ALE Settings, for Communication between a BW System and an SAP System



Applies to:

SAP ECC 6.0. For more details, visit the EDW homepage.

Summary

This document helps people to create ALE settings, which are needed for the communication between a BW System and an SAP System (ECC), are created in the background with the use of the created destinations.

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Author Bio

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Table of Contents

| Why ALE Setting needed? | .3 |
|--|----|
| Procedure | .3 |
| Step by Step Guide for Creating ALE Connection | .4 |
| Step 1: | .4 |
| Step 2: | .5 |
| Step 3: | .7 |
| a) Define Logical system | 7 |
| b) Assign Logical system to Client. | .8 |
| Step 4:1 | 10 |
| a) Run transaction code RSA1, on the prompt press "Replicate As Well" | 10 |
| b) After activation you will see the BI source system in the list as shown below | 11 |
| c) Next step is to do the global settings in RSA1 | 11 |
| Step 5:1 | 12 |
| Step 6:1 | 14 |
| a) On pressing enter in above step, it will connect to the source system | 14 |
| b) On pressing enter in the above screen it will give a pop-up as shown below. Press continue | 15 |
| c) On the next pop-up press "Replicate as Well" | 15 |
| d) Select Radio button as shown below, make sure this selection is based on your BW system. In this example our BW is 7.0 | 15 |
| Manual Steps: Useful for Trouble Shooting1 | 17 |
| Log on to BW system1 | 17 |
| Log on to ECC system1 | 18 |
| Related Content1 | 19 |
| Disclaimer and Liability Notice2 | 20 |

Why ALE Setting needed?

The ALE settings, which are needed for the communication between a BW System and an SAP System (ECC), are created in the background with the use of the created destinations. These settings are made in BW as well as in the source system (ECC). The BW settings for the new connection are created in BW.

If the new SAP source system has been created, Metadata is requested automatically from the source system.

Procedure

There are two different ways of establishing the connection with source system.

- Creating an SAP Source System Manually
- Creating an SAP Source System Automatically

Step by Step Guide for Creating ALE Connection

List of transaction codes, needs to be used.

- SU01 → Maintain user
- SALE → Display ALE Customizing
- RSA1 → Modeling DW Workbench

Step 1:

Below steps needs to be carried out in the SAP BW System.

Go to transaction code **SU01**, and create the following two users with the credentials that are shown in the below screen capture.

Below is the log in credentials for the users that needs to be created in BW system.

| User Name | User Type | Profile |
|-----------|------------|---------|
| ALEREMOTE | B - System | SAP_ALL |
| BW_USER | B - System | SAP_ALL |

| Image: System Alias User Type Image: System Password Image: System Validity Period Valid from | ′Users Edit Goto Information Environment System Help | |
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Note: Password should be 8 characters for Unicode enabled system.

Make sure you have SAP all authorization to this back ground user. As shown in below screen capture.

Note: It is not mandatory to have profile SAP_ALL to ALEREMOTE user. You can restrict this user based on authorization.

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As stated, create one more user BW_REMOTE, with the same credentials as user ALEREMOTE.

Note: Screen captures for creating BW_REMOTE are not shown. You can refer the above screen capture for creating this user.

Step 2:

Below steps needs to be carried out in the SAP ECC System.

Go to transaction code **SU01**, and create the following users with the credentials that are shown in the below screen capture.

Below is the log in credentials for the users that needs to be created in BW system.

| User Name | User Type | Profile |
|-----------|------------|---------|
| ALEREMOTE | B - System | SAP_ALL |

| 로 <u>U</u> sers <u>E</u> dit <u>G</u> oto <u>I</u> nformation En <u>v</u> ironment System <u>H</u> elp | |
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| Password Status | |
| User Group for Authorization Check | |
| User group | |
| Validity Period | |
| Valid from | |

Note: Password should be 8 characters for Unicode enabled system.

Make sure you have SAP all authorization to this back ground user. As shown in below screen capture.

Note: It is not mandatory to have profile SAP_ALL to ALEREMOTE user. You can restrict this user based on authorization.

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Step 3:

Below steps needs to be carried out in the SAP BW System.

Go to transaction code SALE, and define logical system and assign logical system.

a) Define Logical system.

Path: SALE (transaction code) \rightarrow IDoc Interface / Application Link Enabling(ALE) \rightarrow Basic Settings \rightarrow Logical Systems \rightarrow Define Logical systems



Define logical system as BIWCLNT001 and press SAVE

Note: As a best practice follow the naming convention for logical system name as <System ID>CLNT<Client Number>

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b) Assign Logical system to Client.

Our next step is to assign the logical system to client.

Path: SALE (transaction code) \rightarrow IDoc Interface / Application Link Enabling(ALE) \rightarrow Basic Settings \rightarrow Logical Systems \rightarrow \bigcirc Assign Logical system to Client

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Just double click on the client, where you want to maintain the logical system name.



Change View "Clients": Overview

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| | 100 | Training | Singapore | USD | 29.09.2010 | |
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Assign the Logical system name as shown below. Press SAVE

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Step 4:

a) Run transaction code RSA1, on the prompt press "Replicate As Well"

Note: It may take a while to do the replicate.

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Press continue.



b) After activation you will see the BI source system in the list as shown below.

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c) Next step is to do the global settings in RSA1.

From menu options, Settings → Global Settings



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Step 5:

Re-run the transaction code RSA1.

Right Click on source system i.e. SAP system and press Create.

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| On pop-up screen enter the following details. | |
|---|---|
| Target Computer (Server) | <ip address="" of="" source="" system="" your=""></ip> |
| System ID (System Name) | <system id="" of="" source="" system="" your=""></system> |
| System Number | <system number="" of="" source="" system=""></system> |
| Background user in source system | ALEREMOTE (User Created in above steps) |
| Background user in BW | BW_USER (User Created in above steps) |

Note: Make sure you enter all logon credentials correctly.



Data Warehousing Workbench Tools <u>E</u>dit <u>G</u>oto Environment <u>S</u>ettings System <u>H</u>elp Data Warehousing Workbench: Modeling **3 .** 🗢 🛆 🛗 🖊 🛲 📼 🖿 🖬 🔳 🐔 Modeling 🔀 Source Systems Tech. Name M... Execute Funct... Di □ BI □ SAP • 🞯 InfoProvider ۲ BL Change SAP . Change • 🚈 InfoObjects . External System PARTNERS Change InfoSources File
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Press Enter to continue. On prompt as shown below press enter to continue.

Step 6:

a) On pressing enter in above step, it will connect to the source system.

Enter the log in credentials, as shown below.

| ⊡ User System <u>H</u> elp | |
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| SAP | |
| New password | |
| Remote Logon | |
| Client 800 | SAP System ECC |
| User A169052 Password | App.Server aosapU1 |
| Language EN | |
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| Language EN | |

b) On pressing enter in the above screen it will give a pop-up as shown below. Press continue

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| SAP | | |
| New password | | |
| | | |
| Remote Logon | | |
| Client | 800 | SAP System ECC |
| | | App.Server aosap01 |
| User | A169052 | |
| Password | ** 🕞 New Source Sy | rstem Connection |
| Language | User already exists Only continue if profile and passwo Continue | s in source system ord are correct. Cancel |

c) On the next pop-up press "Replicate as Well".



d) Select Radio button as shown below, make sure this selection is based on your BW system. In this example our BW is 7.0.

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Press Continue.

With this step, you will establish the connection between SAP Sources Systems with SAP BW.

Manual Steps: Useful for Trouble Shooting

Note: This manual steps are optional, these are mostly helpful as a trouble shooting guide, if at all something went wrong with your connections that I have stated in the above steps.

Log on to BW system

- 1) Go to Transaction code: SALE
- 2) Define logical system BIWCLNT001
- 3) Assign Logical system to client 001 as BIWCLNT001
- 4) Define Logical system ECCCLNT800
- 5) Now time to create RFC connection, Go to transaction code SM59

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| TMSSUP@BIW.DOMAIN_BIW HTTP Connections to External Server | 3 TMS Communication Interface *generated* |
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| Description 3 | |
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| Target System Settings | |
| Load Balancing OYes No | |
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| Target Host accaption | System Number |
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| Gateway Host | Delete |
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| Description Description Description Description Description Administration Technical Settings Logon & Security MDMP & Unicode Special Options Security Options Security Options Security Options Security Options Security Options Connection To Destination Logon Language EX Client Biatus of Secure Protocol Connection Test Unicode Current User PW Status Seved Password Connection Test Unicode Test PW Status Seved Password Description Description Description Description Description Connection Type Vith Target System Non-Unicode MDMP & Unicode Special Options Communication Technical Settings Logon & Security MDMP & Unicode Special Options Communication Character Conversion Error Indicator Error Error Indicator Error Error Indicator Error Erro | Connection Type 3 ABAP Connection Description |
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| Description 3 Administration Technical Settings Logon & Security MDMP & Unicode Special Options Security Options Trusted System/Logon Screen Status Trusted System | Description 2 |
| Administration Technical Settings Logon & Security MDMP & Unicode Special Options Security Options Trusted System ON OVES Logon Screen Status of Secure Protocol Status of Secure Protocol Client On Or Destination Logon Connection Test Onicode Test PV Status Saved Password Connection Type 3 ABAP Connection Description Description Description Description Connection Type with Target System Non-Unicode MDMP Settings Onactive Active Character Conversion Error Onicode MDMP Settings Ignore Error, Error Indicator: #= U+0023 Short Dump Ader Conversion Error Olignator Description Description Character Conversion Error Olignator Description Description Description Character Conversion Error Olignator Description Des | Description 3 |
| Administration Technical Settings Logon & Security MDMP & Unicode Special Options Security Options Trusted System ONO Ves Logon Screen Status of Secure Protocol Status of Secure Protocol Status of Secure Protocol Communication To Destination Communication Type with Target System Non-Unicode MDMP & Unicode Test Communication Type with Target System Non-Unicode Communication Type with Target System Communicat | |
| Security Options Trusted System ONO OVes Logon Screen Status of Secure Protocol Trusted System ONO OVes Logon Screen Status of Secure Protocol Trusted System ONO OVes Logon Screen Status of Secure Protocol Trusted System ONO OVes Connection Commetion for Destination Commetion Type (E) ALERENOTE Password Connection Test Unicode Test Remote Logon Connection Test Unicode Test Connection Type with Target System Non-Unicode Communication Type with Target System Control Conversion Errors Display of Conversion Errors Display of Conversion Errors Display of Conversion Errors Display of Conversion Errors Conversion Errors Con | Administration Technical Settings Logon & Security MDMP & Unicode Special Options |
| Security Options Trusted System | |
| Insted System Dogon Scheen status Trusted System No Yes Logon Screen Status of Secure Protocol Status of Secure Protocol Authorization for Destination Logon Language R Client B00 Logon Language R Client B00 Current User Password Current User Password Current User Password Passw | Security Options |
| Instatus system No Ores Logon screen Status of Secure Protocol Imactive Active Authorization for Destination Imactive Active Authorization for Destination Imactive Active User Imactive Imactive Imactive Ver Imactive Imactive Imactive Ver Imactive Imactive Imactive Ver Imactive Imactive Imactive Password Imactive Imactive Imactive Description Imactive Imactive Imactive Imactive Ornactive Imactive Imactive Imactive Imactive Imactive Imactive Imactive Imactive Imactive Imactive Imactive Imactive Imactive Imactive Imactive Imactive <td>Trusted System/Logon Screen Status</td> | Trusted System/Logon Screen Status |
| Status of Secure Protocol Image Authorization for Destination Language EN Client User ALERENOTE Password Current User PVY Status Severed Password Connection Test Unicode Test Victore Connection Test Unicode Test Connection Test Unicode Special Options Communication Communication Technical Settings Logon & Security MDMP & Unicode Mon-Unicode Mon-Unicode Mon-Unicode Connective Character Conversion Error Indicator Error Indicator First Fors Error Indicator First Unicode Terrors Error Indicator Error Indicator First Unicode Short Dump After Conversion Errors Display of Conversion Errors Error Indicator First Unicode Monet Proversion Errors Display of Conversion Errors Error Indicator First Unicode Short Dump After Conversion Errors Display of Conversion Errors Error Indicator First Unicode Conversion Errors Display of Conversion Errors Error Indicator First Unicode Conversion Errors Display of Conversion Errors Error Indicator First Unicode Conversion Errors Display of Conversion Errors Display of Conversion Errors Error Indicator First Unicode Character Conversion Errors Display of Conversion Errors Error Indicator First Unicode Character Conversion Errors Display of Conversion Errors Error Indicator First Unicode Character Conversion Errors Error | Trusted system • No • Tes Logon screen |
| Image: SNC Authorization for Destination Logon Language Client Boo User Password Password Remote Logon Connection Test Unicode Password Remote Logon Connection Test Unicode Description Description 1 Description 2 Description 3 Administration Technical Settings Logon 4. Active Communication Type with Target System Non-Unicode MOMP Settings Of Inactive Active Character Conversion Encor Indicator Image: State of Conversion Errors Display of Conversion Errors Error Indicator | Status of Secure Protocol |
| Authorization for Destination Language EN Language EN Language EN Language EN Language EN Language EN Current User PW Status Password Connection Test Unicode Test PW Status Password Connection Type ABAP Connection Description Description Description Description Administration Technical Settings Logon & Security MDMP & Unicode Special Options Communication Type with Target System Non-Unicode MDMP Settings Onactive Active Character Conversion Error Indicator: #= U+0023 Short Dump After Conversion Errors Display of Conversion Errors Error Indicator | R SNC OInactive OActive |
| Authorization for Destination | |
| Logon Language EN User ALERENOTE Current User PV Status saved Password Connection Test Unicode Test Remote Logon Connection Description Description Description 1 Description 2 Description 2 Description 3 Administration Technical Settings Logon & Security MDMP & Unicode Special Options Communication Type with Target System Non-Unicode MDMP Settings Oinactive OActive C Character Conversion Default Setting Ignore Error, Error Indicator: #= U+0023 Short Dump After Conversion Errors Display of Conversion Errors Error Indicator # | Authorization for Destination |
| Language EN Language EN User ALERENDTE PY Status saved Password | |
| Client User ALERENDIE PW Status Password Remote Logon Connection Test Unicode Test ** Remote Logon Connection Test Unicode Test ** RFC Destination ECCCLNT800 Connection Type 3 ABAP Connection Description Description 1 Description 2 Description 3 Administration Technical Settings Logon & Security MDMP & Unicode Special Options Communication Type with Target System Non-Unicode MDMP Settings O Inactive Active Character Conversion Error Ignore Error, Error Indicator: #* = U+0023 Short Dump After Conversion Errors Display of Conversion Errors Error Indicator # | Language EN |
| User Password | Client 899 |
| Outenit Ossi PwStatus Password Remote Logon Connection Test Unicode Test Remote Logon Connection Type 3 ABAP Connection Description Description Description Description 2 Description 2 Description 3 Administration Technical Settings Logon & Security Description 1 Description 2 Description 3 Administration Technical Settings Logon & Security MDMP & Unicode Display of Conversion Errors Display of Conversion Errors Display of Conversion Errors | Liear ALEREMOTE |
| Password Pas | PW Status saved |
| Remote Logon Connection Test Unicode Test Image: Connection Type RFC Destination ECCCLNT800 Description Description Description Description Description 1 Description 2 Description 3 Administration Technical Settings Logon & Security MDMP & Unicode Administration Technical Settings Logon & Security MDMP & Unicode Special Options Communication Type with Target System Non-Unicode MDMP Settings Non-Unicode MDMP Settings Active Imactive Active Imactive Imactive Active Imactive Imactiv | Paceword ***** |
| Remote Logon Connection Test Unicode Test RFC Destination ECCCLNT800 Connection Type 3 ABAP Connection Description Description 1 Description 1 1 Description 2 2 Description 3 1 Administration Technical Settings Logon & Security MDMP & Unicode Special Options Communication Type with Target System Non-Unicode MDMP Settings Onactive Onactive Active Character Conversion Error Indicator In Indicator Image: Special Option State | |
| Connection Type 3 ABAP Connection Description Description Description 1 Description 2 Description 3 Administration Technical Settings Logon & Security MDMP & Unicode Special Options Communication Type with Target System Non-Unicode MDMP Settings O Inactive O Active Character Conversion Ignore Error, Error Indicator: #= U+0023 Short Dump After Conversion Errors Display of Conversion Errors Error Indicator Error Indicator | Remote Logon Connection Test Unicode Test 🌮 |
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| Description 1 Description 2 Description 3 Administration Technical Settings Logon & Security MDMP & Unicode Special Options Communication Type with Target System Non-Unicode MDMP Settings O Inactive Active Character Conversion O Default Setting Ignore Error, Error Indicator: #= U+0023 Short Dump After Conversion Errors Display of Conversion Errors Error Indicator # | Description |
| Description 2 Description 3 Administration Technical Settings Logon & Security MDMP & Unicode Special Options Communication Type with Target System Non-Unicode MDMP Settings Olnactive OActive S Unicode Character Conversion Obefault Setting Ignore Error, Error Indicator: #= U+0023 Short Dump After Conversion Errors Display of Conversion Errors Error Indicator # | Description 1 |
| Description 3 Administration Technical Settings Logon & Security MDMP & Unicode MDMP Settings Inactive Active Character Conversion Ignore Error, Error Indicator: #"= U+0023 Short Dump After Conversion Errors Display of Conversion Errors Display of Conversion Errors Error Indicator | Description 2 |
| Administration Technical Settings Logon & Security MDMP & Unicode Special Options Communication Type with Target System Non-Unicode MDMP Settings Olnactive Active Character Conversion Default Setting Ignore Error, Error Indicator: #"= U+0023 Short Dump After Conversion Errors Display of Conversion Errors Error Indicator # | Description 3 |
| Administration Technical Settings Logon & Security MDMP & Unicode Special Options Communication Type with Target System Non-Unicode MDMP Settings Olactive Active Character Conversion Default Setting Ignore Error, Error Indicator: #"= U+0023 Short Dump After Conversion Errors Display of Conversion Errors Error Indicator # | |
| Communication Type with Target System Non-Unicode MDMP Settings Inactive Active Inactive Inactite | Administration Technical Settings Logon & Security MDMP & Unicode Special Options |
| Non-Unicode MDMP Settings Onactive Active Character Conversion Opefault Setting Ignore Error, Error Indicator: #'= U+0023 Short Dump After Conversion Error Olgnore Conversion Errors Display of Conversion Errors Error Indicator # | Communication Type with Target System |
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| Character Conversion Character Conversion Default Setting Ignore Error, Error Indicator: #'= U+0023 Short Dump After Conversion Error Ignore Conversion Errors Error Indicator # | MDMP Settings |
| Character Conversion Default Setting Ignore Error, Error Indicator: #'= U+0023 Short Dump After Conversion Error Ignore Conversion Errors Display of Conversion Errors Error Indicator # | Inactive OActive |
| Unicode Character Conversion Opefault Setting Ignore Error, Error Indicator: #'= U+0023 Short Dump After Conversion Error Ignore Conversion Errors Display of Conversion Errors Error Indicator # | |
| Character Conversion Default Setting Ignore Error, Error Indicator: #'= U+0023 Short Dump After Conversion Error Ignore Conversion Errors Display of Conversion Errors Error Indicator # | Unicode J |
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| Oshort Dump After Conversion Error Olgoner Conversion Errors Display of Conversion Errors Error Indicator | Default Setting Innore Error, Error Indicator, #1-11-0022 |
| Olgnore Conversion Errors Display of Conversion Errors Error Indicator | Short Dump After Conversion Error |
| Display of Conversion Errors Error Indicator | |
| Error Indicator # | |
| | Display of Conversion Errors |
| U+ 8823 | Error Indicator |

Log on to ECC system

1) SALE

- 2) Define logical system ECCCLNT800
- 3) Assign logical system to client 800 as ECCCLNT800

Repeat as above.

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www.help.sap.com Creating an SAP Source System

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