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Gentran:Server for Windows

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About this Guide

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Overview

Introduction	Welcome to the Gentran:Server [®] for Windows [®] Extension for SAP [®] . This release is compatible with Gentran:Server for Windows release 5.2 and higher, and assists you in your e-business solution implementations of SAP. This is Sterling Commerce's interface between the receipt and transmission of electronic commerce transactions and SAP application software.
Product overview	This easy-to-use product facilitates your electronic commerce processes to directly benefit your business. The Extension for SAP passes status information to SAP for outbound IDocs, and enables you to send IDocs into SAP automatically in unattended processing mode.
The difference between the SAP Extension and the SAP Gateway	The Gentran:Server for Windows Extension for SAP allows communication between your Gentran:Server system and your SAP system. This includes tracking an IDoc sent from your Gentran:Server system as the IDoc is translated, interchanged, sent to your trading partner, and the acknowledgement through SAP status codes. Therefore, you can send status messages back to your SAP system regarding the status of a specific IDoc.
	The SAP Gateway is sold separately and is installed from the Gentran:Server Options Pack. The gateway processes IDocs to and from your SAP system, but does not track the status of the IDocs sent from SAP to Gentran:Server. Therefore, no status messages are sent back to your SAP system regarding the status of a specific IDoc.
Installing the Extension for SAP	Reference See the <i>Installation and Upgrade Instructions Card</i> for more information on how to install or upgrade the Extension for SAP.

Contents of this Guide

Introduction	This document provides instructions for installing the Gentran:Server for Windows Extension for SAP. It also contains configuration and administration information you need to operate the extension properly.			
Purpose	This guide supplements the following documentation:			
	Gentran:Server for Windows Administration Guide			
	• Gentran:Server for Windows User's Guide			
	• Online Help systems for Gentran:Server.			
Prerequisite	This document assumes that you are familiar with the following:			
knowledge	 Microsoft[®] Windows operating system 			
	General administrative functions			
	Standard Windows and SAP terminology			
	SAP administration			

Typeface styles	These are the typeface styles used in this document:		
	Introduction This typeface is used for emphasis or to indicate a chapter in this guide		
	New	This typeface indicates a button in the program. Click the button with your mouse, or press TAB until the button is highlighted, then press ENTER to execute that command.	
	ALT	This typeface indicates a key that you need to press on your keyboard. A plus sign $(+)$ between key names indicates a combination of keys to be pressed together (such as $ALT + T$).	

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Getting Support

Introduction	The Sterling Commerce Gentran:Server software is supported by trained product support personnel who are available to help you with product questions or concerns.			
		pport does not support non-Sterling Commerce products c.), but can assist you in configuring non-Sterling Commerce in:Server.		
Phone number	For assistance, please refer to your <i>Getting Started Guide</i> to determine which support phone number you should use.			
Before calling support	• Attempt to recreate any p events.	rvice, we ask that you do the following: problem that you encounter and record the exact sequence of upport, you should be prepared to provide us with the		
	Information Description			
	Identification	Your company name, your name, telephone number and extension, and the case number (if the question refers to a previously reported issue).		
	System Configuration	The Gentran:Server version (and any service packs installed) and information about the primary Gentran system controller and all machines experiencing problems, including: the Windows operating system version, amount of memory, available disk space, database version, Microsoft Data Access (MDAC) version, and Internet Explorer version.		
		Also, please describe any recent changes in your hardware, software, or the configuration of your system.		
	System Data Store	Which machines contain folders in the system data store?		
	Error Messages	Record the exact wording of any error messages you receive and the point in the software where the error occurred, as well as any log files.		
	Attempted Solutions	Record any steps that you took attempting to resolve the problem and note all the outcomes, and provide an estimate on how many times the problem occurred and whether it can be reproduced.		

Accessing the Sterling	The Sterling Commerce Customer Support Web Site contains valuable information about getting support for Gentran:Server for Windows, including the following:			
Commerce	 scope of support services 			
Support Web Site	• customer support policies			
	• call prioritizing			
	• customer support phone directory			
	• how to create new Support on Demand cases			
	• how to check the status of Support on Demand cases			
	 how to add information to Support on Demand cases 			
The Customer Support Web Site is constantly updated and all Sterling Commo customers have access to it. This web site also contains the most recent produc and is a valuable source of product information.				
	Reference			
	Refer to the <i>Getting Started Guide</i> for information on how to access the Customer Support World Wide Web Site.			
Documentation	The Customer Support Web Site contains a documentation library, which has the entire Gentran:Server for Windows documentation set. You can download the product manuals in PDF format from this library at any time.			

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Configuring the Extension

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Overview

Introduction

The Gentran:Server for Windows SAP Configuration program, which is part of the Extension for SAP package, enables you to specify how you want the extension to operate. You can start this program by clicking Start and selecting Programs, Gentran:Server, and Gentran:Server for Windows SAP Configuration.

This diagram shows the Gentran:Server for Windows SAP Configuration dialog box.

Gentran:Server for Windows SAP Configuration diagram

Program ID	-a		Next
SAP Version		3	Previous
SAP System ID	-d		New
SAP Username	-u		Delete
SAP User Password	-p		Advanced
SAP System Client	-c		
SAP System Language	-1		C ALE
SAP Application Server	-h		ALE BEC
SAP System ID Number	-s		
SAP Gateway Server	-g		
SAP Service	-x		🗖 Load Balance
SAP EDI Port -E I	Port=		
Filename			
Connection Name		[Default Inbound]	

Tabs The configuration options are grouped into three tabs, each controlling a different operation of the Extension for SAP. The following table lists and describes each tab:

This tab	Specifies
Connection Parameters	Particular SAP systems that are to receive data transmitted from the Extension for SAP.
General	The type of status messages you want the Extension for SAP to collect and the location of the SAP program STARTRFC.
	(Continued on next page)

(Contd) This tab	Specifies
System	The machine in the network where you want the Extension for SAP to run the actual translation and the tables which contain the database and database access information used by the extension.

The sections in this chapter describe the contents of each tab in detail.

Buttons At the bottom of the **Gentran:Server for Windows SAP Configuration** dialog box, there is a row of buttons. These buttons are accessible from all of the tabs. This table describes each of these buttons.

Button	Description
ОК	Saves the values you selected on the currently selected tab and exits the dialog box.
Cancel	Exits the dialog box without saving any of the values you selected on the currently selected tab.
Apply	Saves the values you selected on the currently selected tab and keeps the dialog box opened.
Help	Displays the online help for the currently selected tab.

Connection Parameters Tab

Introduction

The **Connection Parameters** tab is used to specify the SAP system that is to receive the data sent from the Extension for SAP.

Typically, there is more than one SAP system with which the Extension for SAP will be interacting. For instance, there is usually a test system, development system, and production system. Therefore, when the Extension for SAP is sending status messages or EDI documents to SAP, it needs to know exactly which SAP system is to receive this data. To provide this information to the Extension for SAP, you must specify values for the group of boxes listed on the **Connection Parameters** tab. The group of values *as a whole* identifies a specific SAP system. Each group of values is written as a database entry using the Connection Name as the identifier.

The settings on this tab are used when you execute the Extension for SAP program SAPINT.EXE with a function that sends status or EDI data to SAP. You indicate the target SAP system by passing the connection name, (that is, the identifier for that set of configuration parameters that you specified in the **Connection Name** box) as a parameter for the SAPINT.EXE program. The Extension for SAP program then invokes a program provided by SAP called **STARTRFC** or **ALECLIENT** and fills in its parameters with the specified group of values from the **Connection Parameters** tab. The STARTRFC (or ALECLIENT) program accomplishes the actual transfer of data.

Reference

See Chapter 3, "Extension Program Functions," for more information on the SAPINT.EXE program and its functions.

Connection Parameters diagram

This is the **Connection Parameters** tab on the **Gentran:Server for Windows SAP Configuration** dialog box.

Gentran:Server for Windows SAP Configuration				
Connection Parameters General System				
		Next		
Program ID -a				
SAP Version	3	Previous		
SAP System ID -d		New		
SAP Username -u		Delete		
SAP User Password 'P		Advanced		
SAP System Client -c		- Transfer Mode		
SAP System Language -I		O ALE		
SAP Application Server -h		RFC		
SAP System ID Number 🔗				
SAP Gateway Server -g				
SAP Service -x		🗖 Load Balance		
SAP EDI Port -E Port=				
Filename				
Connection Name	[Default Inbound]			
	OK Cancel Ap	ply Help		

Connection Parameters tab parts and functions

This table describes the parts of the **Connection Parameters** tab and their functions, and provides examples where applicable.

For this box	Do the following	Example
Program ID (-a)	Displays the program identifier that was passed into ALEServer. Note This parameter is only available if ALE Transfer Mode is selected.	<machine- name>. aleserver</machine-
SAP Version	Type the IDoc version number.	3 or 4
SAP System ID (-d)	Type the system ID of the SAP system. To Locate Use SM51; the second part of the field separated by underscores represents the SAP system ID. Note This box disabled for ALE mode. (Continued on next page)	SSW

(Contd) For this box	Do the following	Example
SAP Username	Type the user ID to access the SAP system.	ED17
(-u)	Note A special CPI-C user is not required.	
SAP User Password	Type the user password to access the SAP system.	STERLING
(-p)	Note The password you type in the SAP User Password box is encrypted before it is committed to the database RFC table.	
SAP System Client	Type the SAP system client as contained in the MANDT field of the EDI_DC or EDI_DC40 control record.	040
(-c)	Note The default is 000 . Note that no default values are prompted for new records.	
SAP System	Type the SAP user language.	Е
Language (-l)	Note The default is E for English. Note that no default values are prompted for new records.	
SAP Application	Type the application server.	hwll38
Server (-h)	To Locate Use SM51; the first part of the field separated by underscores represents the application server.	
	Note This parameter is case-sensitive and is only available if Load Balance is deselected.	
SAP Message Server	Type the name of the message server into which the users will log in.	
(-h)	Note This parameter is case-sensitive and is only available if Load Balance is selected.	
	(Continued on next page)	

(Contd) For this box	Do the following	Example
SAP System ID Number (-s) SAP System Name (-s)	Type the two-digit system identification number. To Locate Use SM51, the third part of the field separated by underscores represents the system ID number. Note This parameter is only available if Load Balance is deselected. Type the name of the SAP system into which the users will log in. Note	95
SAP Gateway Server (-g)	 This parameter is only available if Load Balance is selected. Type the gateway server. To Locate Do the following: Use SE38. Type the report name rsparam. Choose <i>Execute</i>. Choose <i>Execute</i>. Choose <i>System</i> → <i>List</i> → <i>Find String</i>. Type rdisp/sna_g. Position the cursor by double-clicking the first line. Find the gateway server in the line rdisp/sna_gateway. Scroll right. Note	hwll39
SAP Group Name (-g)	This parameter is only available if Load Balance is deselected. Type the name of the group that is logging in to the SAP system. Note This parameter is only available if Load Balance is selected. (Continued on next page)	

(Contd) For this box	Do the following	Example
SAP Service	Type the gateway service as in /etc/services1	sapgw95
(-x)	To Locate Do the following:	
	 Use SE38. Type the report name rsparam. Choose <i>Execute</i>. 	
	 4. Choose System → List → Find String. 5. Type rdisp/sna_g. 6. Position the cursor by double-clicking the first line. 7. Find the gateway server in the line rdisp_gw_service. Scroll right. 	
SAP EDI Port	Type the logical name of the EDI subsystem as stipulated in the port definition.	PORT= STERLING
(-E Port=)	The name can be a maximum of 10 characters.	STEREING
Filename	Type the name of the file that the ALESERVER will write the IDoc which was downloaded or transferred from SAP.	N/A
	Note This parameter is only available if ALE Transfer Mode is selected.	
Connection Name	Type the name you want to use to identify each unique set of Connection Parameters.	Inbound Data
Transfer Mode	Indicates the mode you want to use to transfer data.	ALE or RFC
Load Balance	Select this check box if you want more than one user to be able to log in to the SAP system.	N/A
	Note Enabling this parameter changes the functionality of several boxes on this dialog box.	

Advanced Multi-Port Features dialog box This is the **Advanced Multi-Port Features** dialog box, which is displayed when you click **Advanced** on the **Connection Parameters** tab.

Function Module	Save
SAP SNDPOR	Close
Logical System Name	
Auto Start SAP Server Start	
Set timer for checking the connection	
0 = minute(s) 0 = second(s)	
Remote SAP Host]
Remote Command	
Remote Command	
]

Advanced Multi-Port parts and functions

This table describes the parts listed on the **Advanced Multi-Port Features** dialog box and their functions.

For this box	Do the following
Function Module	Type one of the following values, which indicate the type of data being sent to the SAP system:
	 EDI_STATUS_INCOMING—a file of status messages is being sent for STARTRFC processing
	• EDI_DATA_INCOMING—an EDI document from a Trading Partner is being sent for STARTRFC processing
	 IDOC_INBOUND_ASYNCHRONOUS—used for both status and EDI documents to send to your SAP system for ALE processing
SAP SNDPOR	Type the SAP port that is to receive the status messages from the Extension for SAP. The port identifier is made up of the following:
	• the first part is SAP
	• the second part is the SAP system ID
	(Continued on next page)

(Contd) For this box	Do the following
FOI this DUX	Do the following
Logical System Name	Type a logical system name in the text box if you plan to use ALE to transfer data between your Gentran:Server system (on Windows) and your SAP system (on UNIX).
Trace	Select this check box if you want SAP's STARTRFC program to generate a trace file that shows the parameters it used, the machine it connected to, the data buffers that went back and forth, and whether it terminated successfully. Trace files are normally written to the GENSRVNT\Bin directory.
Auto start	Select this check box if you want the SAP service to start automatically when RPCSRV is started (for ALESERVER).
	Note Only one ALESERVER should be running for any one set of Configuration parameters.
Start	Click this button to initiate the SAP service (for ALESERVER).
Set timer for checking the connection	Select this check box if you want to set the an interval at which the system should poll to ensure the connection is still valid (the SAP system is still running).
minute(s)	Select or type the number of minutes at which the system should poll to determine if the connection is still valid.
second(s)	Select or type the number of seconds at which the system should poll to determine if the connection is still valid.
Remote SAP Host	Select this check box if your SAP system is running on UNIX and you intend to use file-based transfer between Gentran:Server and SAP.
Remote Command	Type the command you want to use to perform a file-based transfer from Gentran:Server to SAP (on UNIX). It is used to transmit IDocs containing status messages. (For example, ftp or rcopy.)
	This box becomes active only when you select the Remote SAP Host check box.
Remote Command	Type the UNIX directory and filename to which you want the transmitted IDoc containing status messages written.
	This box becomes active only when you select the Remote SAP Host check box.
	(Continued on next page)

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(Contd) For this box	Do the following
Delete file after successful transmission	Select this check box if you want the system to delete the file after it is transmitted successfully.
Save	Saves your changes and closes the dialog box.
Close	Exits the dialog box without saving changes.

Procedure Use this procedure to type values on the **Connection Parameters** tab to describe a particular SAP system.

Step	Action
1	Start the Gentran:Server for Windows SAP Configuration program.
	Reference See the "Overview" section of this chapter for more information on starting this program.
2	Select the Connection Parameters tab.
3	Type values in each box.
	Reference See the section "Connection Parameters tab boxes" for information on the appropriate values.
4	Click Advanced.
	System Response The Advanced Multi-Port Features dialog box appears.
5	Type values for the relevant boxes.
	Reference See the section "Advanced Multi-Port Features boxes" for information on the appropriate values.
6	Click Save and then click Close.
	System Response The Advanced Multi-Port Feature dialog box is closed and the Connection Parameters tab is visible again.
7	Click Apply to save the group of values.
	(Continued on next page)

(Contd) Step	Action
8	Do you want to add another group of values for a different SAP system? If yes, click New and repeat Steps 2 - 6. If no, you can either
	 leave the Gentran:Server for Windows SAP Configuration dialog box opened for further use, or close it by clicking OK.

Navigating and Deleting Groups

To navigate through the multiple groups of values you've created, click **Next** and **Previous**.

To delete any group, navigate to it so that it appears on the tab and click **Delete**. The system deletes the group without asking for confirmation.

General Tab

Introduction	The General tab on the Gentran:Server for Windows SAP Configuration dialog box
	enables you to specify where to find the SAP-supplied program STARTRFC and the types
	of status messages you want the Extension for SAP to collect.

General tab diagram This is the **General** tab on the **Gentran:Server for Windows SAP Configuration** dialog box.

🛲 Gentran:Server for Windows SAP Configuration	_ 🗆 X
Connection Parameters General System	
Location of startRFC C:\	
Select the desired level of status reporting.	
Translation status	
Envelope status Communication status	
Acknowledgement status	
Send Failed Statuses ONLY	
OK Cancel Apply	Help

General tab parts and functions

This table describes the parts of the General tab and their functions.

For this box	Do the following
Location of startRFC	Type the directory where the SAP-supplied STARTRFC program resides. You can click the browse button to help you locate it.
	A test version of the startRFC program is copied to the GENSRVNT\bin folder when you installed Gentran:Server for Windows. This version of the program is to used only for testing purposes.
Translation status	Select this check box to return status messages reflecting the progress of the translation of the IDoc into an EDI document.
Envelope status	Select this check box to return status messages reflecting the progress of the enveloping of the EDI document to send to the Trading Partner.
Communication status	Select this check box to return status messages reflecting the progress of the transmission of the EDI document to the Trading Partner.
Acknowledgement status	Select this check box to return status messages indicating whether functional and interchange acknowledgements have been received from the Trading Partner.
UnSelect All	To quickly clear the check boxes in the status reporting area, click UnSelect All . The check boxes are all cleared at once.
Send Failed Status ONLY	Select this check box to return only status messages indicating the failure of any of the processes.





System Tab

Introduction The **System** tab enables you to specify the machine where you want to run the actual translation of IDocs into EDI documents. You can also specify the database that contains the tables that store IDocs data and other information generated and used by the Extension for SAP.

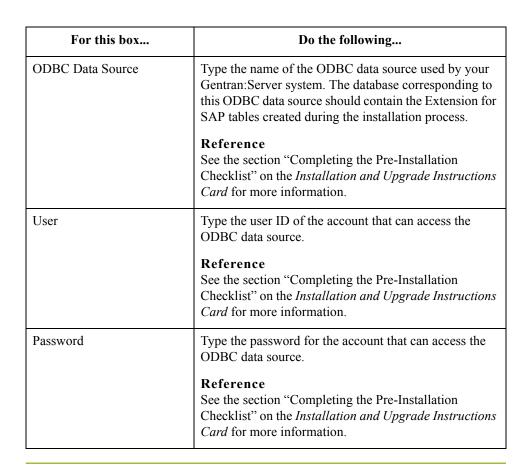
System tab diagram This is the **System** tab on the **Gentran:Server for Windows SAP Configuration** dialog box.

🐷 Gentran:Server for Windows SAP Configuration	_ 🗆 X
Connection Parameters General System	
Machine Name to Run Outbound Translation GENTRANMACHINE	
Select the ODBC Data Source used by the GENTRAN / SAP Interface.	
ODBC Data Source GENTRANDatabase	
Use this account to access the ODBC Data Source	
User MWolfgang Password ***********	
OK Cancel Apply H	elp

System tab parts and functions

This table describes the boxes found on the System tab.

For this box	Do the following
Machine Name to Run Outbound Translation	Type the name of the machine, in the network, that is to run the actual translation of IDocs into EDI documents.
	(Continued on next page)





Extension Program Functions

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Overview

Introduction	The Extension for SAP program SAPINT.EXE can be executed with four different functions that perform various steps in the process of exchanging data between your SAP system and your Gentran:Server system.
	It is through Gentran:Server Process Control sessions that you'll execute this program with one of its functions.
	Reference See Appendix B or C (depending on whether your SAP system is running on Windows or UNIX, respectively) for sample Gentran:Server Process Control sessions that contain the SAPINT.EXE program with each of its functions. These sample sessions show you one way of establishing a seamless exchange of documents between SAP and Gentran:Server.
Troubleshooting connection problems	To troubleshoot connection problems with invoking the Extension Program Functions through the SAPINT.EXE program, view the sapint.log which is written to the GENSRVNT\BIN\SAPINT.LOG file.
Functions grouped by document flow	The functions can be grouped according to the direction of the flow of documents. They are as follows:
	Functions for processing IDocs from SAP to Gentran:Server
	Translate
	▶ Update
	▶ Extract
	Function for processing EDI documents from Gentran:Server to SAPStartRFC

The sections in this chapter describe each function in detail.

Translate Function

Description The Translate function calls the Gentran:Server command that translates the IDoc data into EDI format; it also populates the SAPStatus_tb table in the database with

- the unique IDoc number
- other important information from the IDoc
- status messages reflecting the progress of the translation process.

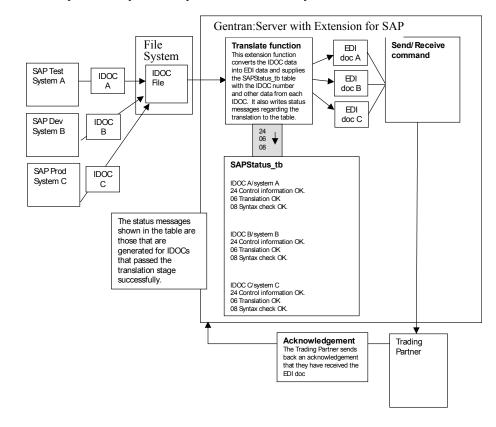
Syntax Use the following syntax when entering the SAPINT.EXE program with the Translate function in a Gentran:Server session:

SAPINT.EXE -TRANSLATE: unc filename

Where

unc_filename is the name of the file to be used by the Translate function. This file contains the IDoc(s) to be imported into Gentran:Server.

Process diagram This diagram depicts the path of IDocs from SAP through Gentran:Server to the Trading Partner. It shows the role the Translate function plays in the process of exchanging data between your SAP system and your Gentran:Server system.



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Update Function

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Description The Update function tracks the progress of the IDoc through the Gentran:Server system, specifically the following stages:

- enveloping of the data
- transmission to the Trading Partner
- acknowledgement from the Trading Partner.

It populates the SAPStatus_tb table with the appropriate status messages to reflect the success or failure of each stage.

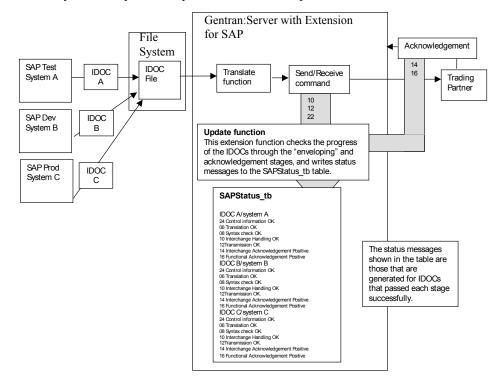
Syntax Use the following syntax when entering the SAPINT.EXE program with the Update function in a Gentran:Server session:

SAPINT.EXE -UPDATE:

Note

There are no parameters for the Update function.

Process diagram This diagram depicts the path of IDocs from SAP through Gentran:Server to the Trading Partner. It shows the role the Update function plays in the process of exchanging data between your SAP system and your Gentran:Server system.



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Extract Function

Description

The Extract function creates a file and writes all the status messages (from the SAPStatus_tb table) associated with each processed IDoc that originated from a particular SAP system (for example, production, test, or development system). To send this file of status messages to the SAP system, the Extract function invokes one of the following:

- SAP STARTRFC program—if the systems are using file-based transfer
- **aleclient** command provided with the Extension for SAP—if the systems are using ALE to transfer data

Syntax Use the following syntax when entering the SAPINT.EXE program with the Extract function in a Gentran:Server session:

SAPINT.EXE -EXTRACT: unc pathname -PATH: connection name

Where

unc_pathname is the fully-qualified path you want to give to the status message file generated by the Extract function.

Note

The file name is generated by Gentran:Server for Windows. For Unix, you must supply the file name.

connection name is used to identify a unique set of RFC parameters to be used by SAP's STARTRFC program. This group of parameters indicates the exact SAP system to receive the status message file. The *connection name* value can be found on the Extension for SAP **SAP Configuration** dialog box in the **Connection Name** box.

Note

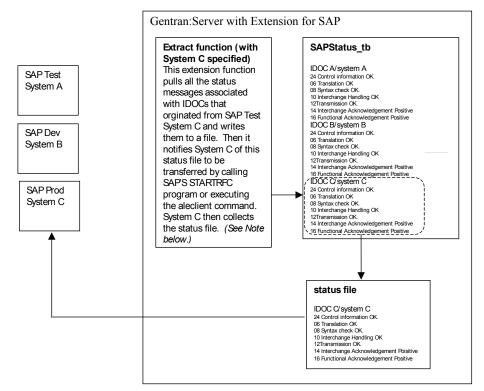
If the name on the RFC Parameters tab is longer than 8 characters, enclose the Connection Name value in quotation marks.

Reference

See the "Configuring the Extension" chapter (the "RFC Parameters Tab" section) for more information about the **Connection Name** box on the **SAP Configuration** dialog box.

Process diagram

This diagram depicts the path of a status message file to the specific SAP system. It shows the role the Extract function plays in the process of exchanging data between your SAP system and your Gentran:Server system.



Note

Two more commands—one with System A specified and one with System B specified—would be needed to repeat the same process for Systems A and B (as illustrated for System C).

- 7

StartRFC Function

Description After an EDI document has been converted to an IDoc, you use the StartRFC function to call SAP's STARTRFC program, which in turn, contacts the SAP system for data transfer to take place. The IDoc is then transferred to the SAP system.

Note

Be sure to understand the distinction between the StartRFC function and SAP's STARTRFC program. The Extension for SAP provides the StartRFC function to enable you to *indirectly* invoke SAP's STARTRFC program. In this way, the Extension for SAP can automate the process of providing parameter values for SAP's STARTRFC program via the StartRFC function's *connection name* parameter or invoke the **aleclient** command provided with the Extension for SAP—if the systems are using ALE to transfer data.

Syntax Use the following syntax when entering the SAPINT.EXE program with the StartRFC function in a Gentran:Server session:

SAPINT.EXE -STARTRFC:unc pathname -PATH:connection name

Where

unc_pathname is the fully-qualified filename of the file that has been converted from an EDI document to an IDoc, and that is to be transmitted to the SAP system.

connection name is used to identify a unique set of RFC parameters to be used by SAP's STARTRFC program. This group of parameters indicates the exact SAP system to receive the IDoc. The *connection name* value can be found on the Extension for SAP **SAP Configuration** dialog box in the **Connection Name** box.

Note

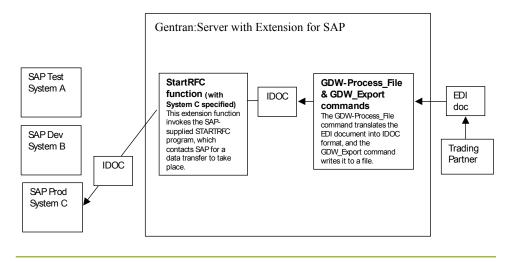
If the name on the RFC Parameters tab is longer than 8 characters, enclose the Connection Name value in quotation marks.

Reference

See the "Configuring the Extension" chapter (the "RFC Parameters Tab" section) for more information about the **Connection Name** box on the **SAP Configuration** dialog box.

Process Diagram

This diagram depicts the path of an EDI document from the Trading Partner through Gentran:Server to the SAP system. It shows the role the StartRFC function plays in the process of exchanging data between your SAP system and your Gentran:Server system.



POSTPROC Function

Description The POSTPROC function of SAPINT.EXE is used to create a new IDoc with a modified header segment based on an IDoc that was exported from within Gentran:Server and before it is sent to SAP via the StartRFC function of SAPINT.EXE.

This function updates the MANDT (client), RCVPRT, SNDPRT, and DOCREL fields of the header segment with information from the Connection Parameters specified in the command.

The POSTPROC function of SAPINT.EXE will not alter the original file that is referenced in the *filename_and_path_to_exported_IDoc* parameter; it creates a new file in the same directory as the original IDoc and names it **sapidoc.new**.

Syntax Use the following syntax when entering the SAPINT.EXE program with the POSTPROC function in a Gentran:Server session:

D:\GENSRVNT\Bin\SAPINT.EXE -

POSTPROC:*filename_and_path_to_exported_IDoc -***PATH:***Connection Name/Scan Directory*

SAPINT.EXE -STARTRFC:unc_pathname -PATH:connection name

Where

filename_and_path_to_exported_IDoc is the fully-qualified filename and path (either a local path or a UNC path) of the exported IDoc that will be modified and is to be transmitted to the SAP system.

Connection Name/Scan Directory is used to identify the Connection Name/Scan Directory of the Connection Parameters to be used to modify the IDoc. This group of parameters indicates the exact SAP system to receive the IDoc. The *connection name* value can be found on the Extension for SAP **SAP Configuration** dialog box in the **Connection Name** box.

Note

If the name on the RFC Parameters tab is longer than 8 characters, enclose the Connection Name value in quotation marks.

Reference

See the "Configuring the Extension" chapter (the "RFC Parameters Tab" section) for more information about the **Connection Name** box on the **SAP Configuration** dialog box.

2 - 10 POSTPROC Function



Configuring and Testing the Sample Maps

Contents

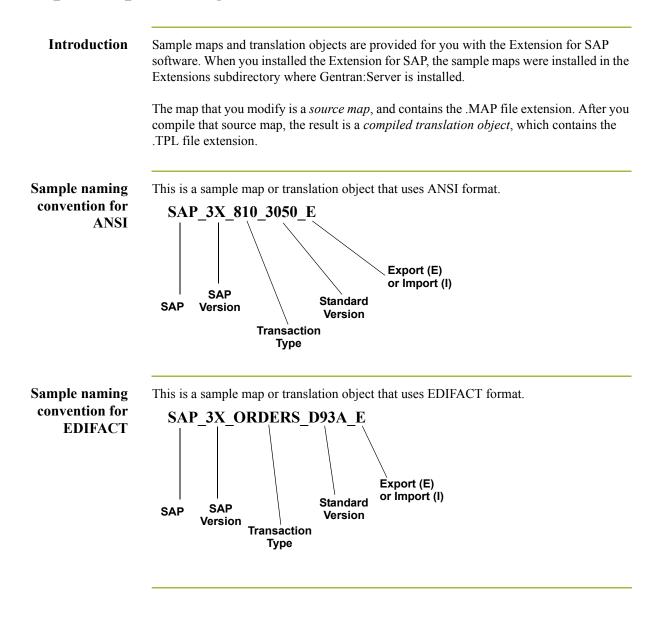
Overview
Sample Map Naming Conventions 3 - 3
Customizing Mapping Instructions
Finalizing the Map 3 - 6



Overview

Introduction	The Gentran:Server Application Integration subsystem enables you to translate your application files to EDI standard formats for documents you send to your partners (outbound mapping), and to translate EDI standard formats to your application format for documents that you receive from your partners (inbound mapping).
	Reference See the <i>Gentran:Server Application Integration User's Guide</i> for more information on using the Application Integration subsystem.
In this chapter	This chapter describes how to locate SAP IDoc numbers with a procedure for all outbound maps. This chapter also provides the steps required to save, compile, and test the completed map.

Sample Map Naming Conventions



Customizing Mapping Instructions

Introduction		ructions must be customized to save the SAP IDoc number in the appropriate and in the Gentran Document Tracking database.	
	Requireme	nte	
	The IDo	c number must be present in the Document_tb so matches can be made with bers stored in the array during preprocessing of outbound data.	
		IDoc number so the Extension for SAP can create status records (EDI_DS) ng the DOCNUM (IDoc number).	
Status record use	SAP uses the status records to provide a status of all outbound IDocs you create. SAP rejects status records that do not contain a DOCNUM.		
IDoc number locationSAP IDoc numbers are contained in the DOCNUM field of the EDI_DC o control record of each IDoc created outbound from SAP.			
		IDoc number in the user-defined Application Field 3 of Document_tb. DOCNUM field in the EDI_DC or EDI_DC40 record of the IDoc.	
How to locate SAP IDoc numbers	Use this proc	edure to instruct the Extension for SAP where to locate SAP IDoc numbers.	
iboc numbers	Step	Action	
	1	Start the Application Integration program.	
	2	Open the translation object you want to use with the Extension for SAP and select the EDI_DC control record.	
	3	Right-click the DOCNUM field in the EDI_DC or EDI_DC40 record and select Properties .	
		System response The system displays the Field Properties dialog box.	
		(Continued on next page)	

3 - 5

(Contd) Step	Action
4	Select the Standard Rule tab and then select the Update option.
	Field Properties X Name Validation Position Extended Rule Standard Rule Conditions Please select the standard rule to use : Update Image: Condition in the second
	OK Cancel Help
5	Select Document record from the table (or group) to update list.
6	Select Application Field 3 from the column (or field) to update list, and click OK . Field Properties X Name Validation Position Extended Rule Standard Rule Conditions Please select the standard rule to use : Update Y Please select the table (or group) to update : Document record Y Please select the column (or field) to update : Y Application Field 3 Y
l	OK Cancel Help
	Restriction Do not map anything to Application Fields 4 and 5. They are reserved for use by the SAPINT program.

e

Finalizing the Map

Introduction After you customize your map and define your IDoc number, you need to finalize the map. To complete the mapping process, you need to compile the map, register the translation object, and test the translation object.

When you save and recompile the Extension for SAP maps provided in the SAPMaps subdirectory, you will overlay the original maps and compiled translation objects with the newly-customized ones. You may choose to store your customized maps and compiled translation objects or to simply replace the original files.

How to compile the map

The Compile function compiles the map and generates a translation object. After you save the translation object, you must register it with Gentran:Server before using it.

Step	Action
1	Start the Application Integration program.
2	Select Save from the File menu to save the source map, prior to using the Compile function.
3	Select Compile from the File menu to display the Run-Time Translation Object Name dialog box.
	Note The File name field already contains the translation object name with the .TPL file extension. Preserving the same file name (with different file extensions) means that the relationship between the source map and the compiled translation object remains evident.
	CAUTION
	DO NOT OVERLAY THE SOURCE MAP WITH THE COMPILED TRANSLATION OBJECT. USE THE .TPL FILE EXTENSION TO DISTINGUISH THE TRANSLATION OBJECT FROM THE SOURCE MAP.
4	Change the Drive and Folder where the compiled translation object is stored, if necessary.
	CAUTION
	DO NOT STORE THE COMPILED TRANSLATION OBJECT IN THE GENSRVNT\REGTRANSOBJ SUBDIRECTORY. THIS SUBDIRECTORY IS RESERVED FOR STORING A COPY OF EACH TRANSLATION OBJECT YOU REGISTER WITH GENTRAN:SERVER.
	(Continued on next page)

Use this procedure to compile a map and generate a translation object.



(Contd) Step	Action
5	Click Save and the system compiles the map and generates a translation object.
	System Response The Compile Error dialog is displayed.
6	Verify that no errors occurred and click OK to exit the dialog box. System Response The date on which the translation object was compiled is automatically loaded into the Compiled on field on the Translation Object Details dialog box.
7	Select Save from the File menu to save the source map with the compiled on date. Note You must register this translation object with the Gentran:Server system before you can use it. Reference See the <i>Gentran:Server User's Guide</i> for information on registering a translation object.

How to test the system import and import translation objects

Use this procedure to test the system import and import translation objects, which are provided with the system. These translation objects must be functioning before you can test your translation object from the previous procedure.

Step	Action
1	Register the translation objects with Gentran:Server.
	Reference See the <i>Gentran:Server User's Guide</i> for more information on registerin a translation object.
2	If you have not already done so, import the SAP partner relationship (.PAR file) into Gentran:Server.
	Reference See the <i>Gentran:Server User's Guide</i> for more information on importing partner.
	(Continued on next page)

(Contd) Step	Action
3	Verify (in Partner Editor) that the import translation object is selected for the outbound relationship.
	Reference See the <i>Gentran:Server User's Guide</i> for more information on selecting outbound translation objects.
4	Ask your system administrator to add the system import translation object to the System Configuration program.
	Reference See the <i>Gentran:Server Administration Guide</i> for more information about how your system administrator must modify the system configuration program.
5	Use the Import option in Gentran:Server to process the data file (.TXT file) through the translation object.
	Reference See the <i>Gentran:Server User's Guide</i> for more information on importing files.
6	After the document is translated, it is located in the Workspace in Gentran:Server. View the EDI data to ensure that the document was translated correctly.
	Reference See the <i>Gentran:Server User's Guide</i> for more information on viewing raw EDI data.

Note

See Appendix B and Appendix C of this guide for further system testing recommendations.

How to test the translation object

9

After compiling the map and registering the translation object with Gentran:Server, you should test the translation object. For this test, you may use test data from your Extensions directory. The data files referred to in the following steps (SAPMAPS40) are located in the SAPMaps subdirectory where Gentran:Server is installed.

(Continued on next page)

How to test the translation object (contd)

Use this procedure to test the inbound (export) translation object you just created.

Step	Action
1	Register the translation object with Gentran:Server.
	Reference See the <i>Gentran:Server User's Guide</i> for more information on registering a translation object.
2	If you have not already done so, import the SAP partner relationship (.PAR file) into Gentran:Server.
	Reference See the <i>Gentran:Server User's Guide</i> for more information on importing a partner.
3	Verify (in Partner Editor) that the export translation object is selected for the inbound relationship.
	Reference See the <i>Gentran:Server User's Guide</i> for more information on selecting inbound translation objects.
4	Use the Process File option in Gentran:Server to process the data file (EDI file) through the translation object. The data file is located in the SAPMAPS40 subdirectory under the directory where Gentran:Server is installed.
5	After the document is translated, it is located in the In Documents in Gentran:Server. Export the document to ensure that it was translated correctly.
	Reference See the <i>Gentran:Server User's Guide</i> for more information on exporting files.

- 10 Finalizing the Map



Using ALE to Transfer Documents

Contents

•	Overview	4 -	- 2
•	Processing in ALE Mode	4 -	- 3



Overview

Introduction This chapter is for those running SAP on Windows and UNIX and using ALE to transfer documents from SAP to Gentran:Server and vice versa.

- 3

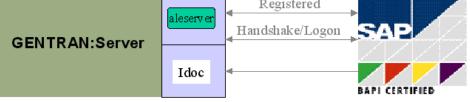
Processing in ALE Mode

Introduction		Linking and Enabling (ALE)-based IDoc transfer enables SAP to transfer Extension for SAP program aleserver through your Application Program PI).
	Note ALE is an alt	ernative to remote copy (rcp) and NFS/FTP with STARTRFC.
Before you begin	You must set	up the following information before you begin processing in ALE mode:
	SAP Por	t Definition—set in SAP Port Setup
	▶ RFC Des	stination—set in the SAP Partner Profile
	Method Screen S	used (Transactional RFC)—set in the Partner Profile; designated by T on M59.
		where the Transaction ID tables are placed during processing. Follow the the next page to set this environment variable.
		P documentation for details about setting up the Port Definition, RFC and Transactional RFC information.
Transaction ID table environment variable	Transaction I	egin processing in ALE mode you must specify the location where the D tables are placed during processing. Use this procedure to set the D environment variable.
	Step	Action

Step	Action
1	From the Windows Control Panel, select the System icon.
	System Response The System Properties dialog box is displayed.
2	Select the Environment Property tab.
3	Add the environment variable TRFC_WORK_DIR and enter the path name where this directory is located.
	Note This step assumes that the directory has already been created.

ALE outbound processing diagram





Processing in ALE from Register mode

Use this procedure to perform processing in an ALE environment using Register mode.

Step	Action
1	Start Screen SM59 [*] from your SAP system.
	PREC Destination SIERTEST Destination System information I est System Hglp Image: System Hgl
	Note This is also called the SAP RFC Destination screen. (Continued on next page)

n	
•	

(Contd) Step	Action			
2	Set up Gateway options for:			
	HostService.			
	Note A destination in transaction SM59 can be defined as follows:			
	Connection type:TActivate type:RegisteringProgram-ID:hssfds05.aleserverGateway host:hssfds05Gateway service:sapgw00			
3	Enter the program ID as on the Windows Run command line.			
	The program_ID parameter syntax is <i><machine_name></machine_name></i> .aleserver where the <i>machine_name</i> is the name of the machine on which Gentran:Server is installed. This parameter is case-sensitive.			
	Command Format aleserver -a <program_id> -g <sap_gateway> -x <sap_gateway_service> file=<file_name></file_name></sap_gateway_service></sap_gateway></program_id>			
	<i>where file_name</i> is the output filename (usually a file in a folder on the Gentran:Server system).			
	Command Example aleserver -ahssfds05.aleserver -ghssfds05 -xsapgw00 file=\\GENSRVNT\from_sap\sapout.idoc			
4	Select the Registration button from Screen SM59 to begin processing o the machine where Gentran:Server Extension for SAP resides.	n		
	System Response You see the IP name (Program ID): hssfds05.aleserver			
	(Continued on next page)		

(Contd) Step	Action
5	Select Test* connection.
	R F C - Connection Test
	List Edit Goto System Help
	Image: A state of the state
	Connection test SERVER_EXEC Connection type: TCP/IP connection
	Logon: 2,800 msec
	Ø KB: 22 msec
	10 KB: 30 msec
	20 KB: 112 msec
	30 KB: 42 msec
	Warning:
	In HP multi-processor machines, the specified time values may be incorrect
	System Response
	You see a screen with connection information. If unsuccessful, you receive an <i>unable to connect</i> error message.

*Copyright 1997 by SAP AG. All Rights Reserved.

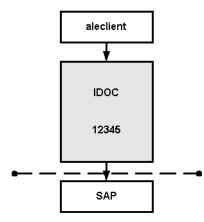
ALE status messaging for 3.1G and above	ALE handles status messages differently from the standard IDoc interface. Instead of an EDI_DS status record (or EDI_DS40 for version 4.0), ALE uses IDoc type SYSTAT01. This IDoc type consists of control and data records, with the segment as the status record. To enable status messaging, you must set up your system to use ALE processing.		
	See your SAP documentation for instructions on using this IDoc type. You will need a partner profile to process code STA1. The port type is FILE.		
aleserver command format	This is the syntax for the aleserver command. aleserver -a < <i>program_ID</i> > - g < <i>SAP_gateway</i> > - x < <i>SAP_gateway_service</i> > file= <file_name></file_name>		

I

aleserver parameters This table describes the parameters defined for the aleserver command. The aleserver command uses STARTRFC parameters to make the connection to the SAP system and to receive IDocs from SAP.

Utility Parameter	Flag	Parameter (example)	Description	Your Value
program ID	-a	gentranhost.al eserver	Identifies the program ID to SAP.	
sap_gateway	-g	hwll39	Identifies the gateway server. Steps to Locate 1. Use SE38. 2. Enter the report name rsparam. 3. Choose Execute. 4. Choose System → List → Find String. 5. Enter rdisp/sna_g. 6. Position the cursor by double- clicking the first line. 7. Find the gateway server in the line rdisp/sna_gateway. Scroll right.	
sap_gateway_ service	-x	sapgw95	Identifies gateway service as in /etc./ services1. Steps to Locate 1. Use SE38. 2. Enter the report name rsparam. 3. Choose Execute. 4. Choose System → List → Find String. 5. Enter rdisp/sna_g. 6. Position the cursor by double- clicking the first line. 7. Find the gateway server in the line rdisp_gw_service. Scroll right.	
trace (optional)	-t	N/A	Creates a <i>dev_rfc</i> file that contains RFC errors.	
file			A fully qualified UNC output filename.	

aleclient command	The aleclient command is used to process inbound information.
	Note Inbound means data is sent to SAP from Gentran.
aleclient diagram	This diagram illustrates inbound processing using the aleclient program.



Workflow Input

aleclientThis table describes the parameters defined for the aleclient command. The aleclientparametersprograms use STARTRFC parameters to make the connection to the SAP system and to
send IDocs to SAP.

Utility Parameter	Flag	Parameter (example)	Description	Your Value
client	-с	040	Identifies the SAP system client contained in the MANDT field of the EDI_DC or EDI_DC40 control record. Default 000	
host	-h	hwll38	Identifies the application server; the first part of the field separated by underscores represents the application server. Recommendation Use SM51.	
userid	-u	random-j	Identifies the SAP system user ID. (Continued on next page)	

(Contd) Utility Parameter	Flag	Parameter (example)	Description	Your Value
userpw	-р	sapuser	Identifies the user ID password.	
sap_gateway	-g	hwll39	Identifies the gateway server. Steps to Locate 1. Use SE38. 2. Enter the report name rsparam. 3. Choose Execute. 4. Choose System → List → Find String. 5. Enter rdisp/sna_g. 6. Position the cursor by double- clicking the first line. 7. Find the gateway server in the line	
trace (optional)	-t	N/A	<i>rdisp/sna_gateway</i> . Scroll right. Creates a <i>dev_rfc</i> file that contains RFC errors.	
sap_gateway_ service	-x	sapgw95	Identifies gateway service as in /etc./ services1.	

Steps to Locate

3. Choose Execute.

5. Enter *rdisp/sna_g*.

clicking the first line.

2. Enter the report name **rsparam**.

4. Choose System \longrightarrow List \longrightarrow

6. Position the cursor by double-

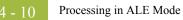
7. Find the gateway server in the line rdisp gw service. Scroll right.

1. Use SE38.

Find String.

Shared RFC
library

A shared RFC library (DLL)-librfc32.dll-is provided with the SAP Graphical User Interface and is used only with the STARTRFC program.





Supported SAP Status Codes

Contents

	Overview
▶	Status Codes



Overview

Introduction This chapter describes the SAP status codes used by the Extension for SAP during outbound processing of IDocs created by SAP.

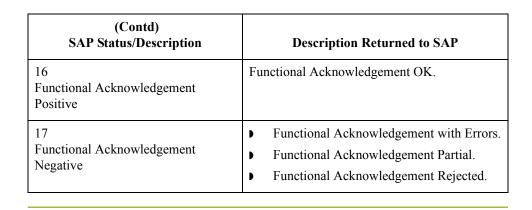


Status Codes

Status code table

This table describes the SAP status codes used by the Extension for SAP during outbound processing of IDocs. The Extension for SAP creates one or more of the statuses listed below for each IDoc.

SAP Status/Description	Description Returned to SAP
04 Error within control information	Trading partner not found
24 Control information OK	Trading partner found and translator started
05 Translation Error	No EDI data created. Missing or inaccessible tpcode or map.
06 Translation OK	Translation OK. EDI data created.
07 Syntax Error	Error message from translator if available.
Syntax Error	Syntax errors. No EDI data created (default text).
08 Syntax check OK	Compliance check OK
10 Interchange Handling OK	Interchange Handling OK
12 Transmission OK Acknowledgement Due	Transmission OK.
22 Transmission OK Acknowledgement Due	Transmission OK — Acknowledgement Due.
14 Interchange Acknowledgement Positive	Interchange Acknowledgement OK.
15 Interchange Acknowledgement	 Interchange Acknowledgement with Errors.
Negative	Interchange Acknowledgement Partial.
	 Interchange Acknowledgement Rejected. (Continued on next page)





Setup Recommendations for SAP System on Windows

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	Sample Extract Processing Setup	B - 7
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Overview

Introduction	This appendix contains setup examples and explains processing in inbound, outbound, and update/extract modes for users using the Extension for SAP on Windows.	
	Reference See Appendix C, "Setup Recommendations for SAP System on a Unix Host," if you are using SAP on a UNIX host.	
Sample sessions	The sample sessions installed with the Extension for SAP and described in this appendix need to be copied to the unattended folder before they can be seen in the Process Control dialog box.	
	Reference See "Using Process Control" in the <i>Gentran:Server User's Guide</i> for more information on using Process Control.	

Sample Inbound Processing Setup

Starting an inbound session

From the Gentran:Server Process Control dialog box, select the Sessions tab and then SAP Inbound to setup an inbound session.

Active Events Events		•			New
SAP InbdProc SAP Inbound SAP Outbound SAP OutboundOld	Command File_Rename GDW_Process_File GDW_Export Exec_Program File_Delete Exec_Program	Parm1 c:\gensrvnt\sapin\sapint.sap c:\gensrvnt\sapin\sapint.dat c:\gensrvnt\sapin\sapint.sap c:\gensrvnt\idocs\sapint.cxe c:\gensrvnt\bin\sapint.exe -POSTF c:\gensrvnt\bin\sapint.exe -START c:\gensrvnt\bin\sapint.exe -START	RFC:\\NTSer		Save As Delete
		Edit Delete U		Cancel	Help

Inbound process

This table describes the Extension for SAP inbound processing.

table

Stage	Description
1	Deletes the backup file from the processing of the previous inbound event (file extension .BAK).
2	Creates the new backup file by renaming the last file processed from .SAP to .BAK.
3	Renames the incoming file from .DAT to .SAP. Note This renaming must occur because processing is set up so that it is triggered by the .DAT extension; the name change keeps the extension from processing the same file twice.
4	Places the incoming file in the IN Box to be picked up for translation by using the GDW_Process_File command.
5	Performs the export function; it picks up the file in the IN Box and translates it into an IDoc file (.INB file extension) by using the GDW_Export command. (Continued on next page)

(Contd) Stage	Description
6	(Optional) Performs the Postprocessing function, updating the inbound IDoc with the MANDT, and SNDPOR fields, if you choose not to map these fields. These fields are needed for multi-port processing.
	Note This step is required for multi-port processing, but is otherwise optional.
7	(Optional) Executes the sapsplit.exe program. This program splits an inbound IDoc (post-translation) for proper routing in a multiple SAP instance environment. You can choose to route based on the following SAP EDI_DC fields and combinations:
	▶ sndprn
	• rcvprn
	▶ sndprt
	▶ scvprt
	▶ sndpor
	• revpor
	▶ doctyp
	▶ mandt
	• rcvprt, rcvprn
	 sndprt, sndprt
	▶ mandt, sndpor
	▶ mandt, revpor
8	Invokes the extension (SAPINT.EXE) to perform STARTRFC and sends the IDoc file to SAP. STARTRFC deletes the .INB file.
	Reference See Appendix C of the <i>Gentran:Server for Windows Administration</i> <i>Guide</i> for more information about process control session setup.

I

Sample Outbound Processing Setup

Starting an outbound session From the Gentran:Server Process Control dialog box, select the Session tab and then SAP Outbound to setup an outbound session.

🎉 Gentran:Server Pro	cess Control				_ 🗆 X
Active Events Events	Calendars Session:	5			
COM00018	Session: Remote SAF	° Outbound			New
Dublin Inbound Dublin Outbound	Command	Parm1		Parm2	Save
INBINterform INBOUND mary	File_Delete File_Rename File_Rename	c:\gensrvnt\idocs\sapidoc.b c:\gensrvnt\idocs\Sapidoc.s c:\gensrvnt\idocs\Sapidoc.c	ap Jat	c:\gensrvnt\ c:\gensrvnt\	Save As
mary2 marysend	Exec_Program GDW_Send_Rec	c:\gensrvnt\bin\sapint.exe -t SAPCopyProfile	ranslate:\\DC	c:\gensrvnt\	Delete
mzcopy NHS Import Remote SAP Inb	***End Script***				
Remote SAP Oul Remote SAP Up	•			Þ	
SAP Extract SAP Inbound SAP Outbound	Ins	Edit Delete	Up	Down	
SAP StartRFC					
			OK	Cancel	Help

Outbound process

for SAD outbound sing. This table de a tha Erita .: **h**

table

h1	s table	describes	the I	Extension	for S	SAP	outbound	processing

Stage	Description
1	Deletes the backup file from the processing of the previous outbound event (file extension .BAK).
2	Creates the new backup file by renaming the last file processed from .SAP to .BAK.
3	Renames the outgoing file from .DAT to .SAP. Note This renaming must occur because processing is set up so that it is triggered by the .SAP extension; the name change keeps the extension from processing the same file twice.
4	Invokes the extension (SAPINT.EXE) to translate the outbound IDoc file (.SAP file extension) to EDI.
5	Packages and transmits outbound EDI interchanges by using the GDW_Send_Receive command.

B - 6

Sample Update Processing Setup

Introduction	In Update mode, the Extension for SAP adds new status information and sends it to SAP.
How processing is set up	Update processing is set up to occur on the hour every hour from 7 a.m. to 5 p.m., Monday through Friday.
Starting an update/	From the Gentran:Server Process Control dialog box, select the Sessions tab and then

ting an update/From the Gentran:Server Process Control dialog box, select the Sessions tab and thenextract sessionSAP Update to set up an update session.

🎉 Gentran:Server Pro	cess Control			_ 🗆 🗵
Active Events Events	Calendars Sessions]		
COM00018 COM00020 Dublin Inbound Dublin Outbound INBInterform mary mary2	Session: SAP Update Command Exec_Program ****End Script****	Extract Parm1 c:\gswin\bin\sapint.exe-update	Parm2 c:\gswin\bin	New Save Save As
marysend NHS Import SAP Extract SAP Inbound SAP Outbound SAP StartRFC	•		Þ	Delete
SAP Translate SAP Update SAP Update SRV00001 Test0utbound	Ins	Edit Delete Up	Down	
		0	K Cancel	Help

Update process

6

This table describes the Extension for SAP update processing.

table

Stage	Description
1	Invokes SAPINT.EXE to update the SAP Status database table by using the Exec_Program command.
2	Invokes SAPINT.EXE to extract all statuses in the database table and sends them to SAP by using the Exec_Program command.

Sample Extract Processing Setup

Introduction	In Extract mode, the Extension for SAP adds new status information and sends it to SAP.
How processing is set up	Extract processing is set up to occur on the hour every hour from 7 a.m. to 5 p.m., Monday through Friday.
· · ·	

Starting an extract
sessionFrom the Gentran:Server Process Control dialog box, select the Sessions tab and then
SAP Extract to set up an extract session.

🐹 Gentran:Server Process Control				
Active Events Events	Calendars Sessions			
СОМ00020 🚽	Session: SAP Update	Extract		New
Dublin Inbound	Command	Parm1	Parm2	Save
Dublin Outbound INBInterform mary marysend NHS Import SAP Extract SAP Inbound SAP Outbound	Exec_Program ***End Script***	c:\gswin\bin\sapint.exe -extract	c:\gswin\bin	Save As Delete
SAP StartRFC SAP Translate	•		<u> </u>	
SAP Hariside SAP Update SAP Extract SRV00001 TestOutbound	Ins	Edit Delete Up	Down	
			K Cancel	Help

Extract process

This table describes the Extension for SAP extract processing.

table

Stage	Description		
1	Invokes SAPINT.EXE to update the SAP Status database table by using the Exec_Program command.		
2	Invokes SAPINT.EXE to extract all statuses in the database table and sends them to SAP by using the Exec_Program command.		



Describing Gentran:Server Process Control

Introduction	Select the Events tab events.	on the Gentran:S	erver Process Control dialog	box to see a list of
	The Description list c	contains these even	t types:	
	▶ Inbound			
	 Outbound 			
	▶ Update			
	Extract.			
	Reference See "Appendix C" of information about eve		er for Windows Administration	<i>Guide</i> for more
	Note You must set up these	e events if you wan	t to use them.	
How processing is set up	Inbound and outboun processing.	d processing is set	up to occur any time a file is p	resent for
	Update/extract proces Monday through Frid	• •	ecur on the hour every hour fro	m 7 a.m. to 5 p.m.,
Events tab sample	This illustration show dialog box.	vs a sample Events	tab on the Gentran:Server P	rocess Control
11 G	ientran:Server Process Con	trol		
	tive Events Events Calendars			
	Description	Time	Parameter	New
	SAP Inbound	Polled	File Exists (True)	
	SAP Outbound SAP Update & Extract	Polled 07:00->17:00@60	File Exists (True) -MTWTF-	Edit
	·			Delete
				Suspend
				Execute
	(Π	▶]
-	ontroller: <all controllers=""></all>	Sort: Description	Auto Refresh 20 Secon	
			Cano	cel Help



Setup Recommendations for SAP System on a UNIX Host

Contents

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	Sample Update Processing Setup	C - 6
	Sample Extract Processing Setup	C - 8
	Gentran:Server Process Control	C - 11



Overview

Introduction	This appendix contains setup examples and explains processing in inbound, outbound, and update/extract modes for users using the Extension for SAP on a UNIX host.			
	Reference See Appendix B, "Setup Recommendations for SAP System for Windows" if you are using SAP on Windows.			
Sample sessions	The sample sessions installed with the Extension for SAP and described in this appendix need to be copied to the unattended folder before they can be seen in the Process Control dialog box.			
	Reference See "Using Process Control" in the <i>Gentran:Server User's Guide</i> for more information on using Process Control.			

Sample Inbound Processing Setup

Starting an inbound session From the Gentran:Server Process Control dialog box, select the Sessions tab and then SAP Inbound to setup an inbound session.

Ł	🐹 Gentran:Server Process Control 📃 🗆 🗙					
	Active Events Events	Calendars Sessions	۹ 			
	SAP Extract SAP InbdProc	Session: SAP InbdPro	00			New
	SAP Inbound SAP Outbound	Command	Parm1		P.▲	Save
	SAP OutboundOld	File_Rename File_Rename GDW_Process_File	c:\gensrvnt\sapin\sapint.sap c:\gensrvnt\sapin\sapint.dat c:\gensrvnt\sapin\sapint.sap		с: с:	Save As
		GDW_Export Exec_Program File_Delete Exec_Program	c:\gensrvnt\idocs\sapidoc.in c:\gensrvnt\bin\sapint.exe -F c:\gensrvnt\sapin\sapint.inb c:\gensrvnt\bin\sapint.exe -S	POSTPROC:"c:\gen	с: с:	Delete
		End Script***			Þ	
		Ins	Edit Delete	Up Dov	Wh	
				ОК	Cancel	Help

Inbound process

This table describes the Extension for SAP inbound processing.

table

Stage	Description	
1	Deletes the backup file from the processing of the previous inbound event (file extension .BAK).	
2	Creates the new backup file by renaming the last file processed from .SAP to .BAK.	
3	Places the incoming file in the IN box to be picked up for translation by using the GDW_Process_File command.	
4	Performs the export function; it picks up the file in the IN box and translates it into an IDoc file (.INB file extension) by using the GDW_Export command.	
	(Continued on next page)	

(Contd) Stage	Description
5	(Optional) Executes the sapsplit.exe program. This program splits an inbound IDoc (post-translation) for proper routing in a multiple SAP instance environment. You can choose to route based on the following SAP EDI_DC fields and combinations:
	▶ sndprn
	• rcvprn
	▶ sndprt
	▶ scvprt
	▶ sndpor
	• revpor
	▶ doctyp
	▶ mandt
	• rcvprt, rcvprn
	 sndprt, sndprt
	▶ mandt, sndpor
	• mandt, revpor
6	FTP sends the .INB file to the SAP remote host.
	Example Script File
	open <unix machine=""></unix>
	user <user id=""> <password></password></user>
	cd /SAP/IDocS send C:\GENSRVNT\IDocS\SAPIDoc.INB
	close
	quit
7	Invokes the Extension for SAP (SAPINT.EXE) to perform STARTRFC and sends the IDoc file to SAP. STARTRFC deletes the .INB file.
	Reference See Appendix C of the <i>Gentran:Server for Windows Administration</i> <i>Guide</i> for more information about process control session setup.

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Sample Outbound Processing Setup

Starting an outbound session From the Gentran:Server Process Control dialog box, select the Sessions tab and then SAP Outbound to setup an outbound session.

🐹 Gentran:Server Process Control 📃 🗖 🗙					
Active Events Events	Calendars Session:	s			
COM00018 COM00020 Dublin Inbound	Session: Remote SAF	P Outbound		Parm2	New Save
Dublin Outbound INBInterform INBOUND mary mary2 marysend mzcopy NHS Import	File_Delete File_Rename File_Rename Exec_Program GDW_Send_Rec End Script	c:\gensrvnt\idocs\sapidoc.bak c:\gensrvnt\idocs\Sapidoc.sap c:\gensrvnt\ c:\gensrvnt\idocs\Sapidoc.dat c:\gensrvnt\ c:\gensrvnt\bin\sapint.exe -translate:\\DC c:\gensrvnt\		Save As Delete	
Remote SAP Inb Remote SAP Out Remote SAP Up SAP Extract SAP Inbound SAP Outbound SAP StartRFC	Ins	Edit Delete	Up	Down	
			OK	Cancel	Help

Outbound process table

This table describes the system's outbound processing.

Stage	Description
1	Deletes the backup file from processing of the previous outbound event (.BAK file extension).
2	Creates the new backup file by renaming the last file processed from .SAP to .BAK.
3	Renames the outgoing file from .DAT to .SAP. Note This renaming must occur because processing is set up so that it is triggered by the .SAP extension; the name change keeps the Extension for SAP from processing the same file twice.
4	Invokes the Extension for SAP (SAPINT.EXE) to translate the outbound IDoc file (.SAP file extension) to EDI.
5	Packages and transmits outbound EDI interchanges by using the GDW_Send_Receive command.



Sample Update Processing Setup

Introduction	In Update mode, the Extension for SAP adds new status information and sends it to SAP.
How processing is set up	Update processing is set up to occur on the hour every hour from 7 a.m. to 5 p.m., Monday through Friday.

Starting an update
sessionFrom the Gentran:Server Process Control dialog box, select the Sessions tab and then
Remote SAP Update to set up an update session.

🔣 Gentran:Server Pro	cess Control			
Active Events Events	Calendars Session	18		
COM00018 COM00020	Session: Remote SA	P Update		New
COM00020 Dublin Inbound Dublin Outbound INBINterform INBOUND mary mary2 mary2end mzcopy NHS Import Remote SAP Inb	Command Exec Program	Parm1 Parm2 c:\gensrvnt\bin\sapint.exe -update c:\gensrvn		Save Save As Delete
Remote SAP Out Remote SAP Up SAP Extract SAP Inbound SAP Outbound SAP StartRFC		Edit Delete Up	Down	
			DK Cancel	Help



Update process

This table describes the Extension for SAP update processing.

table

Stage	Description
1	Invokes SAPINT.EXE to update the SAP Status database table by using the Exec_Program command.
2	Example FTP script open <unix_machine> user <user_id> <password> cd /SAP/STATUS send C:\GENSRVNT\SAPSTAT\SAPSTAT.DAT close quit</password></user_id></unix_machine>
	Note The second Remote Command field contains the remote path and filename to be used in the STARTRFC command. Caution Remote Host configuration is not required when using ALE. You would configure a Remote Host only when using STARTRFC.
3	Deletes the status flat file when processing is complete.



Sample Extract Processing Setup

Introduction	In Extract mode, the Extension for SAP adds new status information and sends it to SAP.
How processing is set up	Extract processing is set up to occur on the hour every hour from 7 a.m. to 5 p.m., Monday through Friday.

Starting an extract
sessionFrom the Gentran:Server Process Control dialog box, select the Sessions tab and then
Remote SAP Update & Extract to set up an extract session.

🐹 Gentran:Server Pro	cess Control			
Active Events Events	Calendars Session	s		
COM00018	Session: Remote SA	P Extract		New
Dublin Inbound Dublin Outbound	Command	Parm1	Parm2	Save
INBInterform INBOUND	File_Delete Exec_Program ****End Script****	c:\gensrvnt\sapstat\sapstat.dat c:\gensrvnt\bin\sapint.exe -extrac	ct:\\DC c:\gensrvnt\	Save As
mary mary2 marysend	Endiscript			Delete
mzcopy NHS Import				
Remote SAP Inb Remote SAP Out	•		F	
Remote SAP Ex SAP Extract SAP Inbound	Ins	Edit Delete	Up Down	
SAP Outbound SAP StartRFC				
			OK Cancel	Help

Extract process table

This table describes the Extension for SAP extract processing.

Stage	Description		
1	Deletes the previous status file.		
2	Invokes SAPINT.EXE to extract all statuses in the database table and sends them to SAP by using the Exec_Program command.		
	Notes		
	• When you designate the criteria for the Execute Program and Working Directory for the Exec_Program command, specify a local drive path instead of a UNC file path.		
	 The Extract function needs additional configuration information to perform this task for a remote SAP host. The needed information is contained on the System tab of the SAP Configuration dialog box. The STARTRFC program deletes the status flat file when processing is complete. 		
	References		
	• See "Using Process Control" in the <i>User's Guide</i> for more information on using the Exec_Program command.		
	• See <i>Extract Function</i> on page 2 - 5 more information about processing in Extract mode.		
3	Executes the STARTRFC automatically by using the Extract function of SAPINT.EXE. The extract function needs additional configuration information to perform this task for a remote SAP host. The needed information is contained on the Advanced Multi-Port Features dialog box accessed through the RFC Parameters tab on the SAP Configuration dialog box.		
	User Action Select the Remote SAP Host check box and type the name of an FTP to send the Windows file to the SAP host in the first Remote Command field.		
	(Continued on next page)		

(Contd) Stage	Description
4	Example FTP script open <unix machine=""></unix>
	<pre>user <user_id> <password> cd /SAP/STATUS send C:\GENSRVNT\SAPSTAT\SAPSTAT.DAT close quit</password></user_id></pre>
	Note The second Remote Command field contains the remote path and filename to be used in the STARTRFC command.
	Caution Remote Host configuration is not required when using ALE. You would configure a Remote Host only when using STARTRFC.
5	Deletes the status flat file when processing is complete.

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Gentran:Server Process Control

Introduction	Select the Events tab on the Gentran:Server Process Control dialog box to see a list of events.			
	The Description list of	contains these even	it types:	
	Inbound			
	Outbound			
	Update			
	 Extract 			
	Reference See Appendix C of the <i>Gentran:Server for Windows Administration Guide</i> for further information on events.			
	Note You must set up these	e events if you war	nt to use them.	
How processing is set up	Inbound and outbour processing.	d processing is set	up to occur any time a file is p	resent for
	Update/extract proce Monday through Fric		ccur on the hour every hour from	m 7 a.m. to 5 p.m.,
Events tab sample	This illustration show dialog box.	vs a sample Events	s tab on the Gentran:Server Pi	rocess Control
1 G	entran:Server Process Con	trol		_ 🗆 ×
	ive Events Events Calendars			
	Description	Time	Parameter	New
	SAP Inbound	Polled	File Exists (True)	
	SAP Outbound SAP Update & Extract	Polled 07:00->17:00@60	File Exists (True) -MTWTF-	Edit
				Delete
				Suspend
				Execute
			D	·]
C	ontroller: <all controllers=""></all>	Sort: Description	▼ Auto Refresh 20 Secon	ds Refresh
			Canc	el Help



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Multi-Port Processing

•	Overview		D-2
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Overview

Introduction	The Extension for SAP is multi-port enabled via the RFC table.	
Before you begin	 The following are required for using multi-port processing: Set up SAP with unique port numbers. Ensure that your connection name is unique for each client/port. Outbound status messaging requires the use of Extract mode with the PORT attribute. 	
Directory name parameters	The directory name parameter (e.g., c:\GENSRVNT\sapin) must vary by port. The pathname is the key value for inbound processing.	
Outbound status messages	To handle outbound status messages, the client and port must be unique.	
Advanced Multi- Port Features dialog	The Extension for SAP can be enabled for multi-port processing using the Advanced Multi-Port Features dialog box accessed through the Connection Parameters tab on the SAP Configuration dialog box. This illustration shows the Advanced Multi-Port	

Features dialog box.

Advanced Multi-Port Features	×
Function Module EDI_DATA_INCOMING SAP SNDPOR SAPSCI Logical System Name	Close
Auto Start SAP Server Start	
Set timer for checking the connection	
Remote SAP Host	
Remote Command [tp -n -s c:\gensrvnt\sapscripts\sapstat	
Remote Command /SAP/STATUS/SAPSTAT.DAT	
Delete file after successful transmission	



Using the IDoc Utility

Contents

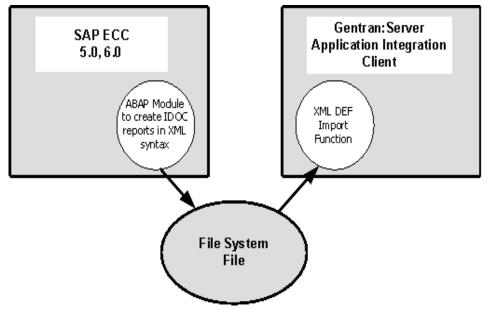
•	Overview	E - 2
•	Installing and Configuring the IDoc Utility	E - 4
•	Running the IDoc Utility	E - 6

Overview

Introduction

The IDoc utility is a report within the SAP system that can be executed like a program. This utility converts IDoc structures into XML format based on the rules of the 'gentran_ddf.dtd' file version 1.0. The XML format can then be loaded into the Gentran Application Integration program to automatically provide the IDoc half of a map. In this way, the user avoids re-keying this information manually.

The overall environment of this function is



Report names

There are two versions of the IDoc utility, one for each type of SAP release. This table shows the two versions, which are also known as reports.

This report	Is to be executed on
ZIDXML50	SAP Systems ECC 5.0
ZIDXML60	SAP Systems ECC 6.0

SAP system help functionality

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The IDoc utility comes with the following types of online help:

- The report documentation is available following the menu path Help/Extended help.
- Descriptions for fields on the Selection screen are available by placing the cursor on the desired field and pressing the F1 key.
- For the **Object name** box and the **Local directory** box on the Selection screen, you can get a list of the possible entries by placing the cursor on the desired box and pressing the **F4** key.



Installing and Configuring the IDoc Utility

Requirements	The following items are necessary for the installation and running of the IDoc utility:		
	The following items are necessary for the installation and running of the IDoc utility:		
	► SAP System ECC 5.0 or 6.0		
	Appropriate Operating System		
	Reference See the <i>Getting Started Guide</i> for the operating system that are supported for use with Gentran:Server.		
	Imported transport containing the utility report.		
	• SAP user type 'dialog' for the relevant clients. This user needs at least a profile containing the authorization objects S_PROGRAM with an authorization to submit reports, and S_IDocDEFT with an authorization to display the documentation of IDocS.		
IDoc Utility Report Names Overview	The files which are needed to generate the IDoc layout that is necessary to import into the Gentran:Server Application Integration subsystem are located in the \GENSRVNT\Extensions\SAPMAPS\XML iDoc Export\Cofiles\ directory and the \GENSRVNT\Extensions\SAPMAPS\XML iDoc Export\Data\ directory.		
Overview			
Overview			
Overview	\GENSRVNT\Extensions\SAPMAPS\XML iDoc Export\Data\ directory. ZIDXML5X:K901600.VRD and R901600.VRD are for use with SAP ECC 5.0		
Overview	\GENSRVNT\Extensions\SAPMAPS\XML iDoc Export\Data\ directory. ZIDXML5X:K901600.VRD and R901600.VRD are for use with SAP ECC 5.0 ZIDXML6X:K900012.E01 and R900012.E01 are for use with SAP ECC 6.0 The files listed above are referred to as Transport Change Requests . Their purpose is to import the ABAP/4 report program ZIDXML50 or ZIDXML60 into the SAP system. The source code is imported but you will need to compile the program. To import the ABAP/4		
Overview	\GENSRVNT\Extensions\SAPMAPS\XML iDoc Export\Data\ directory. ZIDXML5X:K901600.VRD and R901600.VRD are for use with SAP ECC 5.0 ZIDXML6X:K900012.E01 and R900012.E01 are for use with SAP ECC 6.0 The files listed above are referred to as Transport Change Requests. Their purpose is to import the ABAP/4 report program ZIDXML50 or ZIDXML60 into the SAP system. The source code is imported but you will need to compile the program. To import the ABAP/4 code, you must use a utility provided by SAP called tp. Reference Please see the appropriate SAP documentation to determine how to use this utility with		



Process Overview

This table describes the process for using the IDoc utility.

Stage	Description
1	Install reports ZIDXML50 or ZIDXML60 from the transport file. (SAP system administration support is required to perform this step.)
2	Set up an SAP user. Reference See the Requirements section in this topic for information on setting up the SAP user.
3	Log on using the SAP client.
4	Execute the report and create an XML file.
5	Load the created file into the Gentran Application Integration program.

Running the IDoc Utility

Procedure

Use this procedure to run the IDoc utility:

Step	Description
1	On your SAP system, execute one of the reports (ZIDXML50 or ZIDXML60) by using the SAP transaction SA38.
	Note You may get this transaction either by following the menu path System / Services/Reporting or by entering the transaction code SA38 into the command field on the screen.
2	Type the name of the report (ZIDXML50 or ZIDXML60) into the screen and press F8 .
	Result The Selection screen of the program is displayed.
3	Enter all mandatory and desired optional input.
	Reference See the appropriate "Sample Screen and Entry Descriptions" section at the end of this chapter.
4	Press F8 to run the report.
	Note The reports have to be executed in online mode because the necessary download functionality is not available in background mode.

File Names

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Each IDoc structure includes the following necessary components:

- Controlrecord (EDI_DC / EDI_DC40)
- Datarecord (EDI_DD / EDI_DD40)
- IDoctype (for example: ORDERS02)

At the end of each run, the selected IDoc types are transferred to a specified directory of the local workstation. The default directory is the current SAP working directory.

File Names (contd.)

ZIDXML60

Sample Screen and

Entry Descriptions

In the case of multiple IDoc selections, each structure will get its own file. The filenames are generated as follows:

File name	Description
<idoctype>_<release>.ddf</release></idoctype>	Extended filename
<idoctype>.ddf</idoctype>	Short filename

After all transfers have been processed, a list is displayed on the screen. This list provides information on successful processed structures, created files and pathnames, as well as useful information in case of failures.

This diagram illustrates the Selection screen for the report ZIDXML60.

Er Program Edit Goto System Help SAP 🔟 🔍 📙 । 😋 😧 🖳 🛗 🛗 🖄 🏷 🕰 🔛 💌 💌 👰 📑 0 IDoc-Utility for Gentran Server Windows 🕒 🖪 IDOC Name \$ Version 700 SAP Release 10 🔿 Tag length 7 ۲ Basic Type ۲ Extension 0 C:\Documents and Settings\username\SapWorkDir\ 0 Local directory Extended Filename ۲ Short filenames (8 chararcters) 🕨 102 (1) 900 🖭 dumbo INS

Mandatory Entries

This table describes each mandatory entry.

Field	Description
IDOC Name	Enter the name of a valid SAP IDoc structure.
	Example ORDERS02
	You must specify the requested type of the structure using the options Basic IDoc type and IDoc type (basic IDoc type plus user extension). Multiple selection and the use of patterns is possible.
	(Continued on next page)

Field	Description
Version	Enter the version of the IDoc record types (for example, 1, 2, or 3).
SAP Release	Enter a valid SAP Release (e.g., 600 or 700). This reflects the SAP release where the requested IDoc structure is released, not the actual system release of SAP.
Local directory	Enter a valid directory on the local workstation or network.
	The default directory is the current SAP working directory. If you use F4 to select the local directory, do not enter any filenames on the subscreen that appears. All filenames are generated by the report.

Optional Entries

This table describes each optional entry.

Field	Description
Extended filenames	Select this option to use extended filenames for the transfer of the XML files.
	This is the default for operating systems that support extended filenames.
Short filenames	Select this option to use short filenames for the transfer of the XML files.