

# ALE Configuration Steps

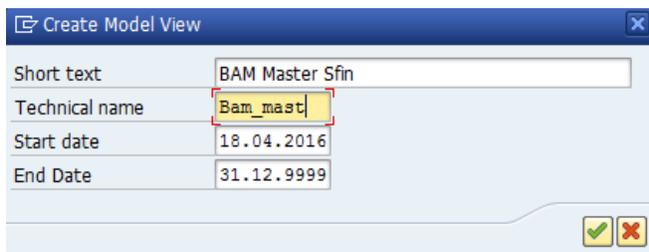
## Notes:

1. Make sure the Sender and Receiver systems are maintained correctly before you implement the steps below. Logic System Maintenance and Remote Connection Maintenance are necessary
2. In the steps blow, system W92 with client 500 is taken as an example of the Sender System and system U92 with client 012 is taken as the Receiver System.

## 1. Configure Distribution Model

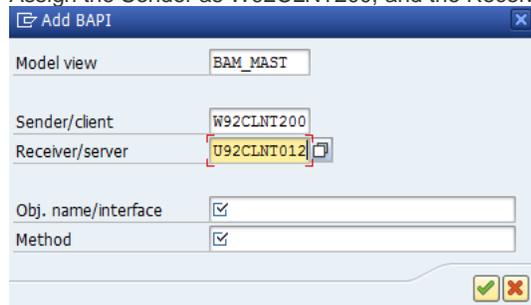
This is created in the original system (the sender system) and then distributed to other systems. To create the model, you need to enter a technical name for the model (a unique identifier in the system landscape), a sender system, a receiver system and message types to enable exchanges between those systems.

- A. In W92 client 200, go to Transaction **BD64**.
- B. Click on the **Change** button  to enter the edit mode.
- C. Click on the **Create Model View** button  and enter the short text of the model view name and technical name..



Short text	BAM Master Sfin
Technical name	Bam_mast
Start date	18.04.2016
End Date	31.12.9999

- D. Click on the **OK** button  to save and continue.
- E. Select the created model and click on the **Add BAPI** button .
- F. Assign the Sender as W92CLNT200, and the Receiver as U92CLNT012.



Model view	BAM_MAST
Sender/client	W92CLNT200
Receiver/server	U92CLNT012
Obj. name/interface	<input checked="" type="checkbox"/>
Method	<input checked="" type="checkbox"/>

- G. In the **Obj.name/interface** field, click on the **Input Help** button  to get the relevant **Business Object**.

Object name 500 Entries

Object name	Description
AssetInvestSupport	Assets: Investment Support
AssetPostCapitaliztn	Asset Post-Capitalization
AssetRetirement	Asset Retirement
AssetRevaluation	Assets: Revaluation
AssetReversalDoc	Asset Document Reversal
AssetSubCostRev	Assets: Subsequent Costs and Revenue
AssetTransfer	Assets: Transfer
AssetValueAdjust	Assets: Depreciation
AssetWriteUp	Assets: Write-Up
Assortment	Assortment
AssortmentList	Assortment list
Attendee	Attendee
EBFIncomingInvoice	EBF Incoming Invoice
BPContactPersonRel	Business Partner Contact Person Relationship
BPEmployeeRelation	Business Partner Employee Relationship
BPGenShareholderRel	Business Partner Relationship with Shareholding Data
BPShareholderRel	Business Partner Shareholder Relationship
BUSHBANK	House bank master data distribute
BackgroundJob	Externally controllable background (an interface)
Bank	Bank
BankAcctReplication	BAM Master Replication
BapiService	General service functions for BAPIs
Baxcode	SAP ArchiveLink bar code entry
Batch	Batch
BatchSpecMaterialUoM	Batch-specific material unit of measure
BudgetEntryDocFM	Budgeting Entry Document Funds Manage
BudgetEntryDocGM	Budgeting Entry Document Grants Management (Posted)
BudgetFM	Budget Funds Management
BuildingREFX	Building (RE-FX)
BusPartnerContact	Partner Sales Activity
BusPartnerEmployee	Business partner employee
BusProcStructureCO	Business Process Structure CO

H. Click on the **OK** button  to continue.

Add BAPI

Model view: BAM\_MAST

Sender/client: W92CLNT200

Receiver/server: U92CLNT012

Obj. name/interface: BankAcctReplication

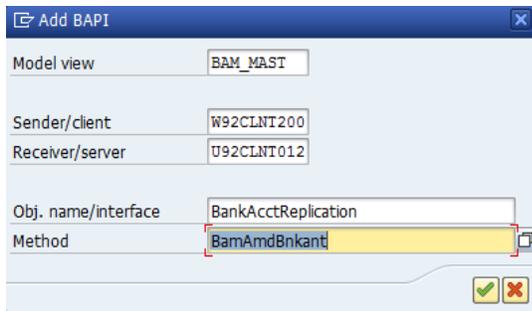
Method:

I. In the **Method** field, click on the **Input Help** button  to get the relevant **Method** assigned to the **Business Object**.

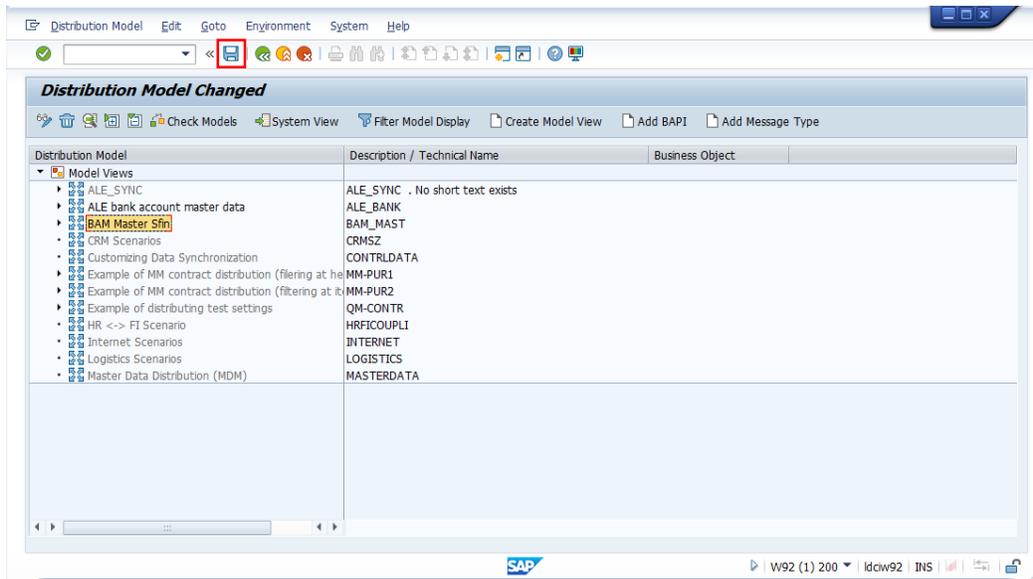
Method 1 Entry

Object name	Element	Description
BankAcctReplication	BamAmdBnkant	BAM Master Replication

J. Select the assigned method, and click on the **OK** button  to continue.



K. Click on the **OK** button  to save and continue.

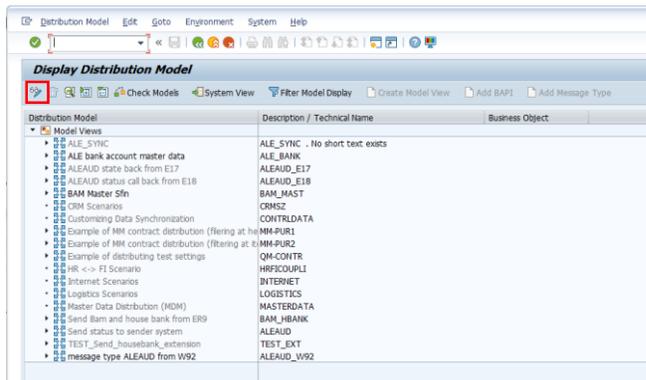


L. Go back to the main screen of Transaction **BD64**, click on the **Save** button  to save the model view.

FOR EXTEND use

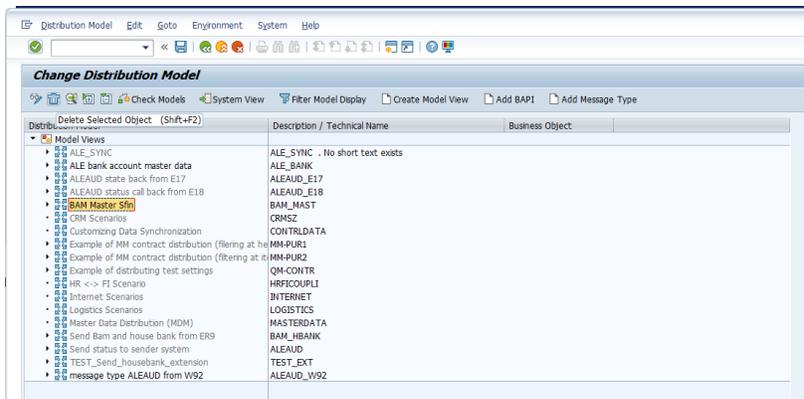
Refer to the following steps, if you need to implement a newly extended **BAPI**.

1. Click on the **Change** button  to enter edit mode.

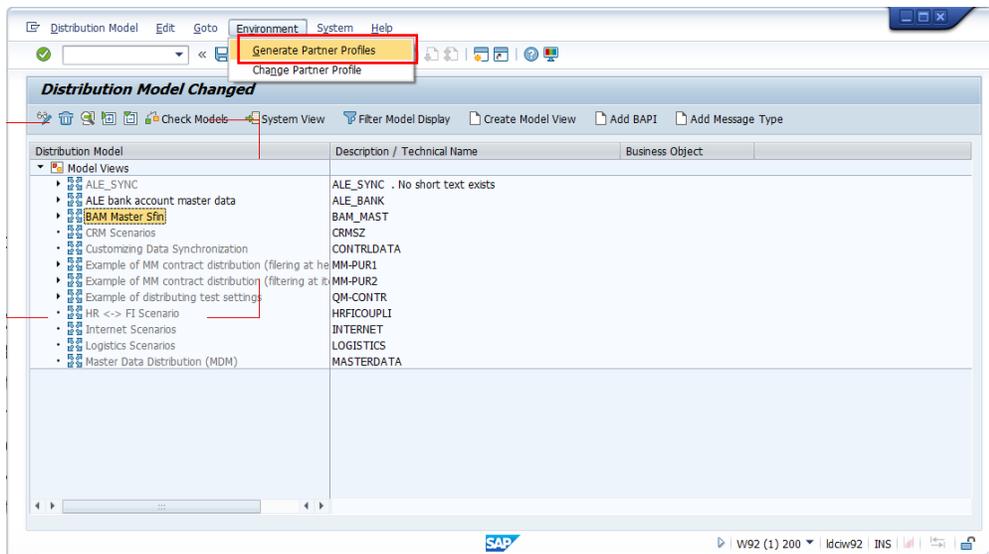


2. In the edit mode, select the previous Model View and click on the **Delete** button  to delete it.

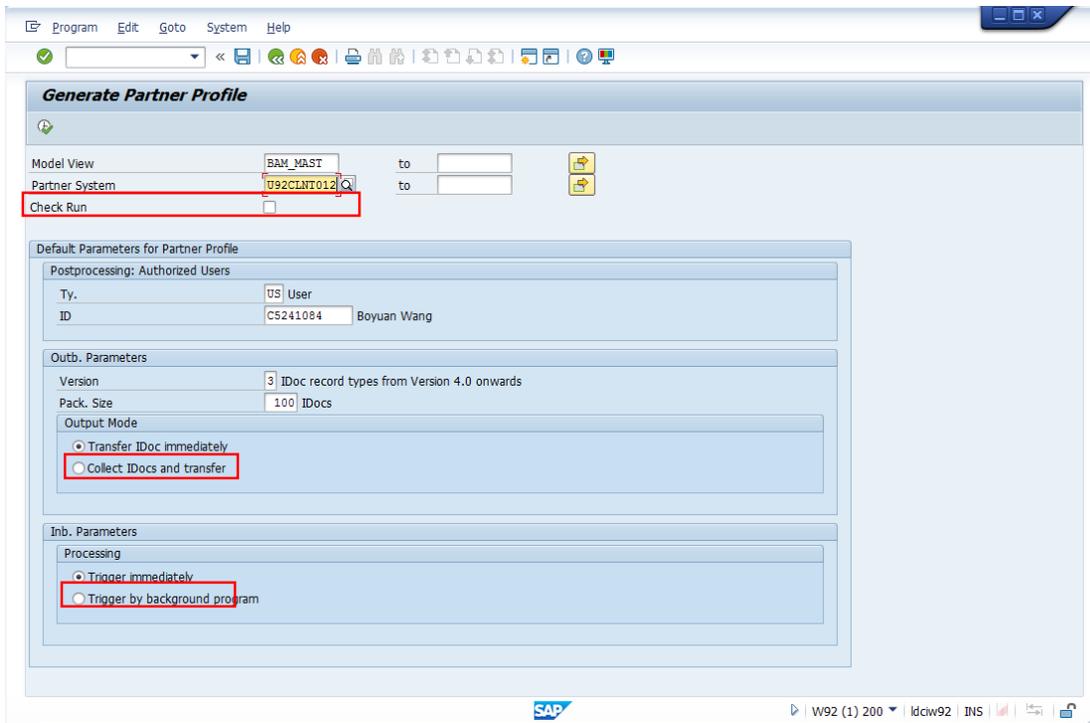
(If it's not in the edit mode, the *Delete* button is not available.)



3. Repeat the steps above to implement the new BAPI.
- M. Select the model view that you saved and choose **Environment -> Generate Partner Profiles** in the menu bar.

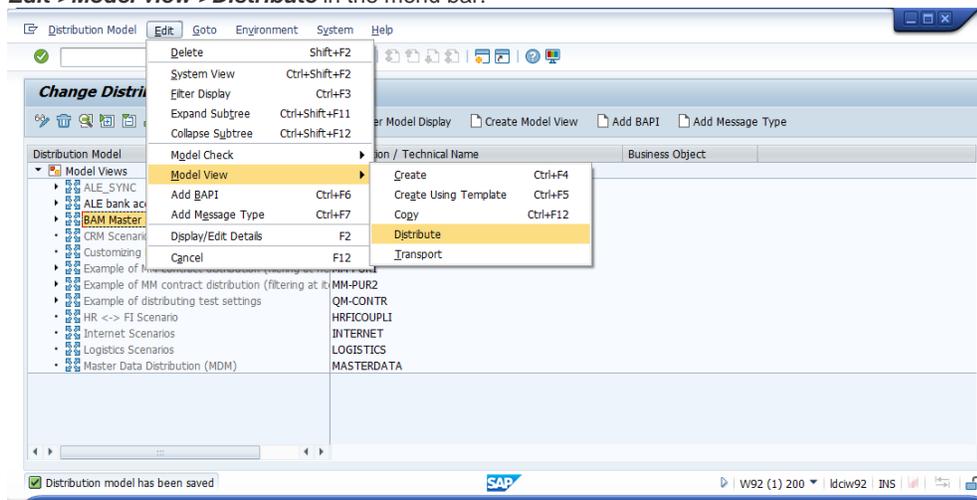


- N. Enter the Receiver system (U92 with client 012) in the **Partner System** field.
- O. Select the **Transfer IDoc Immediately** radio button in Output Mode and the **Trigger Immediately** radio button.



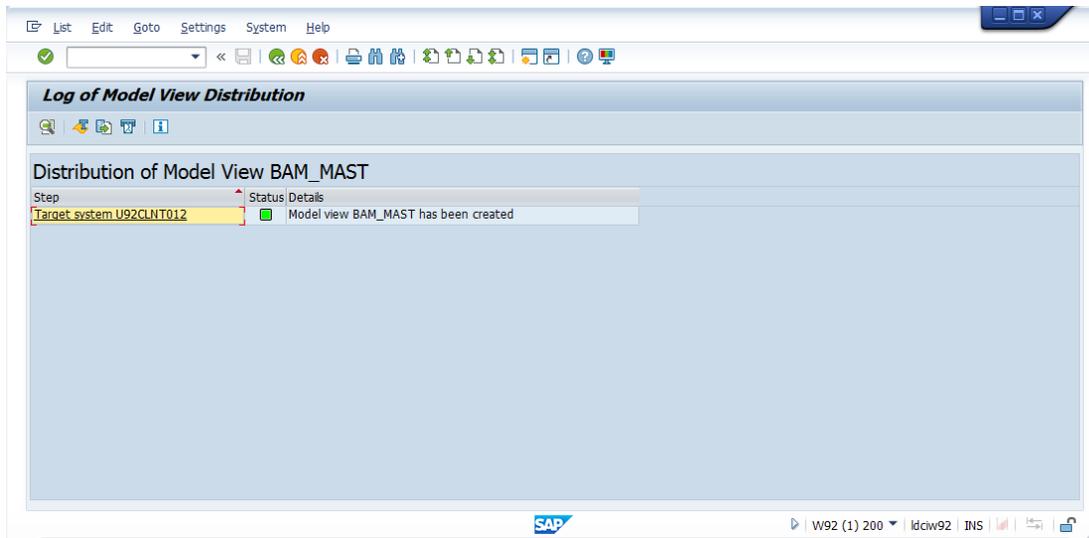
P. Click on the **Execute** button .  
You now get a list with the green status, which means it's executed successfully.

Q. Go back to main screen by clicking on the **Back** button  (F3) twice, select the model view, and choose **Edit->Model view->Distribute** in the menu bar.



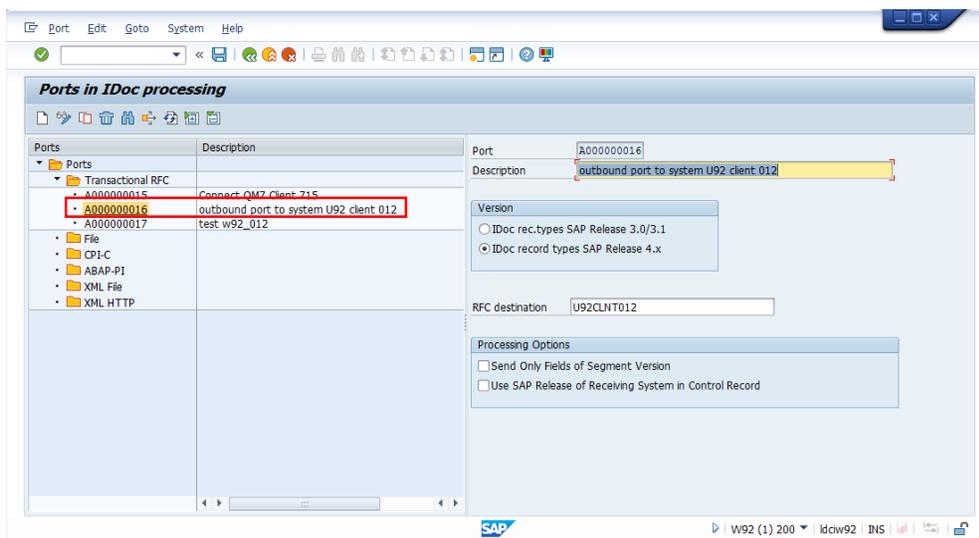
R. Make sure U92CLNT012 is checked as the receiver, and click on the **OK** button  to continue.

You now get a distribution list with the green status, saying that the model view is distributed successfully.



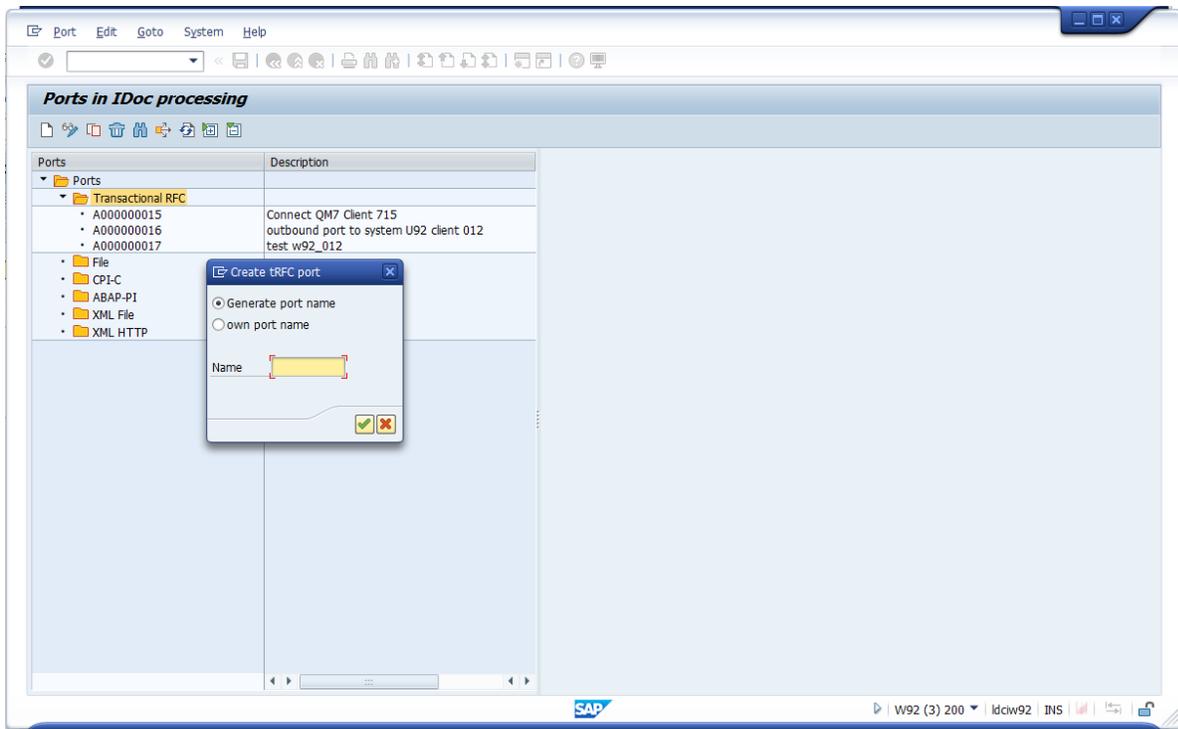
## 2. Configure and Check the Port

- A. In W92 Client 200, go to Transaction **WE21**.
  
- B. Choose **Ports -> Transactional RFC**, and find the port which is created by Transaction **BD64** as a RFC Destination for system U92 with client 012(Receiving system).

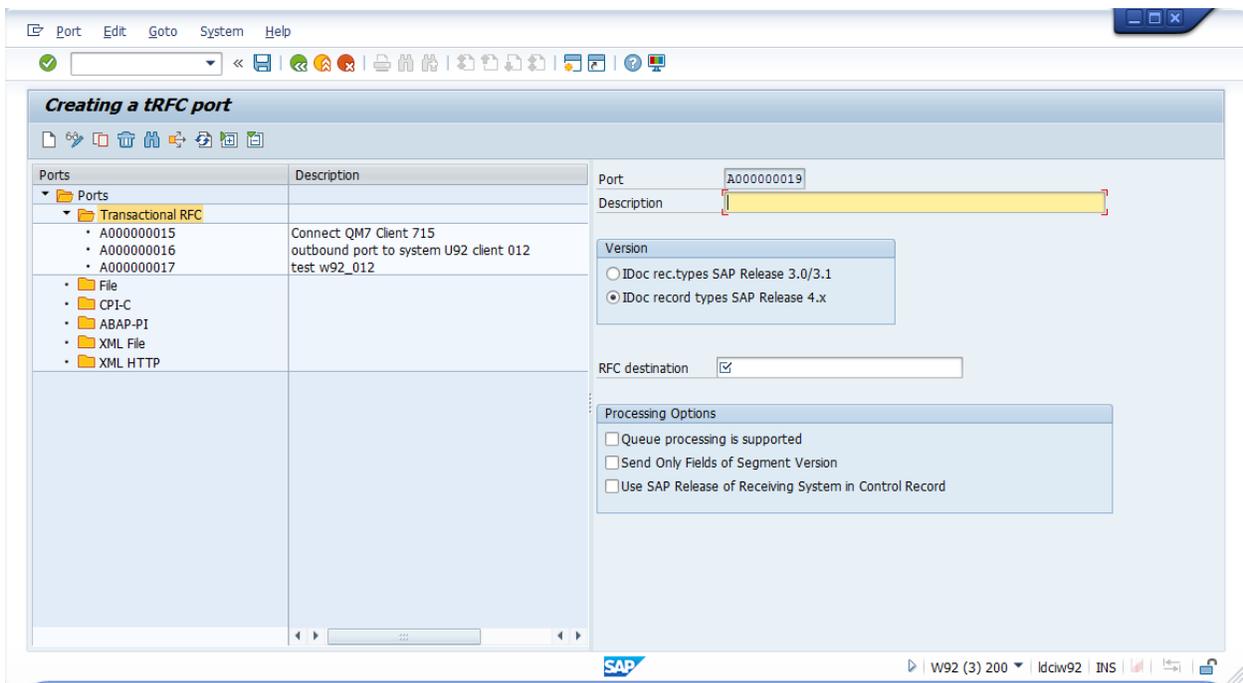


Note: If the port has not been generated, you need to create the port manually by the following steps:

1. To start creating a port, go to Transaction **WE21**.
2. Choose **Ports -> Transactional RFC** and click on the **Create** button .



3. Select **Generate port name** radio button and click on the **OK** button  to generate RFC port automatically and continue.



4. Enter the description in the **RFC destination** field and click on the **Input Help** button  to select system.
5. For example, select EBJ with client 200 as the receiver system.

RFC Destination	Description
E4E	generated by user CWB
E4F	generated by user CWB
E5V	generated by user CWB
E7G	generated by user CWB
E7S	generated by user CWB
E8X	generated by user CWB
E91	generated by user CWB
E91CLINT012	E91 Client 012
E91CLINT026	E91 Client 026
E91CLINT200	E91 Client 200
E91CLINT205	E91 Client 205
E91CLINT208	E91 Client 208
E91CLINT333	E91 Client 333
EAC	generated by user CWB
EAE	generated by user CWB
EBS	generated by user CWB
EBJ	generated by user CWB
EBJ client 200	Remote Destination as EBJ client 200
EBJTRUST	EBJTRUST
EBS	generated by user CWB
EE5	generated by user CWB
EE6	generated by user CWB
EE7	generated by user CWB
EEL	generated by user CWB
EF3	generated by user CWB
EGI	generated by user CWB
EI4	generated by user CWB
EI5	generated by user CWB
EI6	generated by user CWB
EI6_001	connect to EI6 001
EI7	generated by user CWB
EII	generated by user CWB

Port Edit Goto System Help

Creating a tRFC port

Ports	Description
Ports	
Ports	
Transactional RFC	
A000000015	Connect QM7 Client 715
A000000016	outbound port to system U92 client 012
A000000017	test w92_012
File	
CPI-C	
ABAP-PI	
XML File	
XML HTTP	

Port: A000000019  
Description: Outbound to EBJ client 200

Version:  
 IDoc rec.types SAP Release 3.0/3.1  
 IDoc record types SAP Release 4.x

RFC destination: EBJ client 200

Processing Options:  
 Queue processing is supported  
 Send Only Fields of Segment Version  
 Use SAP Release of Receiving System in Control Record

SAP W92 (3) 200 | ldcw92 | INS

6. Click on the **OK** button  to continue.
7. Click on the **Save** button .

### 3. Configure and Check the Partner Profile

- A. In W92 with client 200, go to Transaction **WE20**.
- B. Choose **Partner->Partner Type LS**.

- C. Select the Partner profile U92CLNT012 (the Receiver system).
- D. Double click **message type** (For example, 'BAMMAST' for BAM master data.) in the **Outbound parameters** block.

The screenshot displays the SAP 'Outbound parameters' configuration window for partner profile U92CLNT012. The 'Outbound Options' tab is selected, showing the following details:

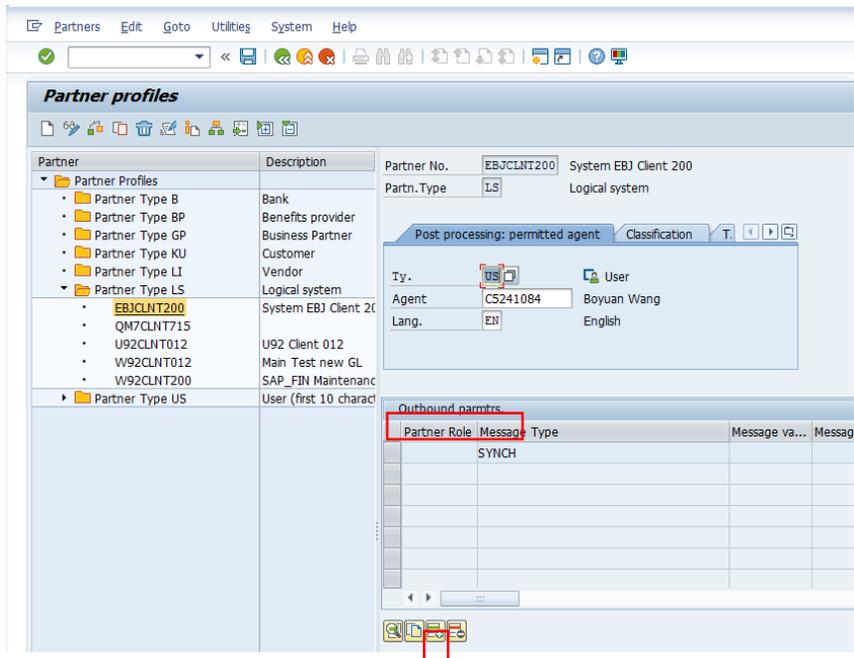
- Partner No.:** U92CLNT012 (U92 Client 012)
- Partn. Type:** LS (Logical system)
- Message Type:** BAMMAST (BAM Master Replication)
- Receiver port:** A000000016 (Transactional RFC)
- Pack. Size:** 100
- Output Mode:** Transfer IDoc Immed. (Selected), Collect IDocs
- IDoc Type:** Basic type: BAMMAST01 (BAM Master Replication)

- E. Select the **Transfer IDoc Immed.** radio button for Output Mode.

**Note:** If you cannot find the message type that was created in the **Partner profile**, you need to create an entry manually by the following steps:.

**Please follow these steps:**

1. Expand one Receiver system (For example, EBJCLNT200).
2. Click the **Create** button  in the **Outbound parameters** block.



3. Enter **Message Type, Receiver port, and Basic Type** (assigned to the Message Type).

(For example, 'HBHBMAST' stands for House Bank data replicate.)

4. Select the **Transfer IDoc Immed.** radio button in the **Output Mode** block.

Outbound parameters Edit Goto System Help

Partner profiles: Outbound parameters

Partner No. EBJCLNT200 System EBJ Client 200  
 Partn.Type LS Logical system  
 Partner Role

Message Type HBBAMAST  
 Message code  
 Message function Test

Outbound Options Message Control Post Processing: Permitted Agent Tel...

Receiver port A000000019

Output Mode  
 Transfer IDoc Immed.  Start subsystem Output Mode  
 Collect IDocs  Do not start subsystem

IDoc Type  
 Basic type HBBAMAST01  
 Extension  
 View  
 Cancel Processing After Syntax Error  
 Seg. release in IDoc type Segment Appl. Rel.

SAP

5. Click on the **Save** button .

Partners Edit Goto Utilities System Help

Partner profiles

Partner No. EBJCLNT200 System EBJ Client 200  
 Partn.Type LS Logical system

Post processing: permitted agent Classification

Ty. LS User  
 Agent C5241084 Boyuan Wang  
 Lang. EN English

Partner Role	Message Type	Message va...	MessageFu...	Test	Receiver p...	I...
	HBBAMAST			<input type="checkbox"/>	A000000019	1
	SYNCH			<input type="checkbox"/>	A000000019	1

Inbound parmtrs.

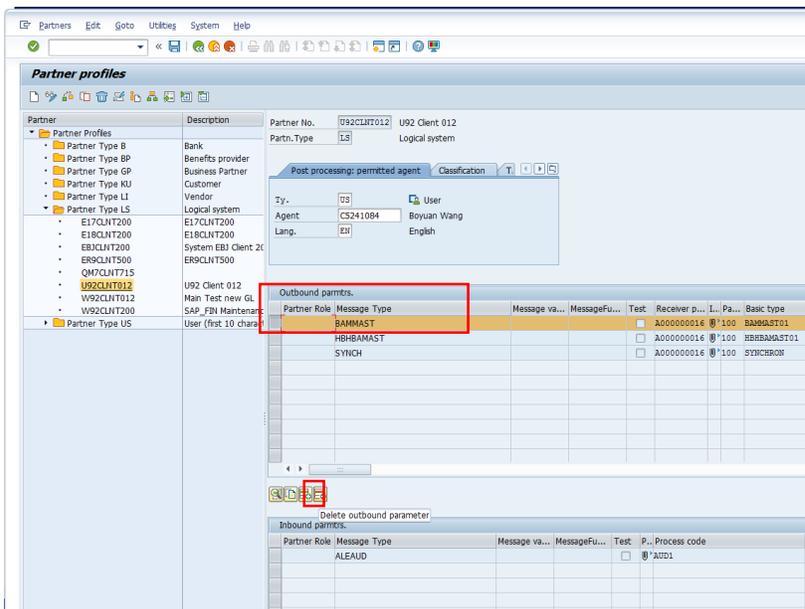
Partner Role	Message Type	Message va...	MessageFu...	Test	P..	Process code
				<input type="checkbox"/>		

FOR EXTEND use

Refer to the following steps, if you need to implement a newly extended **message type**.

To create a partner profile manually,

1. Select the previous message type and click on the **Delete** button  to delete in Outbound parameters.



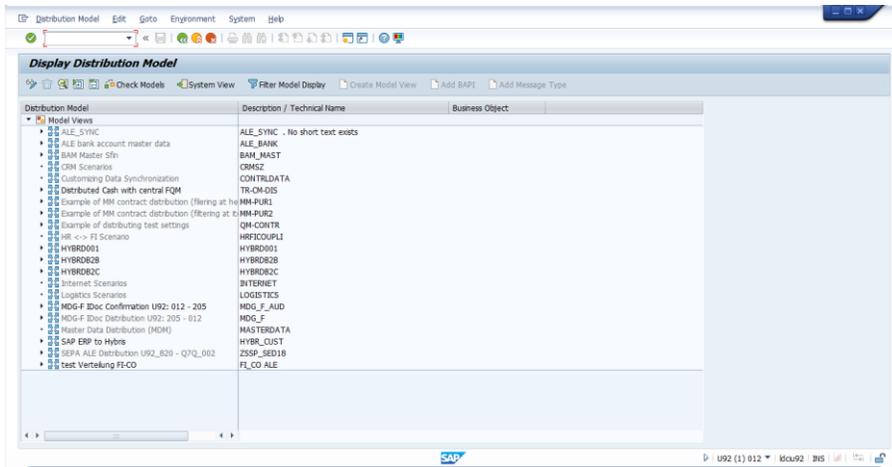
2. Repeat the steps abovementioned to create a new partner profile entry with the new message type.

#### 4. Configure ALE Audit

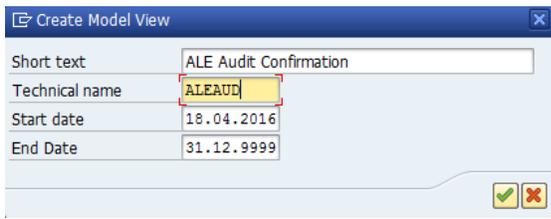
ALE Audit enables the sender system to monitor the processing status of dispatched IDocs in the receiver system. The receiver system periodically sends confirmations back to the sender system by SAP standard report **RBDSTATE**.

Before sending confirmations back to the sender system, the following steps of configuration should be set in the receiver system.

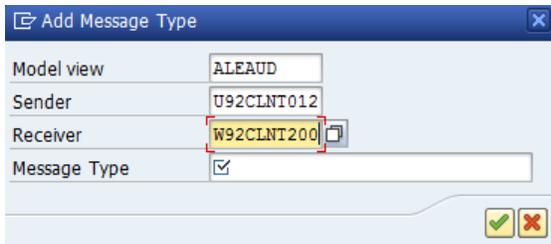
- I. **Configure another distribution use for sending ALE Audit confirmation**
  - A. In the **receiver system** U92 with client 012, go to Transaction **BD64**.



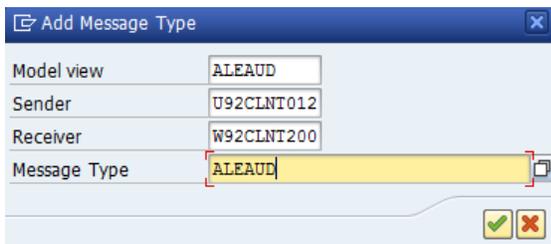
- B. Click on the **Change** button  to enter edit mode.
- C. Click on the **Create Model View** button .
- D. Fill out the **Short text** field with the Model view's name) and the **Technical name** field.



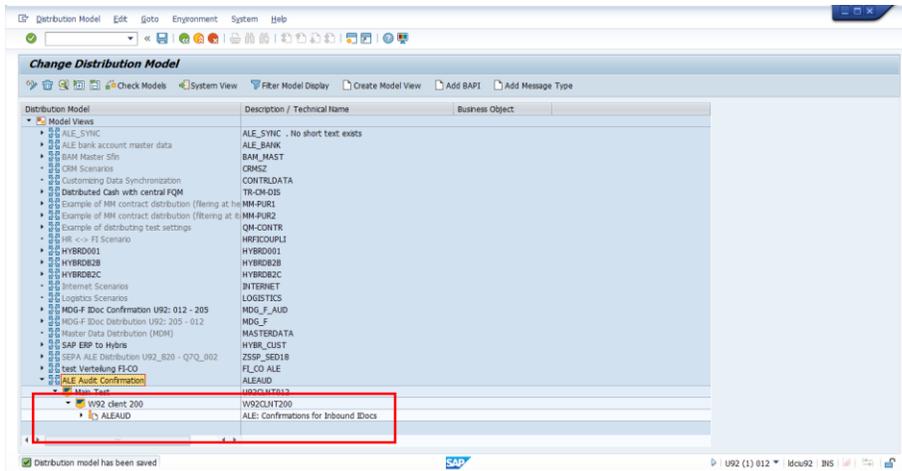
- E. Click on the **OK** button .
- F. Select the created model and click on the **Add Message Type** button .
- G. Assign the Sender as U92CLNT012, and the Receiver as W92CLNT200 (exchange the sender and receiver system.)



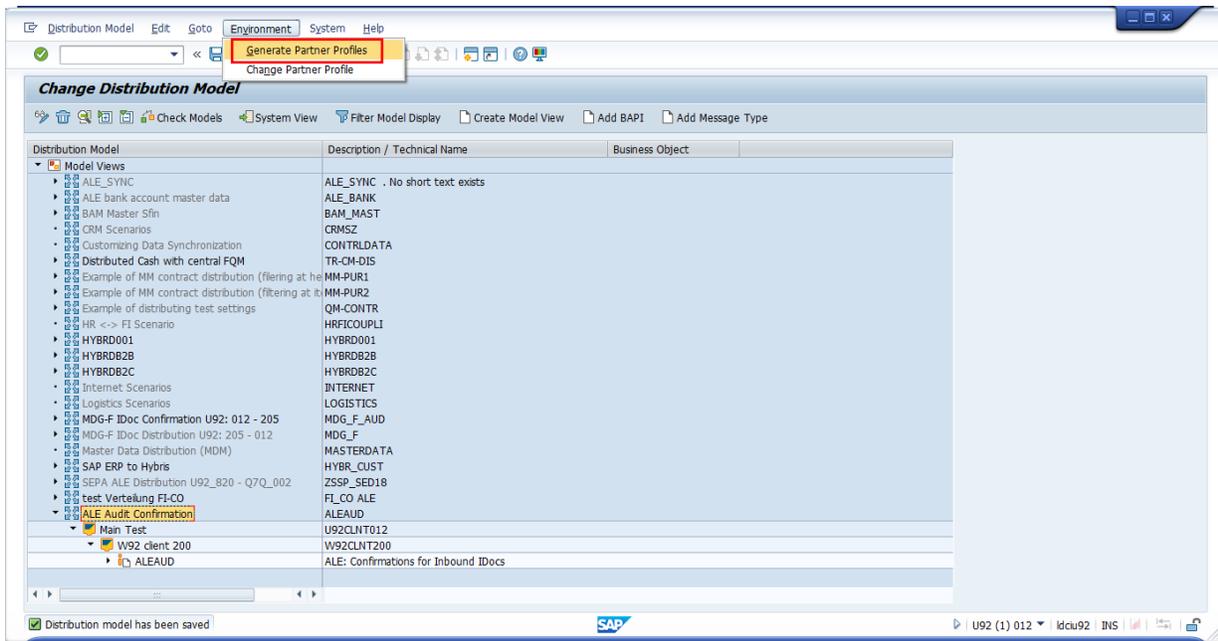
- H. Enter the standard message type **ALEAUD** for ALE Audit confirmation in the **Message Type** field.



- I. Click on the **OK** button .
- J. Go back to the main screen of Transaction **BD64**, and click on the **Save** button  to save the model view.

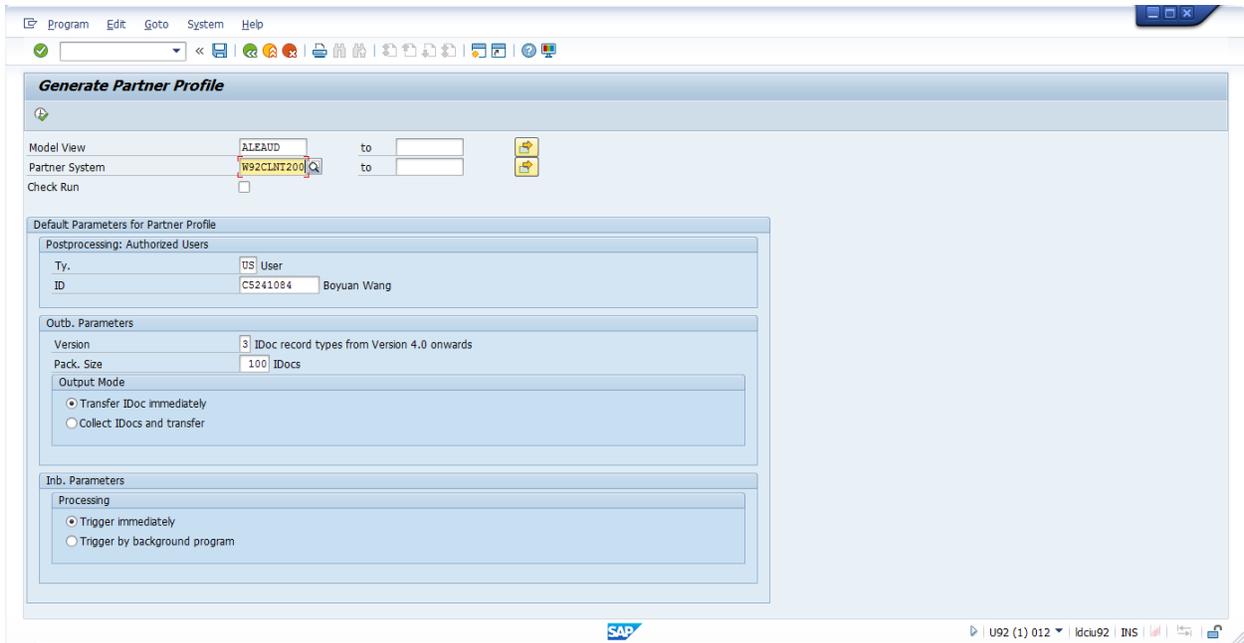


K. Select the model view that you saved and choose **Environment->Generate Partner Profiles** in the menu bar.

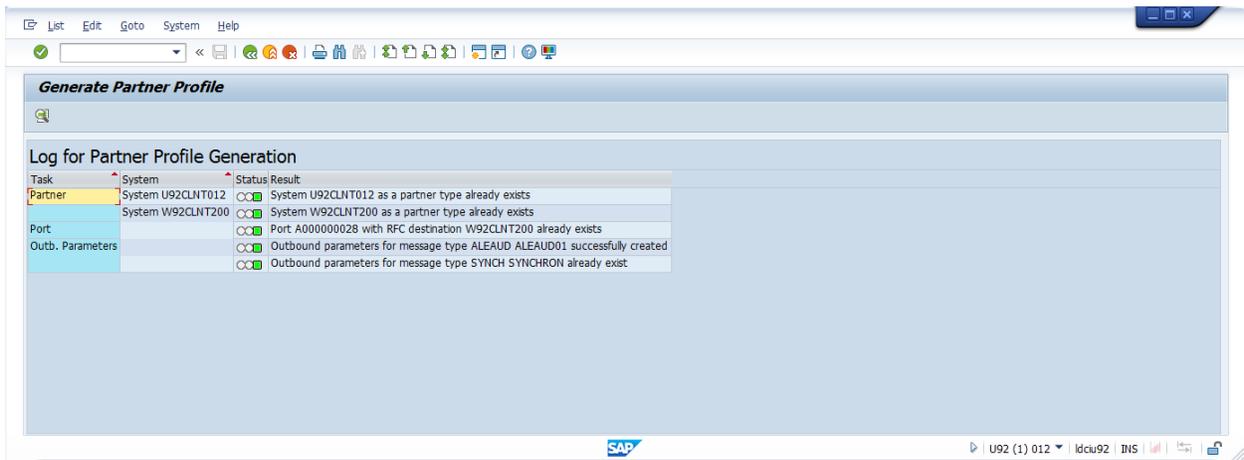


L. Enter the receiver system (W92 with client 200) in the **Partner System** field.

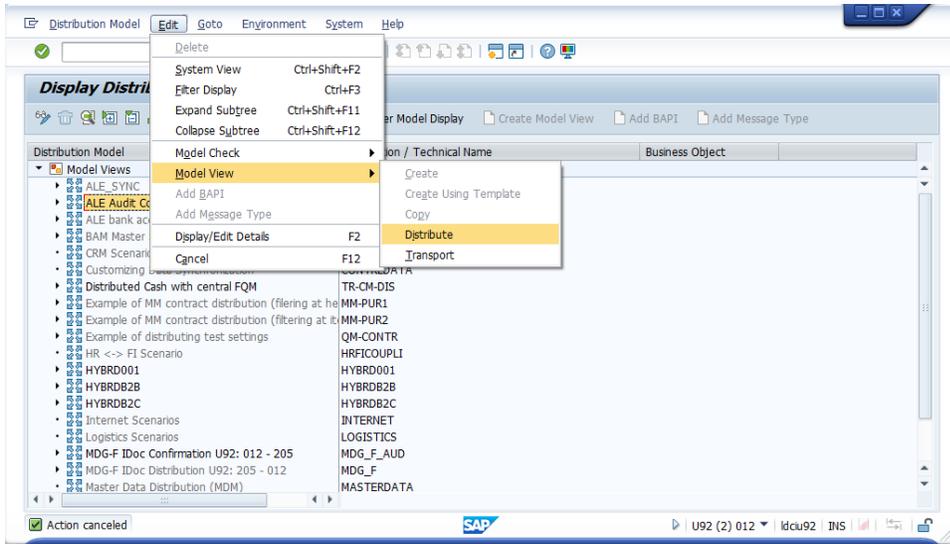
M. Select the **Transfer IDoc Immediately** radio button and the **Trigger Immediately** radio button.



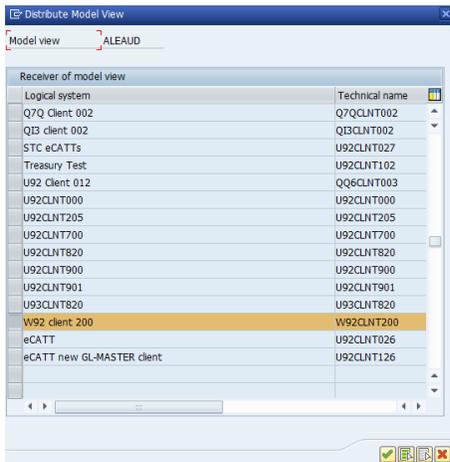
- N. Click on the **Execute** button  (F8).  
 You now should get a list with the green status, which means it's executed successfully.



- O. Go back to the main screen by clicking the **Back** button  (F3) twice, select the model view, and choose **Edit->Model view->Distribute** in the menu bar.



P. Make sure W92CLNT200 is checked as the receiver, and click on the **OK** button  to continue.



II. Now you get a distribution list with the green status, saying that the model view is distributed successfully. **Run SAP standard report RBDSTATE**

Notes: Usually the report is set as processing automatically. Below are the steps of basic run.

- Before running the report RBDSTATE, an IDoc has been sent to U92 with client 012.
- The final status is *03: Data passed to port OK*, which means the data have been sent to the receiver system.

**IDoc Display: 000000000205965**

Segments with Errors

IDoc display	Additional information	Short Technical Information
IDoc 000000000205965	Total number: 000003	Direction: 1 Outbox
Control Rec.	Segment 000001	Current Status: 03
Data records	Segment 000002	Basic type: BAMMAST01
E1BPS_BAM_AMD_BNKANT	Segment 000003	Extension:
E1BPS_BAM_AMD_TEXT		Message Type: BAMMAST
E1BPS_BAM_AMD_CUR		Partner No.: U92CLNT012
Status records		Partn.Type: IS
03	Data passed to port OK	Port: A000000016
IDoc sent to SAP system or external program		
30	IDoc ready for dispatch (ALE service)	
01	IDoc generated	

Fld Name	Fld Cont.
MANDT	200
ACC_ID	0000001677
BANKS	DE
BANKL	10020030
ACC_NUM	1511091364
ACC_TYPE_ID	01
VALID_FROM	20140101
VALID_TO	99991231
STATUS	02
BUKRS	0001
BENEFICIAL	SAP A.G.
COMPANY_CONTACT	WRNGYUJ

- C. In the receiver system (QM7 with client 715), go to Transaction **SE38**.
- D. Enter the report name **RBDSTATE** in the **Program** field, and click on the **Execute** button (F8).
- E. Enter W92 client 200 in the sender system, and fill out the **Message Type** field (For example, 'BAMMAST' stands for BAM data replication).
- F. Select the date in the **Data IDoc changed** field. Audit confirmation will be processed on those the IDocs created on the selected date

**Send Audit Confirmations**

Confirmation to System: W92CLNT200 to [ ]

Message Type: BAMMAST to [ ]

Message Variant: [ ] to [ ]

Message Function: [ ] to [ ]

Status: [ ] to [ ]

Date IDoc changed: 18.04.2016 to [ ]

- G. Click on the **Execute** button (F8).
- H. To check the return status, in the **sender system W92 with client 200**, go to Transaction **WE02**.

Notes: Status records generated from the confirmations **ONLY** contain the following values:

- 39 means that IDocs are in the receiver system (ALE Service) and still being processed (Usually this type of message means that the data posted failed in the receiver system.)
- 40 means that application document processing is not completed successfully in the receiver system.
- 41 means that application document is processed in the receiver system. (This type of message means the data processing has been completed successfully in the receiver system.)

The basic configuration of steps for ALE is completed.