

SAP IS-U Migration Workbench: Step by Step EMIGALL



Applies to:

SAP IS-U, CRM. For more information, visit the [Customer Relationship Management homepage](#).

Summary

SAP IS-U migration workbench (Tcode-EMIGALL) is a SAP ISU tool to migrate a legacy data into the SAP ISU system. This document is prepared for giving step by step user level information on how to navigate, configure and work with EMIGALL.

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Author Bio

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Introduction

This document is prepared for giving step by step user level information on how to navigate, configure and work with SAP IS-U migration workbench (EMIGALL).

Objective

The objectives of this document are:

- Give an overview of SAP EMIGALL
- EMIGALL Company creation
- Object configuration
- Distributed Import
- CRM replication for EMIGALL migration objects

Prerequisites

- User must have the SAP ISU and CRM experience of navigating the EMIGALL objects
- User must be aware about the SAP ISU business processes and the objects related to it.
- Must be aware about the middleware replication settings
- Middleware settings must be completed between the CRM and ISU systems.

Migration Workbench Customization

Following are the important steps in Migration Workbench configuration:

Creating Migration Company

In migration sense Company can be viewed as Project. So for migration only one company will be created.

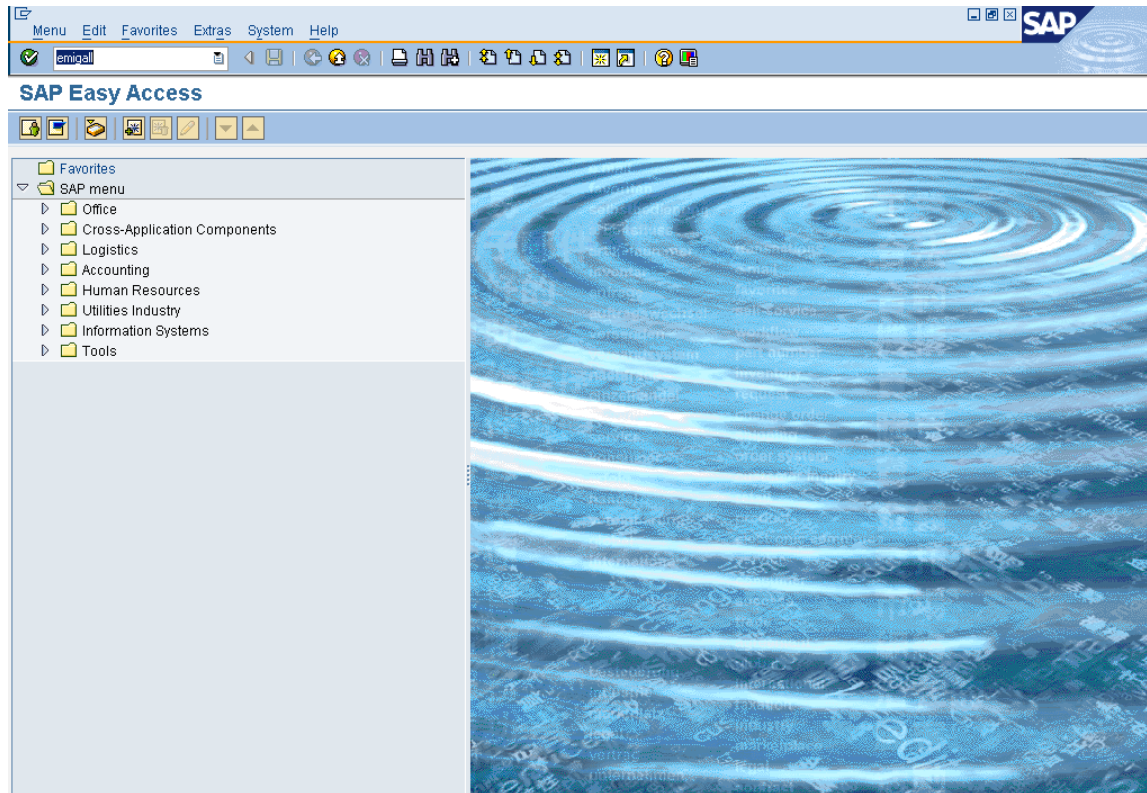
Following settings will be maintained at the migration company level:

- Company name
- Development class to use to generate the load modules
- Application server and current directory for import in the dialog work process
- Application server and current directory for import in the batch work process
- Code page of the legacy system

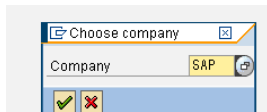
To override the company parameters, user parameters will be used during the data import.

Let us go through step by step as mentioned below:

For starting the migration workbench from the easy access menu, use the transaction code EMIGALL as mentioned below:

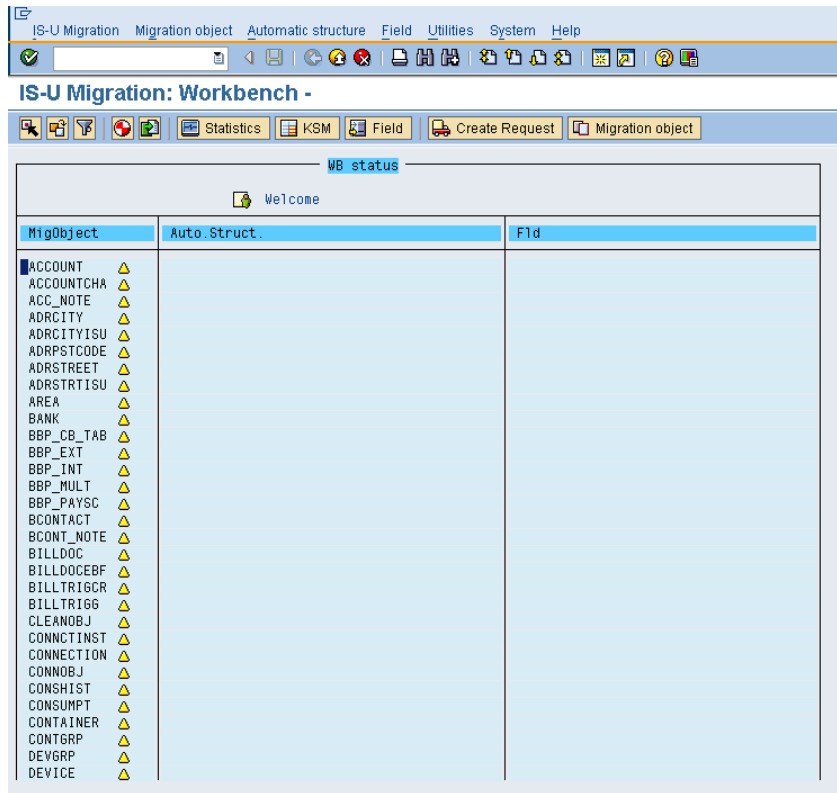


After entering the “emigall” transaction, we have to select the migration company as mentioned below:



In the above pop-up, select the company as SAP and click on Continue (Enter). After this you will get the following screen:

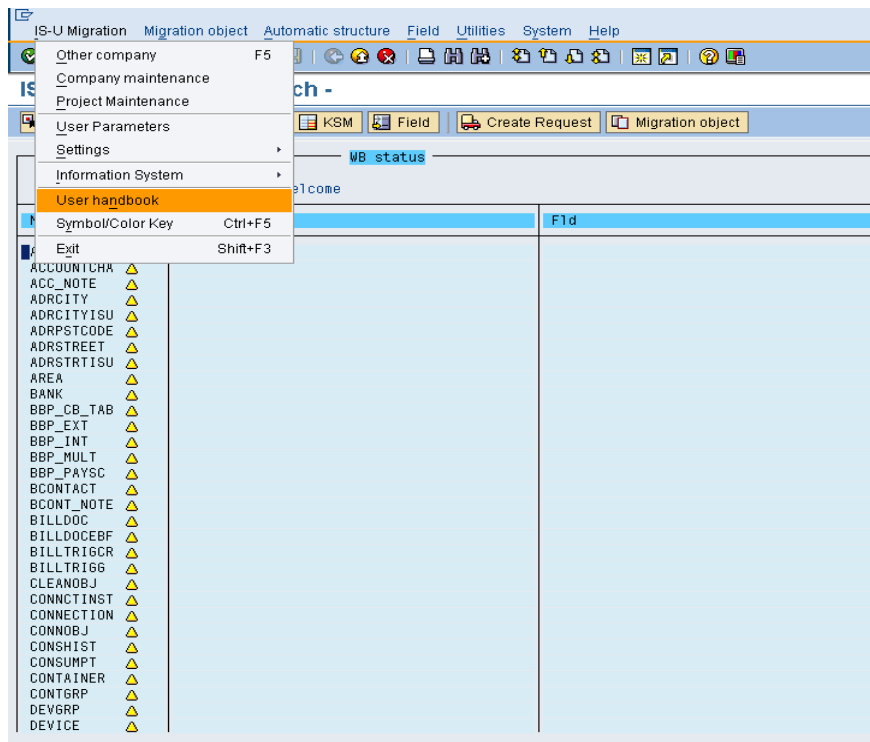
This is the default company provided by SAP which will have all the standard migration objects.



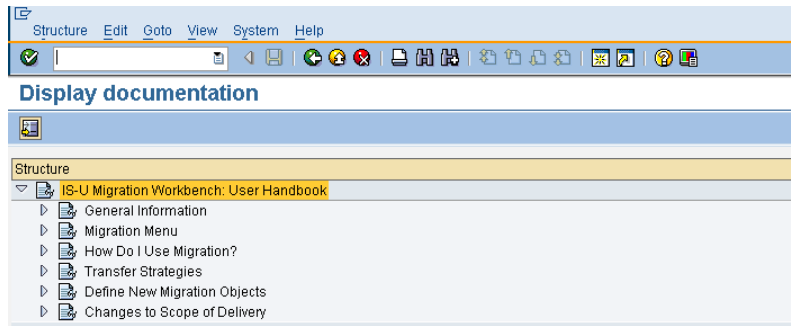
The above screen is the default migration workbench screen, which is divided into 3 sections as Migration Object (MigObject), Auto Structure (Auto Struct) and Fields (Fld).

In EMIGALL SAP has provided a user handbook of EMIGALL, which you can refer at any point of time.

For going into user handbook, go to IS-U Migration → User Handbook in the menu bar as shown below:



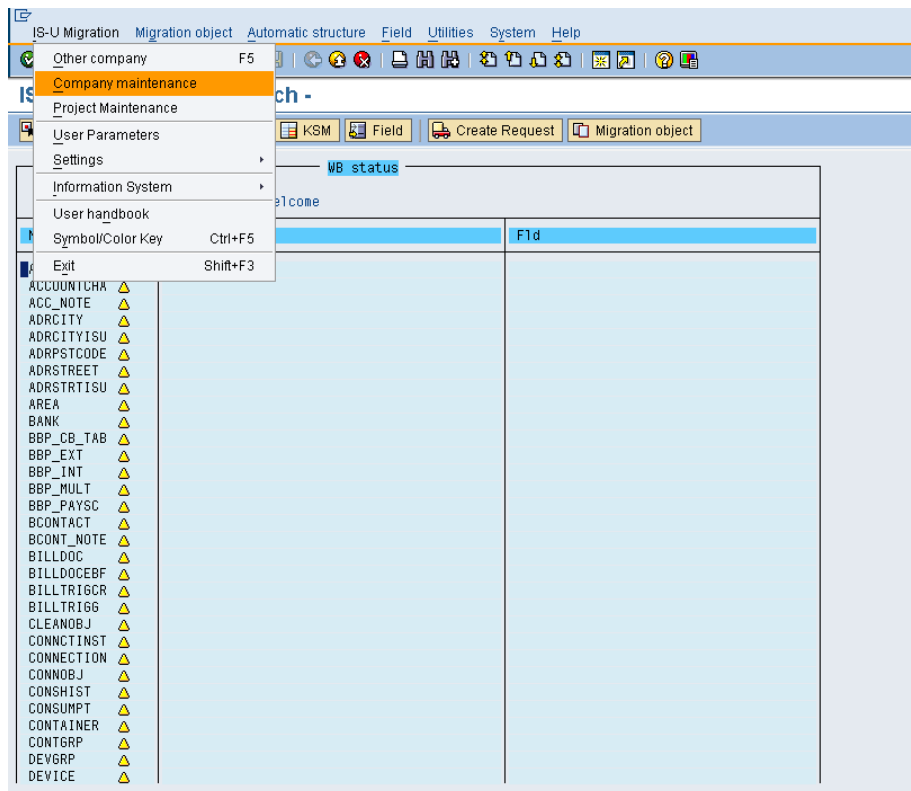
After that you will get the detail EMIGALL user handbook as shown below:



Note: Please do not make any changes in this SAP Company, as if the settings are changed here, we will not have any standard company where we can compare.

First thing we have to do is to create our own separate migration company.

For creating a new migration company, select **Company Maintenance** from **ISU-Migration**.



After your selection you will get the following screen:

Company Edit Goto System Help

IS-U Migration: Display Company Parameters

Company **SAP**

Last Changed On RCD-419689 09.11.2009 17:03:45 Status

General Data Import

Company name

Attributes

Legacy prg. Ing. ☐ RIVA transfer

Dev. class /NPU/E_MI6

Enter your Company and click on Create:

Company Edit Goto System Help

IS-U Migration: Display Company Parameters

Company **TEST**

Last Changed On RCD-419689 09.11.2009 17:03:45 Status

General Data Import

Company name

Attributes

Legacy prg. Ing. ☐ RIVA transfer

Dev. class /NPU/E_MI6

Company Edit Goto System Help

IS-U Migration: Maintain Company Parameters

Company **TEST**

Last Changed On Status Revised

General Data Import

Company name

Attributes

Legacy prg. Ing. ☐ RIVA transfer

Dev. class ☒ /NPU/E_MI6

After selecting Create, we have to enter other details which are required for Migration Company as below:

Company Edit Goto System Help

IS-U Migration: Maintain Company Parameters

Company TEST

Last Changed On Status Revised

General Data Import

Company name Migration Test Company

Attributes

Legacy prg. lng. ☐ RIVA transfer

Dev. class Z001

Company Edit Goto System Help

IS-U Migration: Maintain Company Parameters

Company TEST

Last Changed On Status Revised

General Data Import

General

File name suffix .txt Gen. Suffix Length 3

Leg. sys. char. s. 1100 SAP internal, like ISO 8859-1

IS-U char. set. 4102 UTF-16BE Unicode / ISO/IEC 106

Dialog Processing

DIA rem. server r0278i1_AD2_09 AIX

DIA mig. path /usr/sap/AD2/DVEBMGS09/work/

Background Processing

BTC rem. server

BTC mig. path

After entering the above data, click on SAVE button to save our migration company.

Finally click on BACK button.

Company Edit Goto System Help

IS-U Migration: Maintain Company Parameters Save (Ctrl+S)

Company TEST

Last Changed On Status Revised

General Data Import

General

File name suffix .txt Gen. Suffix Length 3

Leg. sys. char. s. 1100 SAP internal, like ISO 8859-1

IS-U char. set. 4102 UTF-16BE Unicode / ISO/IEC 106

Dialog Processing

DIA rem. server r0278i1_AD2_09 AIX

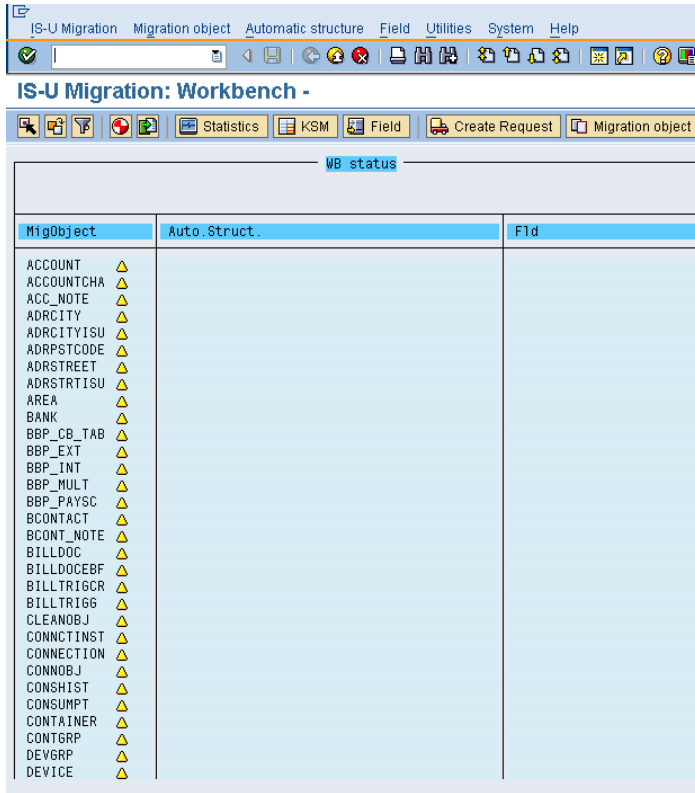
DIA mig. path /usr/sap/AD2/DVEBMGS09/work/

Background Processing

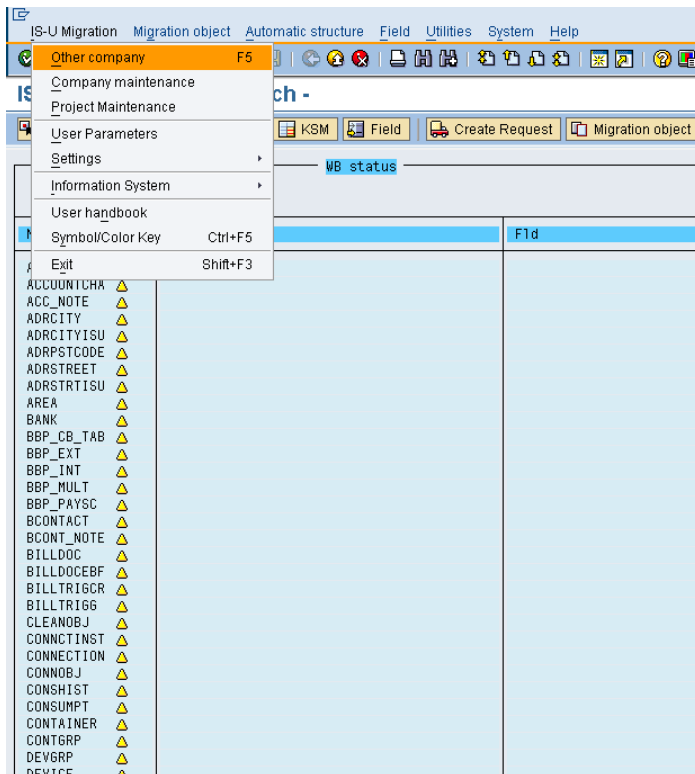
BTC rem. server

BTC mig. path

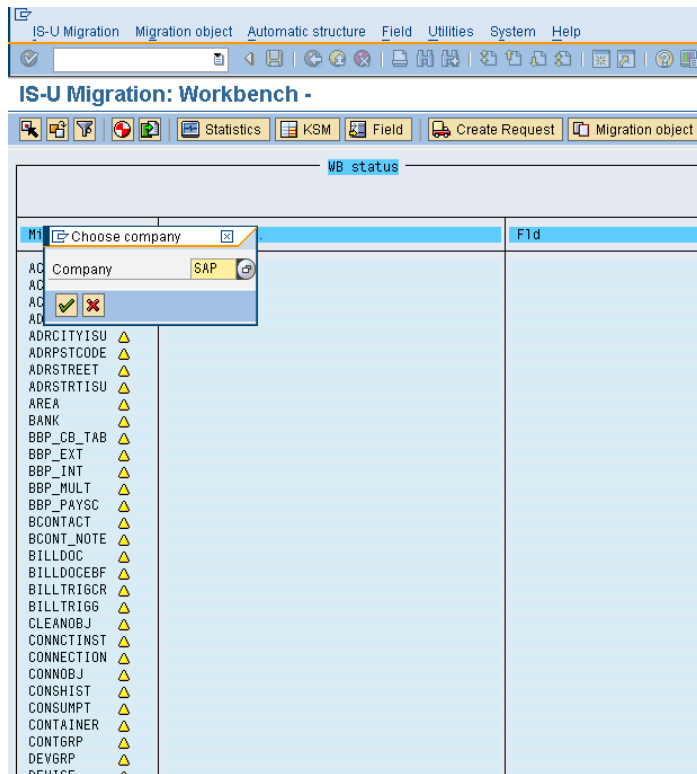
After clicking on BACK button you will be directed to default SAP company as below:



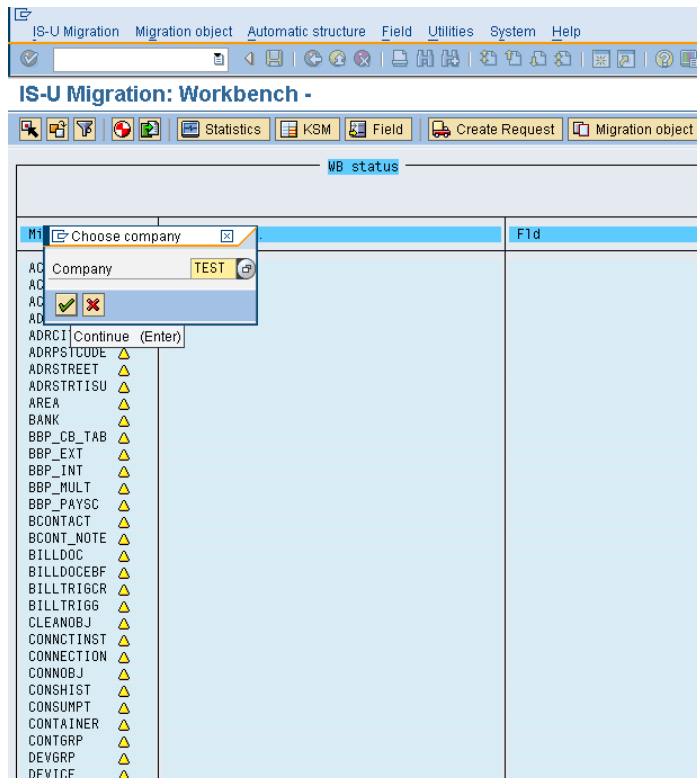
For going into your own migration company, click on **IS-U Migration** and then select **Other Company** as shown below:



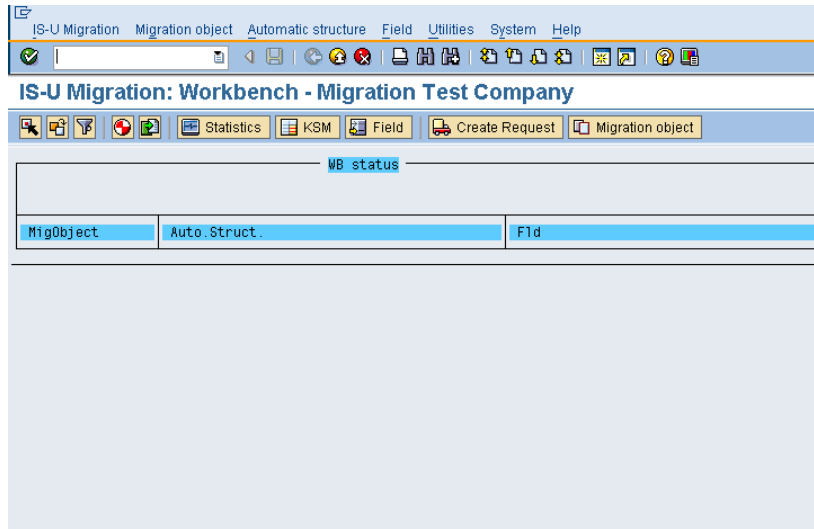
After above selection you will get the pop-up to select your migration company as below:



Select your migration company and click on continue as below:



After your selection you will get the following screen:



As you have no migration objects in your new migration company. Now we have to add the migration objects which we need to use.

Creating the new migration objects

To satisfy the data requirement for all the business processes identified within any data migration projects, migration object will be finalized based on discussion with Business Process Design Team. These objects will then be either copied from SAP Company to the new migration company configured for your project or will be created within your new migration company.

The new migration object is created with the blocking status '100' which blocks data import function to prevent new objects being unintentionally imported.

This process will be carried out for each migration object and all the migration object in scope of project will be copied to Migration Company configured for your migration project.

If any standard migration object from SAP Company is not serving the migration requirement then the IS-U Migration Workbench has an option for setting up a new migration objects that are not copied from the supplied objects from SAP Company.

Following three types of migration objects can be created in EMIGALL:

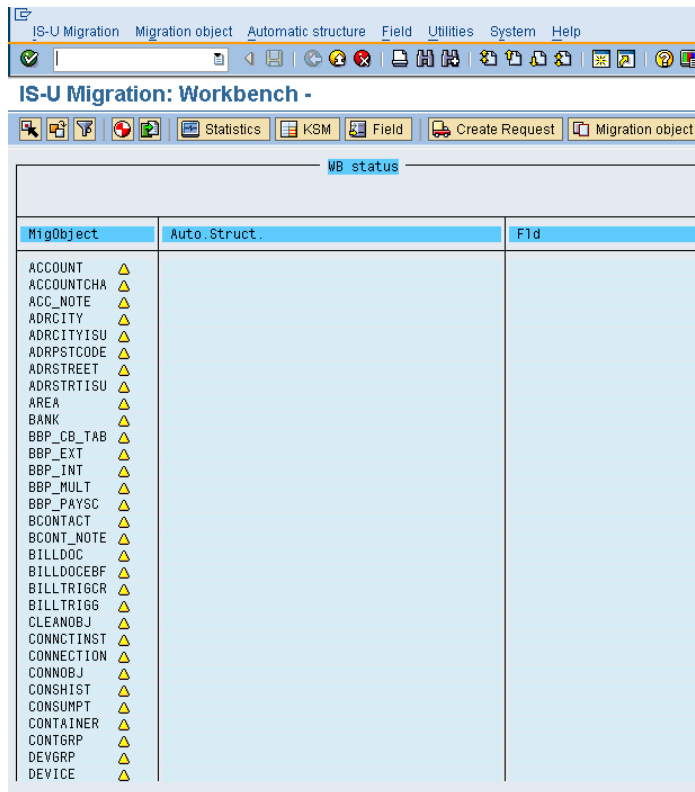
- Migration objects based on a service (function) module
- Migration objects based on a BDC recording
- Migration objects based on existing migration objects

Let us see the complete process of created or copying the new migration objects in your new migration company.

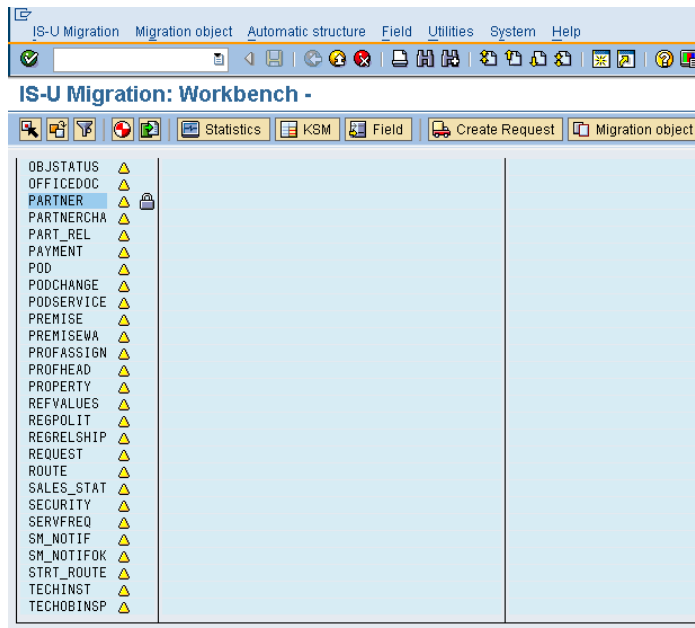
Creating a migration object by copying it from SAP company to our own migration company

For copying a standard migration object from SAP company to our own migration company, click on **IS-U Migration** and then select **Other Company**.

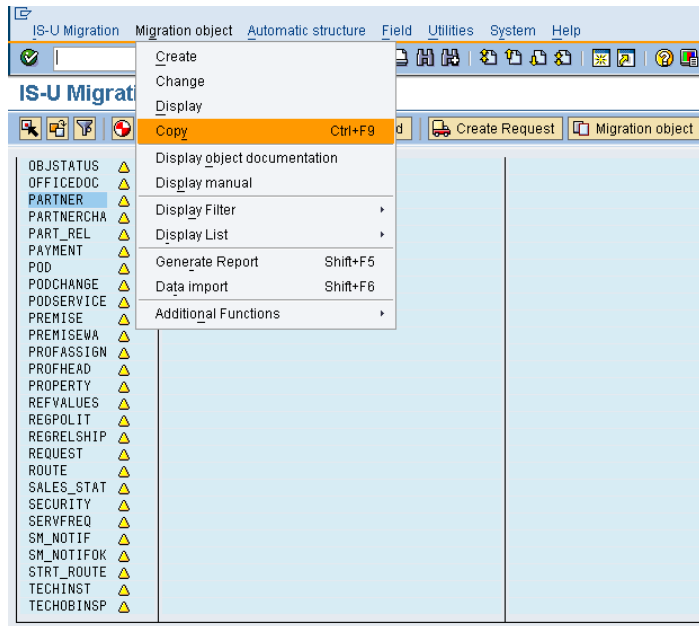
Select company as SAP and click on continue.



For copying any migration object, first select the required migration object by double clicking on it, as shown below we have selected PARTNER object:



After selecting a migration object, go to **Migration Object** in the menu bar and select **Copy** as shown below:



After selecting Copy you will get following screen:

Copy migration object PARTNER from company SAP

Source object

Company: SAP

Mig. object: PARTNER Create: Business Partner

Target object

Company:

Mig. object: PARTNER Create: Business Partner

Mig. obj. abbr.: PAR

Copy X

Enter the target Company and click on Copy:

Copy migration object PARTNER from company SAP


Source object		
Company	SAP	
Mig. object	PARTNER	Create: Business Partner



Target object		
Company	TEST	Migration Test Company
Mig. object	PARTNER	Create: Business Partner
Mig. obj. abbr.	PAR	

Copy X

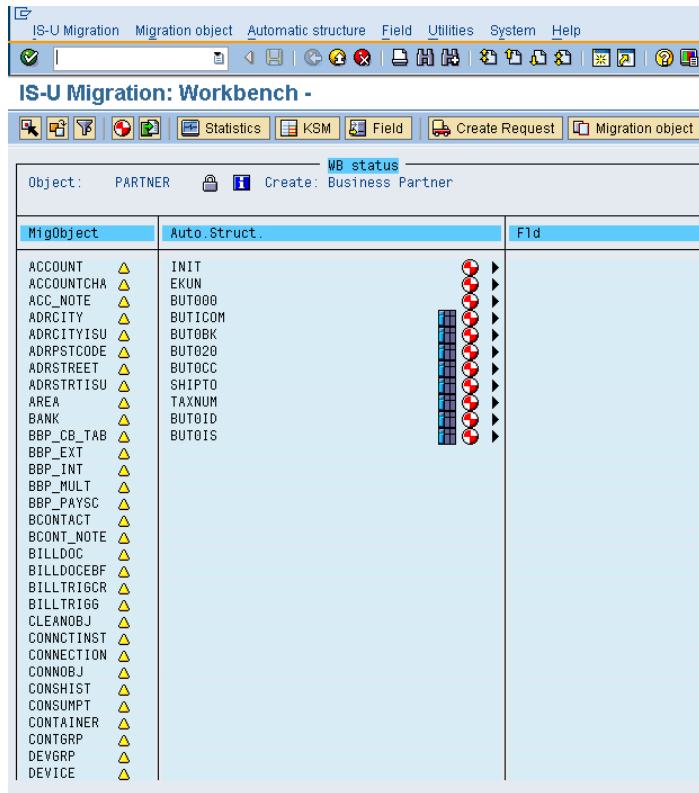
After clicking on Copy you will get the following message:

Information

 Migration object PARTNER created in company TEST
with blocking status '100'

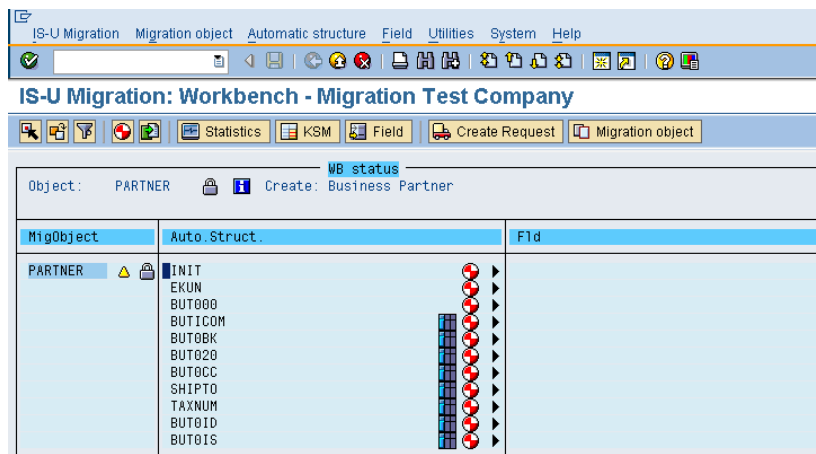
 

Click on Continue

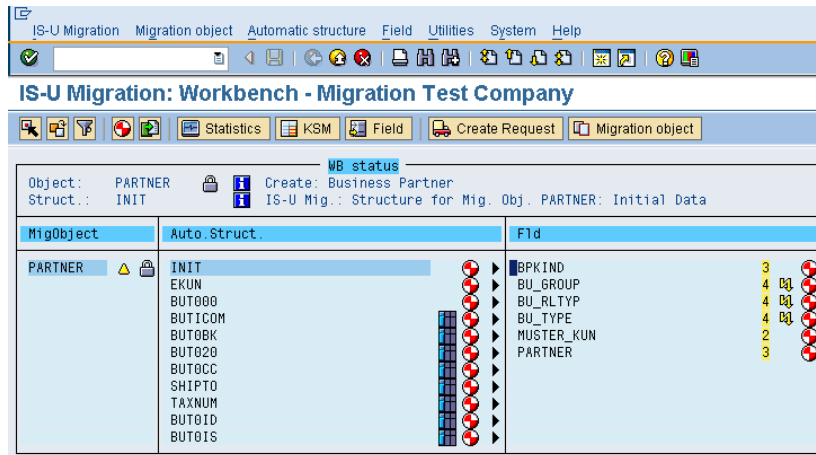


Go to your own company, now you will have a migration object PARTNER added to your company TEST.

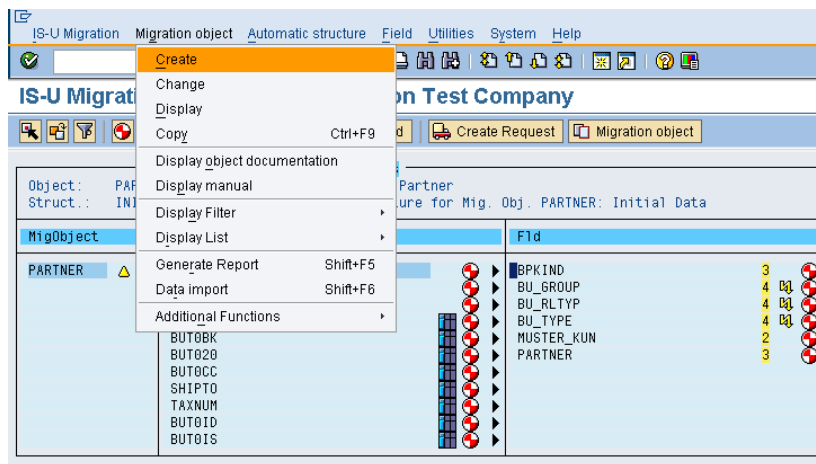
Double click on the PARTNER object as below:



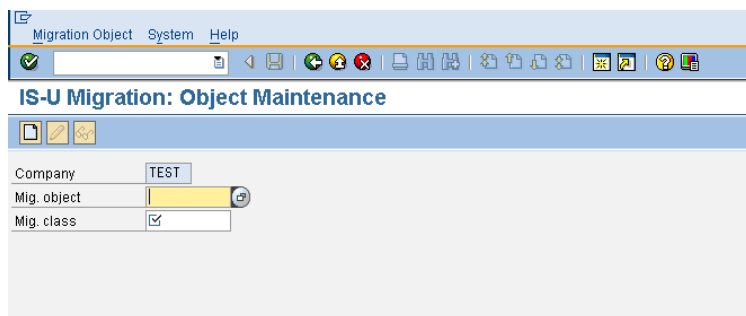
Now double click on any auto structure you will get the detail fields within that structure as shown below:



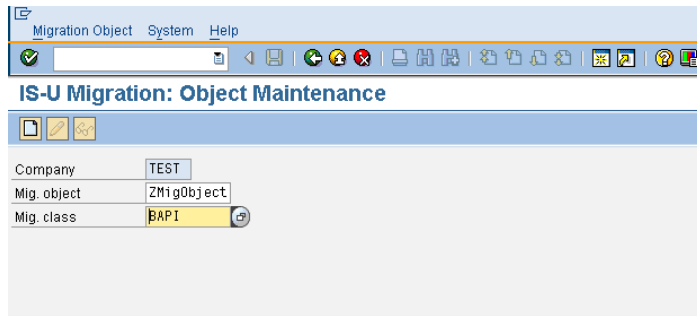
If you want to create a new migration object using a BAPI then click on **Migration object** and select **Create** as shown below:



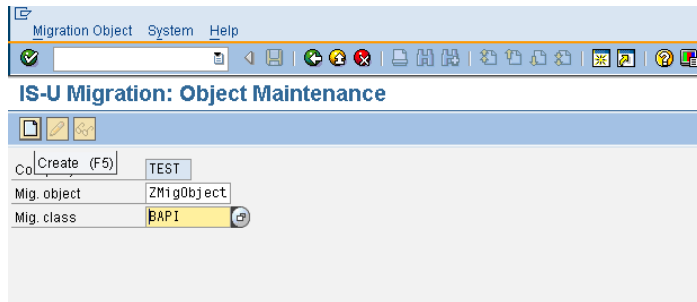
After selection you will get the following screen :



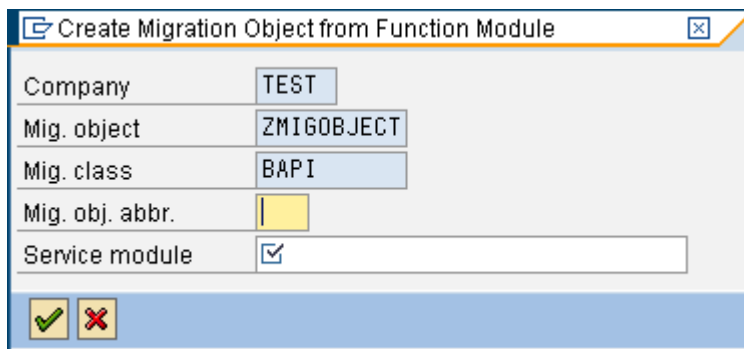
Enter the new migration object name and select the Mig. Class as BAPI:



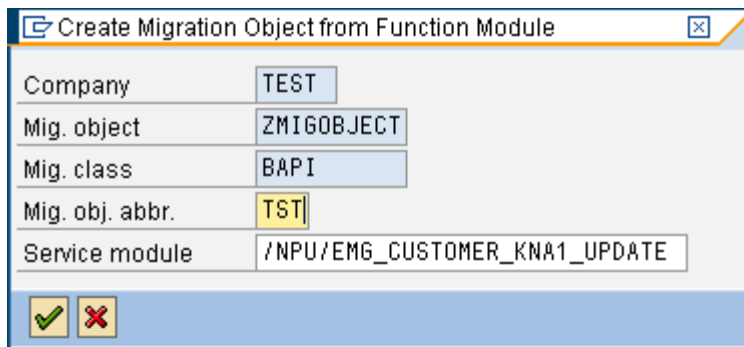
After this Click on Create button:



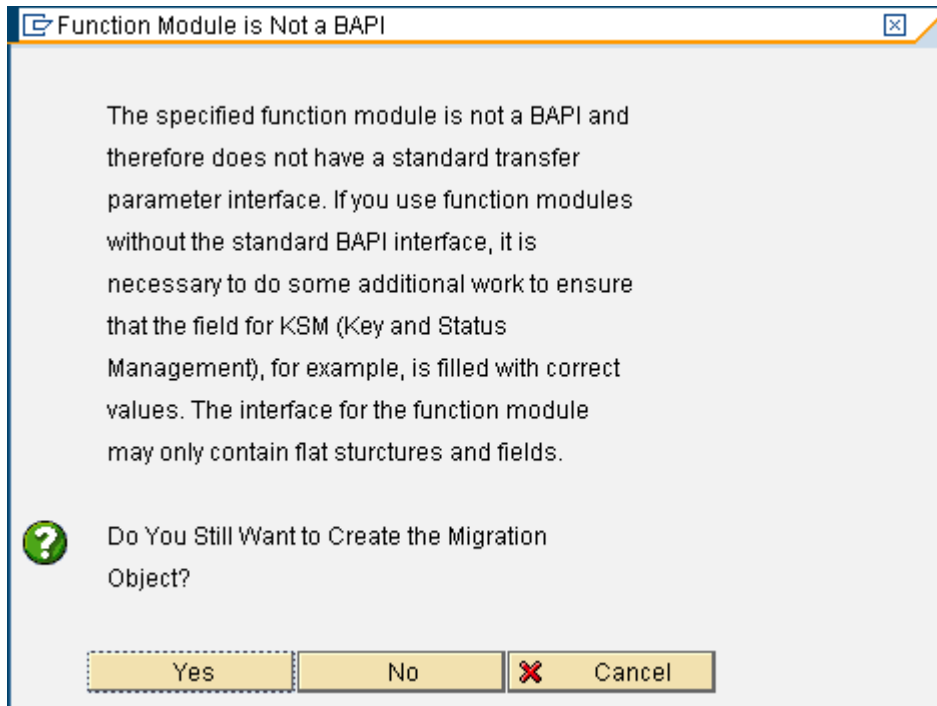
After Create you will get the following pop-up:



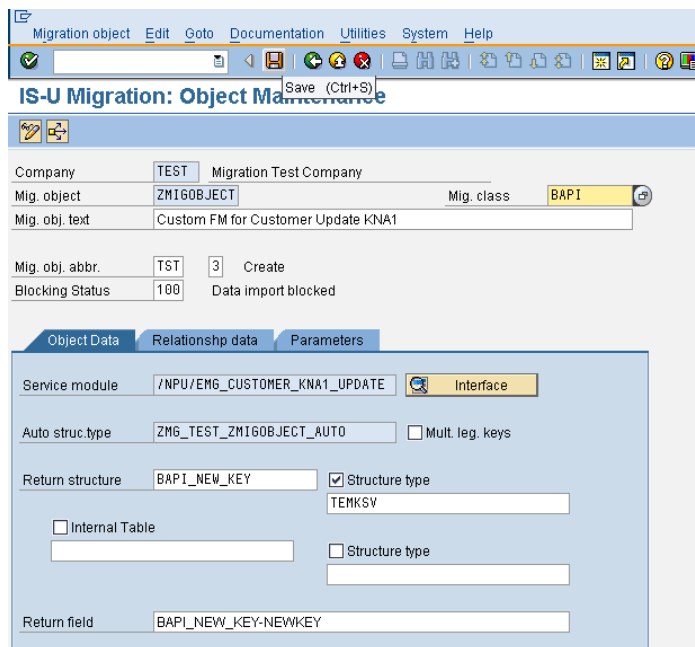
Enter the Migration Object Abbreviation and the Service module name as mentioned below and click on continue:



After this you will get the following confirmation screen and here select Yes:



Now finally your new object will be created, here select the SAVE button as below to save your migration object:



After saving click on BACK button to return to your migration company as shown below:

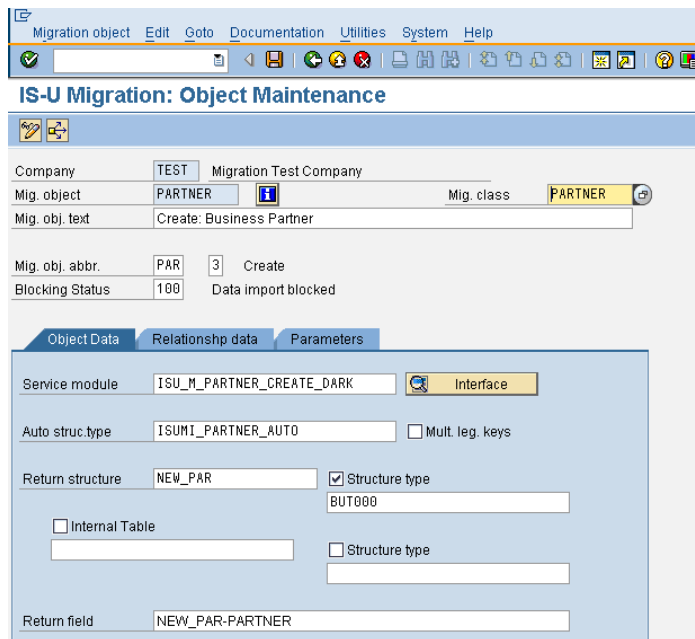
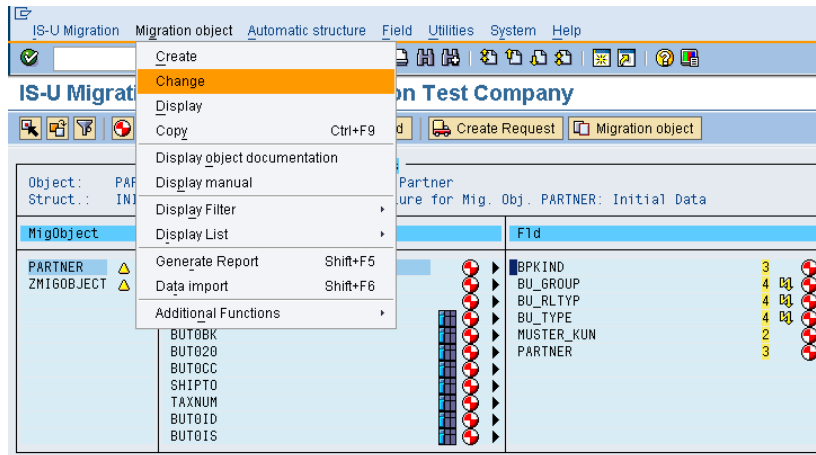
Now you can see 2 migration objects in your company as below:

MigObject	Auto. Struct.	Fld
PARTNER	INIT	BPkind, BU_Group, BU_RLtyp, BU_Type, MUSTER_KUN, PARTNER
ZMIGOBJECT	EKUN, BUT000, BUTICOM, BUT0BK, BUT020, BUT0CC, SHIPT0, TAXNUM, BUT0ID, BUT0IS	

Migration Object Configuration

In this section we will see how to make configuration settings for the SAP as well as custom migration objects:

After copying or creating a new migration object go to Migration object in the menu bar and select change as shown below:



Here you have to change the Blocking Status to 000, without this you will not be able to migrate the data:
So change the status to 000 and save as mentioned below:

The screenshot shows the 'IS-U Migration: Object Maintenance' window. The 'Company' is 'TEST' (Migration Test Company). The 'Mig. object' is 'PARTNER' and the 'Mig. class' is 'PARTNER'. The 'Mig. obj. text' is 'Create: Business Partner'. The 'Mig. obj. abbr.' is 'PAR' with a '3' in a box, and the 'Blocking Status' is '000' with the text 'Do not block any'. The 'Object Data' tab is active, showing the 'Service module' as 'ISU_M_PARTNER_CREATE_DARK' with an 'Interface' button. The 'Auto struc.type' is 'ISUMI_PARTNER_AUTO' with a 'Mult. leg. keys' checkbox. The 'Return structure' is 'NEW_PAR' with a checked 'Structure type' and the value 'BUT000'. There is an unchecked 'Internal Table' checkbox. The 'Return field' is 'NEW_PAR-PARTNER'.

The Return Field is the field which will be updated in the SAP KSM (Key and Status Management) table.

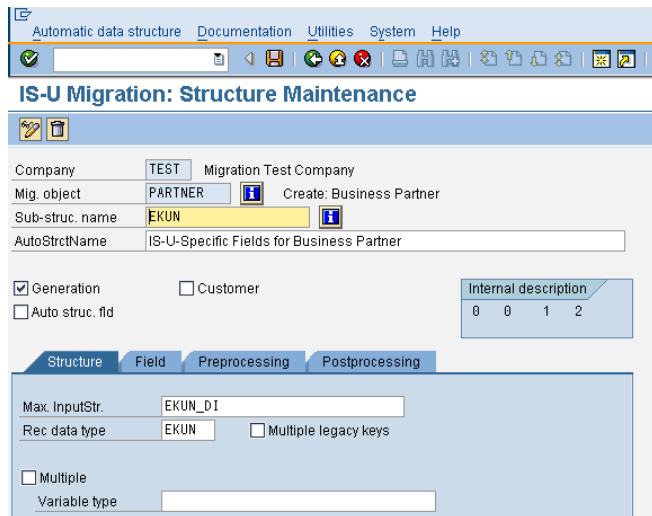
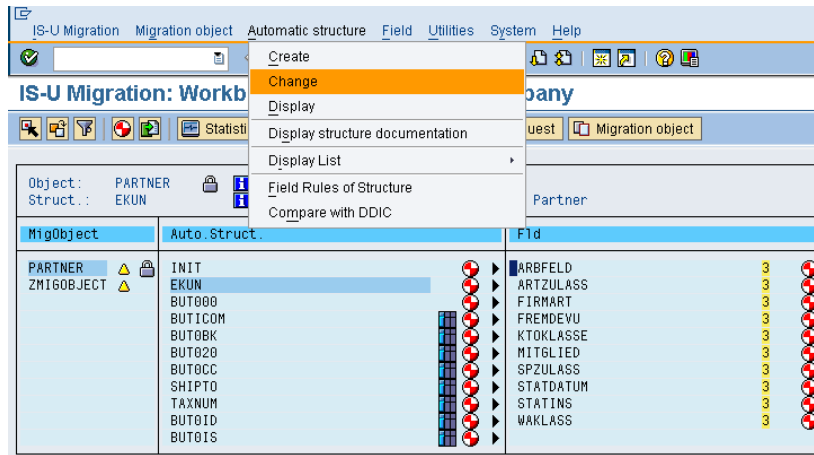
In the above screen you can see Return field has the value as New_PAR-PARTNER, it means EMIGALL will return the newly created SAP Business Partner number.

In the same manner if you see the below screen, system will update the SAP tables for this custom object and will have return field value as "DB_UPDATE" will return the value as "X" in KSM.

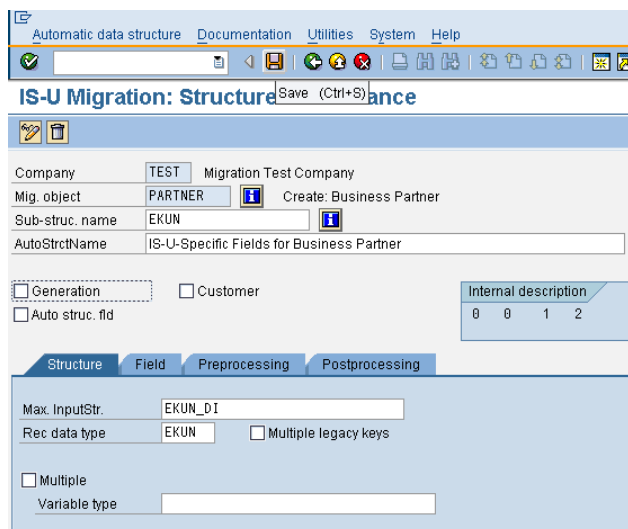
The screenshot shows the 'IS-U Migration: Object Maintenance' window for a custom object. The 'Company' is 'TEST' (Migration Test Company). The 'Mig. object' is 'ZMIGOBJECT' and the 'Mig. class' is 'BAPI'. The 'Mig. obj. text' is 'Custom FM for Customer Update KNA1'. The 'Mig. obj. abbr.' is 'TST' with a '3' in a box, and the 'Blocking Status' is '100' with the text 'Data import blocked'. The 'Object Data' tab is active, showing the 'Service module' as '/NPU/EM6_CUSTOMER_KNA1_UPDATE' with an 'Interface' button. The 'Auto struc.type' is 'ZM6_TEST_ZMIGOBJECT_AUTO' with a 'Mult. leg. keys' checkbox. The 'Return structure' is 'BAPI_NEW_KEY' with a checked 'Structure type' and the value 'TEMKSV'. There is an unchecked 'Internal Table' checkbox. The 'Return field' is 'DB_UPDATE'.

Now if you want to configure the structures inside this migration object PARTNER, and then just double click on the migration object, EMIGALL will give you all the structures which are there in this PARTNER object.

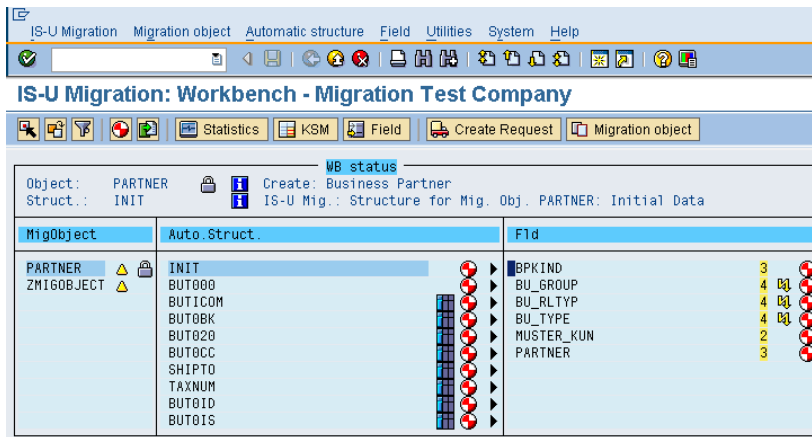
If you want to change any structure then just double click on the structure and go to **Automatic Structure** and then select **Change** in the menu as shown below



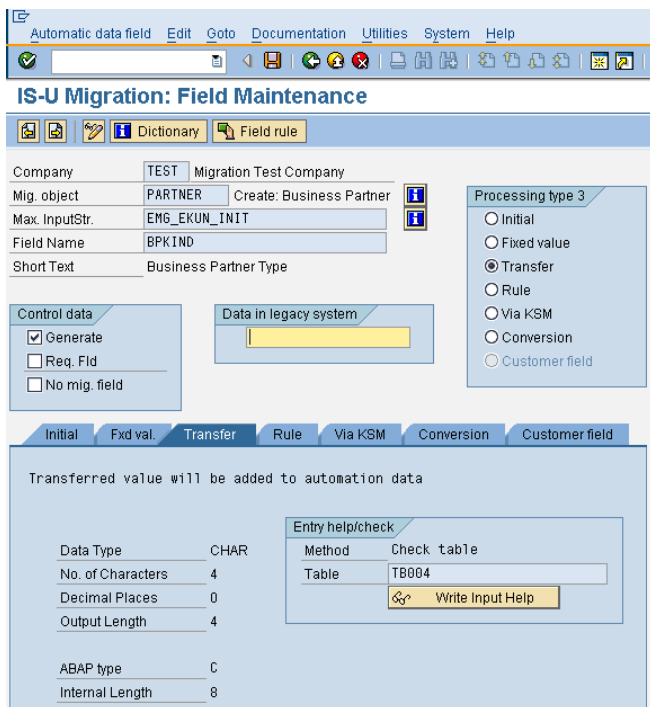
Suppose we do not want this structure then just uncheck the field **Generation**, and **Save** your setting as shown in the below screen:



Now you can see in the below screen your structure is deleted from the current list as below:



Now if you want to configure the fields within your structure then just double click on the field which you want to change then you will get the following screen:



Here EMIGALL has different options for your field configuration as mentioned below.

- In the EMIGALL field configuration you have to select first whether you want any specific field or not and that can be done by **Generation** check box.
- If your field is mandatory then select the check box **Req. Fld**
- If you do not want to use any migration field then select the check box **No. mig. Field**

Note: The check box is only used by SAP, hence this option should not be used. Instead if you do not want any field then just uncheck the Generation check box and Select the Processing Type as Initial.

Apart from the above settings, one more key setting i.e. **Processing Type**, is there which is mandatory for each field. These are mentioned below:

1. Initial

This option will be used if you do not want a field, then just select this radio button and also select the Check Box Generation. After this configuration the particular field will not be used in your migration company.

The screenshot shows the 'Initial' tab in the 'IS-U Migration: Field Maintenance' window. The 'Processing type 3' section has the 'Initial' radio button selected. The 'Control data' section has the 'Generate' checkbox checked. The 'Data in legacy system' section is empty. The 'Transferred value will be added to automation data' section shows the following details:

Data Type	CHAR
No. of Characters	10
Decimal Places	0
Output Length	10
ABAP type	C
Internal Length	20

The 'Entry help/check' section shows the 'Method' as 'Explicit search help' and the 'Src help' as 'BUPA'. The 'Write Input Help' button is visible.

2. Fixed Value

If for any particular field you want to have fixed value for example **currency**, then you can make that by selecting this option.

But apart from selecting this option you have to also assign the specific fixed value in the second tab **Fxd val**, as shown below:

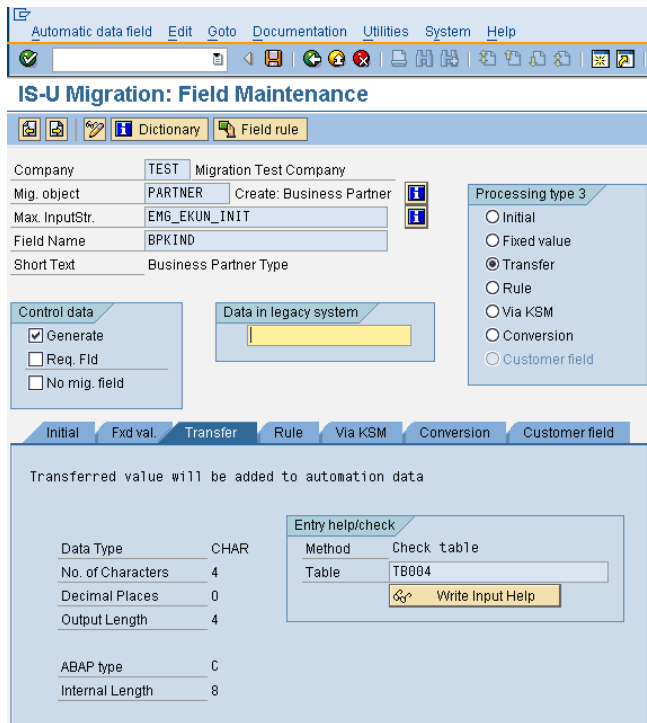
The screenshot shows the 'Fxd val' tab in the 'IS-U Migration: Field Maintenance' window. The 'Processing type 2' section has the 'Fixed value' radio button selected. The 'Control data' section has the 'Generate' checkbox checked. The 'Data in legacy system' section is empty. The 'Fixed value' section shows the following details:

Fixed value	EM6_MUST
FV description	Sample customer for creating SD customer
FV contents	MUST001

The 'String' radio button is selected in the 'Fxd Val.' section.

3. Transfer

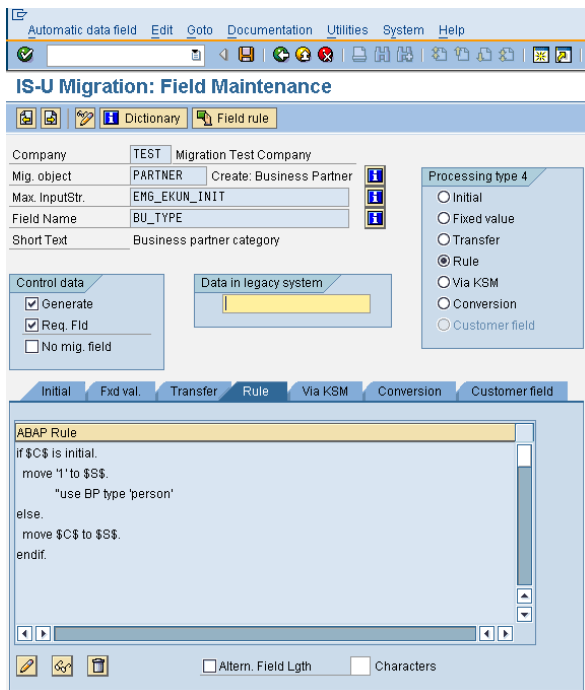
This option will be only used whenever either you will be supplying the value or transformation file will have the value for this particular field.



The screenshot shows the 'IS-U Migration: Field Maintenance' window with the 'Transfer' tab selected. The 'Processing type 3' section has 'Transfer' selected. The 'Data in legacy system' section is empty. The 'Control data' section has 'Generate' checked. The 'Entry help/check' section shows 'Method: Check table' and 'Table: TB004'. The 'Data Type' is CHAR, 'No. of Characters' is 4, 'Decimal Places' is 0, and 'Output Length' is 4. The 'ABAP type' is C and 'Internal Length' is 8.

4. Rule

This option will be used if you want to set some ABAP rule for some fields like if this field has initial value then select 1, else select the value given in the file.



The screenshot shows the 'IS-U Migration: Field Maintenance' window with the 'Rule' tab selected. The 'Processing type 4' section has 'Rule' selected. The 'Control data' section has 'Generate' and 'Req. fld' checked. The 'ABAP Rule' section contains the following code:

```

ABAP Rule
if $$$ is initial.
  move '1' to $$$
  "use BP type 'person'
else.
  move $$$ to $$$
endif.
  
```

The 'Altern. Field Lgth' and 'Characters' checkboxes are unchecked.

5. Via KSM

If in some fields you want to refer some previously migrated object then that can be achieved by this option Via KSM.

The screenshot shows the 'Field Maintenance' window in SAP IS-U Migration Workbench. The 'Via KSM' tab is active. In the 'Processing type 5' section, 'Via KSM' is selected with a radio button. The 'MigObject 1' field is populated with 'PARTNER', and the description 'Create: Business Partner' is shown next to it. Other tabs visible include 'Initial', 'Fixed val.', 'Transfer', 'Rule', 'Conversion', and 'Customer field'. The 'Control data' section has 'Generate' checked, and 'Req. Fld' is also checked. The 'Data in legacy system' section has an empty text field. The 'KSA control' section has 'Gen. KSM indic.' and 'Gen. Obj. Field' unchecked. The 'Object Lock' section has 'Check lock' and 'Lock Object' unchecked.

Here you can also enter multiple migration objects as per your project requirements.

Notes: If the field is not visible, then the display options (menu path Field - Display list - All) will be used to display the complete field list.
Alternatively, mass entry (menu path Automation structure - Edit fields in structure) can be used to edit several field rules at the same time.

Generating the load report

Each time changes are made in the following area, a load report needs to be generated.

- the definition of the migration object
- auto data structure
- part of a field rule
- generation event
- the workbench or the generation program (for example SAP upgrade)

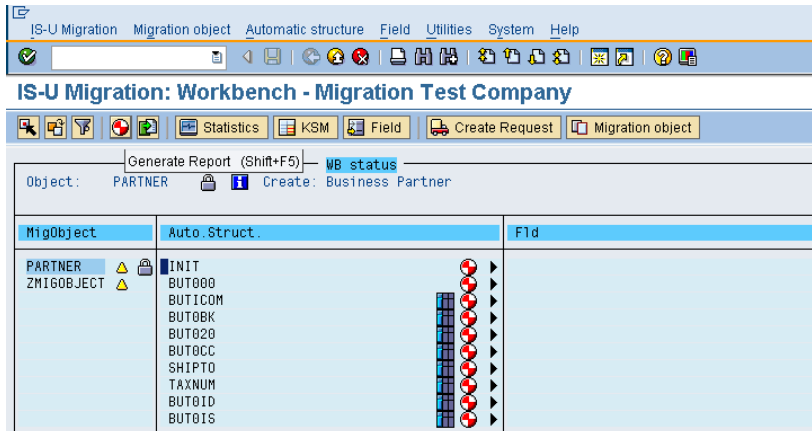
For generating the report either choose the function key 'Generate' or the menu path **MigObject - report - generate**.

In the migration workbench the situation of the load program is represented by the colored icon. A yellow icon means that report needs to be regenerated.

After doing all your structure and field configurations you can create a test field and migrate the test data in file editor. But before you go to file editor you have to generate a migration report for your migration object, otherwise you won't be able to go to the File Editor.

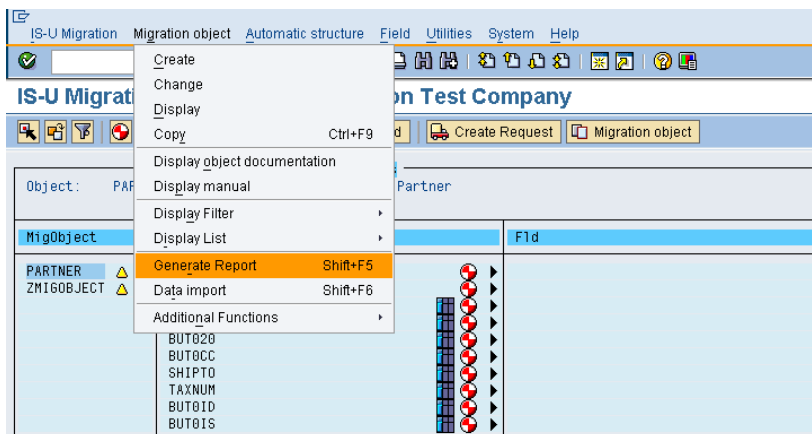
Report for Migration object can be generated as below:

First double click on your migration object and just click on the button **Generate Report** as shown below:

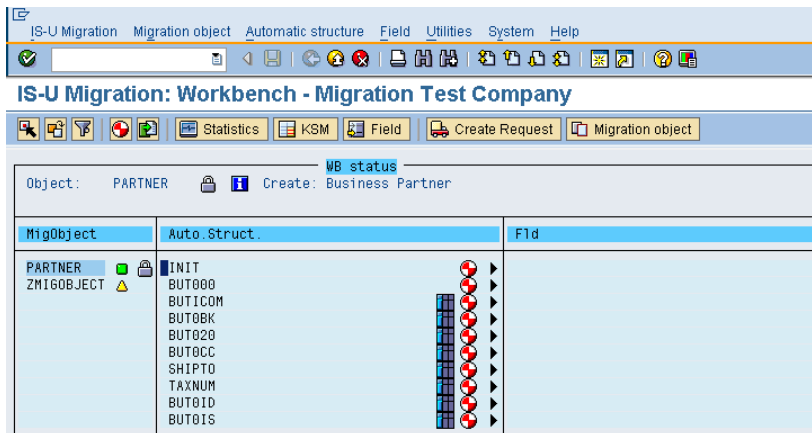


This can also be done through menu option as

Go to Migration object and then select the option as Generate the report, as shown below:



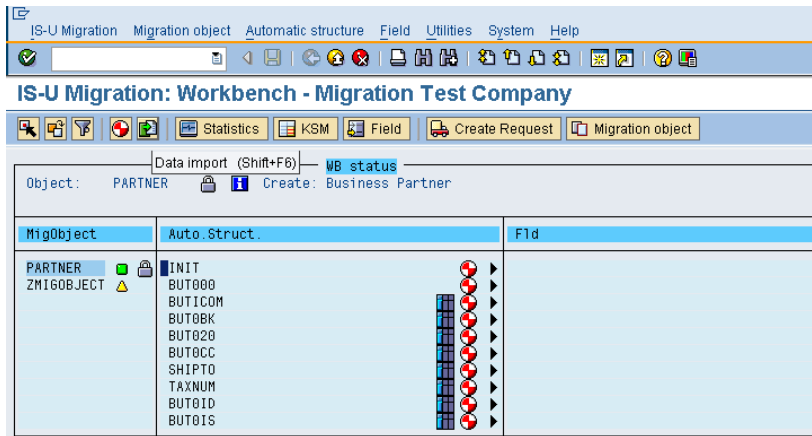
After this the yellow triangle icon just beside your migration object name will turn as green, as shown below:



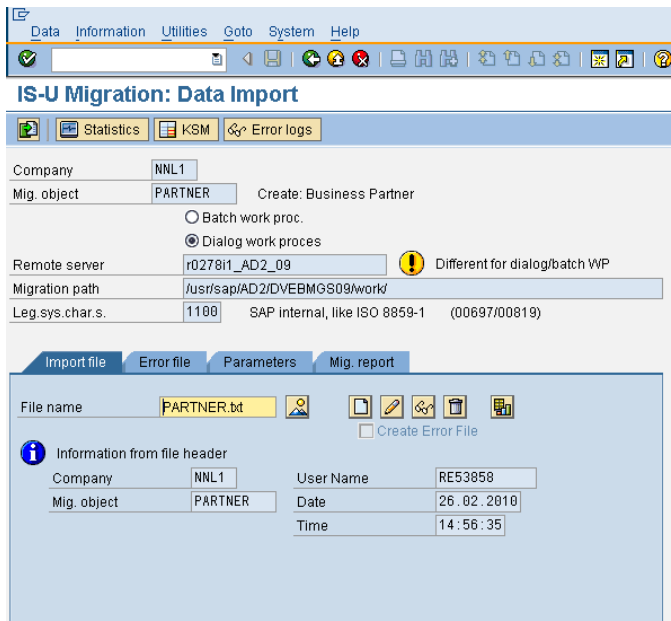
Data loading using a file editor

Now let us go to the file editor where we can actually migrate our test data.

For file editor first double click on your migration object and then click on the button **Data Import** as shown below:



After that you will get the following screen:



In this screen you can see the following details:

- Migration object name
- Migration company name
- Remote server
- Migration Path given at the company level
- Options for migrating the file in Dialog or Batch process

In this file editor EMIGALL will auto populate the file name as <<migration object name>>.txt

You can very well change this name if you do not like.

After this you have to click on the Create button just beside the file name as shown in below:

IS-U Migration: Data Import

Company: NN1
Mig. object: PARTNER Create: Business Partner

☐ Batch work proc.
☒ Dialog work process

Remote server: r027811_AD2_09 ! Different for dialog/batch WP
Migration path: /usr/sap/AD2/DVEBMGS09/work/
Leg.sys.char.s.: 1100 SAP internal, like ISO 8859-1 (00697/00819)

Import file | Error file | Parameters | Mig. report

File name: PARTNER.txt Create

Information from file header

Company	NN1	User Name	RE53858
Mig. object	PARTNER	Date	26.02.2010
		Time	14:56:35

After that we will get the following screen where we can create our new file or also change existing file.

IS Migration: Process Import File PARTNER.txt

Data Object | Data Structure | Update | Data Object | Runtime Object

Comp.: NN1 Name: RCD-418003
MgObj.: PARTNER Date: 28.02.2010 Time: 10:09:20

Lngr	Legacy System Key	DType	Data part
List contains no data			

Here you have to first create the data object, just by clicking on the button **Data Object** in the menu as shown below:

IS Migration: Process Import File PARTNER.txt

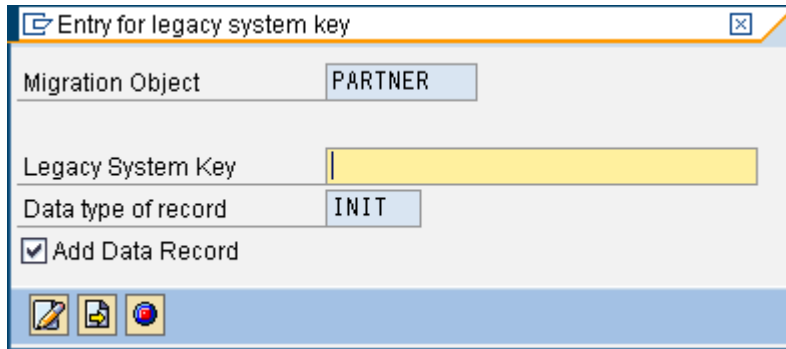
Data Object | Data Structure | Update | Data Object | Runtime Object

Create Data Object (F5)

Comp.: NN1 Name: RCD-418003
MgObj.: PARTNER Date: 28.02.2010 Time: 10:09:20

Lngr	Legacy System Key	DType	Data part
List contains no data			

After that you will get the following pop-up:



Entry for legacy system key

Migration Object: PARTNER

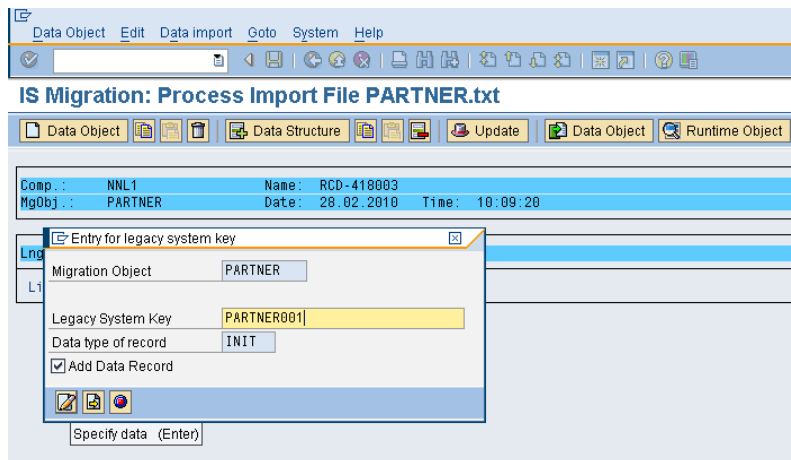
Legacy System Key:

Data type of record: INIT

☒ Add Data Record

Icons:

In this pop-up we have to enter the legacy key, which will be unique for each record, for example we will enter as PARTNER001 and select **Specify Data** button as shown below:



IS Migration: Process Import File PARTNER.txt

Comp.:>NNL1 Name: RCD-418083
MgObj.: PARTNER Date: 28.02.2010 Time: 10:09:20

Buttons: Data Object, Data Structure, Update, Data Object, Runtime Object

Pop-up: Entry for legacy system key

Migration Object: PARTNER

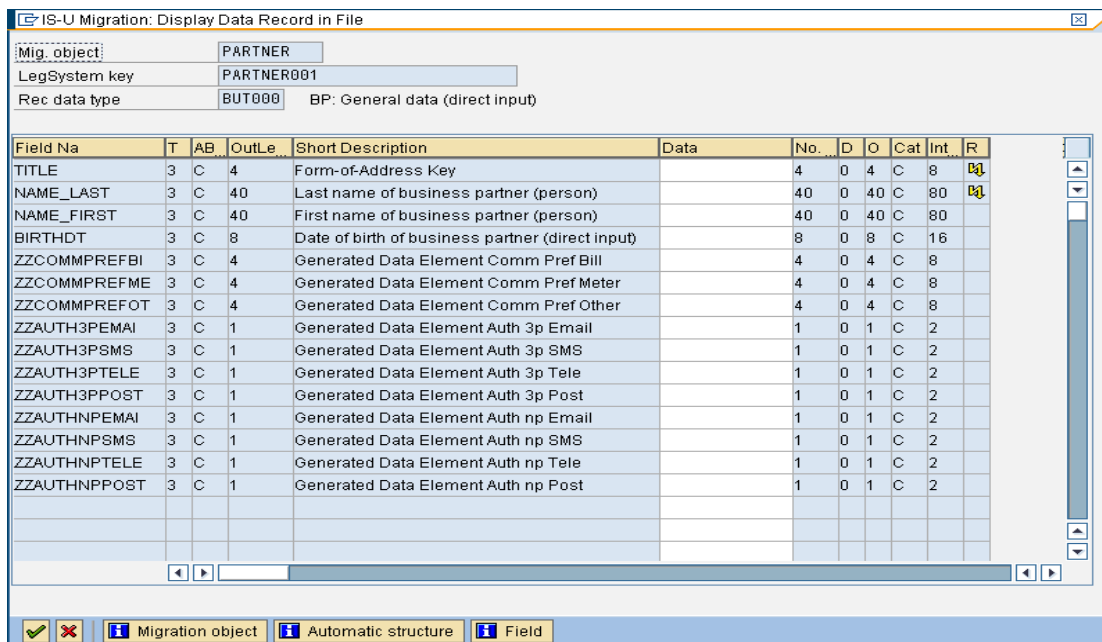
Legacy System Key: PARTNER001

Data type of record: INIT

☒ Add Data Record

Specify data (Enter)

After your selection system will give you pop-up to enter actual test data for all your structures and fields as shown below:



IS-U Migration: Display Data Record in File

Mig. object: PARTNER

LegSystem key: PARTNER001

Rec data type: BUT000 BP: General data (direct input)

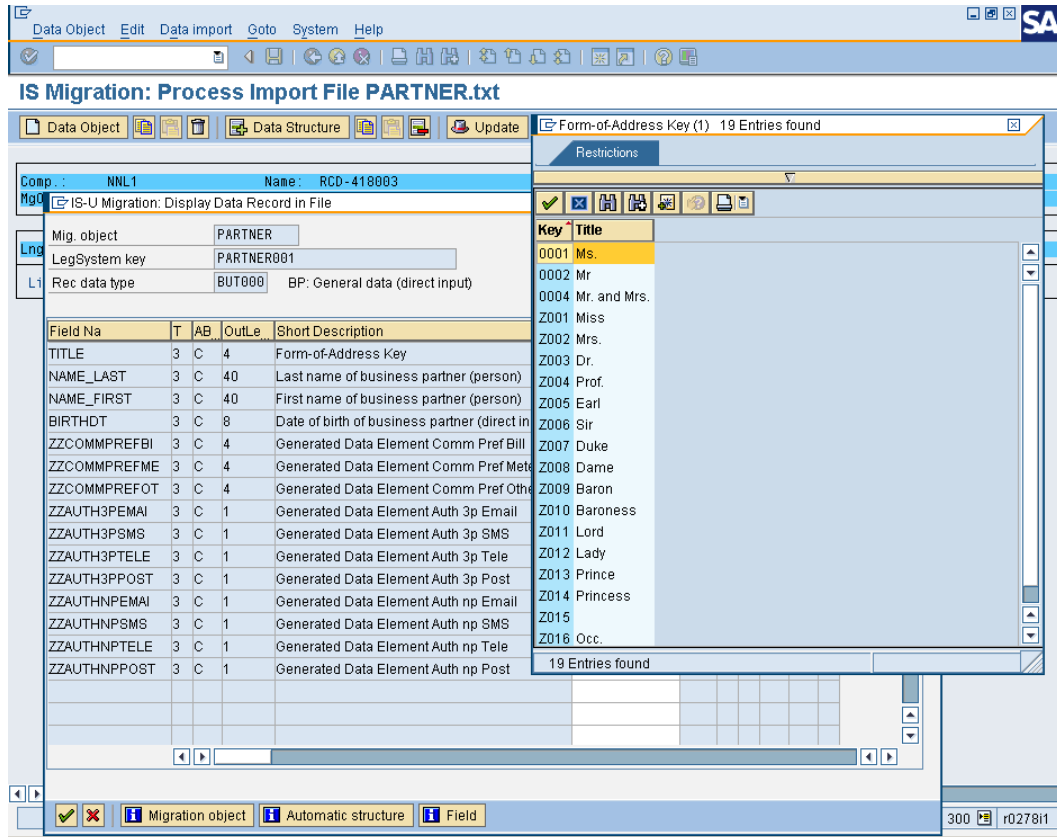
Field Na	T	AB	OutLe	Short Description	Data	No.	D	O	Cat	Int.	R
TITLE	3	C	4	Form-of-Address Key		4	0	4	C	8	00
NAME_LAST	3	C	40	Last name of business partner (person)		40	0	40	C	80	00
NAME_FIRST	3	C	40	First name of business partner (person)		40	0	40	C	80	
BIRTHDT	3	C	8	Date of birth of business partner (direct input)		8	0	8	C	16	
ZZCOMMPREFBI	3	C	4	Generated Data Element Comm Pref Bill		4	0	4	C	8	
ZZCOMMPREFME	3	C	4	Generated Data Element Comm Pref Meter		4	0	4	C	8	
ZZCOMMPREFOT	3	C	4	Generated Data Element Comm Pref Other		4	0	4	C	8	
ZZAUTH3PEMAI	3	C	1	Generated Data Element Auth 3p Email		1	0	1	C	2	
ZZAUTH3PSMS	3	C	1	Generated Data Element Auth 3p SMS		1	0	1	C	2	
ZZAUTH3PTELE	3	C	1	Generated Data Element Auth 3p Tele		1	0	1	C	2	
ZZAUTH3PPPOST	3	C	1	Generated Data Element Auth 3p Post		1	0	1	C	2	
ZZAUTHNPMAI	3	C	1	Generated Data Element Auth np Email		1	0	1	C	2	
ZZAUTHNPMSMS	3	C	1	Generated Data Element Auth np SMS		1	0	1	C	2	
ZZAUTHNPTELE	3	C	1	Generated Data Element Auth np Tele		1	0	1	C	2	
ZZAUTHNPPOST	3	C	1	Generated Data Element Auth np Post		1	0	1	C	2	

Buttons: Migration object Automatic structure Field

In the above screen you can see all the configured field details where processing type is other than **Fixed Value**. Because SAP is storing the fixed value within the EMIGALL, hence you do not have to again provide the same.

Also you can see here, which field you have configured as optional and mandatory.

Here you have option to select the value from the help by pressing F4 key as shown below for the field TITLE. This will give you a list of configured values in case field has the processing type as **Transfer** and KSM object values in case processing option is **Via KSM**:



So if you enter all the required fields then you will be able to migrate. Otherwise system will give you an error message.

Let us leave some mandatory fields as Blank as shown below:

IS-U Migration: Display Data Record in File

Mig. object: PARTNER
 LegSystem key: PARTNER001
 Rec data type: BUT000 BP: General data (direct input)

Field Na	T	AB	OutLe	Short Description	Data	No.	D	O	Cat	Int	R
TITLE	3	C	4	Form-of-Address Key		4	0	4	C	8	
NAME_LAST	3	C	40	Last name of business partner (person)	Jadhav	40	0	40	C	80	
NAME_FIRST	3	C	40	First name of business partner (person)		40	0	40	C	80	
BIRTHDT	3	C	8	Date of birth of business partner (direct input)		8	0	8	C	16	
ZZCOMMPREFBI	3	C	4	Generated Data Element Comm Pref Bill		4	0	4	C	8	
ZZCOMMPREFME	3	C	4	Generated Data Element Comm Pref Meter		4	0	4	C	8	
ZZCOMMPREFOT	3	C	4	Generated Data Element Comm Pref Other		4	0	4	C	8	
ZZAUTH3PEMAI	3	C	1	Generated Data Element Auth 3p Email		1	0	1	C	2	
ZZAUTH3PSMS	3	C	1	Generated Data Element Auth 3p SMS		1	0	1	C	2	
ZZAUTH3PTELE	3	C	1	Generated Data Element Auth 3p Tele		1	0	1	C	2	
ZZAUTH3PPPOST	3	C	1	Generated Data Element Auth 3p Post		1	0	1	C	2	
ZZAUTHNPMAI	3	C	1	Generated Data Element Auth np Email		1	0	1	C	2	
ZZAUTHNPMSMS	3	C	1	Generated Data Element Auth np SMS		1	0	1	C	2	
ZZAUTHNPTELE	3	C	1	Generated Data Element Auth np Tele		1	0	1	C	2	
ZZAUTHNPPOST	3	C	1	Generated Data Element Auth np Post		1	0	1	C	2	

Migration object Automatic structure Field

After entering all the data just click on **Complete Entry** button, to finish the data entry part as shown below:

IS Migration: Process Import File PARTNER.txt

Comp.:>NNL1 Name: RCD-418083
 MigObj.: PARTNER Date: 28.02.2010 Time: 10:09:20

Entry for legacy system key

Migration Object: PARTNER
 Legacy System Key: PARTNER001
 Data type of record: BUTCOM
☒ Add Data Record

Complete entry (F12)

After your selection you will get the following screen:

Lngr	Legacy System Key	DType	Data part
0026	PARTNER001	INIT	
0096	PARTNER001	BUT000	Jadhav
0026	PARTNER001	&ENDE	
FFFF			

For migrating this test data just select your record and click on **Import Data Object** button as shown below:

Lngr	Legacy System Key	DType	Data part
0026	PARTNER001	INIT	
0096	PARTNER001	BUT000	Jadhav
0026	PARTNER001	&ENDE	
FFFF			

As we have left one mandatory field as Blank, we will get the following error message:

Date/Time/User	Numb	External ID	Object bit	Sub-object text	Tran	Program	Mode	Log number
28.02.2010 10:26:28 RCD-4180	2	PARTNER	IS Migration Wo...	Normal error		SAPLEMSG	Dialog pro...	00000000000000160847

Ty	Message Text	LTxt
?	Field BUS000_DI-TITLE: An initial value is not allowed for required fields	?
?	Error during processing of legacy system key PARTNER001	?

So for correcting just click on the back button and re-enter the correct/missing data and again migrate the same.

After successful migration you will get the following screen:

IS Migration: Process Import File PARTNER.txt

Comp.:>NNL1 Name: RCD-418003
MgObj.: PARTNER Date: 28.02.2010 Time: 10:29:37

Lngr	Legacy System Key	DTyp	Data part
0026	PARTNER001	INIT	
0096	PARTNER001	BUT000	0002 Jadhav
0144	PARTNER001	BUT020	
0026	PARTNER001	&ENDE	
FFFF			

If you want to check the data in SAP transaction then just click on **Runtime Object** and you will get the details:

IS Migration: Process Import File PARTNER.txt

Comp.:>NNL1 Name: RCD-418003
MgObj.: PARTNER Date: 28.02.2010 Time: 10:29:37

Display Runtime Object (Ctrl+F10)

Lngr	Legacy System Key	DTyp	Data part
0026	PARTNER001	INIT	
0096	PARTNER001	BUT000	0002 Jadhav
0144	PARTNER001	BUT020	
0026	PARTNER001	&ENDE	
FFFF			

Business Partner 65002588 Jadhav / 400706 Mumbai

Display in BP role Business Partner (Gen.)

Validity Period 01.01.0001 - 31.12.9999

Address Address Overview Identification Control Payment Transactions Status Where-Used List Customer Data

Name

Title Mr.

First name

Last name Jadhav

Correspondence lang. EN English

Language EN English

Search Terms

Search Term 1/2

Standard Address

Print Preview

Street Address

Street/House number MG Road

Postal Code/City 400706 Mumbai

Country IN India Region

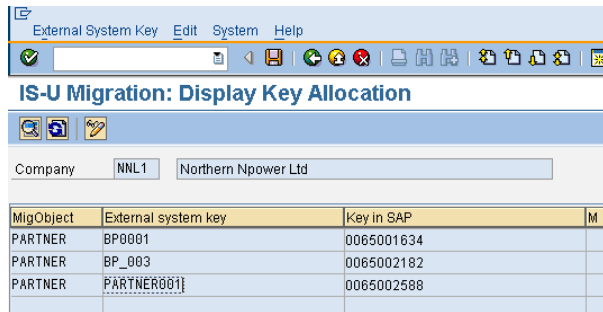
Time zone INDIA

PO Box Address

PO Box

Here you can check all your data which you have entered in the test file before loading.

For every record migrated you can also check the KSM for your legacy key and SAP generated key as shown below:



MigObject	External system key	Key in SAP	M
PARTNER	BP0001	0065001634	
PARTNER	BP_003	0065002182	
PARTNER	PARTNER001	0065002588	

File editor can be used only for small volume of data, if we have to migrate the data volumes, for example 10 millions, then EMIGALL has a Distributed import which we can use.

Data loading using Distributed Import

The distributed import function acts as load distributor for the import of large quantities of data.

A distributed import run will be created in the migration workbench to import the data. The following parameters can be set in the import run:

- Migration path (defaulted to SAP application server)
- Load file name
- Error file name
- Number of background processes to be used to load data
- File size in the number of data records for distributed import. (This setting determines the number of records in the split file).

This distributed import run can be scheduled to run in the background or can be started immediately.

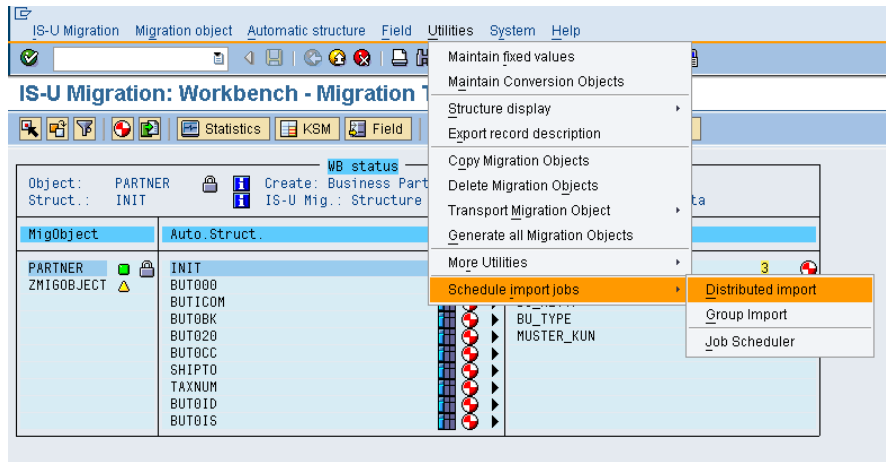
Before starting distributed run we need to make sure that all the performance related SAP notes and settings are done by the SAP BASIS team.

For these settings we can refer the standard SAP documentation which is attached below:

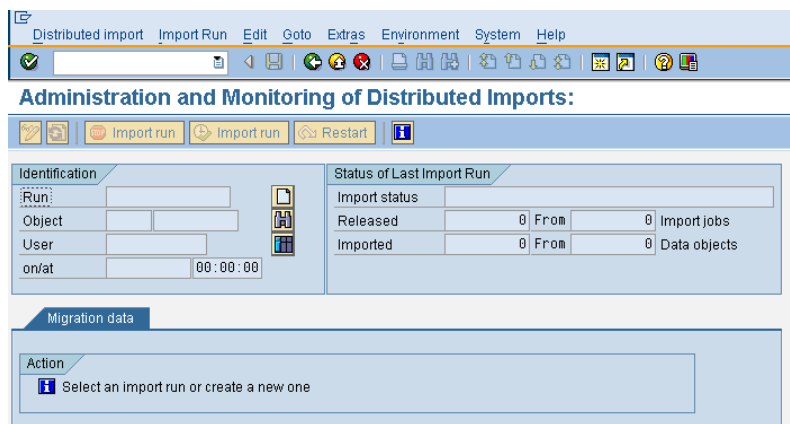


For going into the distributed import, go to Utilities→Schedule Import Jobs→Distributed Import

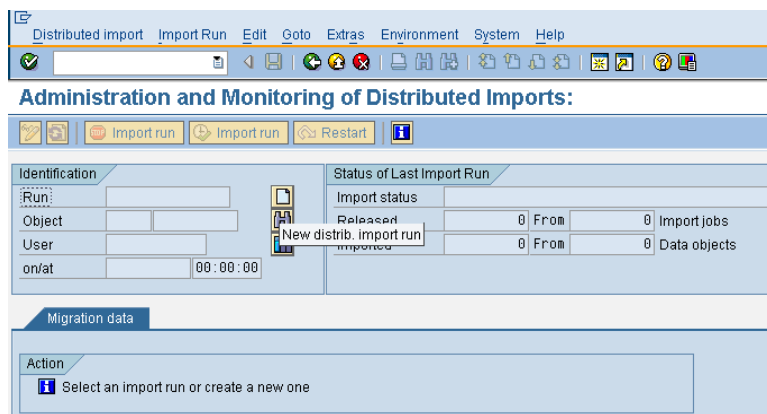
As shown below:



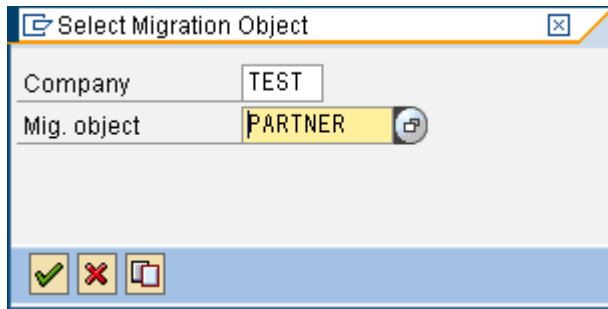
Here first you have to define the Distributed import runs:



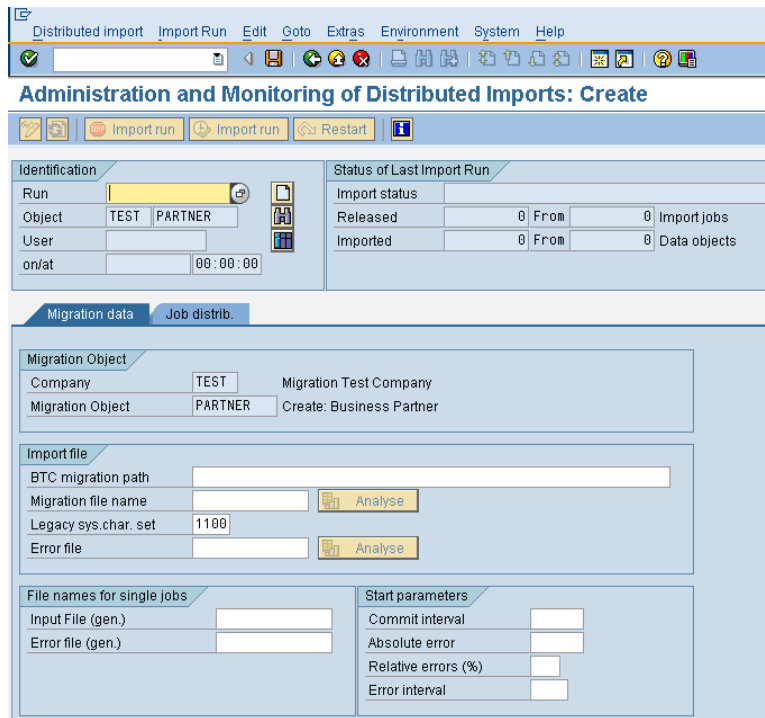
For creating a new Run click on New distributed import run as shown below:



Then enter your object in the below pop-up and click on continue:



After that you will get the following screen:



Here we have to enter the details as below:

- Migration Path
- File Name
- Error File Name
- Commit Interval

After entering you can see the next tab **Job distrib**

Administration and Monitoring of Distributed Imports: Display

Identification

Run: PR001E
Object:>NNL PREMISE
User: RE53858
on/at: 09.02.2010 13:43:11

Status of Last Import Run

Import status: Completed
Released: 3 From 3 Import jobs
Imported: 103 From 103 Data objects

Migration data Job distrib. Data for last import Statistics for import runs

Migration Object

Company:>NNL Northern Npower Ltd
Migration Object: PREMISE Create: Premise

Import file

BTC migration path: /AtlasDir/
Migration file name: pr001e
Legacy sys.char.set: 1100
Error file: pr001e.err

File names for single jobs

Input File (gen.): pr001e&
Error file (gen.): pr001e.err&

Start parameters

Commit interval: 0
Absolute error: 0
Relative errors (%): 0
Error interval: 0

In the next tab you have to enter the following data:

- Mass Import File Size and
- No of Defined Background processes which we will be using for our job distribution

Administration and Monitoring of Distributed Imports: Display

Identification

Run: PR001E
Object:>NNL PREMISE
User: RE53858
on/at: 09.02.2010 13:43:11

Status of Last Import Run

Import status: Completed
Released: 3 From 3 Import jobs
Imported: 103 From 103 Data objects

Migration data Job distrib. Data for last import Statistics for import runs

Define distribution of import jobs

Serv. name	Defined	Active	BGD	UPD	UP2
r0370i1_AM2_05	3	0	20	1	1

Other Parameters

Mass Import file size: 50 Data Objects

Current Distribution

Work Processes

BGD: 20 UPD: 1
UP2: 1

Import Jobs

Defines: 3
Active: 0

Alt. Job Distribution
Job Distribution Descriptn
☐ Activate Alternative Job Distribution

Job Distrib.

After creating your distributed Run, you have to save and then Finally start your Import Run as shown below:

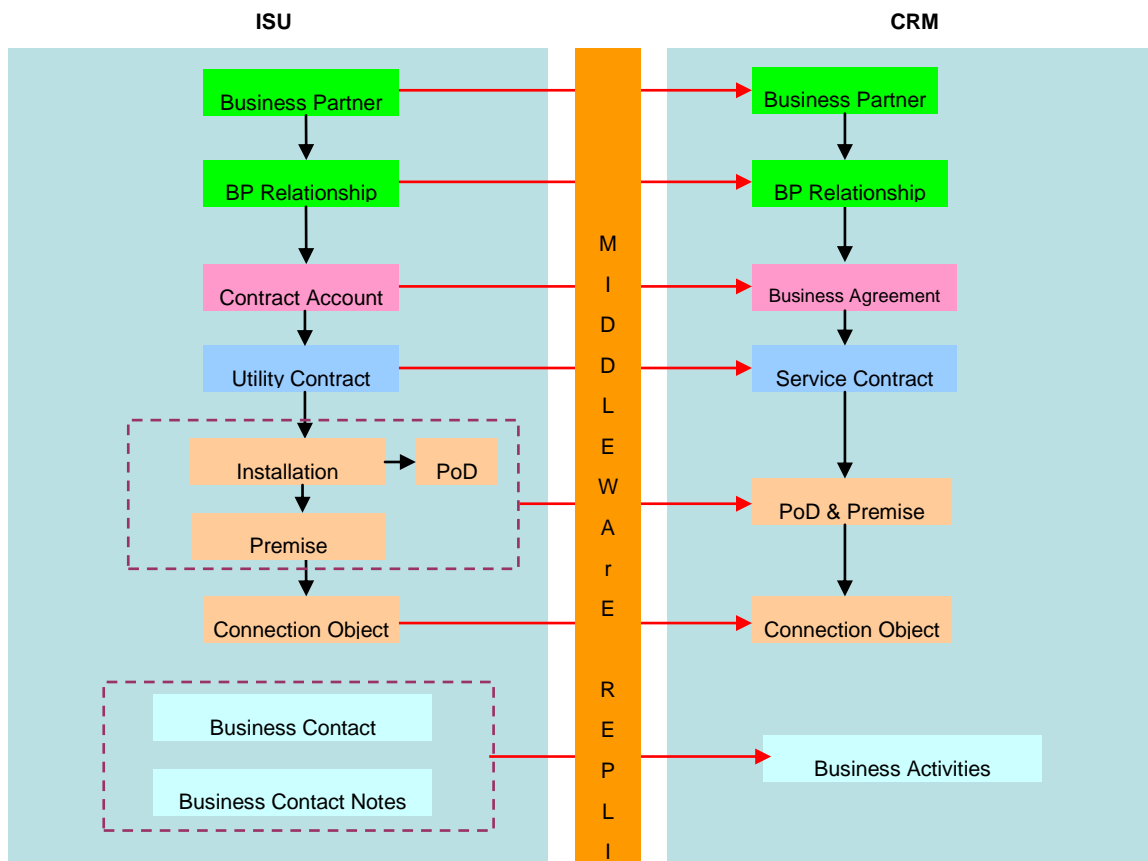
[illegible]

CRM Replication

There are few migration objects for which we will have to do the middleware replication into CRM system for e.g.

- PARTNER
- ACCOUNT
- BCONTACT & BCONT_NOTES
- EVERH

Following diagram explains you the details about the object relationship between the ISU and CRM systems:



The CRM Replication can be done by two methods as below:

- Initial Download and
- Request Down load

But as per recommendations from SAP Request download will give us a best performance and hence we should use the same.

Let us get some overview on how the request down load will be done.

There are 3 steps in this request download which are as below:

Display View "Request detail": Details

Request Name: ZDM_PARTNER

Request detail

Table Name	BUT000
Field Name	PARTNER
Incl/Excl	Inclusive defined set/array
Option	Equality (= Low)
Low	0065000888
High	

☐ Inactive

After entering the above details, just save the request.

For starting your request we have to go to the tcode R3AR4 and then you will see the following screen:

CRM Request Start

Request

Request Name: [] to []

Data flow

Source Site Name: []

Target Site Name: []

Here you have to enter your Request name, source system and target system as shown below and just Click on execute:

CRM Request Start

Request

Request Name: ZDM_PARTNER to []

Data flow

Source Site Name: AD2CLNT300

Target Site Name: CRM

Once executed you will get the following pop-up:

Document lines: Display messages

Type	Item	Message Text
005	ZDM_PARTNER	Object is in status Running

Here just click on Continue.

For monitoring your executed request, go to the tcode R3AR3 and will get the following screen:

Here you have to enter your request name and click on execute:

After that you will get the following screen which will give you an idea whether your request is successfully replicated or went into error, as shown below:

OK	Status	Request Name	Date	Time	Block	Source Site	Destination
	Done	ZDM_PARTNER	01.03.2010	11:35:21	1	AD2CLNT300	CRM

After this just go into CRM system, and check your replicated data.

Tips and Tricks

Below are some of the tips and tricks which are very useful while working with EMIGALL:

Partner

Notes:

- Structure BUTCOM is a repetitive structure in EMIGALL which will be used to migrate the landline number, mobile number, email and preferred communication channel for customers.
- The structure BUTCOM will be repeated for each type of communication for example- first repetition for landline number, then second for mobile, third for email and finally for the preferred communication channel.
- For each repetition the other fields relevant for other type of communication will have NULL value. For example if we want to migrate mobile number then email, preferred communication channel and landline numbers will be NULL
- Preferred communication channel data should be migrated in the last repetition using the structure BUTCOM otherwise the data will not be loaded.
- Structure BUT0BK is a repetitive structure in EMIGALL which will be used to migrate the multiple customer bank details.
- All the bank sort codes which are required during the migration should be already present in the system before migrating the customer bank details.
- Structure BUT020 is a repetitive structure in EMIGALL which will be used to migrate the multiple customer address details.
- Structure BUT021 is a repetitive structure which is used to assign specific address to specific address type.
- If customer has more than one address to migrate then, first BUT020 will be used to migrate all the multiple addresses and finally BUT021 will be used to assign the specific addresses to a specific address types.
- If customer has only one address and which will be only used as standard address in that case no need to assign the address to standard address type in BUT021.
- If customer has only one address and which will be used as both standard address and correspondence address, in that case assign the address to only correspondence address type in BUT021.
- Structure BUT0ID is a repetitive structure in EMIGALL which will be used to migrate the multiple special needs for a customer.
- Structure BUT0ID should have all the Fields as mandatory if this structure is populated.
- Structure BUT0CC is a repetitive structure in EMIGALL which will be used to migrate Multiple Card Details, Out of which one has to be made as Standard card using Field CCDEF.

Account

Notes

- Structure VKLOCK is a repetitive structure in EMIGALL which will be used for migrating different locks for example. Dunning lock, payment lock, etc. for already migrated business partner.

Docustat:**Notes:**

- All the statistical open items will be migrated without any sign after the amount value for example. 100.00 using the EMIGALL structure OP.
- All the statistical credit items will be migrated with a minus sign (-) after the amount value for example. 100.00- using the EMIGALL structure OP.

Document**Notes:**

- All the open items will be migrated without any sign after the amount value for example. 100.00 using structure OP and with a minus sign (-) after the amount value for example. 100.00- in the EMIGALL structure OPK.
- All the credit items will be migrated with a minus sign (-) after the amount value for example. 100.00- using structure OP and without any sign after the amount value for example. 100.00 in the EMIGALL structure OPK.

Dunning_Cs**Notes:**

- Structure TAB001 is a repetitive structure in EMIGALL
- Amount in structure TAB002 will be a sum of all the amounts from repetitive structure TAB001

Payment**Notes:**

- This object will be used to migrate the legacy payment data with reference to PARTNER, ACCOUNT and MOVE_IN or MOVE_IN_H and also with reference to DOCUSTAT object if any migrated for the business partner.
- All the incoming payments will be migrated without any sign after the amount value for example. 100.00
- All the outgoing payments will be migrated with a minus sign (-) after the amount value. For example. 100.00-

Related Content

[SDN: IS-U Migration Documentation...](#)

[IS-Utilities SDN Forum](#)

[SAP Library - SAP Utilities](#)

For more information, visit the [Customer Relationship Management homepage](#)

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