

Transfer of GL Master from Source SAP System to a Target SAP System through IDOCS



Applies to:

SAP ECC 6.0. For more information, visit the [Enterprise Resource Planning homepage](#).

Summary

SAP offers a wide range of applications designed to transfer business objects from one system to another which cannot be captured in the transport request functionality.

This article provides an exhaustive approach to show the usage of the standard SAP transaction 'BD18' (Send G/L Accounts) for transferring G/L master records from a Source Client to a Target Client through IDOCS.

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Author Bio



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Table of Contents

Introduction	3
General Ledger Accounts-Overview	3
General Ledger Accounts in SAP	3
Send G/L Accounts-BD18.....	4
Navigation path	4
Tables & Function modules used.....	4
Advantages of BD18 over LSMW	5
Step by Step Procedure for using BD18.....	5
Situation	5
Assumptions.....	5
Step-1: Configuration and Checking of RFC Connections	6
Step-2: Configuration of tRFC port	8
Step-3: Configuration of Partner Profiles in Source System.....	9
Step-4: Configuration of Distribution Model	10
Step-5: Configuration of Partner Profiles in Target System.....	12
Step-6: Transferring G/L Accounts	13
Step-7: Status Check of the IDOCS.....	14
List of Transactions for transferring other SAP Business objects	15
Related Contents	15
Disclaimer and Liability Notice.....	17

Introduction

The implementation of SAP software, such as SAP R/3 is almost always a massive operation that brings a lot of changes in the organization. The resulting changes that the implementation of SAP generates are intended to reach high level goals, such as improved communication and increased return on information.

From a Finance perspective, a complete new organization structure is created keeping in mind the business processes that are followed in the organization. This involves the creation of various SAP Business Objects like-Company Codes, Chart of Accounts, General Ledger (G/L) Accounts, Profit Centers, Cost Centers etc.

From a deployment and testing purpose, a majority of these SAP objects get captured in SAP transport request functionality and can be transported from a Development Client to a Testing Client\Production Client. However, there are certain business objects like the G/L accounts which do not get captured in transport request and has to be created in each client.

General Ledger Accounts-Overview

The general ledger is the core element of a company's business and financial endeavors. A general ledger summarizes all of a company's financial transactions including sales and income, asset management, retained earnings, inventory supplies and expenditures, payroll, including taxes and benefits and vendor expenses. The general ledger is where posting to the accounts occurs.

A general ledger basically holds four types of accounts:

- Assets
- Liabilities
- Income
- Expenses

The balance sheet and the income statement are both derived from the general ledger. In SAP, for each G/L account, the '**Chart of Accounts**' contains the account number, account name, and the information that controls how an account functions and how a GL account is created in a company code.

General Ledger Accounts in SAP

The transaction code for creating a General Ledger account in SAP is '**FS00**'.

In a SAP implementation, there can be scores of G/L accounts which needs to be created in SAP from the existing legacy system. Moreover, if there is multiple company codes involved, then a particular G/L account has to be created for each of the company code for posting to occur.

The most common approach followed for the creation of G/L Accounts in SAP is through the use of a data migration tool, '**LSMW**' (Legacy System Migration Workbench), wherein based on the recording of the transaction '**FS00**' for a single record, a file containing the full list of G/L accounts along with the relevant fields is uploaded into SAP system, which in turn reads the file and creates the G/L accounts in the system. The above process is followed as well for the creation of G/L accounts in Testing Client as well as during the Deployment to the Production Client. However, there are risks associated with this process like the file containing the list of G/L accounts may get corrupted and the system is unable to read the file.

A more sophisticated and clean approach would be to use the '**IDOCS**' functionality to transfer the G/L accounts from one system to another. The major advantage of following this process is that it reduces the uncertainty around the creation of G/L accounts in SAP to a great extent. Once the connection is set up between two systems, the transferring can be done as much number of times.

This article provides a step by step overview to show the usage of SAP transaction code, '**BD18**', for transferring the G/L accounts master from a Source SAP system to a Target SAP system through '**IDOCS**' functionality.

Send G/L Accounts-BD18

SAP transaction 'BD18' is used for the transmission of master data for the specified general ledger accounts in the form of IDOCs 'GLMAST' or 'GLCORE' from a source SAP System to a given receiver SAP system, provided a RFC connection is set up within the two systems along with same basic configuration. The general ledger accounts are selected and transferred to the corresponding transmission functional module.

Navigation path

SAP Easy Access Path	SAP Menu →Logistics →Logistics Execution →Transportation → External Planning System →ALE Monitoring→Go to →Master Data Distribution →Accounting →G/L Account →Send
-----------------------------	--

Send G/L accounts

Chart of accounts: [] to []

Company code: [] to []

Account No.: [] to []

Logical message: []

Receiving logical system: []

Parallel processing

Server group: []

G/L accounts per process: 20

SAP Standard report 'RBDSEGLM' is triggered, when transaction Code 'BD18' is executed.

Tables & Function modules used

Tables	Table Name	Description
	SKA1	G/L Account Master (Chart of Accounts)
	SKB1	G/L Account Master (Company Code)
	TBDME	ALE supplement data for EDI message type
	TBDLS	Logical system
	T001	Company Codes
	EDMSG	Logical message types

Function Modules	Function Module Name
	CHECK_REDUCED_MESSAGE_TYPE
	OWN_LOGICAL_SYSTEM_GET
	ALE_MODEL_DETERMINE_IF_TO_SEND
	SPBT_INITIALIZE
	MASTERIDOC_CREATE_REQ_GLCORE
	MASTERIDOC_CREATE_REQ_GLMAST

Advantages of BD18 over LSMW

- (a) Time Efficient
- (b) No Flat file to be uploaded in SAP system
- (c) Once the connection is set up, the G/L accounts can be transferred to the receiver SAP system as much number of times as desired.

Step by Step Procedure for using BD18

There are certain pre-requisites which needs to be completed, before executing the transaction 'BD18'. These pre-requisites are explained in detail as steps in the pages to follow.

Situation

Transferring G/L accounts from a Source SAP system to a Target SAP System.

Assumptions

- (a) The Source and Target SAP systems have already been created.
- (b) The G/L accounts in the Source SAP system have already been created.

In brief, the steps are as follows-

Step(s)	Description	SAP Transaction Code
1	Configuration and Checking of RFC Connections	SM59
2	Configuration of tRFC port	WE21
3	Configuration of Partner Profiles in Source System	BD54,WE20
4	Configuration of Distribution Model	BD64
5	Configuration of Partner Profiles in Target System	BD54,WE20
6	Transferring G/L Accounts	BD18
7	Status check of the IDOCS	BD87

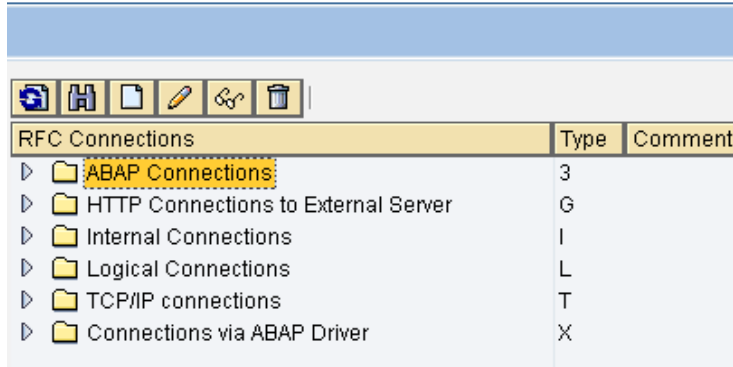
Step-1: Configuration and Checking of RFC Connections

Source System-'ID2' Client 100

Target System-'IST' Client 100

Log in to the Source System (**ID2**) and go to Transaction Code '**SM59**'

Configuration of RFC Connections



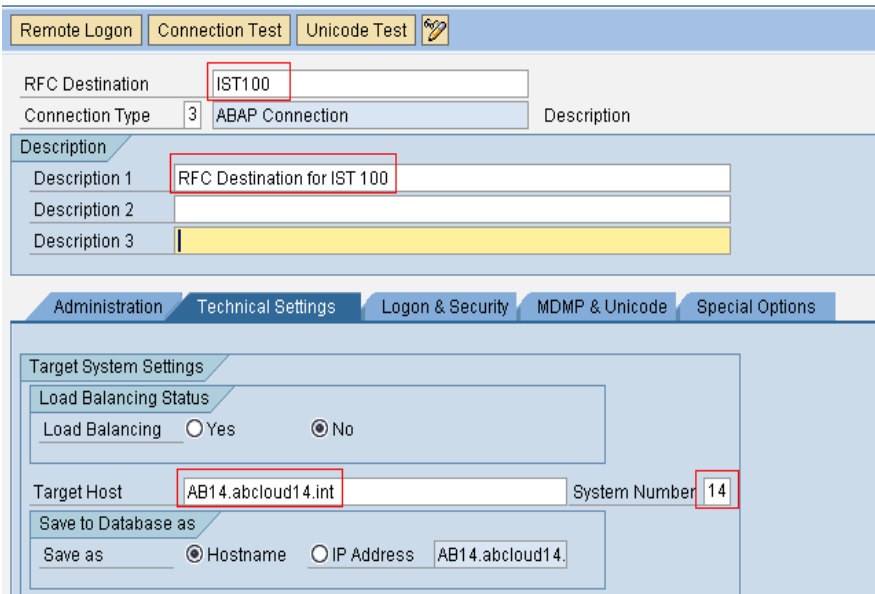
Select the "**ABAP Connections**" and click on Create Icon 

The following values needs to be filled in-

Field	Value	Description
RFC Destination	IST100	Target System
Description1	RFC Destination for IST 100	----
Target Host	AB14.abcloud14.int	Target System Server Details
System Number	14	Target System's Number

Note-The values used are specific to the Target System used in here.It will be different for different for different systems.

RFC Destination IST100



Once the values are filled in, click on the 'Logon & Security' tab to set up the 'User' and 'Password' for the same. The 'User' should be a 'Communication user' and should exist in the Target System as well.

RFC Destination IST100

Remote Logon | Connection Test | Unicode Test

RFC Destination: IST100
 Connection Type: 3 ABAP Connection

Description 1: RFC Destination for IST 100

Administration | Technical Settings | **Logon & Security** | MDMP & Unicode | Special Options

Security Options
 Trusted System: No Yes Logon Screen
 Status of Secure Protocol: Inactive Active
 Authorization for Destination:

Logon
 Language: EN
 Client: 100
 User: AB13 Current User
 PW Status: changed

Once the details are entered, press so that the RFC destination is saved.

Now, click on the "Connection Test" button to test the connection from ID2 to IST. For successful connection between the two systems, the following screen should appear.

RFC - Connection Test


Connection Test IST100
 Connection Type SAP Connection

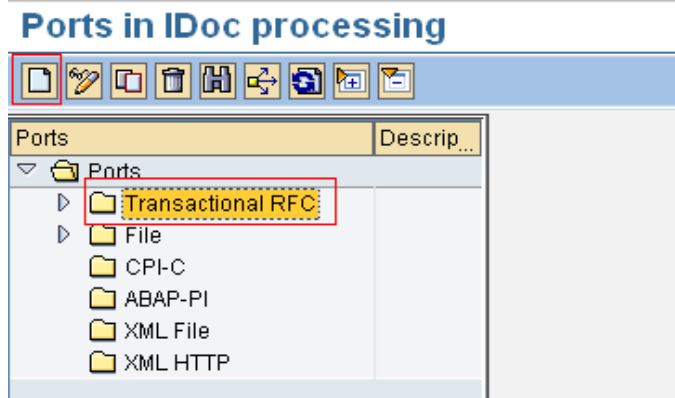
Action	Result
Logon	66 msec
Transfer of 0 KB	18 msec
Transfer of 10 KB	18 msec
Transfer of 20 KB	19 msec
Transfer of 30 KB	19 msec

If the above screen is not coming, then some error has happened in the configuration and it is better to contact the SAP BASIS team for the rectification of the same.

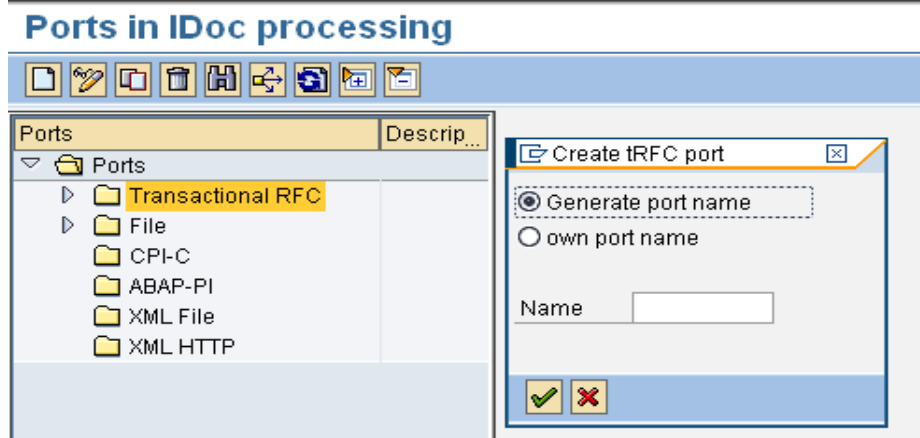
Step-2: Configuration of tRFC port

In the Source System (ID2), Go to Transaction Code **'WE21'**. Select the **'Transactional RFC'** folder and


Click on the Create Icon 



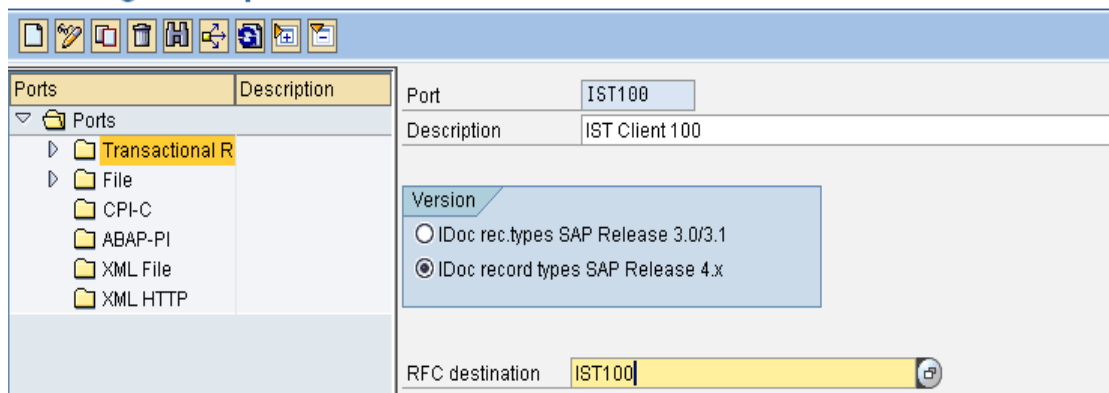
On clicking the create icon, a Pop-up comes asking for a Port name



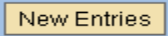

Select the **'Own Port Name'** option and give name as **'IST100'** and press enter.

Choose **'RFC destination'** as **'IST100'** from the drop down and **'Version'** as **'IDoc record Types SAP Release 4.x'**. Press  to save the port details.

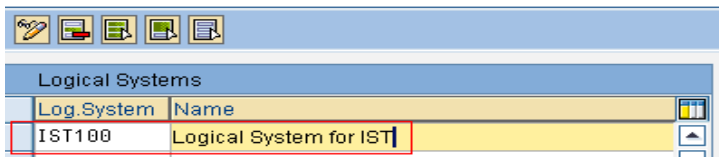
Creating a tRFC port



Step-3: Configuration of Partner Profiles in Source System

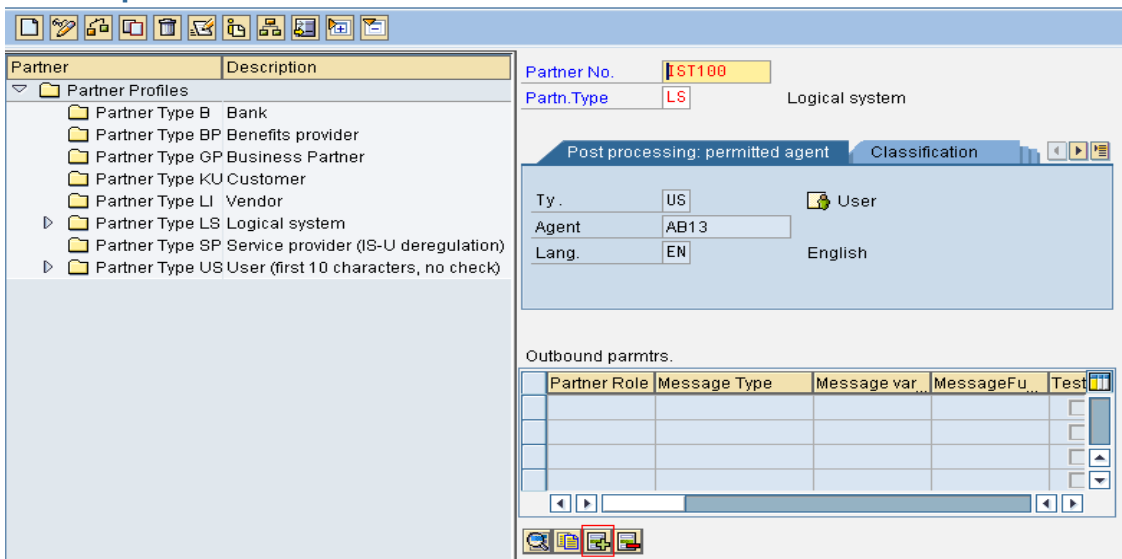
For configuring the Partner Profile in the Source System, the 'Target System' has to be defined as a logical system. In the Source System (ID2), Go to Transaction Code 'BD54' and click on New Entries . Maintain the Target System (IST100) and press  to save the details.

New Entries: Overview of Added Entries



After the above activity is complete, Go to Transaction Code 'WE20' in the Source System (ID2). Select the 'Partner Type LS' folder and click on the create icon .

Partner profiles



Give the Partner no. as the 'Target Logical System' in this case 'IST100'. The Agent name and the type needs to be maintained as well.

The message type related to the G/L accounts, i.e-'GLMAST' needs to be maintained in the 'Outbound Parameters' Section, as the G/L accounts will be moving through IDocs from ID2 to IST Systems.

Click on the  icon for adding the 'Outbound parameter'. A new screen opens up and following values needs to be feeded in the screen-

Field	Value
Message Type	GLMAST
Receiver Port	IST100
Output Mode	Transfer IDOC Immediately
IDOC Type (Basic Type)	GLMAST01

Partner profiles: Outbound parameters

Partner No. System Test
 Parth.Type Logical system
 Message Type Master data G/L accounts (master IDC)
 Message code
 Message function Test

Outbound Options | **Message Control** | **Post Processing: Permitted Agent** | **Tele...**



Receiver port Transactional RFC IST Client 100
 Pack. Size
 Queue Processing

Output Mode
 Transfer IDoc Immed. Output Mode 2
 Collect IDocs











IDoc Type
 Basic type Master data G/L accounts: Max.
 Extension
 View
 Cancel Processing After Syntax Error
 Seg. release in IDoc type Segment Appl. Rel.

Press  to save the 'Outbound parameters' and the Partner profile.

Step-4: Configuration of Distribution Model

In the Source System (ID2) go to Transaction Code 'BD64'. Click on Change icon  to go to the 'Change Distribution Model' view and click on the 'Create Model View' icon  Create model view

Change Distribution Model

      System View  Filter model display  Create model view  Add BAPI  Add message type

Distribution Model	Description/technical name	Business obje
Model views		
▶ ALE_SYNC	ALE_SYNC . No short text exists	
▶ CRM Scenarios	CRMSZ	
▶ Central User Administration	CUASMP	
▶ Customizing Data Synchronization	CONTRLDATA	
▶ Example of MM contract distribution (filtering at hea	MM-PUR1	
▶ Example of MM contract distribution (filtering at iten	MM-PUR2	
▶ Example of distributing test settings	QM-CONTR	
▶ HR <-> FI Scenario	HRFICOUPLI	
▶ Internet Scenarios	INTERNET	
▶ Logistics Scenarios	LOGISTICS	
▶ Master Data Distribution (MDM)	MASTERDATA	

A new screen pops-up and the following details are to be entered as shown in the figure

Short text	AB Distribution Model
Technical name	GLACCOUNT
Maint. system	IST100
Start date	22.04.2011
End Date	31.12.9999

After the 'Distribution Model' is created, the message type needs to be added to the same. Click on the 'Add Message Type' icon.

Distribution Model Changed

Distribution Model	Description/ technical name	Business object
Model views		
▶ ALE_SYNC	ALE_SYNC . No short text exists	
▶ CRM Scenarios	CRMSZ	
▶ Central User Administration	CUAGL	
▶ Customizing Data Synchronization	CONTRLDATA	
▶ Example of MM contract distribution (filtering at head)	MM-PUR1	
▶ Example of MM contract distribution (filtering at item)	MM-PUR2	
▶ Example of distributing test settings	QM-CONTR	
▶ HR <-> FI Scenario	HRFICOUPLI	
▶ Internet Scenarios	INTERNET	
▶ Logistics Scenarios	LOGISTICS	
▶ Master Data Distribution (MDM)	MASTERDATA	
▶ AB Distribution Model	GLACCOUNT	

A new screen pops-up, and the following values needs to be filled in.



Model view	GLACCOUNT
Sender	ID2100
Receiver	IST100
Message Type	GLMAST

Press enter and the following distribution model appears.

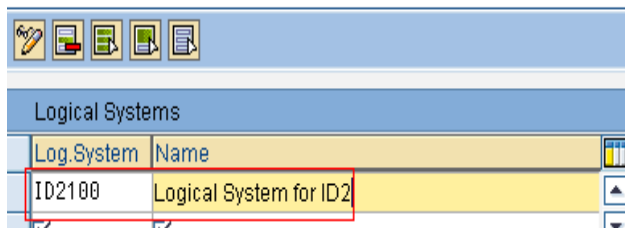
Change Distribution Model

Distribution Model	Description/ technical name	Business object
Model views		
▶ ALE_SYNC	ALE_SYNC . No short text exists	
▶ CRM Scenarios	CRMSZ	
▶ Central User Administration	CUASMP	
▶ Customizing Data Synchronization	CONTRLDATA	
▶ Example of MM contract distribution (filtering at head)	MM-PUR1	
▶ Example of MM contract distribution (filtering at item)	MM-PUR2	
▶ Example of distributing test settings	QM-CONTR	
▶ HR <-> FI Scenario	HRFICOUPLI	
▶ Internet Scenarios	INTERNET	
▶ Logistics Scenarios	LOGISTICS	
▶ Master Data Distribution (MDM)	MASTERDATA	
▶ AB Distribution Model	GLACCOUNT	
▶ Logical system for ID2100	ID2100	
▶ System Test	IST100	
▶ GLMAST	Master data G/L accounts (master IDOC)	


Step-5: Configuration of Partner Profiles in Target System

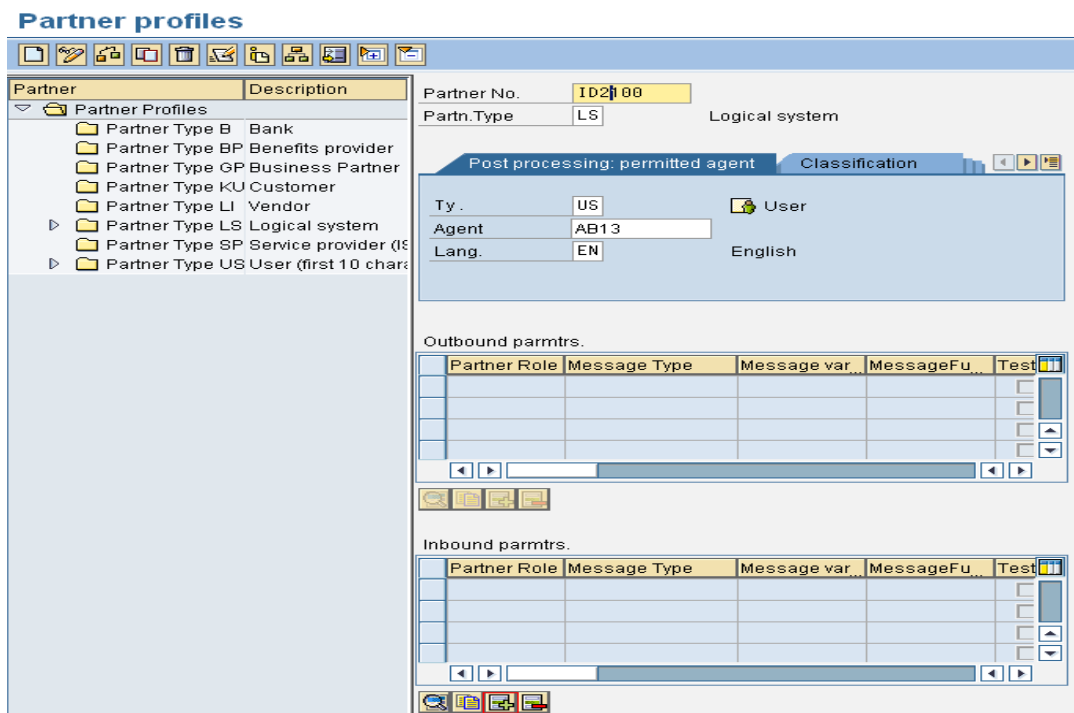
For configuring the Partner Profile in the Target System, the '**Source System**' has to be defined as a logical system. In the Target System (IST), Go to Transaction Code '**BD54**' and click on New Entries  and maintain the Target System (ID2100) and press  to save the details.

New Entries: Overview of Added Entries



Log. System	Name
ID2100	Logical System for ID2

After the above activity is complete, Go to Transaction Code '**WE20**' in the Target System (IST). Select the '**Partner Type LS**' folder and click on the create icon .



Partner profiles

Partner No. ID2100
Parth. Type LS Logical system

Post processing: permitted agent Classification

Ty. US User
Agent AB13
Lang. EN English

Outbound parmtrs.

Partner Role	Message Type	Message var.	MessageFu...	Test

Inbound parmtrs.

Partner Role	Message Type	Message var.	MessageFu...	Test

Give the Partner no. as the '**Source Logical System**' in this case '**ID2100**'. The Agent name and the type needs to be maintained as well.

The message type related to the G/L accounts, i.e-'**GLMAST**' needs to be maintained in the '**Inbound Parameters**' Section., as the G/L accounts will be moving through IDocs from ID2 to IST Systems.

Click on the  icon for adding the '**Inbound parameters**'. A new screen opens up and following values needs to be feeded in the screen-

Partner No.-ID2100

Message Type-'**GLMAST**'

Process Code-'GLMA'

Processing by Function Module-Trigger Immediately

Partner profiles: Inbound parameters

Partner No.	ID2100	
Partn.Type	LS	Logical system
Partner Role		
Message type	GLMAST	Master data G/L accounts (
Message code		
Message function		<input type="checkbox"/> Test

Inbound options | **Post processing: permitted agent** | **Telephony**

Process code	GLMA	GLMAST G/L account master
<input checked="" type="checkbox"/> Cancel Processing After Syntax Error		

Processing by Function Module

Trigger by background program
 Trigger Immediately

Press  to save the 'Inbound parameters' and the Partner profile.

Step-6: Transferring G/L Accounts

Take a G/L account which is already created in the Source SAP System (ID2), but is not there in the Target SAP System (IST). Take a note of the G/L Account and the company code.

Display G/L Account Centrally

G/L Account: 21155213 Other Creditors

Company Code: CAB1

Type/Description | **Control Data** | **Create/bank/interest** | **Key word/translation** | **Inf...**

Control in chart of accounts

Account Group: A001 Balance Sheet account group

P&L statement acct
 Balance sheet account

Description

Short Text: Other Creditors

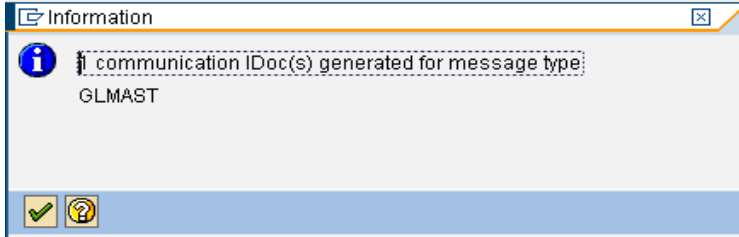
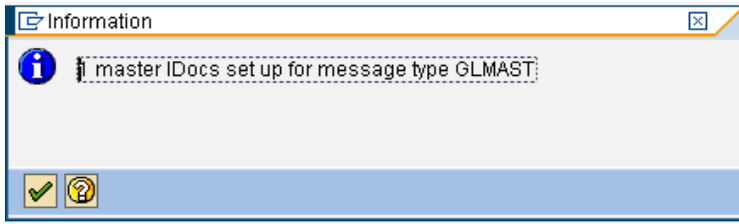
G/L Acct Long Text: Sundry Creditors

Go to Transaction code 'BD18' in Source System (ID2) and enter the following details as given and click on execute

Send G/L accounts

Chart of accounts		to	
Company code	CAB1	to	
Account No.	21155213	to	
Logical message	GLMAST		
Receiving logical system	IST100		

On executing the following Pop-up's should come one after another.



These pop-ups suggest that the the G/L accounts has been created in the Target System IST100 through the IDOC functionality.

Step-7: Status Check of the IDOCS

To check the status of the IDOCS, Go to Transaction Code **'BD87'** in the Source System and the enter the following details as shown and click on **'Execute'**

Select IDocs


The 'Select IDocs' screen shows various search criteria. The 'Changed On' field is set to '22.04.2011' and is highlighted with a red box. The 'Message Type' field is set to 'GLMAST' and is also highlighted with a red box. Other fields include Doc Number, Created On, Created At, Changed At, Doc Status, and Partner System.

The IDOC Status **'03'** indicates that the IDOC has been processed sucessfully and is sent to the Target System


Status Monitor for ALE Messages

The 'Status Monitor for ALE Messages' table shows the following data:

IDocs	IDoc Status	Number
IDoc selection		
Logical system for ID2100		1
IDocs in outbound processing		1
Data passed to port OK	03	1
GLMAST		1
EA(083) : IDoc sent to SAP system or external program		1

To check the status of the IDOCS in the Target System, Go to Transaction Code **'BD87'** and the enter the following details as shown and click on **'Execute'** 

Select IDocs


IDoc Number to 


Created On to


Created At 17:00:00 to 17:30:00

Changed On 22.04.2011 to 22.04.2011

Changed At 00:00:00 to 00:00:00








IDoc Status to 

Partner System to 

Selection Options for IDoc
 Message Type 

The IDOC Status **'53'**, indicates that the IDOC has been received successfully in the Target System and the G/L account has been created in IST system.

Status Monitor for ALE Messages

IDocs	IDoc Status	Number
<ul style="list-style-type: none"> ▶ IDoc selection ▼ IST100 1 ▶ IDoc in inbound processing 1 ▶ Application document posted 53 ▶ GLMAST 1 ▶ (000) : (without error message) 1 		

Note- Step 1 to Step 5 mentioned above needs to be done only once for a given Source System and given Receiver System, where as Step 6 and Step 7 needs to be executed as much number of times the transferring of G/L accounts is performed.

List of Transactions for transferring other SAP Business objects

Apart from the G/L accounts, there are other SAP objects which can be transferred using the IDOC functionality from the Source system to a receiver system. The only difference would be in the IDOC message types for each of these SAP objects.

Here is a consolidated list of the transaction codes which can be used along with their purposes.

Transaction Codes	Purpose
BD10	Send Material
BD12	Send Customer
BD14	Send Vendor
BD16	Send Cost Centre
BD24	Send Cost Elements
BD25	Send Activity Type
BD27	Send Cost Centre activity Prices
BD28	Send Obj\Cost Element Control data

Special thanks to Arijit Gupta, SAP Finance Lead Consultant at TCS, for providing the encouragement and the valuable inputs in the preparation of this article.

Related Contents

[T-codes for Data Distribution across clients](#)

<http://forums.sdn.sap.com/thread.jspx?threadID=1809116>

<http://forums.sdn.sap.com/thread.jspx?threadID=1932579>

For more information, visit the [Enterprise Resource Planning homepage](#).

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