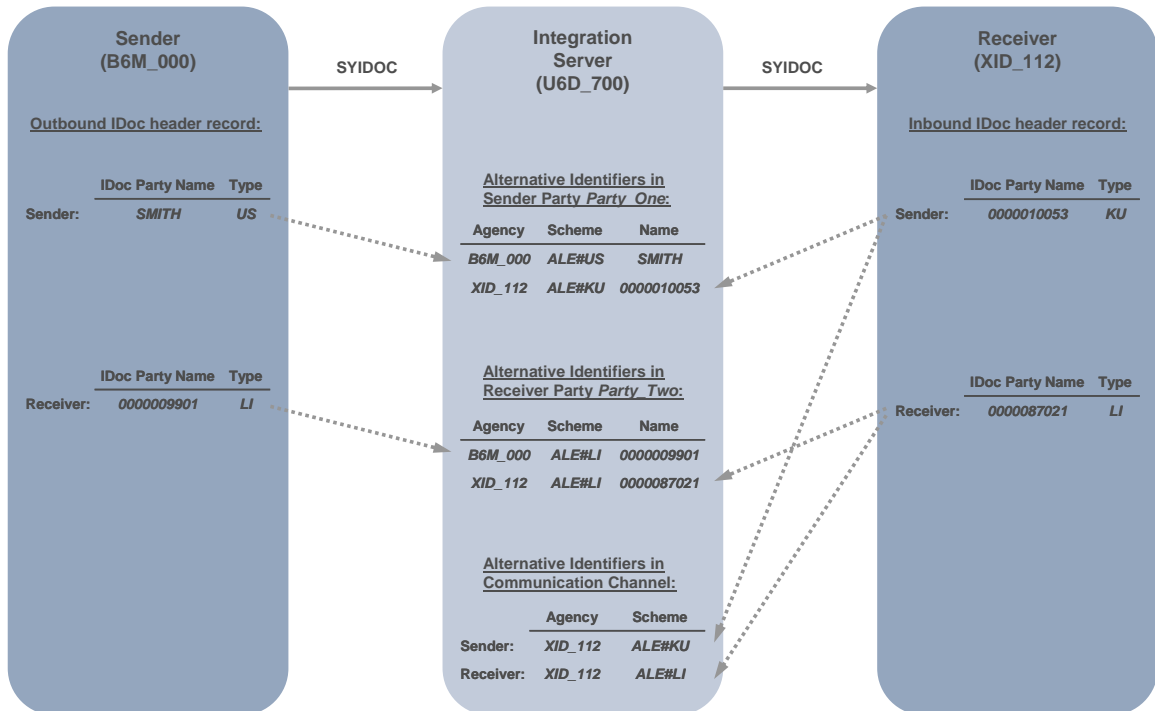
XML Payload (IDocOutbound):

```

<SAP:IDocInbound xmlns:SAP="http://sap.com/xi/XI/Message/30">
  <SAP:TABNAM>ED1_DC40</SAP:TABNAM>
  <SAP:MANDT>000</SAP:MANDT>
  <SAP:DOCDREL>620</SAP:DOCDREL>
  <SAP:DOCDNUM>0000000000000275</SAP:DOCDNUM>
  <SAP:DIRECT>1</SAP:DIRECT>
  <SAP:IDOCPTY>SYIDOC01</SAP:IDOCPTY>
  <SAP:CIMTYP />
  <SAP:MESTYP>SYIDOC</SAP:MESTYP>
  <SAP:MESCOC>CHG</SAP:MESCOC>
  <SAP:MESFCT />
  <SAP:SNDPOR>SAPB6N</SAP:SNDPOR>
  <SAP:SNDPRN>B6MCLNT000</SAP:SNDPRN>
  <SAP:SNDPRT>LS</SAP:SNDPRT>
  <SAP:SNDPRT />
</SAP:IDocInbound>

<SAP:IDocOutbound xmlns:SAP="http://sap.com/xi/XI/Message/30">
  <SAP:TABNAM>ED1_DC40</SAP:TABNAM>
  <SAP:MANDT>700</SAP:MANDT>
  <SAP:DOCDREL>640</SAP:DOCDREL>
  <SAP:DOCDNUM>00000000000035022</SAP:DOCDNUM>
  <SAP:DIRECT>2</SAP:DIRECT>
  <SAP:IDOCPTY>SYIDOC01</SAP:IDOCPTY>
  <SAP:CIMTYP />
  <SAP:MESTYP>SYIDOC</SAP:MESTYP>
  <SAP:MESCOC />
  <SAP:MESFCT />
  <SAP:SNDPOR>SAPU6D</SAP:SNDPOR>
  <SAP:SNDPRN>B6MCLNT000</SAP:SNDPRN>
  <SAP:SNDPRT>LS</SAP:SNDPRT>
  <SAP:SNDPRT />
</SAP:IDocOutbound>
  
```

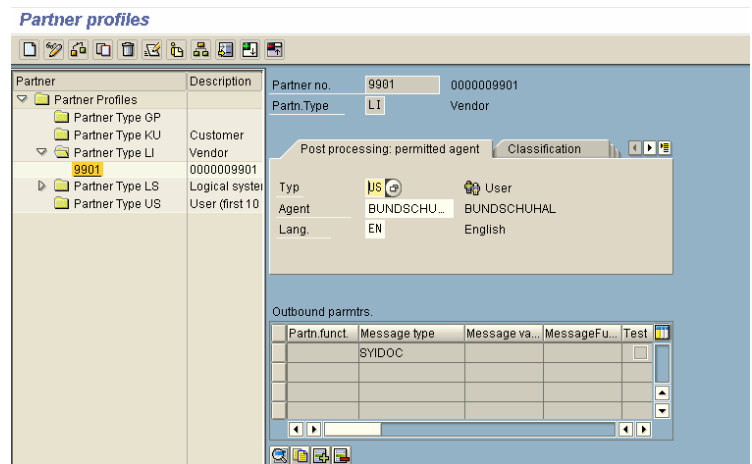
4 Case 2: IDoc of Type ≠LS



4.1 Maintain Partner Profiles in Sender and Receiver Systems

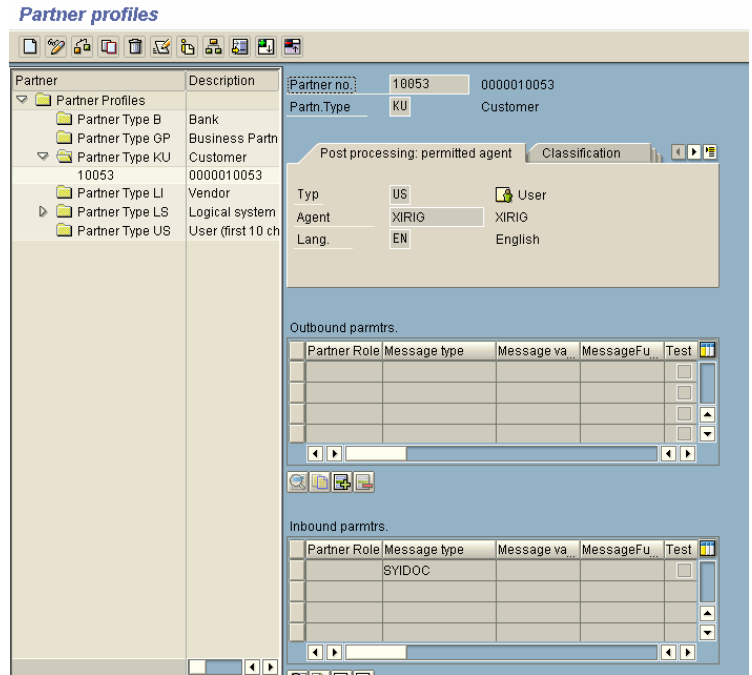
1. In the sender system, use transaction WE20 to maintain the partner profile for partner 9901 of type *Vendor* (LI).

Select the message type SYIDOC and the receiver port SAPU6D as outbound parameters.



2. In the receiver system, use transaction WE20 to maintain the partner profile for partner 10053 of type *Customer* (KU).

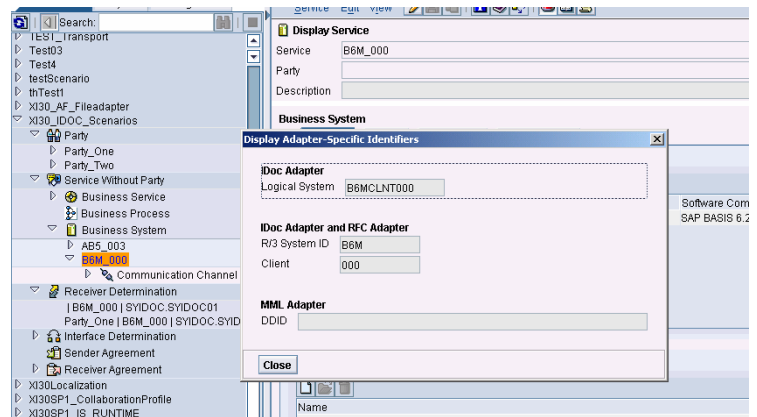
Select the message type SYIDOC as an inbound parameter.



4.2 Integration Builder: Configuration

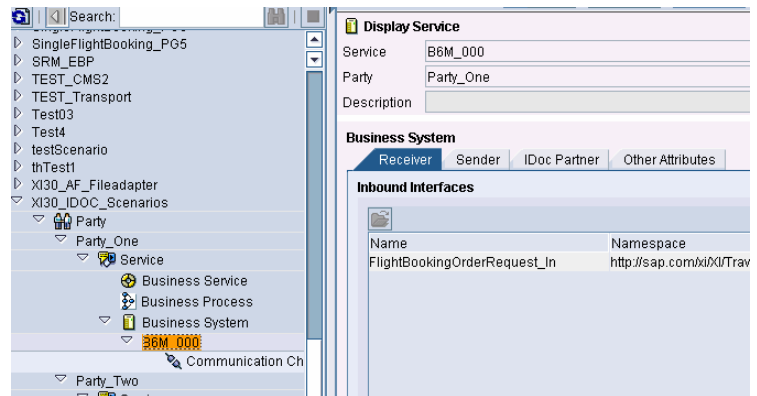
1. In the Integration Directory, assign the business system B6M_000 to the configuration scenario.

The partyless service is required for the IDoc adapter to determine the service by using the system ID and the client.

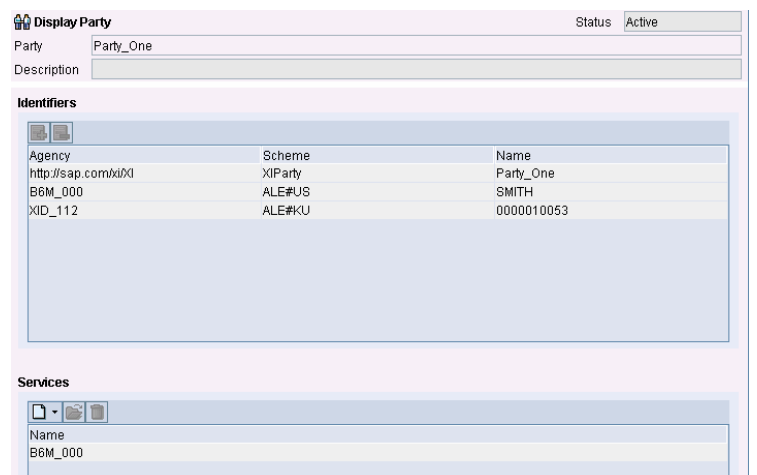


2. Create the party Party_One and assign the business system B6M_000 to it.

The XI party Party_One is the sender party.

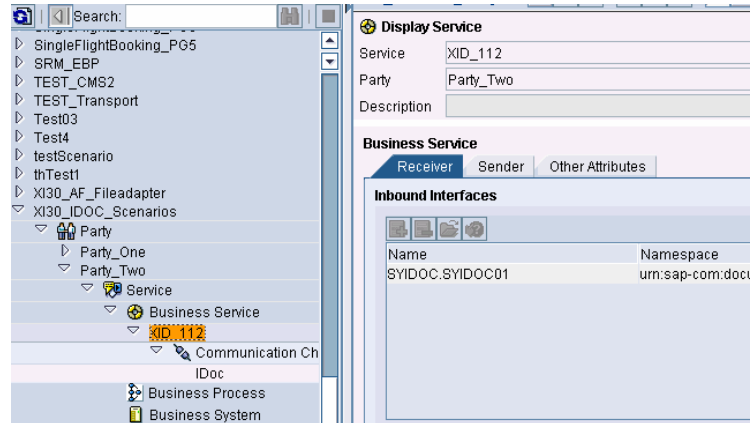


3. Maintain the alternative identifiers for Party_One according to the figure on the right.

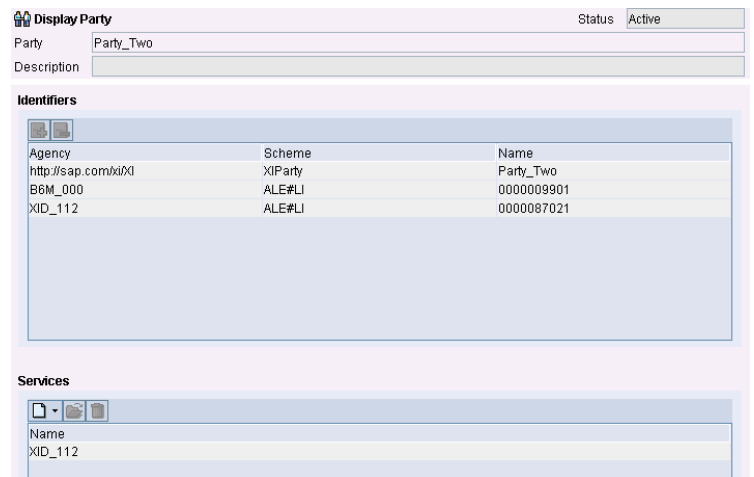


4. Create the party Party_Two and assign the business system XID_112 to it.

The XI party Party_Two is the receiver party.

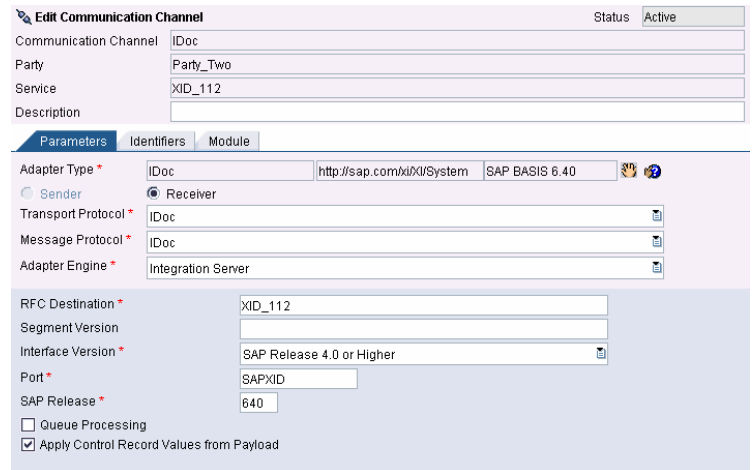


5. Maintain the alternative identifiers for Party_Two according to the figure on the right.



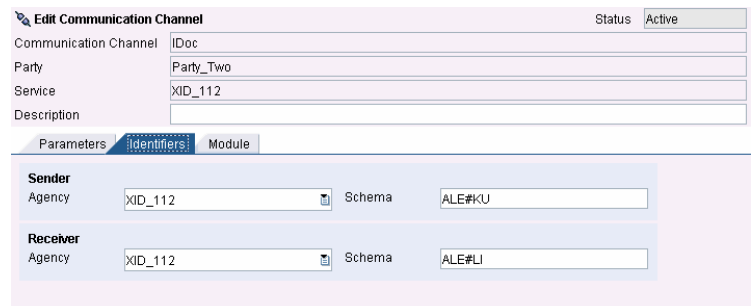
6. Create an communication channel of adapter type IDoc.

Select the adapter type IDoc, the RFC destination XID_112, the port SAPXID, and the appropriate SAP release.



7. On the *Identifiers* tab page, maintain the alternative identifiers for the sender and the receiver according to the figure on the right.

The party, agency, and scheme are used to identify the IDoc partner at the Integration Server outbound side.



4.3 Execute the Scenario

1. Send an IDoc with sender partner SMITH of type *User* (US), and with receiver partner 9901 of type *Vendor* (LI).

IDoc number: 40269
 Direction: 1 Outbound
 Status: 03 Data passed to port OK

Recipient information	
Port	SAPU6D U6D Client 700
Partner number	9901 0000009901
Partn.Type	LI Vendor
Function	

Sender information	
Port	SAPB6M
Partner number	SMITH SMITH
Partn.Type	US User (first 10 characters, no check)
Partn.function	

2. At the inbound channel of the Integration Server, an alternative party is generated in the message header consisting of party name, identification scheme, and agency.

Note: If no alternative identifiers are maintained, the alternative party is displayed in the main header of the XML message as shown in the figure on the right.

XML-Message-Versionen anzeigen

XML Message Msg ID = D268FC40BB7

```

<SAP:Main xmlns:SAP="http://sap.com/xi/XI/Message/30"
  xmlns:SOAP="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:wsu="http://www.w3.org/2003/01/soap-envelope/ws-security-utility-1.0.xsd" versionMajor="003" versionMinor="000"
  SOAP:mustUnderstand="1" wsu:id="vsuid-main-92ABE13F5C59AB7FE1000000A1551F7">
  <SAP:MessageClass>ApplicationMessage</SAP:MessageClass>
  <SAP:ProcessingMode>asynchronous</SAP:ProcessingMode>
  <SAP:MessageId>D268FC40-BB79-FE7D-E100-00000A1551FA</SAP:MessageId>
  <SAP:TimeSent>2004-07-20T12:43:52Z</SAP:TimeSent>
  <SAP:Sender>
    <SAP:Party agency="B6M_000" scheme="ALE#US">SMITH</SAP:Party>
    <SAP:Service>B6M_000</SAP:Service>
    <SAP:Interface namespace="urn:sap-com:document:sap:docmessages">BYIDOC.BYIDOC01</SAP:Interface>
  </SAP:Sender>
  <SAP:Receiver>
    <SAP:Party agency="B6M_000" scheme="ALE#LI">0000009901</SAP:Party>
    <SAP:Service>
    <SAP:Interface namespace=""/>
  </SAP:Receiver>
  <SAP:mustUnderstand=""/>
  <SAP:Category>XIserver</SAP:Category>
  <SAP:Code area="INTERNAL">PARTY_SERVICE</SAP:Code>
  <SAP:P1 />
  <SAP:P2 />
  <SAP:P3 />
  <SAP:P4 />
  <SAP:AdditionalText />
  <SAP:ApplicationFaultMessage namespace=""/>
  <SAP:Stack>Partner und Service sind nicht bestimmt.</SAP:Stack>
  </SAP:Main>
  
```

3. If alternative identifiers are maintained, the alternative parties are normalized, that is, they are replaced by the XI parties Party_One and Party_Two, respectively.

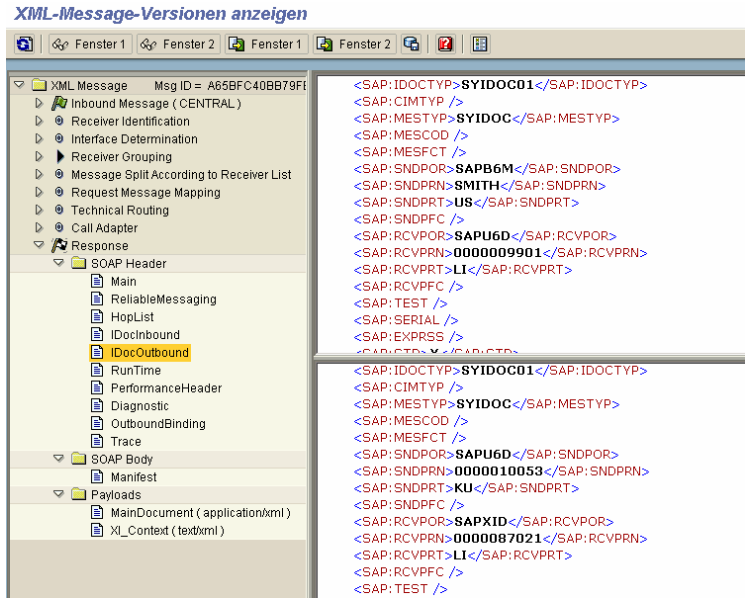
XML-Message-Versionen anzeigen

XML Message Msg ID = A658FC40BB79F1

```

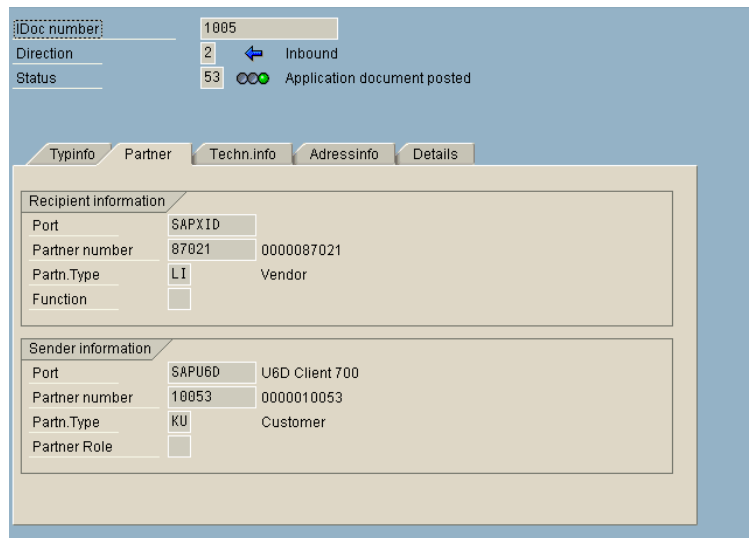
xmlns:SOAP="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:wsu="http://www.w3.org/2003/01/soap-envelope/ws-security-utility-1.0.xsd" versionMajor="003" versionMinor="000"
SOAP:mustUnderstand="1" wsu:id="vsuid-main-92ABE13F5C59AB7FE1000000A1551F7">
<SAP:MessageClass>ApplicationMessage</SAP:MessageClass>
<SAP:ProcessingMode>asynchronous</SAP:ProcessingMode>
<SAP:MessageId>A658FC40-BB79-FE7D-E100-00000A1551FA</SAP:MessageId>
<SAP:TimeSent>2004-07-20T12:11:14Z</SAP:TimeSent>
<SAP:Sender>
  <SAP:Party agency="http://sap.com/xi/XI"
    scheme="XIParty">Party_One</SAP:Party>
  <SAP:Service>B6M_000</SAP:Service>
  <SAP:Interface namespace="urn:sap-com:document:sap:docmessages">BYIDOC.BYIDOC01</SAP:Interface>
</SAP:Sender>
<SAP:Receiver>
  <SAP:Party agency="http://sap.com/xi/XI"
    scheme="XIParty">Party_Two</SAP:Party>
  <SAP:Service>
  <SAP:Interface namespace=""/>
</SAP:Receiver>
<?xml version="1.0" encoding="UTF-8" ?>
<SYIDOC01>
  <IDOC BEGIN="1">
  <EDI_DC40 SEGMENT="1">
    <TABNAM>EDI_DC40</TABNAM>
    <MANDT>000</MANDT>
    <DOCNUMS>000000000040269</DOCNUMS>
    <DOCREL>620</DOCREL>
    <STATUS>00</STATUS>
  
```

- At the outbound channel of the Integration Server, the IDoc partner is identified using the alternative party.



- In the receiver system, use transaction WE05 to display the inbound IDoc.

The partner names and types are converted.



4.4 XI 2.0 Compliance

1. In the communication channel, the *Apply Control Record Values from Payload* checkbox is not selected (XI 2.0 compliant).

Edit Communication Channel Status: Active

Communication Channel: IDoc
 Party: Party_Two
 Service: XID_112
 Description:

Parameters Identifiers Module

Adapter Type: IDoc http://sap.com/xi/XI/System SAP BASIS 6.40
 Sender: Receiver:
 Transport Protocol: IDoc
 Message Protocol: IDoc
 Adapter Engine: Integration Server

RFC Destination: XID_112
 Segment Version:
 Interface Version: SAP Release 4.0 or Higher
 Port: SAPXID
 SAP Release: 640
 Queue Processing
 Apply Control Record Values from Payload

2. Send an IDoc with sender partner SMITH of type *User*(US) and receiver partner 9901 of type *Vendor*(LI).

iDoc number: 40276
 Direction: 1 Outbound
 Status: 03 Data passed to port OK

Typinfo Partner Techn.info Adressinfo EDI det

Recipient information

Port	SAPU6D	U6D Client 700
Partner number	9901	0000009901
Partn.Type	LI	Vendor
Function		

Sender information

Port	SAPB6M	
Partner number	SMITH	SMITH
Partn.Type	US	User (first 10 characters, no check)
Partn.function		

3. The *IDoc Outbound* header section indicates that the fields are filled as follows:

Partner Number: logical system
 Sender Type: constant LS
 Partner Function: blank
 Direction: constant 2
 Status: constant 03

XML-Message-Versionen anzeigen

XML Original Message Msg ID = DF1CFD408D
 Acknowledgment Msg ID = FAA3FA4064FE2

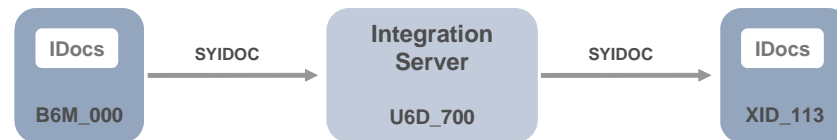
SOAP Header

```

<SAP:MESCOD />
<SAP:MESECT />
<SAP:SNDPOR>SAPB6M</SAP:SNDPOR>
<SAP:SNDRPN>SMITH</SAP:SNDRPN>
<SAP:SNDRPT>US</SAP:SNDRPT>
<SAP:SNDFPC />
<SAP:RCVPOR>SAPU6D</SAP:RCVPOR>
<SAP:RCVPRN>0000009901</SAP:RCVPRN>
<SAP:RCVPRT>LI</SAP:RCVPRT>
<SAP:RCVPFC />
<SAP:TEST />
<SAP:DOCDUM>000000000036020</SAP:DOCDUM>
<SAP:DIRECT>2</SAP:DIRECT>
<SAP:IDOCYP>SYIDOC01</SAP:IDOCYP>
<SAP:CIMTYP />
<SAP:MESTYP>SYIDOC</SAP:MESTYP>
<SAP:MESECT />
<SAP:SNDPOR>SAPU6D</SAP:SNDPOR>
<SAP:SNDRPN>B6MCLNT000</SAP:SNDRPN>
<SAP:SNDRPT>LS</SAP:SNDRPT>
<SAP:SNDFPC />
<SAP:RCVPOR>SAPXID</SAP:RCVPOR>
<SAP:RCVPRN>XIDCLNT112</SAP:RCVPRN>
<SAP:RCVPRT>LS</SAP:RCVPRT>
<SAP:RCVPFC />
<SAP:TEST />
<SAP:SERIAL />
<SAP:EXPRS />
<SAP:STD />
<SAP:STDRS />
<SAP:STATUS>03</SAP:STATUS>
<SAP:OUTMOD />
  
```

5 Case 3: IDoc of Type ≠LS – Master Data Consolidated

This scenario is relevant for system landscapes where master data is already consolidated, that is, master data for business partners, material, products e, and so on is globally identical.



	IDoc Party Name / Type	XI Party Agency / Scheme / Name / Service	IDoc Party Name / Type
Sender:	MILLER / US	B6M_000 / ALE#US / MILLER / B6M_000	MILLER / US
Receiver:	0000029603 / LI	B6M_000 / ALE#LI / 0000029603 / XID_113	0000029603 / LI

The alternative parties do not necessarily have to be normalized, because the partner names and types are identical in both systems involved, although for monitoring reasons it is recommended to do so. Hence, you do not have to maintain any alternative identifiers within XI. This can be a significant advantage when you have a very large amount of master data.

One approach for configuring this scenario would be to leave the alternative parties unchanged, without any need for conversion. This works for the sender party but causes problems for the receiver party: The party name is restricted to letters only, and if the name of the party contains a number, it is not possible to enter the party in the receiver agreement. Another problem occurs if two partners exist with identical partner numbers but different partner types. The party agency and the party scheme are ignored during interface determination and receiver agreement. Therefore, the two parties cannot be distinguished from each other. The next section illustrates this approach up to the point where the problem occurs.

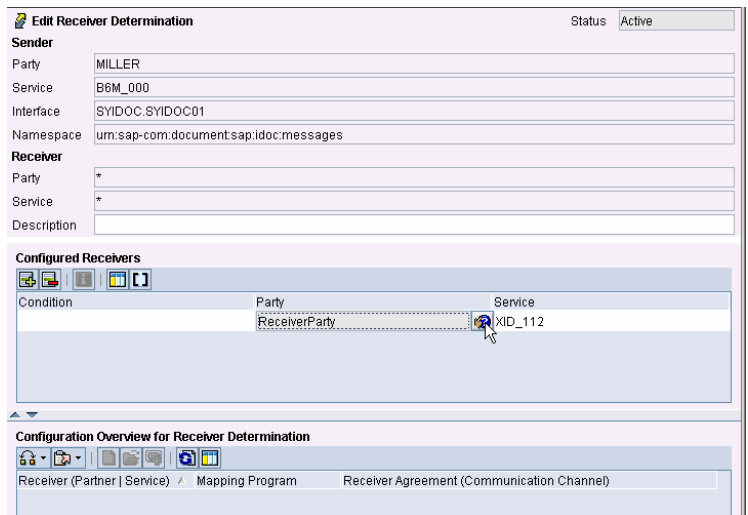
To solve this problem, use the following workaround: Enter a partyless receiver service in the receiver determination. The alternative party is reconstructed using the header mapping (see section 5.2).

5.1 Approach: Configuring Using Context Objects Within the Receiver Determination

1. Create a receiver determination.

Select the sender party MILLER and the sender service B6M_000.

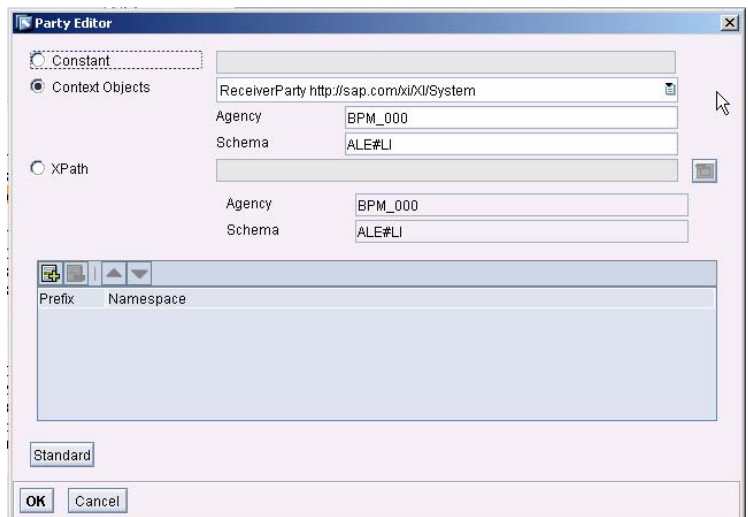
Note: This is only possible because the sender party in the current example does not contain any numbers (see below).



Condition	Party	Service
	ReceiverParty	XID_112

2. For the receiver party, select the appropriate context object.

Constants are entered for *Agency* and *Schema*, because the corresponding context objects are not available at this stage. However, they will be provided in a later patch.



3. **Problem:** For the receiver agreement, you have to enter the receiver party. However, this is not possible if the receiver party contains a number, as is the case in the current example. As mentioned above, only letters are permitted.



5.2 Workaround: Configuring Using Header Mapping

1. Create a receiver determination and an interface determination.

Enter asterisks for the sender party and the sender service.

Select the receiver service XID_113. This causes the party, agency, and scheme to disappear from the message header.

2. In the receiver agreement, a header mapping is required for the receiver party.

3. In the header mapping, you have to replace the receiver party with the IDoc receiver partner number that is provided in the payload of the XML message. Hence, select the appropriate XPath expression.

For the current example, enter the agency XID_113 and the scheme ALE#LI. Alternatively, enter an XPath expression.

Edit Receiver Determination Status: Being Processed

Sender

Party *

Service *

Interface SYIDOC.SYIDOC01

Namespace urn:sap-com:document:sap:idoc:messages

Receiver

Party *

Service *

Description

Configured Receivers

Condition	Party	Service
		XID_113

Configuration Overview for Receiver Determination

Receiver (Partner | Service) Mapping Program Receiver Agreement (Communication Channel)

Edit Receiver Agreement Status: Being Processed

Sender

Party *

Service *

Receiver

Party

Service XID_113

Interface SYIDOC.SYIDOC01

Namespace urn:sap-com:document:sap:idoc:messages

Description

Receiver Communication Channel * IDoc

Header Mapping

Sender Party

Sender Service

Receiver Party /SYIDOC01/IDOC/EDI_DC40/RCVPRN

Receiver Service

Display List of Permitted Values F4

Party Editor

Constant

Context Objects

XPath

Agency XID_113

Schema ALE#LI

XPath /SYIDOC01/IDOC/EDI_DC40/RCVPRN

Structure	Categ...	Type	Occurren...	Detai...	Defa...	Descripti...
SYIDOC01	Element					
IDOC	Element	SYIDOC.SYIDOC...	1			

Agency XID_113

Schema ALE#LI

Prefix	Namespace

Standard

OK Cancel

4. In the communication channel, no alternative identifiers are required.

The screenshot displays the 'Edit Communication Channel' interface. At the top right, the status is 'Active'. The main form fields are:

- Communication Channel: IDoc
- Party: (empty)
- Service: xID_113
- Description: (empty)

Below these fields are three tabs: 'Parameters', 'Identifiers', and 'Module'. The 'Identifiers' tab is selected and contains two sections:

- Sender**: Agency (dropdown), Schema (dropdown), and a text input field.
- Receiver**: Agency (dropdown), Schema (dropdown), and a text input field.

5.3 Execute the Scenario (Workaround)

1. Send an IDoc with sender partner MILLER of type *User* (US) and receiver partner 29603 of type *Vendor* (LI).

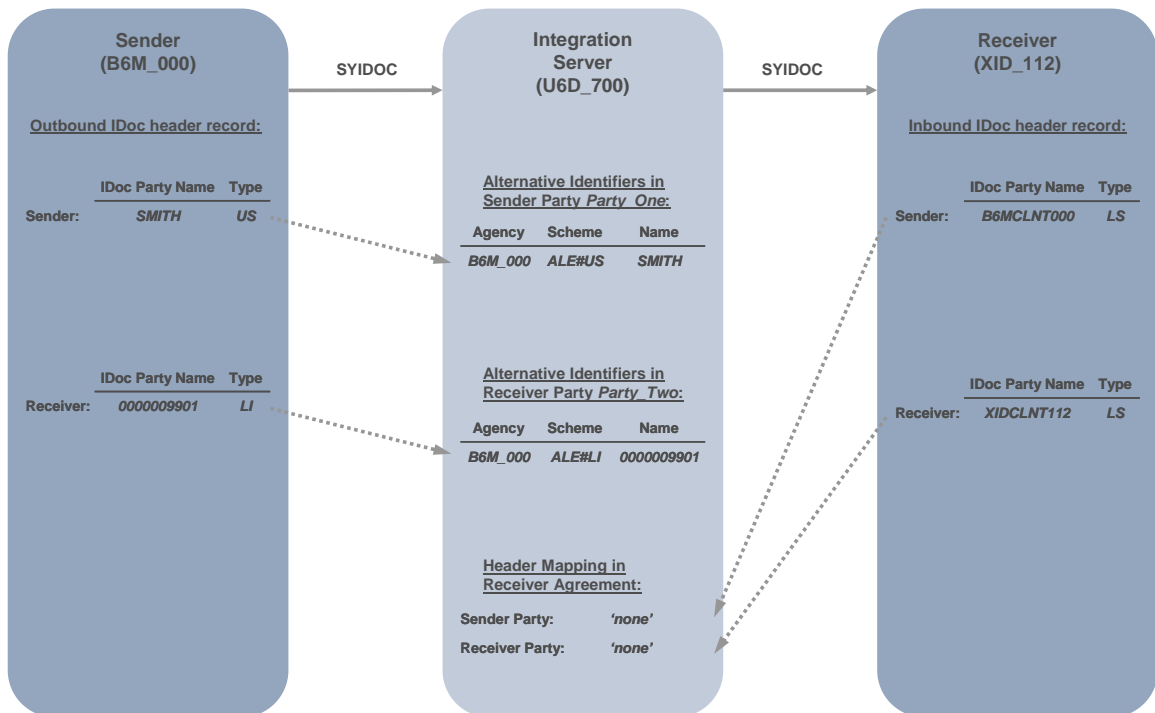
The screenshot shows the SAP IDoc configuration interface. At the top, the IDoc number is 40302. The direction is set to 'Outbound' (1) and the status is 'Data passed to port OK' (03). Below this are tabs for 'Typinfo', 'Partner', 'Techn.info', 'Adressinfo', and 'EDI det'. The 'Partner' tab is active, displaying two sections: 'Recipient information' and 'Sender information'.
Recipient information:
Port: SAPU6D (U6D Client 700)
Partner number: 29603 (0000029603)
Parth.Type: LI (Vendor)
Function: (empty)
Sender information:
Port: SAPB6M
Partner number: MILLER
Parth.Type: US (User (first 10 characters, no check))
Parth.function: (empty)

2. As you can see in the message monitoring, the IDoc partner type and number remain unchanged.

The screenshot shows the 'XML-Message-Versionen anzeigen' (View XML Message Versions) tool. The left pane shows a tree view of the message structure, with 'IDocOutbound' selected under the 'SOAP Header' section. The right pane displays the XML payload, which is a standard IDoc header structure. The XML content is as follows:

```
<SAP:IDOC TYP>SYIDOC01</SAP:IDOC TYP>
<SAP:CIM TYP />
<SAP:MESTYP>SYIDOC</SAP:MESTYP>
<SAP:MESCOD />
<SAP:MESFCT />
<SAP:SNDRP OR>SAPB6M</SAP:SNDRP OR>
<SAP:SNDRP RN>MILLER</SAP:SNDRP RN>
<SAP:SNDRP RT>US</SAP:SNDRP RT>
<SAP:SNDRP FC />
<SAP:RCVPOR>SAPU6D</SAP:RCVPOR>
<SAP:RCVPRN>0000029603</SAP:RCVPRN>
<SAP:RCVPR T>LI</SAP:RCVPR T>
<SAP:RCVPR FC />
<SAP:TEST />
<SAP:SERIAL />
<SAP:EXPRESS />
<SAP:DIRECT>1</SAP:DIRECT>
<SAP:IDOC TYP>SYIDOC01</SAP:IDOC TYP>
<SAP:CIM TYP />
<SAP:MESTYP>SYIDOC</SAP:MESTYP>
<SAP:MESCOD />
<SAP:MESFCT />
<SAP:SNDRP OR>SAPU6D</SAP:SNDRP OR>
<SAP:SNDRP RN>MILLER</SAP:SNDRP RN>
<SAP:SNDRP RT>US</SAP:SNDRP RT>
<SAP:SNDRP FC />
<SAP:RCVPOR>SAPXID</SAP:RCVPOR>
<SAP:RCVPRN>0000029603</SAP:RCVPRN>
<SAP:RCVPR T>LI</SAP:RCVPR T>
<SAP:RCVPR FC />
<SAP:TEST />
```


6 Case 4: Party (≠LS) → Partyless (LS)



6.1 Integration Builder: Configuration

1. In the communication channel, no identifiers are required.

Edit Communication Channel Status: Active

Communication Channel	IDoc_Cons
Party	Party_Two
Service	XID_112
Description	

Parameters Identifiers Module

Sender	
Agency	<input type="text"/> Schema <input type="text"/>
Receiver	
Agency	<input type="text"/> Schema <input type="text"/>

2. In the receiver agreement, header mappings for the sender party and the receiver party are required.

Leave the sender party and receiver party empty.

Edit Receiver Agreement Status **Being Processed**

Sender

Party: Party_One
Service: B6M_000

Receiver

Party: Party_Two
Service: XID_112
Interface: SYIDOC.SYIDOC01
Namespace: urn:sap-com:document:sap:idoc:messages
Description:

Receiver Communication Channel * IDoc_Cons

Header Mapping

Sender Party
 Sender Service
 Receiver Party
 Receiver Service

6.2 Execute the Scenario

1. Send an IDoc with sender partner SMITH of type *User*(US) and receiver partner 9901 of type *Vendor*(LI).

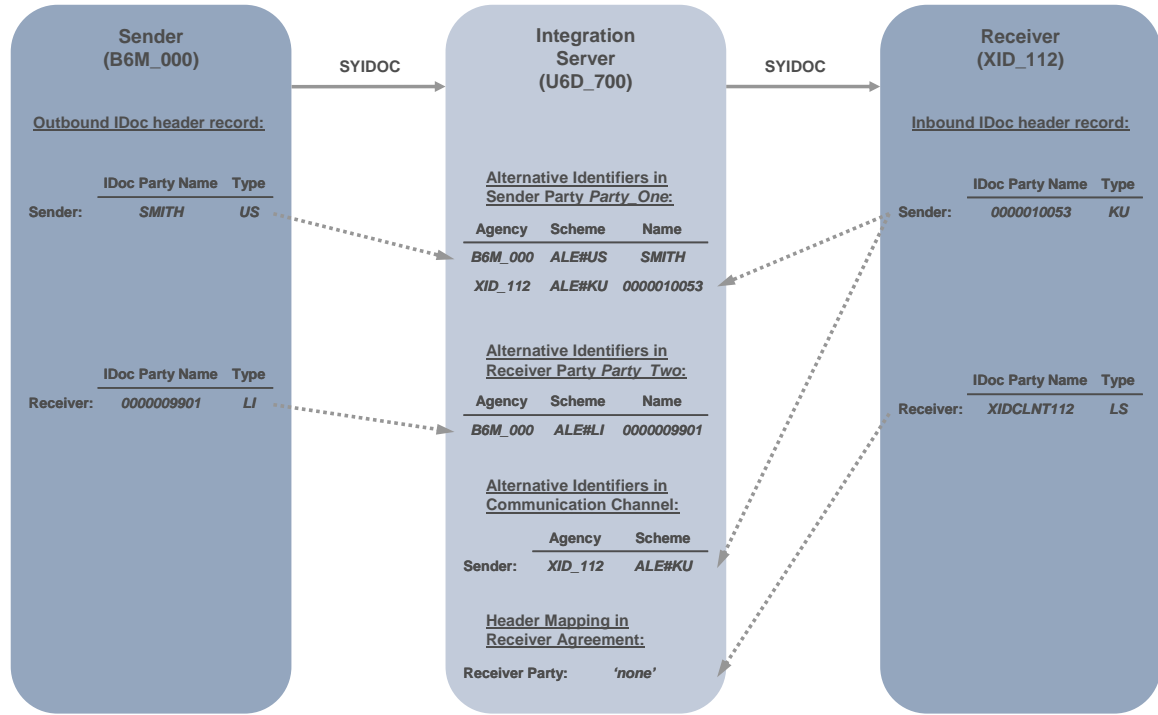
The IDoc Outbound header section indicates that the parties are replaced by the corresponding logical systems.

The screenshot displays the 'XML-Message-Versionen anzeigen' (View XML Message Versions) interface. The left pane shows a tree view of the message structure, with 'IDocOutbound' highlighted under the 'SOAP Header' section. The right pane shows the corresponding XML code for the IDocOutbound header, including sender and receiver partner information.

```
<SAP:IDOCTYP>SYIDOC01</SAP:IDOCTYP>
<SAP:CIMTYP />
<SAP:MESTYP>SYIDOC</SAP:MESTYP>
<SAP:MESCOD />
<SAP:MESFCT />
<SAP:SNDPOR>SAPB6M</SAP:SNDPOR>
<SAP:SNDRPN>SMITH</SAP:SNDRPN>
<SAP:SNDRPT>US</SAP:SNDRPT>
<SAP:SNDFPC />
<SAP:RCVPOR>SAPU6D</SAP:RCVPOR>
<SAP:RCVPRN>000009901</SAP:RCVPRN>
<SAP:RCVPRT>LI</SAP:RCVPRT>
<SAP:RCVPFC />
<SAP:TEST />
<SAP:SERIAL />
<SAP:EXPRSS />
<SAP:CTD1 />
<SAP:CTD2 />
<SAP:CTD3 />
<SAP:CTD4 />
<SAP:CTD5 />
<SAP:CTD6 />
<SAP:CTD7 />
<SAP:CTD8 />
<SAP:CTD9 />
<SAP:CTD10 />
<SAP:CTD11 />
<SAP:CTD12 />
<SAP:CTD13 />
<SAP:CTD14 />
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<SAP:CTD88 />
<SAP:CTD89 />
<SAP:CTD90 />
<SAP:CTD91 />
<SAP:CTD92 />
<SAP:CTD93 />
<SAP:CTD94 />
<SAP:CTD95 />
<SAP:CTD96 />
<SAP:CTD97 />
<SAP:CTD98 />
<SAP:CTD99 />
<SAP:CTD100 />
```

7 Case 5: Party (≠LS) → Partyless Receiver

This case is also relevant to RNIF, since RNIF requires parties (RNIF → IDoc).



7.1 Integration Builder: Configuration

1. In the communication channel, only identifiers for the sender are required.

Edit Communication Channel Status: Active

Communication Channel: IDoc

Party:

Service: XID_112

Description:

Parameters Identifiers Module

Sender

Agency: Schema:

Receiver

Agency: Schema:

2. In the receiver agreement, a header mapping for the receiver party is required.

Leave the receiver party empty.

The screenshot displays the 'Edit Receiver Agreement' window in SAP. The window title is 'Edit Receiver Agreement' with a status bar indicating 'Status: Being Processed'. The interface is divided into several sections:

- Sender:** Party: Party_One, Service: B6M_000.
- Receiver:** Party: Party_Two, Service: XID_112, Interface: SYIDOC.SYIDOC01, Namespace: urn:sap-com:document:sap:idoc:messages, Description: (empty).
- Receiver Communication Channel:** IDoc_RNIF2IDOC.
- Header Mapping:** A list of checkboxes for mapping header data:
 - Sender Party
 - Sender Service
 - Receiver Party
 - Receiver Service

7.2 Execute the Scenario

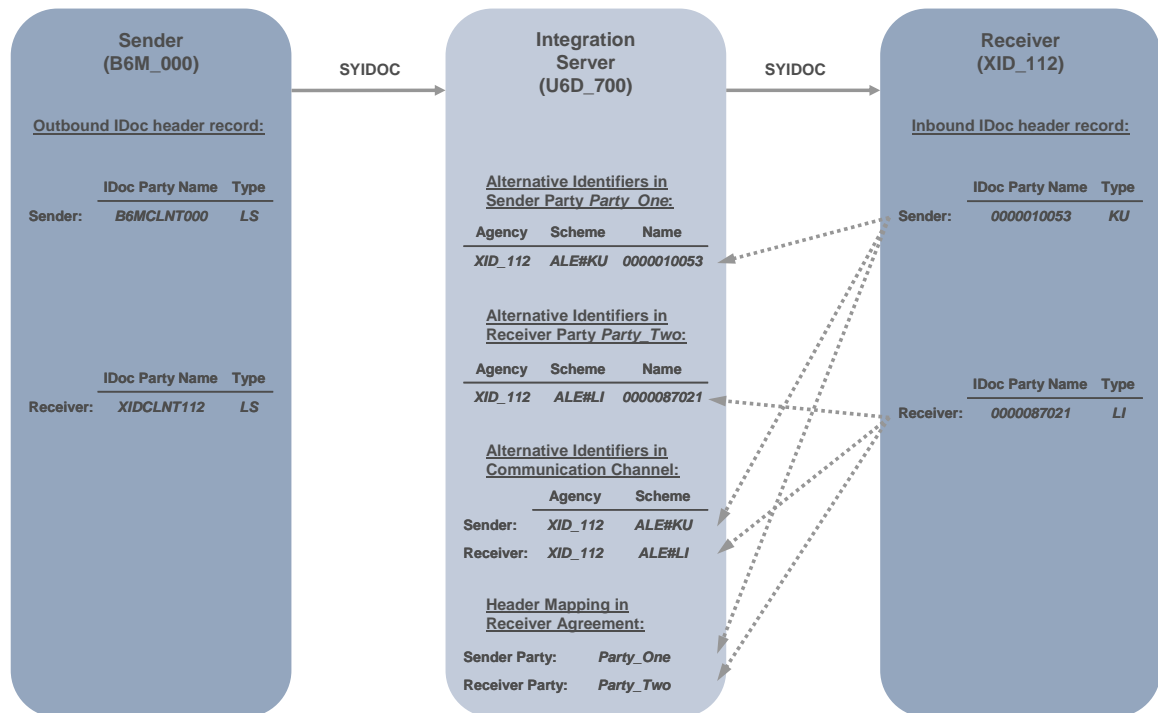
1. Send an IDoc with sender partner SMITH of type *User*(US) and receiver partner 9901 of type *Vendor*(LI).

The IDoc Outbound header section indicates that the receiver party is replaced by the corresponding logical systems.

The screenshot displays the 'XML-Message-Versionen anzeigen' (XML Message Versions Display) window. The left pane shows a tree view of the message structure, with 'IDocOutbound' highlighted under the 'SOAP Header' section. The right pane shows the corresponding XML payload for the selected element.

```
<SAP:DOCNUM>000000000040318</SAP:DOCNUM>
<SAP:DIRECT>1</SAP:DIRECT>
<SAP:IDOCTYP>SYIDOC01</SAP:IDOCTYP>
<SAP:CIMTYP />
<SAP:MESTYP>SYIDOC</SAP:MESTYP>
<SAP:MESCOD />
<SAP:MESFCT />
<SAP:SNDPOR>SAPB6M</SAP:SNDPOR>
<SAP:SNDPRN>SMITH</SAP:SNDPRN>
<SAP:SNDPRT>US</SAP:SNDPRT>
<SAP:SNDPFC />
<SAP:RCVPOR>SAPU6D</SAP:RCVPOR>
<SAP:RCVPRN>000009901</SAP:RCVPRN>
<SAP:RCVPRT>LI</SAP:RCVPRT>
<SAP:RCVPFC />
<SAP:TEST />
```

8 Case 6: Partyless (LS) → Party (≠LS)



8.1 Integration Builder: Configuration

1. In the receiver determination, select the partyless sender service B6M_000, the sender interface SYIDOC.SYIDOC01, and the partyless receiver service XID_112.

Edit Receiver Determination Status: Being Processed

Sender

Party:

Service: B6M_000

Interface: SYIDOC.SYIDOC01

Namespace: urn:sap-com:document:sap:idoc:messages

Receiver

Party: *

Service: *

Description:

Configured Receivers

Condition	Party	Service
		XID_112

Configuration Overview for Receiver Determination

Receiver (Partner Service)	Mapping Program	Receiver Agreement (Communication Channel)
XID_112		
SYIDOC.SYIDOC01	Not specified	IDoc

2. In the receiver agreement, header mappings for the sender and receiver party are required.

Replace the sender party with Party_One and the receiver party with Party_Two.

Edit Receiver Agreement Status: Being Processed

Sender

Party:

Service:

Receiver

Party:

Service:

Interface:

Namespace:

Description:

Receiver Communication Channel *

Header Mapping

Sender Party

Sender Service

Receiver Party

Receiver Service

3. In the communication channel, you have to define identifiers for the sender and receiver.

Edit Communication Channel Status: Being Processed

Communication Channel:

Party:

Service:

Description:

Parameters Identifiers Module

Sender

Agency: Schema:

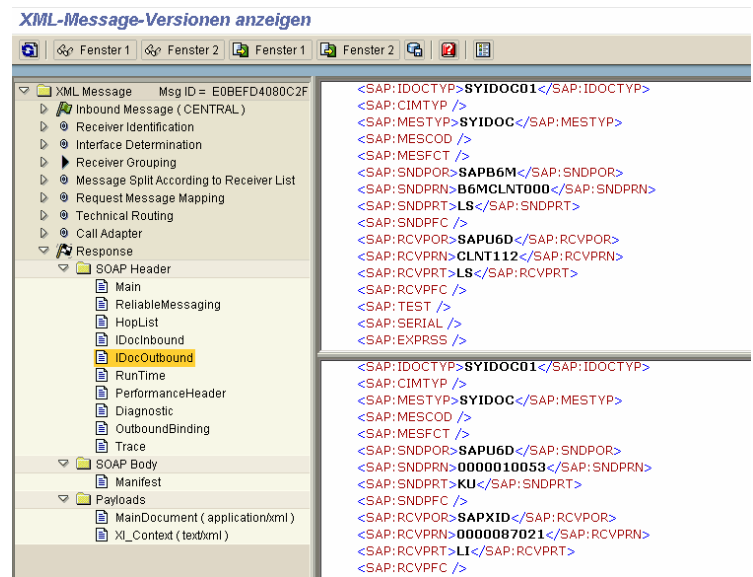
Receiver

Agency: Schema:

8.2 Execute the Scenario

1. Send an IDoc of partner type LS (logical system).

The IDoc Outbound header section indicates that the partner names and types are replaced according to the alternative identifiers.

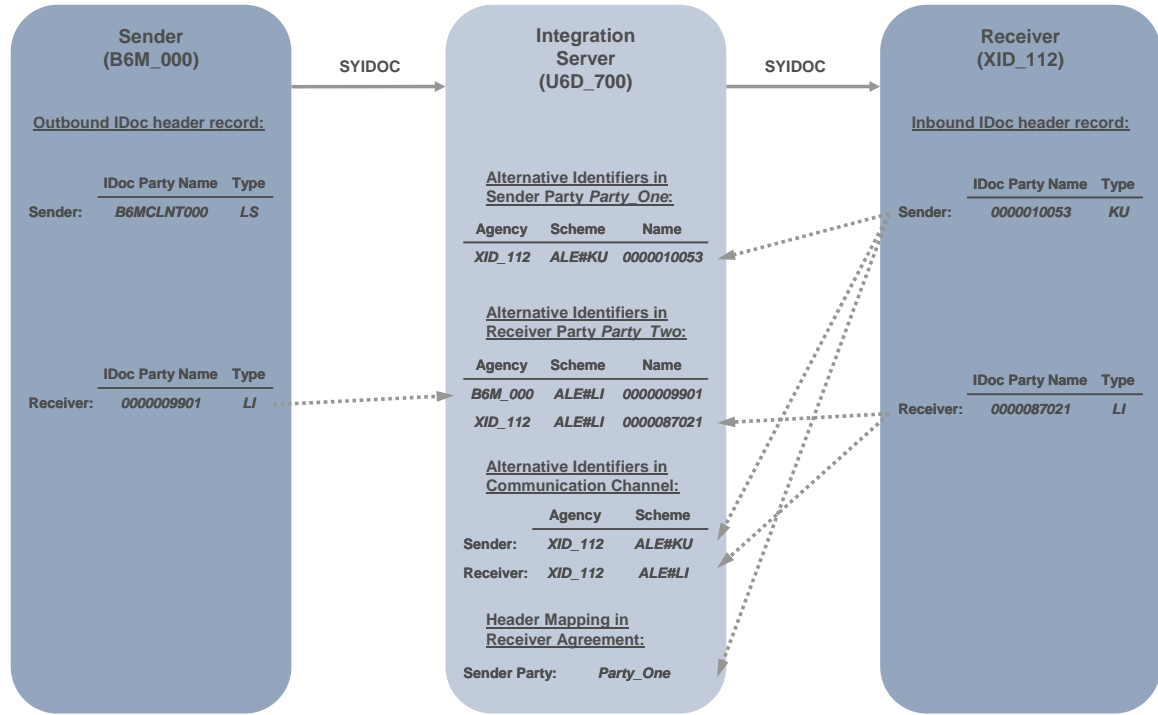


The screenshot displays the 'XML-Message-Versionen anzeigen' tool interface. The left pane shows a tree view of the message structure, with 'IDocOutbound' selected under the 'SOAP Header' section. The right pane shows the corresponding XML code for the selected element.

```
<SAP:IDOC TYP>SYIDOC01</SAP:IDOC TYP>
<SAP:CIM TYP />
<SAP:MESTYP>SYIDOC</SAP:MESTYP>
<SAP:MESCOD />
<SAP:MESFCT />
<SAP:SNDPOR>SAPB6M</SAP:SNDPOR>
<SAP:SNDRPN>B6MCLNT000</SAP:SNDRPN>
<SAP:SNDRPT>LS</SAP:SNDRPT>
<SAP:SNDPFC />
<SAP:RCVPOR>SAPU6D</SAP:RCVPOR>
<SAP:RCVPRN>CLNT112</SAP:RCVPRN>
<SAP:RCVPRT>LS</SAP:RCVPRT>
<SAP:RCVPFC />
<SAP:TEST />
<SAP:SERIAL />
<SAP:EXPRSS />
<SAP:IDOC TYP>SYIDOC01</SAP:IDOC TYP>
<SAP:CIM TYP />
<SAP:MESTYP>SYIDOC</SAP:MESTYP>
<SAP:MESCOD />
<SAP:MESFCT />
<SAP:SNDPOR>SAPU6D</SAP:SNDPOR>
<SAP:SNDRPN>0000010053</SAP:SNDRPN>
<SAP:SNDRPT>KU</SAP:SNDRPT>
<SAP:SNDPFC />
<SAP:RCVPOR>SAPXID</SAP:RCVPOR>
<SAP:RCVPRN>0000087021</SAP:RCVPRN>
<SAP:RCVPRT>LI</SAP:RCVPRT>
<SAP:RCVPFC />
```

9 Case 7: Partyless Sender → Party (≠LS)

This case is also relevant to RNIF, since RNIF requires parties (IDoc → RNIF).



9.1 Integration Builder: Configuration

1. In the receiver determination, select the partyless sender service B6M_000, the sender interface SYIDOC.SYIDOC01, and the receiver service XID_112 with party Party_Two.

Display Receiver Determination Status: Active

Sender

Party:

Service: B6M_000

Interface: SYIDOC.SYIDOC01

Namespace: urn:sap-com:document:sap:idoc:messages

Receiver

Party: *

Service: *

Description:

Configured Receivers

Condition	Party	Service
	Party_Two	XID_112

Configuration Overview for Receiver Determination

Receiver (Partner Service)	Mapping Program	Receiver Agreement (Communication Channel)
Party_Two XID_112		
SYIDOC.SYIDOC01	Not specified	IDoc

2. In the receiver agreement, a header mapping for the sender party is required.

Replace the sender party with Party_One.

The screenshot shows the 'Edit Receiver Agreement' configuration page. The status is 'Active'. The 'Sender' section has Party: [] and Service: B6M_000. The 'Receiver' section has Party: Party_Two, Service: XID_112, Interface: SYIDOC.SYIDOC01, and Namespace: urn:sap-com:document:sap:idoc:messages. The 'Receiver Communication Channel' is IDoc. The 'Header Mapping' section has a checked box for 'Sender Party' with the value Party_One, and unchecked boxes for 'Sender Service', 'Receiver Party', and 'Receiver Service'.

3. In the communication channel, you have to define identifiers for the sender and receiver.

The screenshot shows the 'Edit Communication Channel' configuration page. The status is 'Active'. The 'Communication Channel' is IDoc, 'Party' is Party_Two, and 'Service' is XID_112. The 'Identifiers' tab is selected, showing 'Sender' Agency: XID_112 with Schema ALE#KU and 'Receiver' Agency: XID_112 with Schema ALE#LI.

9.2 Execute the Scenario

1. Send an IDoc with sender partner type LS and receiver partner type LI.

The IDoc Outbound header section indicates that the partner names and types are replaced according to the alternative identifiers.

XML-Message-Versionen anzeigen

The screenshot displays the XML-Message-Versionen anzeigen tool interface. The left pane shows a tree view of the message structure, with 'IDocOutbound' highlighted under the 'SOAP Header' section. The right pane shows the XML content for the selected element, which is an IDocOutbound header. The XML content is as follows:

```
<SAP:DIRECT>1</SAP:DIRECT>
<SAP:IDDOCTYP>SYIDOC01</SAP:IDDOCTYP>
<SAP:CIMTYP />
<SAP:MESTYP>SYIDOC</SAP:MESTYP>
<SAP:MESCOD />
<SAP:MESFCT />
<SAP:SNDPOR>SAPB6M</SAP:SNDPOR>
<SAP:SNDRPN>B6MCLNT000</SAP:SNDRPN>
<SAP:SNDRPT>LS</SAP:SNDRPT>
<SAP:SNDFPC />
<SAP:RCVPOR>SAPU6D</SAP:RCVPOR>
<SAP:RCVPRN>000009901</SAP:RCVPRN>
<SAP:RCVPRT>LI</SAP:RCVPRT>
<SAP:RCVPFC />
<SAP:TEST />
<SAP:SERIAL />
```

The right pane also shows the SOAP Body structure, with 'MainDocument (application/xml)' and 'Xl_Context (text/xml)' visible. The XML content for the selected element is as follows:

```
<SAP:DIRECT>1</SAP:DIRECT>
<SAP:IDDOCTYP>SYIDOC01</SAP:IDDOCTYP>
<SAP:CIMTYP />
<SAP:MESTYP>SYIDOC</SAP:MESTYP>
<SAP:MESCOD />
<SAP:MESFCT />
<SAP:SNDPOR>SAPU6D</SAP:SNDPOR>
<SAP:SNDRPN>0000010053</SAP:SNDRPN>
<SAP:SNDRPT>KU</SAP:SNDRPT>
<SAP:SNDFPC />
<SAP:RCVPOR>SAPXID</SAP:RCVPOR>
<SAP:RCVPRN>0000087021</SAP:RCVPRN>
<SAP:RCVPRT>LI</SAP:RCVPRT>
<SAP:RCVPFC />
<SAP:TEST />
```

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