

# SID-Refresh<sup>TM</sup>

User Guide v.1.4.8

SID-Refresh<sup>™</sup> is designed to simplify, automate, and optimize the process of updating the technical data and configuration in SAP systems.



For questions and other concerns, e-mail us at: sidrefresh@itconductor.com



# **Version History**

		Description
1.4.8	01/05/2021	Update
		• Added 12 tables to the Users (SU01) task
1.4.7	10/17/2019	New
		• Added new batch mode execution switch <b>-b</b> that enables batch logging to standard output
1.4.6	06/28/2019	New
		<ul> <li>Added the SAML2 Configuration task</li> <li>Added the OAuth Client Configuration task</li> </ul>
		Added the OAuth Server Configuration task
		Added the <b>Relationship Service Configuration</b> task
		Added the CRM E-mail Response Mngmt System     Configuration task
		Update
		• Added 4 tables to the <b>ALE Customizing</b> task
		<ul> <li>Added 6 tables to the SAP NetWeaver LDAP Configuration (LDAP) task</li> </ul>
		<ul> <li>Added 15 tables to the SAP Unified Connectivity (UCON) task</li> </ul>
		Added 1 table to the HTTP Service Configuration     (SICF) task
		Removed 2 tables from the Archiving ADK     Configuration task
		• Removed 4 tables from the <b>Batch Jobs (SM37)</b> task
		<ul> <li>Removed 1 table from the RFC Connections (SM59) task</li> </ul>
		Removed 1 table from the Secure Store     (SECSTORE) task
		• Removed 1 table from the Users (SU01) task
		<ul> <li>Removed 2 tables from the Integration Engine Configuration (SXMB_ADM) task</li> </ul>



1.4.5	04/21/2019	Fix
		• Fixed <b>NullPointerException</b> if the License Key doesn't contain <b>SID</b> Attribute
1.4.4	09/10/2018	New
		Added license generation notice
		Fix
		• Fixed invalid license key if there is a newline in the license file
1.4.3	07/12/2018	New
		Added license check function
		Fix
		• Fixed problems with the text progress bar
1.4.2	05/21/2018	New
		• Added the function of collecting diagnostic information for support
		Fix
		• Fix problems with export tasks
1.4.1	05/01/2018	New
		Added the SAP Office Number Range for Attachment (SBWP) task
		• Added the Users (SU01) task
		Added the SAP Gateway Configuration task
		Added the SAP Unified Connectivity(UCON) task
		Added the SAP NetWeaver Enterprise Threat     Detection (ETD) task
		Added the SAP Screen Personas     Configuration for S/4HANA



		Added the SAP NetWeaver Switchable     Authorization Checks (SACF) task
		Update
		Changed the SAP NetWeaver Workflow Configuration (SWU3) task to SAP NetWeaver Workflow Configuration (SWU3) and SAP NetWeaver Workflow Runtime Data (SWU3)
		Added the Cleanup of Spool Configuration     (SPAD) task for S/4HANA
		Added 4 tables to the Export Archiving ADK     Configuration task
		• Added 14 tables to the <b>Batch Jobs (SM37)</b> task
		Added 1 table to the HTTP Service Configuration     (SICF) task
		Added 6 tables to the Security Audit Profile     Configuration (SM19) task
		Added 9 tables to the <b>Trust Manager Configuration</b> ( <b>STRUST</b> ) task
		Added 1 table to the <b>Test Workbench Configuration</b> (CATT, eCATT, STWB) task
		<ul> <li>Added 25 tables to the Integration Engine Configuration (SXMB_ADM) task</li> </ul>
		Added 3 tables to the SAP NetWeaver Workflow Configuration (SWU3) task for S/4HANA
		Added 1 table to the Secure Store     (SECSTORE) task for S/4HANA
		• Added 1 table to the ChaRM/CTS Configuration task
		Removed 2 tables from the ChaRM/CTS     Configuration task
		• Removed 2 tables from the ALE Configuration task
		Removed 1 table from the Archiving Objects     Configuration task
		Removed 2 tables from the <b>SAPconnect Configuration (SCOT)</b> task
		Note: Support for S/4HANA from release 1610
1.4.0	02/21/2018	New
		Added the Cleanup of Selected ABAP Basis Tables     (OTHERS) task



	<ul> <li>Added the GTS Component Configuration task</li> <li>Added the EWM Server Configuration task</li> <li>Added the EWM Interface Configuration task</li> <li>Added the BW Configurations task</li> <li>Update</li> <li>Removed the Users (SU01) task</li> </ul>
06/01/2017	<ul> <li>New</li> <li>Added the SAP CRM Configuration task</li> <li>Added functionality for the customer-defined tables to be included in export/import</li> </ul>
05/01/2017	<ul> <li>New</li> <li>Added the expert mode that allows you to clean certain configurations of the refreshed system by deleting their respective data tables such as TempSe tables for spool output, etc.</li> <li>Added functionality for the export of the tables (backup) to be performed prior to cleaning them for the purpose of saving the content (For Safety Precautions)</li> <li>Added functionality for the restoration of the table content prior to clean up</li> <li>Added functionality for the customer-defined tables to be added to the cleanup configuration (Precaution: Customer must be aware and accept full responsibility for cleaning table contents in the refreshed system.)</li> </ul>
03/01/2017	<ul> <li>Initial release of SID-Refresh<sup>TM</sup> with multiplatform support for Windows/Linux/Unix and all SAP- supported databases</li> </ul>
	05/01/2017



## **Table of Contents**

I. Product Overview	6
A. Background	6
B. Product Description	7
C. High-Level Process	7
D. Product Features	9
E. Benefits and Value	
F. SAP Supported Environments	
G. SAP Supported Operating System	
H. Limitations of the Product	
II. Getting Started	17
A. General Prerequisites	
B. Initial Setup	
C. Installing and Updating Licenses	
III. Administering System Refresh Using SID-Refresh™	
A. Exporting the Target System's Technical Data and Configuration	
Using GUI	
Using Console Validation of Successful Export	
B. Cleaning the Target System's Technical Data and Configuration	
Using GUI	
Using Console	
Validation of Successful Clean Restoring a table(s) from Backup	
C. Importing the Source System's Technical Data and Configuration	
Using GUI	
Using Console	55
Validation of Successful Import	
IV. Troubleshooting Guide	59
V. Collecting Diagnosis for Support Team	74
VI. Terms of Service	76
A. Warranty	
B. Technical Support	
C. Changes to Terms and Conditions	
VII. Appendix	78
A. Table of Figures	



# I. Product Overview

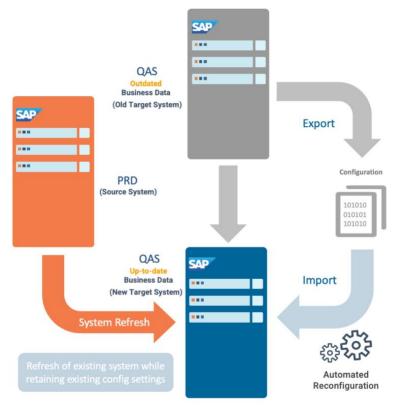


Figure 1: System Refresh Process

## A. Background

System copy and system refresh are fundamental administrative tasks in SAP landscapes. In situations where you need to change your operating system, your database, or perhaps, you want to build an entirely new system based on an existing system, you need to perform system copy. If you want to set up a sandbox system for testing and demo purposes, a system copy is also performed. While system refresh is closely related to system copy, it basically involves more than just copying one system to another. When you refresh a system, you overwrite an existing target system with the latest data from a source system while maintaining the configuration.

The challenge now is how system refresh requires several steps, that when performed manually, can be tedious and time-consuming as it requires at least 20 hours to perform. Depending on the complexity of your systems, system refresh can



even take up to several days to complete. Given SAP's recommendation to perform system refresh at least once every quarter, it would be a great relief to have an automated solution in place and remove the burden of having to manually process them four times a year, or probably more.

## **B.** Product Description

**SID-Refresh**<sup>TM</sup> is a tool developed to automate the end-to-end process of system refresh. It is designed to simplify, automate, and optimize the process of updating the technical data and configuration in SAP systems.

## C. High-Level Process

The system refresh process shown in Figure 1 depicts the creation of a new system with its own identity as a copy from the source system and the refresh of an existing system while retaining the existing configuration settings.



Figure 2: System Refresh High-Level Process



**SID-Refresh<sup>™</sup>** exports the target system tables that contain configuration information before system refresh is started and imports them afterward.

The typical task list runs in the following sequence:

## • Export System Configuration

The connection-related configuration data is exported as table content for the file system using R3trans.

#### • Copy SAP System

The database of the production system is copied into the quality system.

## • Rename Cloned SAP System

The copied system is renamed with the same SID as the old target system.

## • Clean System Configuration

The contents of the tables that contain information about the source system will be cleaned up.

#### • Import System Configuration

The connection-related configuration data in the form of table content is imported back to the new target system using R3trans.

#### • Conversion of Logical System Names (BDLS)

When logical system names are duplicated, you have to convert them to have unique IDs again. To convert one or more logical system names to new or existing logical names, transaction BDLS is used.

**Note:** The Copy SAP system, Rename Cloned SAP System, and Conversion of Logical System Names can be automated using a separate "Automation as a Service" feature in IT-Conductor cloud platform.



## D. Product Features

Refresh of **SAP CRM** systems exports and imports configuration tasks for refreshing SAP CRM, related to connectivity inside target system or to systems outside. Only for refreshing one isolated systems — related systems are not changed.

The following is an overview of configuration tasks in SAP CRM:

- Export CRM Middleware Configuration
- Export CRM Component Configuration
- Export CRM WebClient Configuration
- Import CRM Middleware Configuration
- Import CRM Component Configuration

Refresh of **SAP EWM** systems exports and imports configuration tasks for refreshing SAP EWM, related to connectivity inside target system or to systems outside. Only for refreshing one isolated system, related systems are not changed.

The following is an overview of configuration tasks in SAP EWM:

- Export EWM Server Configuration
- Export EWM Interface Configuration
- Import EWM Server Configuration

Refresh of **SAP GTS** systems export and import configuration tasks for refreshing SAP GTS. It is related to connectivity inside the target system or to systems outside. Only for refreshing one isolated system, related systems are not changed.

The following is an overview of configuration tasks in SAP GTS systems:

- Export GTS Component Configuration
- Import GTS Component Configuration

Refresh of **SAP SCM** systems exports and imports configuration tasks for refreshing SAP SCM. It is related to connectivity inside target system or to systems outside. Only for refreshing one isolated system. related systems are not changed.

The following is an overview of configuration tasks in SAP SCM:

• Export SCM Basis Integration Configuration



- Export SCM Server Integration Configuration
- Import SCM Basis Integration Configuration
- Import SCM Server Integration Configuration

Refresh of **SAP SRM** systems exports and imports configuration tasks for refreshing SAP SRM. It is related to connectivity inside the target system or to systems outside. Only for refreshing one isolated system, related systems are not changed.

The following is an overview of configuration tasks in SAP SRM:

- Export SRM Component Configuration
- Import SRM Component Configuration

The result is a quality system with the production system's 'business data' and the original 'technical data and configuration' of the quality system.

As already mentioned, the program does not require additional hardware, there is no complex installation and configuration.

Below is a list of 'technical data and configuration' that may be exported/imported using SID-Refresh<sup>TM</sup>. Note that selected options are saved on initial use and can be reused on subsequent execution of the refresh.

- 1. ALE Configuration
- 2. ALE Customizing
- 3. Archiving ADK Configuration
- 4. Archiving Customizing Configuration
- 5. Archiving Objects Configuration
- 6. Batch Jobs (SM37)
- 7. Report Variants
- 8. Batch Server Groups (SM61)
- 9. CCMS Configuration (RZ20, RZ21)
- 10. CCMS History
- 11. DBA Cockpit Configuration (DBACOCKPIT)
- 12. Additional DBA Cockpit Config. for Oracle
- 13. Operating System Commands (SM69)
- 14. Cross-Client File Names/Paths (FILE)
- 15. SAP License (SLICENSE)
- 16. Logon Groups (SMLG)
- 17. Operation Modes (RZ04)



- 18. Spool Configuration (SPAD)
- 19. System Profiles (RZ10)
- 20. RFC Connections (SM59)
- 21. RFC Inbound Queue Configuration (SMQ2)
- 22. RFC Outbound Queue Configuration (SM58, SMQ1)
- 23. Background RFC (SBGRFCMON)
- 24. SLD Data Supplier Configuration (RZ70)
- 25. SAPconnect Configuration (SCOT)
- 26. SAP Office Configuration (SBWP)
- 27. SAP Office Number Range for Attachments (SBWP)
- 28. HTTP Service Configuration (SICF)
- 29. SLD Access Data Configuration (SLDAPICUST)
- 30. Update Program Administration (SM14)
- 31. Security Audit Profile Configuration (SM19)
- 32. Trust Manager Configuration (STRUST)
- 33. SNC Access Control List (STRUSTSSO2)
- 34. TMS Configuration (STMS)
- 35. TMS Quality Assurance Configuration (STMS)
- 36. Version Management
- 37. Virus Scan Definitions (VSCAN)
- 38. Web Service Configuration (SOAMANAGER)
- 39. Users (SU01)
- 40. Test Workbench Configuration (CATT, eCATT, STWB)
- 41. Internet Transaction Server Config. (IACOR, ITS)
- 42. Project Customizing (SPRO)
- 43. Client Configuration (SCC4)
- 44. Integration Engine Configuration (SXMB\_ADM)
- 45. SolMan Configuration in Managed System
- 46. ChaRM/CTS Configuration
- 47. Service Data Control Center Configuration (SDCCN)
- 48. Service Data Control Center Download Data (SDCCN)
- 49. Login Screen Information
- 50. Initial Screen Configuration (SMW0)
- 51. Lock/Unlock Users (EWZ5)
- 52. Batch-Input Data and Configuration (SM35)
- 53. SAP NetWeaver Workflow Configuration (SWU3)
- 54. SAP NetWeaver Workflow Runtime Data (SWU3)
- 55. SAP NetWeaver LDAP Configuration (LDAP)
- 56. Secure Store (SECSTORE)
- 57. Customer Defined Configuration Tables (CUSTOMER)



- 58. SAP Gateway Configuration
- 59. SAP Screen Personas Configuration
- 60. SAP Unified Connectivity (UCON)
- 61. SAP NetWeaver Enterprise Threat Detection (ETD)
- 62. SAP NetWeaver Switchable Authorize Checks (SACF)
- 63. SAP NetWeaver Maintain Whitelists (SLDW)
- 64. CRM Middleware Configuration
- 65. CRM Plug-In Configuration (CRM/ERP)
- 66. CRM Integration in ERP
- 67. CRM Component Configuration
  - CRM Analytic Component Configuration
  - CRM Interaction Center Component Configuration
  - CRM Marketing Component Configuration
  - CRM Miscellaneous Component Configuration
  - CRM Field Applications (Mobile) Component Configuration
  - CRM Sales Component Configuration
  - CRM Partner Channel Management Component Configuration
  - CRM Service Component Configuration
  - CRM Web Channel Enablement Component Configuration
- 68. CRM WebClient Configuration
  - Define transaction launcher and IC WebClient
  - Communication Management Software Connections
- 69. SRM Component Configuration
  - Technical Basic Settings
  - Settings for Supplier Synchronization
  - Activate Users

#### 70. SCM Basis Integration Configuration

- Activation of Incremental Data Transfer
- Distribution Definition Maintenance
- Generation of Distribution Definitions



- Maintain Business System Group
- Assignment of Logical System and Queue Type
- Activation of CIF Error Handling
- Assignment of RFC Destinations to Application Cases
- User Parameters
- 71. SCM Server Integration Configuration
- 72. Remote Control and Communication Framework Configuration
- 73. SCM Configuration in ERP
  - Basic Settings for Setting Up the System Landscape
  - Basic Settings for the Data Transfer
  - Application-Specific Settings and Enhancements

## 74. GTS Component Configuration

- SAP Compliance Management
- SAP Customs Management
- SAP Risk Management

#### 75. EWM Server Configuration

- Master Data Settings
- Batch Management
- Goods Issue Process (Work Center)
- Printer Settings
- Others Settings

#### 76. EWM Interface Configuration RFID

- Settings mandatory
- General Settings for ERP mandatory
- General Settings for ERP
- Delivery Processing for ERP
- Goods Movement
- Transportation



- General Settings for GTS mandatory
- General Settings for GTS
- Non-SAP Systems
- Availability Check
- Migration from LE-WM

## 77. BW Configurations

elect Directory for Export/Import/Clean	R3trans Processes	Select Tool R3Trans	
usr/sap/CR2/SYS/global/Clean:		/usr/sap/CR2/SYS/exe/run/R3trans	C Start
Select/Unselect	1 2 3 4 5 6 7 8	Export/Import/Clean  Export Tables  Import Tables  Clean Tables	
Select Component			🕐 Save
ALE Configuration Archiving Customizing Configuration Report Variants CCMS History Operating System Commands (SM69) Logon Groups (SML6) System Profiles (RZ10) RFC Outbound Queue Configuration (SM58, SMQ1) SAP Configuration (SCOT) HTTP Service Configuration (SCF) Security Audit Profile Configuration (SM19) TMS Configuration (STMS) Virus Scan Definitions (VSCAN) Test Workbench Configuration (CATT, eCATT, STWB) Client Configuration (SCC4) ChaRM/CTS Configuration Login Screen Information Batch-Input Data and Configuration (LDAP) SAP NetWeaver LDAP Configuration SAP NetWeaver Switchable Authoriz.Checks(SACF) OAUTH Client Configuration SAP NetWeaver Switchable Authoriz.Checks(SACF) OAUTH Client Configuration SRM component Configuration SRM component Configuration Remote Control and Communication Framework Conf EWM Server Configuration	ALE Customizing Archiving Objects Configuration Batch Server Groups (SM61) DBA Cockpit Configuration (DBACOCKPIT) Cross-Client File Names/Paths (FILE) Operation Modes (RZ04) RFC Connections (SM59) Background RFC (SBGRFCMON) SAP Office Configuration (SLDAPICUST) Trust Manager Configuration (SLDAPICUST) Trust Manager Configuration (SLDAPICUST) Trust Manager Configuration (SLDAPICUST) Trust Manager Configuration (SLDAPICUST) Internet Transaction Server Config. (IACOR, ITS) Integration Engine Configuration (SXMB_ADM) Service Data Control Center Configuration (SDCCN) Initial Screen Configuration (SMW0) SAP NetWeaver Workflow Configuration (SUU3) Secure Store (SECSTORE) SAP NetWeaver Maintain Whitelists(SLDW) OAUTH Server Configuration (SOAUTH2) CRM Middleware Configuration SCM Configuration ERP EWM Interface Configuration	Archiving ADK Configuration Batch Jobs (SM37) CCMS Configuration (RZ20, RZ21) Additional DBA Cockpit Config. for Oracle SAP License (SLICENSE) Spool Configuration (SPAD) RFC Inbound Queue Configuration (SMQ2) SLD Data Supplier Configuration (RZ70) SAP Office Number Range for Attachments(SBWP) Update Program Administration (SM14) SNC Access Control List (STRUSTSS02) Version Management Users (SU01) Project Customizing (SPR0) SolMan Configuration in Managed System Service Data Control Center Download Data (SOCCN) Lock/Unlock Users (EWZ5) SAP NetWeaver Workflow Runtime Data (SWU3) SAP Gateway Configuration SAP NetWeaver Enterprise Threat Detection(ETD) SAML 2 Configuration (SAML2) Relationship Service Configuration CRM Integration in ERP SCM Server Integration Configuration GTS Component Configuration BW Configuration BW Configuration	C Save

Figure 3: SAP NetWeaver ABAP Technical Configuration Components

Below is a list of technical data and configuration that may be cleaned up using SID-Refresh<sup>TM</sup>. Note that the selected options are saved on initial use and can be reused on subsequent execution of the refresh.

- 1. Cleanup of CCMS Configuration (RZ20, RZ21)
- 2. Cleanup of CCMS History (CCMSHISTORY)
- 3. Cleanup of DBA Cockpit Configuration (DBACOCKPIT)
- 4. Cleanup of Additional DBA Cockpit Config. for Oracle
- 5. Cleanup of Spool Configuration (SPAD)
- 6. Cleanup of System Profiles (RZ10)
- 7. Cleanup of RFC Inbound Queue Configuration (SMQ2)



- 8. Cleanup of RFC Outbound Queue Configuration (SM58, SMQ1)
- 9. Cleanup of Background RFC (SBGRFCMON)
- 10. Cleanup of SAP Connect Data (SCOT)
- 11. Cleanup of SLD Access Data Configuration (SLDAPICUST)
- 12. Cleanup of TMS Configuration (STMS)
- 13. Cleanup of Web Service Configuration (SOAMANAGER)
- 14. Cleanup of Integration Engine Runtime Data (SXMB\_ADM)
- 15. Cleanup of Batch-Input Data and Configuration (SM35)
- 16. Cleanup of Selected ABAP Basis Tables (OTHERS)
- 17. Cleanup of Operating System Monitoring Data (ST03N)

elect Directory for Export/Import/Clean	R3trans Processes		Select Tool R3Trans	
usr/sap/CR2/SYS/global/Clean:			/usr/sap/CR2/SYS/exe/run/R3trans	C Start
Select/Unselect	123456	78	Export/Import/Clean © Export Tables © Import Tables © Clean Tables	
Select Component				🔥 Save
Cleanup of CCMS Configuration (RZ20, RZ21)				🖹 Load
Cleanup of DBA Cockpit Configuration (DBACOCKPIT) Cleanup of Additional DBA Cockpit Config. for Oracle				🤨 Help
Cleanup of Spool Configuration (SPAD) Cleanup of System Profiles (RZ10)				About
Cleanup of RFC Inbound Queue Configuration (SMQ2) Cleanup of RFC Outbound Queue Configuration (SM58, SMQ1)				😪 Diag.
Cleanup of Background RFC (SBGRFCMON) Cleanup of SAPconnect Configuration (SCOT)				ap ang.
Cleanup of SLD Access Data Configuration (SLDAPICUST) Cleanup of TMS Configuration (STMS)				
Cleanup of Web Service Configuration (SOAMANAGER) Cleanup of Integration Engine Configuration (SXMB_ADM)				
Cleanup of Batch-Input Data and Configuration (SMB) (SMB) Cleanup of SAP NetWeaver Enterprise Threat Detection(ETD)				
Cleanup of Selected ABAP Basis Tables (OTHERS)				
Cleanup of Operating System Monitoring Data (ST03N)				

Figure 4: SAP NetWeaver ABAP Technical Configuration Components for Clean Tasks

# E. Benefits and Value

The benefits and value provided by **SID-Refresh<sup>TM</sup>** are the following:

- Additional hardware is not required
- Minimal resources for implementation and operations
- No major changes in the existing landscape
- Easy implementation with minimal process
- Can be deployed on platforms that use different operating systems and databases
- Automated process
- Minimizes downtime
- Increased integrity



Below are the average savings we saw in the field for customers who benefited from pre and post-copy automation per system refresh. Note that the actual database copy is not included because that depends on the size of the customer's system and the platform/technology used. The manual process varied based on the complexity of the system due to the number of jobs, connections, profiles, etc., while the **SID**-**Refresh<sup>TM</sup>** the automated process remained consistent each time regardless of system complexity.

Manual	With SID-Refresh™			
20 hours	4 hours			
Varied effort and error rate depending	More thorough and error-free			
on system complexity regardless of system complexity				
Manual implementation of the checklist	ntation of the checklist 80% automated			

## F. SAP Supported Environments

The following table lists the SAP environments that are supported by **SID**-**Refresh<sup>TM</sup>** with other useful information.

Application	Version
SAP NetWeaver ABAP	7.00 - 7.50
SAP ECC	5.0 and 6.0
SAP S/4 HANA	From 1511
Solution Manager	From 7.0
SAP BI	From 7.0
SAP CRM	From 7.0
SAP EWM	From 7.0
SAP SCM	From 7.0
SAP GTS	From 7.0

## G. SAP Supported Operating System

The following table lists the supported operating systems where the .jar file can be installed.

System	Architecture
Linux/Unix	64-bit (x86_64) / SPARC (64-bit), IBM AIX on POWER
	Systems (64-Bit)
Microsoft Windows	64-bit (x86_64)



## H. Limitations of the Product

**SID-Refresh<sup>TM</sup>** satisfies the majority of the required functionalities when performing system refresh. The following lists down the current limitations of the product.

- Refreshing systems between Unicode and non-Unicode
- Testing for SAP BI, CRM, SCM scenarios (basis technical configurations would still work, but module-specific technical configurations may not be covered)
- Does not support NetWeaver Java

# **II. Getting Started**

The following sections introduce you to the first few actions as a new user of **SID**-**Refresh<sup>TM</sup>**.

A. General Prerequisites

- Should be run as <SID> adm account.
- Requires Java Runtime Environment (JRE) only version 1.8 or higher
- Requires **SID-Refresh<sup>™</sup>** License file SIDREFRESH.LIC in the directory with the SIDRefresh.jar file for Linux/Unix or the SIDRefresh.jar file for Windows systems
- **SID-Refresh<sup>TM</sup>** can be run using GUI or the terminal console.
- It is strictly recommended to use R3trans version with time stamp 24.03.17 or newer.

## B. Initial Setup

- 1. Download **SID-Refresh<sup>™</sup>** from this <u>link</u> if you haven't already done so.
- 2. Login to the source system using a *<*SID*>* adm account.
- 3. Copy/Paste the **SIDRefresh.jar** (For Linux/Unix) or **SIDRefresh.exe** file (for Windows system) and the **SIDREFRESH.LIC** license file in the same directory.



- 4. Verify if the Java version installed in the system met the minimum requirement as stated in the <u>General Prerequisites</u>.
  - a. For Linux/Unix, run the following command in a terminal window:

## java -version

b. For Windows, run the following command in command prompt:

## java -version

- 5. Verify if the x terminal is working and if necessary, adjust the DISPLAY environment variable because it is required to run the X11 server.
- 6. Verify if the R3Trans path is within <sid>adm PATH environment and if you can execute a test connect.
  - a. For Linux/Unix, run the following command in a terminal:

## R3trans -x

b. For Windows, run the following command in command prompt:

## R3trans.exe -x

C. Installing and Updating Licenses

- You will receive an e-mail with the license key file attached.
- If you need to renew or replace the key, please open a <u>support</u> ticket, <u>submit</u> <u>a request</u> or contact by e-mail at <u>support@itconductor.com</u>.
- Copy the license key file SIDREFRESH.LIC to the **SID-Refresh<sup>™</sup>** home directory where the SIDRefresh.jar is located.



## III. Administering System Refresh Using SID-Refresh™

A. Exporting the Target System's Technical Data and Configuration

## Using GUI

- 1. Launch **SID-Refresh<sup>TM</sup>** in GUI mode.
  - a. For Linux/Unix, run the following command in a terminal:

#### java -jar /Install/SIDRefresh.jar

b. For Windows, run the following command in command prompt:

#### java -jar SIDRefresh.jar

**Important:** If <sid>adm is not used to run the program, you will encounter an error. To troubleshoot this, please refer to the <u>SID-Refresh Help Wiki</u>.

2. **SID-Refresh<sup>TM</sup>** will check the environment variables and automatically search for R3trans in the default directory.

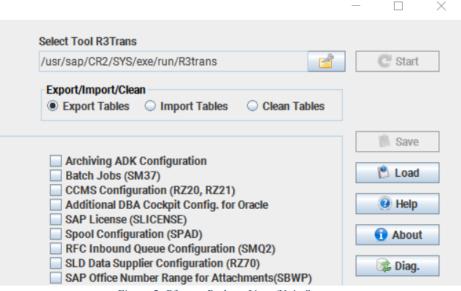


Figure 5: R3trans Path on Linux/Unix Systems



Select Tool R3Trans	
O:\usr\sap\MS1\SYS\exe\uc\NTAMD64\R3trans.exe 📑	C Start
Export/Import/Clean © Export Tables 🔾 Import Tables 🔾 Clean Tables	
	Save 🐘
Archiving ADK Configuration Batch Jobs (SM37) CCMS Configuration (P720, P724)	🖹 Load
CCMS Configuration (RZ20, RZ21) Additional DBA Cockpit Config. for Oracle SAP License (SLICENSE)	🕑 Help
Spool Configuration (SPAD) RFC Inbound Queue Configuration (SMQ2)	🚺 About
SLD Data Supplier Configuration (RZ70) SAP Office Number Range for Attachments(SBWP)	📚 Diag.

Figure 6: R3trans Path on Windows Systems

If R3trans is not in the default directory, you must specify the path where it is saved.

	—		$\times$
Select Tool R3Trans		C	Start
Export/Import/Clean			
Export Tables	n Tables		
		19	Save
Archiving ADK Configuration			
Batch Jobs (SM37)		1	Load
CCMS Configuration (RZ20, RZ21)			
Additional DBA Cockpit Config. for Oracle		0	Help
Figure 7: Manual Selection of R3.	trans Path		

Upon clicking the **open folder** button in the **Select Tool R3Trans** section, a dialog box will open where you can select the path where R3trans is saved. Click **Open**.



	ects Configura	)	Batch	ving ADK Configuration Jobs (SM37) S Configuration (RZ20, RZ21)	×
Operation I RFC Conne Backgroun SAP Office	ook <u>I</u> n:	run			B BWP)
SLD Access Trust Mana TMS Qualit Web Servic	msprot  niping  patches.mf	f	R3szchk R3ta	rscpf_ars rscpf_db rsccsfx	
Integration	R3check		rscparulib. o	rsigcoli	SDCCN)
Secure Stor	N3load		rscpf3f	rsigsend	<b>U</b> 3)
SAP NetWe	ile <u>N</u> ame: iles of <u>T</u> ype:	R3trans All Files			TD)
CRM Plug- SCM Basis				Open Canc	xel
EWM Interface		n	BWC	onfigurations	

Figure 8: Navigate to R3trans Path on Linux/Unix Systems

	ALE Cust	omizing		Archiving ADI	K Configuration	
	Archivin	🕌 Select R3Tra	าร		×	1
	Batch S( DBA Coc					
	Cross-C	– Look <u>i</u> n: 🛛 🗖 N	ITAMD64	-		
	Operatic					
	RFC Con	📄 🗋 patches.m	F	D3ta pdb	🗋 rscpf2f.ex	
	Backgro	R3ldctl.exe	ŧ	R3trans.exe	rscpf3f.ex	
	SAP Offi	R3ldNTms		B3trans.pdb	rsecssfx.	ts(SBWP)
	SLD Acc		-			
	Trust Ma TMS Qua	R3load.exe	ļ	🗋 rscparulib.dll	🗋 rspoconn	
	Web Ser	R3szchk.e	ĸe	🗋 rscpf_ars.exe	rstrcscs.	
	Internet	🗋 R3ta.exe		🗋 rscpf_db.exe	🗋 rstrfile.ex	
	🗌 Integrati					•
	Service	•			•	ta (SDCCN)
	Initial Sc	File Name:	R3trans.exe			
	SAP Neť	_				SWU3)
	Secure SAP Unit	Files of <u>T</u> ype:	All Files		•	ion(ETD)
	SAP Oni					UNI(ETD)
·	OAUTH S				Open Cancel	MODEL)
1	CRM Mic					
	CRM Plug	J-In Configuration	(CRM/ERP)	🔤 CRM Integrati	ion in ERP	_

Figure 9: Navigate to R3trans Path on Windows Systems



3. **SID-Refresh<sup>TM</sup>** will also define a default directory for the Export/Import/Clean.

🕌 SIDRefresh	
Select Directory for Export/Import/Clean	
/usr/sap/CR2/SYS/global/	
Select/Unselect	
Select Component           ALE Configuration           Archiving Customizing Configuration           Report Variants           CCMS History	ALE C Archiv Batch DBA C

Figure 10: Default Export/Import Path on Linux/Unix Systems

🕌 SIDRefresh	
Select Directory for Export/Import/Clean	
O:\usr\sap\MS1\SYS\global\	
Select/Unselect	
Select Component  ALE Configuration  Archiving Customizing Configuration  Report Variants  CCMS History  Operating System Commands (SM69)  Logon Groups (SMLG)  System Profiles (RZ10)	ALE C Archiv Batch DBA C Cross Opera RFC C

Figure 11: Default Export/Import Path on Windows Systems

**Recommendation:** Use a different export directory other than the default which now brings us to Step 4.



- 4. Create an **ExportImport** folder within the global directory.
- 5. Click the **open folder** button in **Select Directory for Export/Import** section and select the path where you created that folder.

🛓 SIDRefresh					
Select Directory for Export/Import/Clean		R3tran	s Processe	es	
Select/Unselect Select All  Unselect All		1	2	3	4
Select Component           ALE Configuration           Archiving Customizing Configuration           Report Variants           CCMS History           Operating System Commands (SM69)	Arch Bato DBA	ch Server	zing ects Config Groups (SM Configuratio File Names/	M61) on (DBACO	

Figure 12: Manual Path Selection for Export/Import

lann			
SIDRefresh			- 0
elect Directory for Export/Import/Clean	R3trans Processes	Select Tool R3Trans	
usr/sap/CR2/SYS/global/		/usr/sap/CR2/SYS/exe/run/R3trans	C Start
Select/Unselect	1 2 3 4 5 6 7 8	Export/Import/Clean	
Select All   Unselect All		Export Tables      Import Tables      C	lean Tables
Select Component			Save
ALE Configuration	ALE Customizing	Archiving ADK Configuration	
Archiving Customizing Configuration	Archiving Objects Configuration	Batch Jobs (SM37)	🖹 Load
Report Variants CCMS History	Batch Server Groups (SM61) DBA Cock	CCMS Configuration (RZ20, RZ21)	1 Help
Operating System Commands (SM69)	Cross-Clie Select Directory	×	
Logon Groups (SMLG)	Operation		6 About
System Profiles (RZ10)	RFC Conn Look In: global	▼ 🖬 🗂 🛯 😫 🖛	
RFC Outbound Queue Configuration (SM58, SMQ1)	Backgroun		Diag.
SAPconnect Configuration (SCOT)	SAP Office		SBWP)
HTTP Service Configuration (SICF)	SLD ACCES		
Security Audit Profile Configuration (SM19)	Sap		
TMS Configuration (STMS) Virus Scan Definitions (VSCAN)	TMS Quali 800JC CR2		
Test Workbench Configuration (CATT, eCATT, STWB)	Internet Ti Clean SYS		
Client Configuration (SCC4)	Export		
ChaRM/CTS Configuration	Service Da		(SDCCN)
Login Screen Information	Initial Scre		
Batch-Input Data and Configuration (SM35)	SAP NetW		(U3)
SAP NetWeaver LDAP Configuration (LDAP)	Secure Sto		
SAP Screen Personas Configuration	SAP Unifie Folder name: /usr/sap/CR2/SYS/g	obal/ExportImport	ETD)
SAP NetWeaver Switchable Authoriz.Checks(SACF)	SAP NetW		
OAUTH Client Configuration (OA2C_CONFIG)	OAUTH Se Files of Type:	•	IODEL)
CRM E-Mail Response Mngmt System Configuration	CRM Mide		
CRM WebClient Configuration	CRM Plug	Open Cancel	
SRM Component Configuration	SCM Basis	Open Cancer	
Remote Control and Communication Framework Conf	SCM Conf.		1
EWM Server Configuration	EWM Interface Configuration	BW Configurations	

Figure 13: Changing Path to Global Directory on Linux/Unix Systems



🕌 Select Directory	$\times$
Look <u>I</u> n: 📑 global	- 6 6 C 88 E
<ul> <li>000JOBLG security</li> <li>001JOBLG syb</li> <li>800JOBLG</li> <li>Clean</li> <li>ExportImport</li> <li>Old_</li> <li>sapcontrol</li> </ul>	
Folder name:       /usr/sap/CR2/SYS/global/ExportImport         Files of Type:	
	Open Cancel

Figure 14: Selecting ExportImport Directory on Linux/Unix Systems

🕌 Select Direct	or <del>y</del>	×
Look <u>i</u> n: 📑 g	Jobal	A A A B E
C 000JOBLG	📑 sapcontrol	
C 001JOBLG	🚍 security	
📑 AdobeDoci	umentServices 🚍 sld	
📑 db6	📑 sitoois	
ExportImpo	ort 🗖 TemplateConfig	I
📑 j2eeclient		
🚍 ra		
Folder <u>n</u> ame:	O:\usr\sap\MS1\SYS\global\ExportI	mport
Files of <u>T</u> ype:		
		Open Cancel

Figure 15: Manual Path Selection for Export/Import on Windows Systems



6. Select the number of R3trans processes to use for the export procedure.

SIDRefresh	
Select Directory for Export/Import/Clean /usr/sap/CR2/SYS/global/	R3trans Processes Select
Select/Unselect	1 2 3 4 5 6 7 8 (*) Expo (*) Expo
Select Component  ALE Configuration  Archiving Customizing Configuration  Report Variants  CCMS Listory  Figure 16: Number of	ALE Customizing Archiving Objects Configuration Batch Server Groups (SM61) COMPACOCKPIT

SID-Refresh<sup>TM</sup> checks the number of processors (CPU) in the system. By default, the slider is positioned at 1. The slider in the tool allows you to select the number of concurrent R3trans tasks that you want to run. A maximum of 8 is allowed since higher than 8 does not yield to shorter runtime.

Checkpoint: If any of the following are incorrect, the Save and Start buttons, as well as the component selections, will be graved out or disabled. So, ensure these two are properly defined.

- Export/Import path •
- R3trans path •
- 7. In the **Export/Import/Clean** section, select the **Export Tables** radio button.





8. Select the components that you want to export and save.

elect Directory for Export/Import/Clean	R3trans Processes	Select Tool R3Trans
isr/sap/CR2/SYS/global/		/usr/sap/CR2/SYS/exe/run/R3trans
Select/Unselect	1 2 3 4 5 6 7 8	Export/Import/Clean
Select All   Unselect All		Export Tables      Import Tables      Clean Tables
elect Component		👏 Sa
ALE Configuration	✓ ALE Customizing	✓ Archiving ADK Configuration
Archiving Customizing Configuration	Archiving Objects Configuration	Batch Jobs (SM37)
Report Variants CCMS History	Batch Server Groups (SM61)	CCMS Configuration (RZ20, RZ21)  Additional DBA Cockpit Config. for Oracle
Operating System Commands (SM69)	DBA Cockpit Configuration (DBACOCKPIT)     Cross-Client File Names/Paths (FILE)	SAP License (SLICENSE)
Logon Groups (SMLG)	Operation Modes (RZ04)	Spool Configuration (SPAD)
System Profiles (RZ10)	RFC Connections (SM59)	RFC Inbound Queue Configuration (SMQ2)
RFC Outbound Queue Configuration (SM58, SMQ1)	Background RFC (SBGRFCMON)	SLD Data Supplier Configuration (RZ70)
SAPconnect Configuration (SCOT)	SAP Office Configuration (SBWP)	SAP Office Number Range for Attachments(SBWP)

In the **Select/Unselect** section, You can either select the **Select All** radio button or individually check the checkboxes of the configuration files you want to export.

elect Directory for Export/Import/Clean usr/sap/CR2/SYS/global/ Select/Unselect Select All Unselect All	R3trans Processes 1 2 3 4 5 6 7 8	Select Tool R3Trans /usr/sap/CR2/SYS/exe/run/R3trans Export/Import/Clean © Export Tables O Import Tables O Clean Tables	Start
Select Component         Image: Archiving Customizing Configuration         Image: Archiving Customizing Configuration         Image: Archiving Customizing Configuration         Image: CMS History         Operating System Commands (SM69)         Image: Operating System Commands (SM69)         Image: Operating System Commands (SM69)         Image: System Profiles (R210)         Image: System Profiles (R210)         Image: System Profiles (R210)         Image: Archive Configuration (SC07)         Image: HTTP Service Configuration (SC07)         Image: HTTP Service Configuration (SC07)         Image: Security Audit Profile Configuration (SC19)         Image: The Configuration (STM5)         Image: Virus Scan Definitions (VSCAN)	ALE Customizing     Archiving Objects Configuration     Batch Server Groups (SM61)     DBA Cockpit Configuration (DBACOCKPIT)     Operation Modes (RZ04)     Poperation Modes (RZ04)     PRFC Connections (SM59)     Background RFC (SBGRFCMON)     SLD Access Data Configuration (SLDAPICUST)     Trust Manager Configuration (STRUST)     This Quality Assurance Configuration (STMS)     Web Service Configuration (SOAMAAGER)	Archiving ADK Configuration     Batch Jobs (SM37)     COMS Configuration (RZ20, RZ21)     Additional DBA Cockpit Config. for Oracle     SAP License (SLICENSE)     Spool Configuration (SPAD)     Ref C Inbound Queee Configuration (RZ70)     SLD Data Supplier Configuration (RZ70)     SAP Office Number Range for Attachments(SBWP)     Vedate Program Administration (SM14)     SNC Access Control List (STRUSTSS02)     Version Management     Version Management	.oad Help

9. Users have the option to save the configuration selection for later use or next execution of the export procedure. To do this, click the **Save** button, specify the file name and save it in the same **ExportImport** path you have defined in Step 2. (Optional)

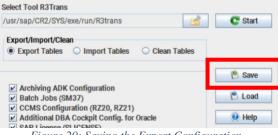


Figure 20: Saving the Export Configuration



Alternatively, you can select the **Load** button to use an existing configuration/selection you have saved in your previous run.

/usr/sap/CR2/SYS/exe/run/R3trans	C Start
Export/Import/Clean © Export Tables O Import Tables O Clean Tables	
	🖄 Save
<ul> <li>Archiving ADK Configuration</li> <li>Batch Jobs (SM37)</li> <li>CCMS Configuration (RZ20, RZ21)</li> </ul>	🖄 Load
Additional DBA Cockpit Config. for Oracle	Help

A dialog box will open. Navigate to the directory where you saved the export configuration file you have previously saved, select that file, and click **Open**.

		~
R3trans Processes	Select Tool R3Trans	
	/usr/sap/CR2/SYS/exe/run/R3trans	C Start
1 2 3 4 5 6 7 8	Export/Import/Clean © Export Tables	]
Le Customizing	ion file ×	🐘 Save
rchiving Objects Config atch Server Groups (SM_Look In: ExportIm	port 💌 🖬 🗇 🗖 🐯 🗁	🖹 Load
BA Cockpit Configurati		Help
peration Modes (RZ04) FC Connections (SM59		1 About
ackground RFC (SBGRI		📚 Diag.
AP Office Configuration LD Access Data Configu		
rust Manager Configura		
MS Quality Assurance ( /eb Service Configuratio		
nternet Transaction Serv		
ntegration Engine Confi ervice Data Control Cen File <u>Name:</u> export_1	3.cfg	
nitial Screen Configurati AP NetWeaver Workflov	· ·	
ecure Store (SECSTORE AP Unified Connectivity	Open Cancel	
AP NetWeaver Maintain	Open Cancer	
AUTH Server Configuration (SOAUTH2)	Relationship Service Configuration (SREL_MODEL)	
RM Middleware Configuration	CRM Component Configuration	
RM Plug-In Configuration (CRM/ERP)	CRM Integration in ERP	
CM Basis Integration Configuration	SCM Server Integration Configuration	
Figure 22: Navigat	ing and Selecting the Configuration File	

10. Click the **Start** button to start the export process for all the configurations you have selected in Step 7.



Select Tool R3Trans	
/usr/sap/CR2/SYS/exe/run/R3trans	C Start
Export/Import/Clean Export Tables      Import Tables      Clean Tables	
Archiving ADK Configuration Batch Jobs (SM37)	🕲 Save
<i>Figure 23: Starting the Export Process</i>	

Depending on the complexity of your systems, the degree of parallelism (i.e. the number of concurrent R3trans processes) you have indicated in Step 6, and the number of components you have selected in Step 8, the entire export process may take from a few minutes up to several hours. The status of the process execution can be seen in the progress bar at the bottom of the screen.



Figure 24: Export Progress Bar

Once the export process is completed, you will be notified by the "**Export Complete**" message box. Click **OK**.



In addition, the **Export/Import/Clean Return Code** panel will display logs containing the components with the export process run time. You can check for any errors and perform troubleshooting if necessary. You may refer to the <u>SID-Refresh Help Wiki</u>



SRM Component Configuration Remote Control and Communication Framework Conf EWM Server Configuration	SCM Basis Integration Configuration SCM Configuration in ERP EWM Interface Configuration	SCM Server Integration Configuration GTS Component Configuration BW Configurations	
0000 Archiving ADK Configuration Process run time 00:0	ou can see the details of Export/Import in the log fil 000 : No errors or problems have occurred.	ie. The following return codes are possible:	
0000 Archiving Customizing Configuration Process run 1 0000 115 Output	004 : Warnings have occurred but they can be igno 008 : Transport could not be finished completely. P 012 : Fatal errors have occurred, such as errors whi ithin the database interface, in particular database 016 : Situations have occurred that should not hav	roblems occurred with certain objects. le reading or writing a file or unexpected errors problems.	Exit

Figure 26: Export Return Codes

**Note:** All other operations (Start, Save, Load, Diagnose, Open Folder, etc.) will be disabled. These buttons will be grayed out and will remain inactive until the export process has been completed.

## Using Console

- 1. To run in console mode, you must specify the command line options.
  - a. For Linux/Unix, run the following command in a terminal:

## java -jar /Install/SIDRefresh.jar -h

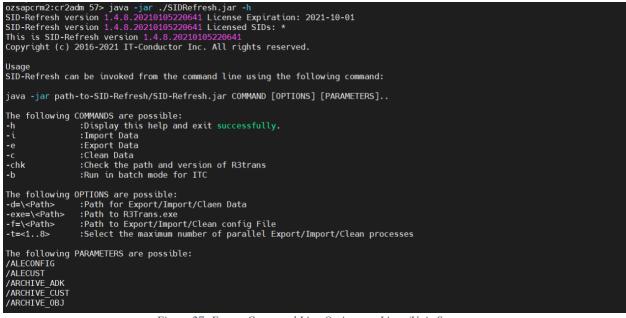


Figure 27: Export Command Line Options on Linux/Unix Systems



b. For Windows, run the following command in command prompt:

## java -jar SIDRefresh.jar -h

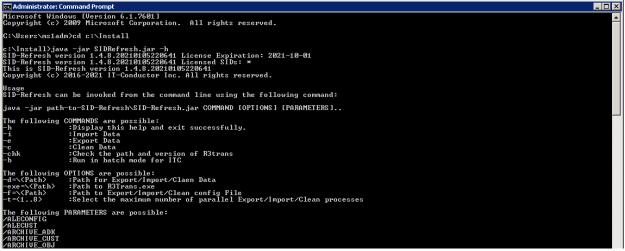


Figure 28: Export Command Line Options on Windows Systems

**Recommendation:** Run the program with the key **-chk** during the first run to check the environment variables and the console command line options will be displayed which can then be substituted into the launch command.





Figure 30: -chk Option to Check Path and Version of R3trans on Windows Systems

- 2. Specify the following in the command to be executed upon export
  - Directory for the export
  - Path to the R3trans program
  - Number of maximum R3trans (if not specified, the default is 1)
  - Specific components or all of the components for export



a. For Linux/Unix, run the following command in a terminal:

java -jar /Install/SIDRefresh.jar -e -t=4 d=/usr/sap/<SID>/SYS/global/ExportImport exe=/usr/sap/<SID>/SYS/exe/run/R3trans /ALECONFIG /ALECUST /ARCHIVE\_ADK

ozsapcrm2:cr2adm 56> java -jar /Install/SIDRefresh.jar -e -t=4 -d=/usr/sap/CR2/SYS/global/ExportImport -exe=/usr/sap/CR2/SYS/exe/run/R3trans /ALECONFIG /ALECUST /ARCHIVE ADK
SID-Refresh version 1.4.8.20210105220641 License Expiration: 2021-10-01
SID-Refresh version 1.4.8.20210105220641 Licensed SIDs: *
R3trans: /usr/sap/CR2/SYS/exe/run/R3trans
Directoty Export/Import: /usr/sap/CR2/SYS/global/ExportImport
Number of processing threads: 4
Process is starting. Please wait while Data are Exporting or Importing
Working time can be up to 1-2 hours
[=================================] 100%
Export Process run time 00:00:01
Export Processes Completed!
See Log File SID-Refr <u>e</u> sh.log in Directory /usr/sap/CR2/SYS/global/ExportImport

Figure 31: Completion of Console Execution on Linux/Unix Systems

Alternatively, you can specify **/ALL** if you want to export all the components of the source system.

```
java -jar /Install/SIDRefresh.jar -e -t=4 -
d=/usr/sap/<SID>/SYS/global/ExportImport -
exe=/usr/sap/<SID>/SYS/exe/run/R3trans /ALL
```

b. For Windows, run the following command in command prompt

```
java -jar C:\Install\SIDRefresh.jar -e -t=4 -
d=D:\usr\sap\<SID>\SYS\global\ExportImport -
exe=D:\usr\sap\<SID>\SYS\exe\uc\NTAMD64\R3trans.exe
/ALECONFIG /ALECUST /ARCHIVE_ADK
```

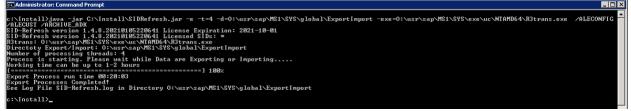


Figure 32: Example Console Execution on Windows Systems

Alternatively, you can specify /ALL if you want to export all the components of the source system.

```
java -jar C:\Install\SIDRefresh.jar -e -t=4 -
d=D:\usr\sap\<SID>\SYS\global\ExportImport -
exe=D:\usr\sap\<SID>\SYS\exe\uc\NTAMD64\R3trans.exe /ALL
```



- 3. SID-Refresh<sup>™</sup> also provides you an option to run the export process based on a previously saved configuration.
  - a. For Linux/Unix, run the following command in a terminal:

java -jar /Install/SIDRefresh.jar f=/usr/sap/<SID>/SYS/global/ExportImport/<file name>.cfg



Figure 33: Exporting with Previously Saved Config on Linux/Unix Systems

b. For Windows, run the following command in command prompt:

## java -jar C:\Install\SIDRefresh.jar f=D:\usr\sap\<SID>\SYS\global\ExportImport\export\_13.cfg

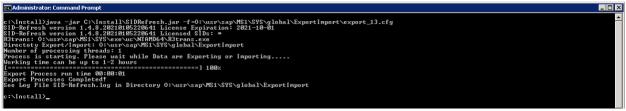


Figure 34: Exporting with Previously Saved Config on Windows

## Validation of Successful Export

- 1. Navigate to the **ExportImport** directory.
- 2. Validate the content within the **ExportImport** folder and check if there is a **.log** file created.
- 3. View the content of the **.log** file. It should contain the tables exported as part of the configuration.
- 4. Alternatively, you can navigate to the subdirectories containing the actual configuration itself. You should see the exported .log file and the **.dat** file.
- 5. You can view the **.log** file for more details and to see the actions that were generated from each of those configurations. This will create a command file



and also the data that will be used in the importing procedure after the database refresh.

B. Cleaning the Target System's Technical Data and Configuration

## Using GUI

- 1. Launch **SID-Refresh<sup>TM</sup>** in GUI mode.
  - a. For Linux/Unix, run the following command in a terminal:

## java -jar /Install/SIDRefresh.jar

b. For Windows, run the following command in command prompt:

## java -jar SIDRefresh.jar

**Important:** If <sid>adm is not used to run the program, you will encounter an error. To troubleshoot this, please refer to the <u>SID-Refresh Help Wiki</u>.

2. **SID-Refresh<sup>TM</sup>** will check the environment variables and automatically search for R3trans in the default directory.

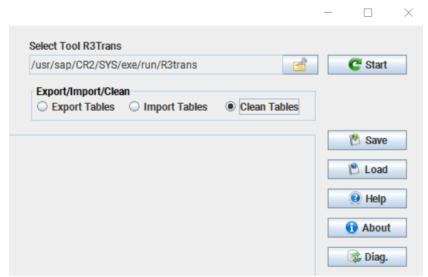


Figure 35: R3trans Path on Linux/Unix Systems



Select Tool R3Trans	
O:\usr\sap\MS1\SYS\exe\uc\NTAMD64\R3trans.exe	C Start
Export/Import/Clean	
○ Export Tables ○ Import Tables	
	-
	Save Save
	🖹 Load
	🕑 Help
	e neib
	🚺 About
	📚 Diag.
	trag.

Figure 36: R3trans Path on Windows Systems

If R3trans is not in the default directory, you must specify the path where it is saved.

	_		$\times$
Select Tool R3Trans			
		C Sta	art
$\Gamma_{1}^{*}$	$(\dots,\dots,\dots,D,\dots,1)$		

Figure 37: Manual Selection of R3trans Path

Upon clicking the **open folder** button in the **Select Tool R3Trans** section, a dialog box will open where you can select the path where R3trans is saved.

🔬 Select R3Tran	S	
Look In:	n	- G C 888
msprot	R3szchk	rscpf_ars
niping	R3ta	rscpf_db
patches.mf	R3trans	rsecssfx
R3check	rscparulib.so	rsigcoli
R3IdetI	rscpf2f	rsigiscs
R3load	rscpf3f	rsigsend
•		
File Name:	R3trans	
Files of Type:	All Files	
		Open Cancel

Figure 38: Navigating to R3trans Path on Linux/Unix Systems



🗌 A	ALE Customizing ACK Configuration					
<u> </u>	Irchivin	🕌 Select R3Tra	ns		X	1
ШВ	satch Se					- I
	BA Coc	Look in: 📑 i	NTAMD64			
	Cross-C Dperatic					
	RFC Con	patches.m	f	R3ta.pdb	rscpf2f.ex	
	ackgro	R3ldctl.exe		R3trans.exe	rscpf3f.ex	
	SAP Offi					ts(SBWP)
🗌 S	SLD Acc	R3ldNTms	s.pdb	R3trans.pdb	C rsecssfx.	
	rust Ma	📄 🗋 R3load.exe	,	🗋 rscparulib.dll	🗋 rspoconn	
	MS Qua	R3szchk.e	xe	🗋 rscpf_ars.exe	Stress.	
	Neb Sei	R3ta.exe		rscpf_db.exe	rstrfile.ex	
						L
_	-	•			•	ta (SDCCN)
	nitial Sc	<b>F</b> <sup>2</sup>				
🗌 S	SAP Neť	File <u>N</u> ame:	R3trans.exe			SWU3)
<u></u> S	Secure !	Files of <u>T</u> ype:	All Files		-	
	SAP Unit					ion(ETD)
					Onon Cancol	HODELL
					Open Cancer	-MODEL)
		I.In Configuration	(CRM/ERP)	CRM Integra	ation in FRP	1
Figure 39: Navigating to R3trans Path on Windows Systems						
	SAP Net Secure ! SAP Unit SAP Net DAUTH ! CRM Mic	File <u>N</u> ame: Files of <u>Type</u> :	n (CRM/ERP)	CRM Integra	Open Cancel	

3. **SID-Refresh<sup>TM</sup>** will also define a default directory for the Export/Import/Clean.

SIDRefresh	
Select Directory for Export/Import/Clean	
/usr/sap/CR2/SYS/global/	
Select/Unselect	
ALE Configuration     Archiving Customizing Configuration     Report Variants     CCMS History	ALE C Archin Batch DBA C
Figure 40: Default Clean Path on Linux/Unix System	ms



🛃 SIDRefresh	
Select Directory for Export/Import/Clean	
O:\usr\sap\MS1\SYS\global\	
Select/Unselect	
Select Component	
ALE Configuration	🔲 ALE C
Archiving Customizing Configuration	🔤 Archiv
Report Variants	🔤 Batch
CCMS History	📃 DBA C
Operating System Commands (SM69)	🔄 Cross
Logon Groups (SMLG)	📃 Орега
System Profiles (RZ10)	RFC C
Figure 41: Default Clean Path on Windows S	vstems

**Recommendation:** Use a different directory for the Clean Up process for backup purposes.

4. Click the **open folder** button in **Select Directory for Export/Import** section. Create a new folder for the **Clean Up** process.

🕌 Select Direct	or <b>y</b>			×
Look in: 📑 (	ylobal		<b>•</b> 🖬 1	
C 000JOBLG	i	📑 ra		
C 001JOBLG	i	📑 sapcontrol		
AdobeDoc	umentServices	s 📑 security		
📑 Clean		📑 sld		
📑 db6		📑 sitools		
📑 Exportimp	ort	📑 TemplateConfig		
📑 j2eeclient				
Folder <u>n</u> ame:	O:\usr\sap\MS	1\SYS\global\Clean		
Files of <u>T</u> ype:				-
			Open	Cancel

Figure 42: Creating a New Clean Folder on Windows Systems

5. Select the number of R3trans processes to use for the export procedure.



🕌 SIDRefresh

Select Directory for Export/Import/Clean /usr/sap/CR2/SYS/global/	R3trans Processes	Select /usr/s
Select/Unselect	1 2 3 4 5 6 7 8	Expo Expo
ALE Configuration     Archiving Customizing Configuration     Report Variants     COMS History	ALE Customizing Archiving Objects Configuration Batch Server Groups (SM61) DBA Cockpit Configuration (DBACOCKPIT) ns Processes for Clean Up	

**SID-Refresh<sup>TM</sup>** checks the number of processors (CPU) in the system. By default, the slider is positioned at 1. The slider in the tool allows you to select the number of concurrent R3trans tasks that you want to run. A maximum of 8 is allowed since higher than 8 does not yield to shorter runtime.

**Checkpoint:** If any of the following are incorrect, the Save and Start buttons, as well as the component selections, will be grayed out or disabled. So, ensure these two are properly defined.

- Export/Import path
- R3trans path
- 6. Select the components that you want to clean up and save.



elect Directory for Export/Import/Clean	R3trans Pr	cesses				Select Tool R3Trans		
isr/sap/CR2/SYS/global/	1 2 3	3 4	5 6	7	8	/usr/sap/CR2/SYS/exe/run/R3trans Export/Import/Clean		C Start
Select All Unselect All							an Tables	
elect Component								🕅 Save 🖹 Load
Cleanup of Additional DBA Cockpit Config. for Oracle Cleanup of Spool Configuration (SPAD) Cleanup of System Profiles (RZ10)								<ul><li>Help</li><li>About</li></ul>
Cleanup of RFC Inbound Queue Configuration (SMQ2) Cleanup of RFC Outbound Queue Configuration (SM58, SMQ1) Cleanup of Background RFC (SBGRFCMON) Cleanup of SAPconnect Configuration (SCOT)							ĺ	🎼 Diag.
Cleanup of SLD Access Data Configuration (SLDAPICUST) Cleanup of TMS Configuration (STMS) Cleanup of TMS Service Configuration (SOAMANAGER) Cleanup of Integration Engine Configuration (SXMB_ADM) Cleanup of Integration and Configuration (SM35)								
Cleanup of SAP NetWeaver Enterprise Threat Detection(ETD) Cleanup of Selected ABAP Basis Tables (OTHERS) Cleanup of Operating System Monitoring Data (ST03N)								
port/Import/Clean Return Code:								

Figure 44: Component Selection for Clean Up Process

In the **Select/Unselect** section, You can either select the **Select All** radio button or individually check the checkboxes of the configuration files you want to export.

elect Directory for Export/Import/Clean	R3tr	ansl	Ргос	essi	es				Select Tool R3Trans
:lusr\sap\MS1\SYS\global\Clean;		2	3		5	6	1	8	O:lusrksaplMS1\SYStexeluclNTAMD64\R3trans.exe 📑 C Start
Select/Unselect Select All 🛛 Unselect All		2	5	*	5	0		0	Export/Import/Clean C Export Tables Import Tables
Select Component  Cleanup of CCMS Configuration (RZ20, RZ21)  Cleanup of CCMS History  Cleanup of DBA Cockpit Configuration (DBACOCKPIT)  Cleanup of Additional DBA Cockpit Config. for Oracle  Cleanup of System Profiles (RZ10)  Cleanup of RFC Inbound Queue Configuration (SM02)  Cleanup of RFC Outbound Queue Configuration (SM02)  Cleanup of BAcConguration (SCM0)  Cleanup of SAPconnect Configuration (SCM0)  Cleanup of SAPconnect Configuration (SCM0)  Cleanup of SAPconnect Configuration (SLDAPICUST)  Cleanup of Meb Service Configuration (SLDAPICUST)  Cleanup of Meb Service Configuration (SCMANAGER)  Cleanup of Integration Engine Configuration (SM35)  Cleanup of SAP NetWeaver Enterprise Threat Detection(ETD)									<ul> <li>Save</li> <li>Load</li> <li>Help</li> <li>About</li> <li>Diag.</li> </ul>
Cleanup of Selected ABAP Basis Tables (OTHERS)									

Figure 45: Select or Unselect All for Clean Up Process

「-Conductor<sup>™</sup>

7. Users have the option to save the configuration selection for later use or next execution of the export procedure. To do this, click the **Save** button, specify the file name and save it in the same **newly created** path for the Clean Up process you have defined in Step 4. (Optional)

												_		~
R3t	rans I	Proce	esses	•				Select Tool R3Trans	3					
	1	1	1		1			/usr/sap/CR2/SYS	/exe/run/R3trans		<b>1</b>		C Start	
1	2	3	4	5	6	7	8	Export/Import/Cle	an O Import Tables	Clean Tail	bles			
													🔥 Save	
													🖹 Load	
													🕑 Help	
													1 About	
													📚 Diag.	

Figure 46: Saving the Clean Up Configuration

A dialog box will open. Navigate to the directory where you saved the **Clean Up** configuration file you have previously saved, select that file, and click **Open**.



🕌 Save yo	ur cor	nfiguration file		×
Save <u>i</u> n:	<b>_</b>	lean	-	a 🗇 🗅 🙁 🗄
		📑 usr		
		📑 sap		
		📑 MS1		
		📑 SYS	_	
		📑 global		
		📑 Clean		
	_	🗟 software (\\ozraid01) (R:)		
	8	🗟 Swap (S:)	•	
File <u>N</u> ame	:	clean_13		
Files of <u>T</u> y	pe:	Configuration file		•
			[	Save Cancel

Figure 47: Navigating and Selecting the Clean Up Configuration File

8. Click the **Start** button to start the **Clean Up** process for all the configurations you have selected in Step 7.

	-		×
Select Tool R3Trans			
/usr/sap/CR2/SYS/exe/run/R3trans		C Start	
Export/Import/Clean Circle Export Tables Import Tables Clean Tables			
		🔥 Save	
		🖹 Load	
		🕑 Help	
		🚺 About	
		📚 Diag.	

Figure 48: Starting the Export Process



A dialog will open for the request to perform a backup for the tables to be cleaned up.

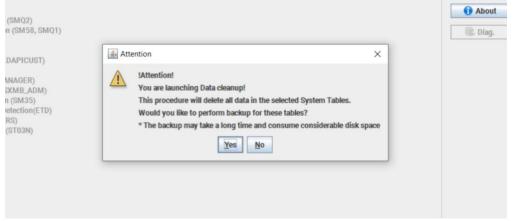


Figure 49: Warning Dialog Box When Launching Data Cleanup

Depending on the complexity of your systems, the degree of parallelism (i.e. the number of concurrent R3trans processes) you have indicated in Step 5, and the number of components you have selected in Step 6, the entire export process may take from a few minutes up to several hours. The status of the process execution can be seen in the progress bar at the bottom of the screen.

elect Directory for Export/Import/Clean	R3trans Processes	Select Tool R3Trans		
usr/sap/CR2/SYS/global/		/usr/sap/CR2/SYS/exe/run/R3trans	mi .	C Start
Select/Unselect	1 2 3 4 5 6 7 8	Export/Import/Clean Circle Export Tables Import Tables Clean Table	es	
Select Component				Save
Cleanup of CCMS Configuration (RZ20, RZ21) Cleanup of CCMS History				Load
Cleanup of DBA Cockpit Configuration (DBACOCKPIT) Cleanup of Additional DBA Cockpit Config. for Oracle Cleanup of Spool Configuration (SPAD)				😟 Help
Cleanup of System Profiles (RZ10) Cleanup of RFC Inbound Queue Configuration (SMQ2)				🚯 About
Cleanup of RFC Outbound Queue Configuration (SM58, SMQ1) Cleanup of Background RFC (SBGRFCMON) Cleanup of SAPconnect Configuration (SCOT)				🐘 Diag.
Cleanup of SLD Access Data Configuration (SLDAPICUST) Cleanup of TMS Configuration (STMS) Cleanup of Web Service Configuration (SOAMANAGER)				
Cleanup of Integration Engine Configuration (SXMB_ADM) Cleanup of Batch-Input Data and Configuration (SM35)				
Cleanup of SAP NetWeaver Enterprise Threat Detection(ETD) Cleanup of Selected ABAP Basis Tables (OTHERS) Cleanup of Operating System Monitoring Data (ST03N)				
xport/Import/Clean Return Code:				
004 CCMSCONFIG Process run time 00:00:02			<b>^</b>	
			-	
	25%			🙂 Exit

Figure 50: Clean Up Progress Bar



In addition, the **Export/Import/Clean Return Code** panel will display logs containing the components with the process run time. You can check for any errors and perform troubleshooting if necessary. You may refer to the <u>Troubleshooting Guide</u>.

xport/Import/Clean Return Code:			
1004 COMSHISTORY Process run tim	You can see the details of Export/Import in the log file. The following return codes are possible: 0000 : No errors or problems have occurred. 0004 : Warnings have occurred but they can be ignored. 0008 : Transport could not be finished completely. Problems occurred with certain objects. 0012 : Fatal errors have occurred, such as errors while reading or writing a file or unexpected errors within the database interface, in particular database problems. 0016 : Situations have occurred that should not have.	A T	U Exit

Figure 51: Clean Return Codes

**Note:** All other operations (Start, Save, Load, Diagnose, Open Folder, etc.) will be disabled. These buttons will be grayed out and will remain inactive until the **Clean Up** process has been completed.

#### Using Console

1. To run in console mode, you must specify the command line options.

a. For Linux/Unix, run the following command in a terminal:

## java -jar /Install/SIDRefresh.jar -h

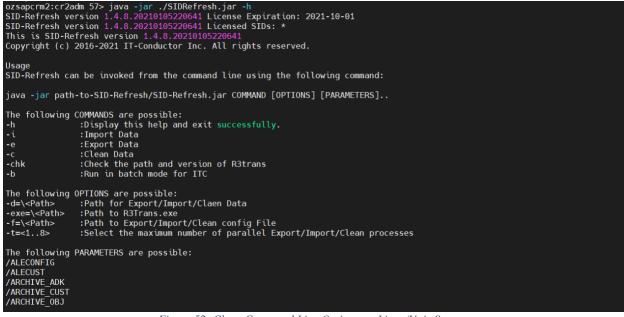


Figure 52: Clean Command Line Options on Linux/Unix Systems



\_b. For Windows, run the following command in command prompt:

## java -jar SIDRefresh.jar -h

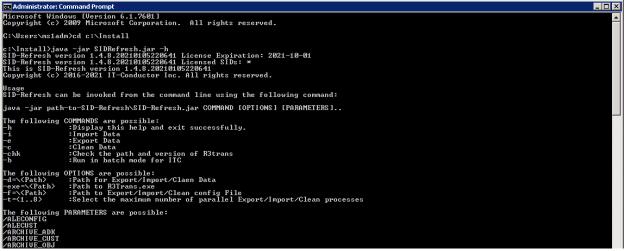


Figure 53: Clean Command Line Options on Windows Systems

**Recommendation:** Run the program with the key **-chk** during the first run to check the environment variables and the console command line options will be displayed which can then be substituted into the launch command.





Figure 55: -chk Option to Check Path and Version of R3trans on Windows Systems



2. Specify the following in the command to be executed upon the clean-up procedure:

- Directory for the Clean
- Path to the R3trans Program
- Number of maximum R3trans (if not specified, the default is 1)
- Specific Components or All of the Components for Clean

a. For Linux/Unix, run the following command in a terminal:

java -jar /Install/SIDRefresh.jar -c -t=4 d=/usr/sap/<SID>/SYS/global/Clean exe=/usr/sap/<SID>/SYS/exe/run/R3trans /CCMSCONFIG /CCMSHISTORY /DBACOCKPIT /DBAORACLE /PRINTER



Figure 56: Completion of Console Execution on Linux/Unix Systems

Alternatively, you can specify /ALL if you want to export all the components of the source system.

java -jar /Install/SIDRefresh.jar -c -t=4 d=/usr/sap/<SID>/SYS/global/Clean exe=/usr/sap/<SID>/SYS/exe/run/R3trans /ALL

b. For Windows, run the following command in command prompt:

java -jar C:\Install\SIDRefresh.jar -c -t=4 d=D:\usr\sap\<SID>\SYS\global\Clean exe=D:\usr\sap\<SID>\SYS\exe\uc\NTAMD64\R3trans.exe /CCMSCONFIG /CCMSHISTORY /DBACOCKPIT /DBAORACLE /PRINTER





Figure 57: Example Console Execution on Windows Systems

Alternatively, you can specify /ALL if you want to export all the components of the source system.

```
java -jar C:\Install\SIDRefresh.jar -c -t=4 -
d=D:\usr\sap\<SID>\SYS\global\Clean -
exe=D:\usr\sap\<SID>\SYS\exe\uc\NTAMD64\R3trans.exe /ALL
```

A dialog will open for the request to perform a backup for the tables to be cleaned up:

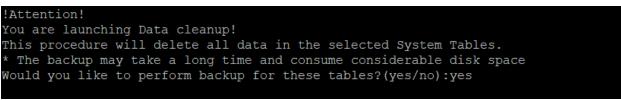


Figure 58: Warning Dialog Box when Launching Data Cleanup

3. **SID-Refresh<sup>TM</sup>** also provides you an option to run the clean process based on a previously saved configuration.

a. For Linux/Unix, run the following command in a terminal:

java -jar /Install/SIDRefresh.jar f=/usr/sap/<SID>/SYS/global/Clean/<file name>.cfg

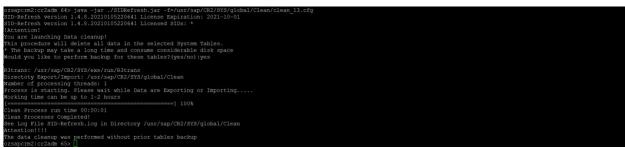


Figure 59: Cleaning with Previously Saved Config on Linux/Unix Systems



b. For Windows, run the following command in command prompt:

java -jar C:\Install\SIDRefresh.jar f=D:\usr\sap\<SID>\SYS\global\Clean\<file name>.cfg



Figure 60: Cleaning with Previously Saved Config on Windows

Validation of Successful Clean

1. Navigate to the Clean directory.

2. Validate the content within the Clean folder and check if there is a .log file created.

3. View the content of the .log file. It should contain the tables cleaned as part of the configuration.

4. Alternatively, you can navigate to the subdirectories containing the actual configuration itself. You should see the exported .log file and the .dat file.
5. You can view the .log file for more details and to see the actions that were generated from each of those configurations.

## Restoring a table(s) from Backup

If you want to restore a table(s) from backup, click **Yes** when the dialog box in Step 8 (Clean Up) asks you if you want to perform backup. Then select **Import Tables**, ensure you are in the **Clean Up** directory, select the components that you want to restore, and finally click **Start**.



elect Directory for Export/Import/Clean usr/sap/CR2/SYS/global/Clean:	R3trans Processes	Select Tool R3Trans /usr/sap/CR2/SYS/exe/run/R3trans	C Start
Select/Unselect Select All  Unselect All	12345678	Export/Import/Cline. Ciper Tables Import Tables Clean Tables	
Select Component			🔥 Save
ALE Configuration     Activities Configuration     Report Variants	ALE Customizing     Archiving Objects Configuration     Batch Server Groups (SM61)	Archiving ADK Configuration Batch Jobs (SM37) CCMS Configuration (RZ20, RZ21)	🖄 Load
CCMS History Operating System Commands (SM69)	DBA Cockpit Configuration (DBACOCKPIT) Cross-Client File Names/Paths (FILE)	Additional DBA Cockpit Config. for Oracle	🤨 Help
Logon Groups (SMLG) System Profiles (RZ10) RFC Outbound Oueue Configuration (SM 8, SMQ1)	Operation Modes (RZ04) RFC Connections (SM59)	Spool Configuration (SPAD)  RFC Inbound Queue Configuration (SMQ2)  SLD Data Supplier Configuration (RZ70)	1 About
SAPveonneet Configuration (SCO1) HTTP Service Configuration (SICF) Security Audit Profile Configuration (SICF) This Configuration (STMS) Virus Scan Definitions (VSCAN) Client Configuration (CATT, eCATT, STWB) Client Configuration (SCC4) CohRM/CTS Configuration Batch-Input Data and Configuration (SM35) SAP NetWeaver LDAP Configuration SAP NetWeaver Switchable Authoriz.Checks(SACF) OAUTH Client Configuration (A2C_CONFIG) CRM WebClient Configuration SRM Component Configuration Remote Control and Communication Framework Conf_ EWM Serve Configuration Remote Control and Communication Framework Conf_	SAP office Configuration (SBWP)     SLD Access Data Configuration (SLDAPICUST)     Trust Manager Configuration (STRUST)     Trust Manager Configuration (STRUST)     Web Service Configuration (SOAMANAGER)     Internet Transaction Server Config. (ACOR, ITS)     Integration Engine Configuration (STMB_ADM)     Service Data Control Center Configuration (SCMB_ADM)     Service Data Control Center Configuration (SWU3)     Server Configuration (SMW0)     SAP NetWeaver Workflow Configuration (SWU3)     Secure Store (SECSTORE)     SAP NetWeaver Monthal Whitelists(SLDW)     OAUTH Server Configuration     (SMM Plug-In Configuration     (CRM Plug-In Configuration     (CRM_ERP)     SCM Configuration in ERP     EWM Interface Configuration	SAP Office Number Range for Attachments(SBWP) Update Program Administration (SM14) SWC Access Control List (STRUSTSSO2) Version Management Users (SU01) SolMan Configuration in Managed System Service Data Control Center Download Data (SDCCN) Lock/Unlock Users (EWZ5) SAP NetWeaver Workflow Runtime Data (SWU3) SAP NetWeaver Workflow Runtime Data (SWU3) SAP NetWeaver Enterprise Threat Detection(ETD) SAML 2 Configuration (SAML2) Relationship Service Configuration (SEL_MODEL) CRM Component Configuration CRM Integration in ERP SCM Server Integration Configuration GTS Component Configuration BWC Configuration BWC Configuration BWC Configuration	S Diag.

Figure 61: Restoring Tables After Clean Up Process

# C. Importing the Source System's Technical Data and Configuration

#### **Using GUI**

- 1. Launch **SID-Refresh<sup>™</sup>** in GUI mode.
  - a. For Linux/Unix, run the following command in a terminal:

#### java -jar /Install/SIDRefresh.jar

b. For Windows, run the following command in command prompt:

#### java -jar SIDRefresh.jar

**Important:** If <sid>adm is not used to run the program, you will encounter an error. To troubleshoot this, please refer to the <u>SID-Refresh Help Wiki</u>.

2. **SID-Refresh<sup>TM</sup>** will check the environment variables and automatically search for R3trans in the default directory.



	-		$\times$
Select Tool R3Trans			
/usr/sap/CR2/SYS/exe/run/R3trans		C Start	
Export/Import/Clean Export Tables Import Tables Clean Tables			
<ul> <li>Archiving ADK Configuration</li> <li>Batch Jobs (SM37)</li> <li>CCMS Configuration (RZ20, RZ21)</li> </ul>		👘 Save	
<ul> <li>Additional DBA Cockpit Config. for Oracle</li> <li>SAP License (SLICENSE)</li> <li>Spool Configuration (SPAD)</li> <li>RFC Inbound Queue Configuration (SMQ2)</li> <li>SLD Data Supplier Configuration (RZ70)</li> <li>SAP Office Number Range for Attachments(SBWP)</li> </ul>		<ul><li>Help</li><li>About</li><li>Diag.</li></ul>	

Figure 62: R3trans Path on Linux/Unix Systems

Select Tool R3Trans	
O:\usr\sap\MS1\SYS\exe\uc\NTAMD64\R3trans.exe	C Start
Export/Import/Clean	
Export Tables      Import Tables      Clean Tables	
	Save
Archiving ADK Configuration           Batch Jobs (SM37)	🔊 Load
CCMS Configuration (RZ20, RZ21)	E COM
Additional DBA Cockpit Config. for Oracle SAP License (SLICENSE)	Help
Spool Configuration (SPAD)	1 About
RFC Inbound Queue Configuration (SMQ2) SLD Data Supplier Configuration (RZ70)	Diag
SAP Office Number Range for Attachments(SBWP)	🏂 Diag.

Figure 63: R3trans Path on Windows Systems

If R3trans is not in the default directory, you must specify the path where it is saved.



Select Tool R3Trans	C Start
Export/Import/Clean Export Tables O Import Tables O Clean Tables	]
	🐘 Save
Archiving ADK Configuration           Batch Jobs (SM37)	🖹 Load
CCMS Configuration (RZ20, RZ21)	
Additional DBA Cockpit Config. for Oracle	🕑 Help
Figure 64: Manual Selection of R3trans Path	

Upon clicking the **open folder** button in the **Select Tool R3Trans** section, a dialog box will open where you can select the path where R3trans is saved.

	bjects Configura r Groups (SM61)		Batch .	ng ADK Configuration Jobs (SM37) Configuration (RZ20, RZ	221)	
	🛓 Select R3Tra	ins			$\times$	
Operation I RFC Conne Backgroun	Look <u>I</u> n:	run		- <b>6</b> 6		
SAP Office	msprot		R3szchk	rscpf_ars	1	BWP)
Frust Mana	niping		R3ta	rscpf_db		
<b>FMS Qualit</b>	patches.m	f	R3trans	rsecssfx		
Neb Servic nternet Tra	R3check		rscparulib.so	rsigcoli		
ntegration	R3IdetI		rscpf2f	rsigiscs		
Service Dat nitial Scree	R3load		rscpf3f	rsigises		SDCCN)
SAP NetWe	•				•	U3)
Secure Stor SAP Unifie SAP NetWe	File <u>N</u> ame:	R3trans				ETD)
DAUTH Ser	Files of Type:	All Files			-	ODEL)
CRM Midd						,
CRM Plug-				Open	Cancel	
SCM Basis SCM Confi.					o uno o	
	ace Configuratio	n	BW Co	nfigurations		

Figure 65: Navigating to R3trans Path on Linux/Unix Systems



ALE Custo	omizing		Archiving A	DK Configuration	
Archivin	🕌 Select R3Trai	าร		l I	×
Batch S(					
Cross-C	Look in: 📑 N	ITAMD64	•		
🔲 Operatic					
RFC Con	patches.m	f	R3ta.pdb	rscpf2f.ex	
Backgro	R3ldctl.exe	•	🗋 R3trans.exe	🗋 rscpf3f.ex	
SAP Offi SLD Acc	R3ldNTms	s.pdb	🗋 R3trans.pdb	🗋 rsecssfx.	ts(SBWP)
Trust Ma	🗋 R3load.exe	•	🗋 rscparulib.dll	🗋 rspoconn	
TMS Qua	R3szchk.ex	xe	rscpf_ars.exe	rstrcscs.	
Web Sei	🗋 R3ta.exe		rscpf_db.exe	🗋 rstrfile.ex	
🗌 Integrati					
Service	•			•	ta (SDCCN)
Initial Sc	File <u>N</u> ame:	R3trans.exe			0
SAP Net Secure !					SWU3)
SAP Unit	Files of <u>T</u> ype:	All Files		· · · · · · · · · · · · · · · · · · ·	ion(ETD)
SAP Net					
OAUTH S				Open Cancel	_MODEL)
CRM Mic					·
CRM Plug	-In Configuration	(CRM/ERP)	CRM Integr	ation in ERP	
	$F_{i}$	igure 66: Navigatin	g to R3trans Path on V	Windows Systems	

- 3. Select the directory for the same folder you created previously in the Export procedure.

🛓 SIDRefresh	۱
--------------	---

Select Directory for Export/Import/Clean		R3tran	s Processe	es	
Select/Unselect Select All I Unselect All		1	2	3	4
Select Component           ALE Configuration           Archiving Customizing Configuration           Report Variants	Arcl	ch Server	ects Config Groups (SI	VI61)	
CCMS History Operating System Commands (SM69)	Cros	-	File Names	on (DBACO Paths (FILE	-

Figure 67: Open Folder for Export/Import Directory Selection



🛃 Select Directory	$\times$
Look <u>I</u> n: 📑 global	
000JOBLG Security	
🗂 001JOBLG 🛛 🗂 syb	
S00JOBLG	
Clean	
ExportImport	
C Old_	
sapcontrol	
Folder name: //usr/sap/CR2/SYS/global/ExportImport	
Files of Type:	-
	Open Cancel

Figure 68: Selecting the Export/Import Path on Linux/Unix Systems

🕌 Select Directo	pry	×
Look <u>i</u> n: 📑 g	Jobal	
C 000JOBLG	📑 sapcontrol	
C 001JOBLG	🚞 security	
📑 AdobeDocu	umentServices 🚞 sld	
ədb 🛅	📑 sitoois	
🗂 ExportImpo	ort 📑 TemplateConfig	
📑 j2eeclient		
📑 га		
Folder <u>n</u> ame:	O:\usr\sap\MS1\SYS\global\ExportImport	
Files of <u>T</u> ype:		-
		Open Cancel

Figure 69: Selecting the Export/Import Path on Windows System

4. Select the number of R3trans processes to use for the **Import** procedure.



🕌 SIDRefresh	
Select Directory for Export/Import/Clean	R3trans Processes Select
/usr/sap/CR2/SYS/global/	Jusr/s
Select/Unselect	1 2 3 4 5 6 7 8 • Expo • Expo
Select Component	
ALE Configuration	ALE Customizing
Archiving Customizing Configuration	Archiving Objects Configuration
Report Variants	Batch Server Groups (SM61)
Figure 70: Number	DRA Cooknit Configuration (DRACOCKPIT)

**SID-Refresh<sup>™</sup>** checks the number of processors (CPU) in the system. By default, the slider is positioned at 1. The slider allows you to select the number of concurrent tasks. A maximum of 8 is allowed since higher than 8 does not yield to shorter runtime.

5. In the **Export/Import/Clean** section, select the **Import Tables** radio button.

	—		$\times$
Select Tool R3Trans			_
/usr/sap/CR2/SYS/exe/run/R3trans		C Start	
Export/Import/Clean Clean Tables Clean Tables			
		🖄 Save	
Archiving ADK Configuration Batch Jobs (SM37)		🖹 Load	
CCMS Configuration (RZ20, RZ21) Additional DBA Cockpit Config. for Oracle SAP License (SLICENSE)		🕑 Help	
Figure 71: Selecting Import Tables Radio Button			

**SID-Refresh<sup>™</sup>** automatically reads the components that were successfully exported in the previous Export procedure. All the components that were not exported are grayed out.

6. Select the components that you want to import and save.



SIDRefresh			
lect Directory for Export/Import/Clean	R3trans Processes	Select Tool R3Trans	
isr/sap/CR2/SYS/global/Exp1		/usr/sap/CR2/SYS/exe/run/R3trans	C Start
Select/Unselect	1 2 3 4 5 6 7 8	Export/Import/Clean C Export Tables Import Tables Clean Tables	
Select Component			🕑 Save
ALE Configuration Archiving Customizing Configuration Report Variants	ALE Customizing Archiving Objects Configuration Batch Server Groups (SM61)	Archiving ADK Configuration Batch Jobs (SM37) CCMS Configuration (RZ20, RZ21)	🕑 Load
CCMS History Operating System Commands (SM69)	DBA Cockpit Configuration (DBACOCKPIT) Cross-Client File Names/Paths (FILE)	Additional DBA Cockpit Config. for Oracle	🤨 Help
Logon Groups (SMLG) System Profiles (RZ10)	Operation Modes (RZ04) RFC Connections (SM59)	Spool Configuration (SPAD) RFC Inbound Queue Configuration (SMQ2)	About
RFC Outbound Queue Configuration (SM58, SMQ1)     SAPconnect Configuration (SCOT)     HTTP Service Configuration (SICE)	Background RFC (SBGRFCMON)     SAP Office Configuration (SBWP)     SLD Access Data Configuration (SLDAPICUST)	SLD Data Supplier Configuration (RZ70) SAP Office Number Range for Attachments(SBWP) Undate Program Administration (SM14)	📚 Diag.

In the **Select/Unselect** section, you have the option to **Select All**. Ideally, you should import all the components that you have exported previously.



In cases where you don't want to import a specific configuration file back to the new target system, you can easily unselect the checkbox next to its name.

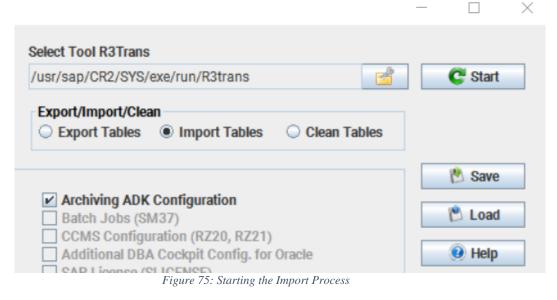
SIDRefresh					
elect Directory for Export/Import/Clean		R3t	rans	Proce	esses
/usr/sap/CR2/SYS/global/Exp1		-		1	
Select/Unselect		1	2	3	4
Select All     O Unselect All					
Select Component					
ALE Configuration	V AL	E Custo	mizin	g	
Archiving Customizing Configuration		chiving (			100 C
Report Variants     CCMS History		tch Serv A Cock			

Figure 74: Manual Selection of Components

7. Save the configuration of the import by clicking the **Save** button. (Optional. This is useful in cases where you will be performing the exact import procedure in another target system. It saves you time and effort as you opt not to perform the Import procedure all over again.)



8. Click the **Start** button to start the import process.



Depending on the complexity of your systems, the degree of parallelism (i.e. the number of concurrent R3trans processes) you have indicated in Step 4, and the number of components you have selected in Step 6, the entire export process may take from a few minutes up to several hours. The status of the process execution can be seen in the progress bar at the bottom of the screen.

Export/Import/Clean Return Code:	
0000 ALE Configuration Process run time 00:00:07 0000 Archiving ADK Configuration Process run time 00:00:09 0000 Archiving Customizing Configuration Process run time 00:00:10	
54%	Exit

Figure 76: Import Progress Bar

In addition, the **Export/Import/Clean Return Code** panel will display logs containing the components with the process run time. You can check for any errors and perform troubleshooting if necessary. You may refer to the <u>SID-Refresh Help Wiki</u>



SRM Component Configuration Remote Control and Communication Framework Conf EWM Server Configuration	SCM Basis Integration Configuration SCM Configuration in ERP WINterface Configuration	SCM Server Integration Configuration GTS Component Configuration BW Configurations	
0000 Archiving ADK Configuration Process run time 00:0 0000 Archiving Customizing Configuration Process run to 0000 II Customizing Configuration Process run to 0000 II Customizing Configuration 000000000000000000000000000000000000	1004 : Warnings have occurred but they can be igno 1008 : Transport could not be finished completely. F 1012 : Fatal errors have occurred, such as errors whi	red. Yroblems occurred with certain objects. le reading or writing a file or unexpected errors	▲ ▼
	vithin the database interface, in particular database 0016 : Situations have occurred that should not hav		ر و

Figure 77: Import Return Codes

**Note:** All other operations (Start, Save, Load, Diagnose, Open Folder, etc.) will be disabled. These buttons will be grayed out and will remain inactive until the **Import** process has been completed.

#### Using Console

1. To run in console mode, you must specify the command line options.

a. For Linux/Unix, run the following command in a terminal:

# java -jar /Install/SIDRefresh.jar -h

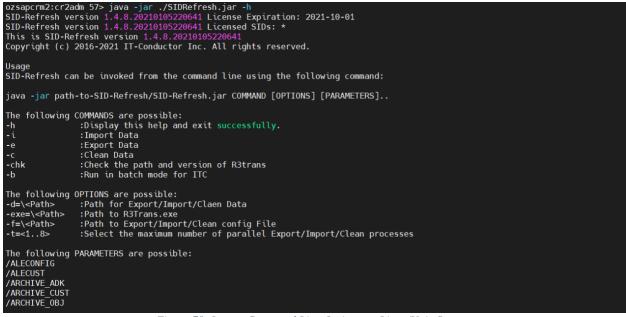


Figure 78: Import Command Line Options on Linux/Unix Systems



b. For Windows, run the following command in command prompt:

# java -jar SIDRefresh.jar -h

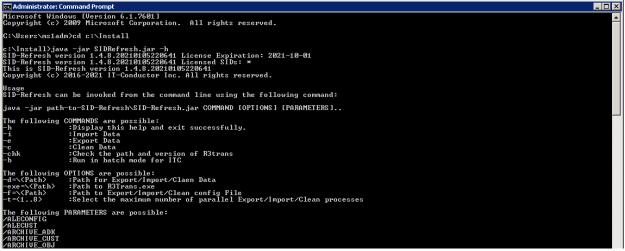


Figure 79: Import Command Line Options on Windows Systems

**Recommendation:** Run the program with the key **-chk** during the first run to check the environment variables and the console command line options will be displayed which can then be substituted into the launch command.

ozsapcrm2:cr2adm 58> java -jar ./SIDRefresh.jar -chk
SID-Refresh version 1.4.8.20210105220641 License Expiration: 2021-10-01
SID-Refresh version 1.4.8.20210105220641 Licensed SIDs: *
Runtime Java Version: 1.8
Program Run As: cr2adm
OS System: Linux
Number of CPU Cores: 8
Find Path to R3trans: /usr/sap/CR2/SYS/exe/run/R3trans
R3Trans Version is:6.24
R3Trans: Unicode version
Find Path for Export/Import: /usr/sap/CR2/SYS/global/

Figure 80: -chk Option to Check Path and Version of R3trans on Linux/Unix Systems

c:\Install>java -jar SIDRefresh.jar -chk
SID-Refresh version 1.4.8.20210105220641 License Expiration: 2021-10-01
SID-Refresh version 1.4.8.20210105220641 Licensed SÎDs: *
Runtime Java Version: 1.8
Program Run As: msladm
OS Šystem: Windows Server 2008 R2
Number of CPU Cores: 8
Find Path to R3trans: 0:\usr\sap\MS1\SYS\exe\uc\NTAMD64\R3trans.exe
R3Trans Version is:6.24
R3Trans: Unicode version
Find Path for Export/Import: 0:\usr\sap\MS1\SYS\global\

Figure 81: -chk Option to Check Path and Version of R3trans on Windows Systems

- 2. Specify the following in the command to be executed upon export
  - Directory for the export
  - Path to the R3trans program



- Number of maximum R3trans (if not specified, the default is 1)
- Specific components or all of the components for export
- For Linux/Unix, run the following command in a terminal:

java -jar /Install/SIDRefresh.jar -i -t=4 d=/usr/sap/<SID>/SYS/global/ExportImport exe=/usr/sap/<SID>/SYS/exe/run/R3trans /ALECONFIG /ALECUST /ARCHIVE\_ADK



Figure 82: Completion of Console Execution on Linux/Unix Systems

Alternatively, you can specify /ALL if you want to export all the components of the source system.

java -jar /Install/SIDRefresh.jar -i -t=4 d=/usr/sap/<SID>/SYS/global/ExportImport exe=/usr/sap/<SID>/SYS/exe/run/R3trans /ALL

• For Windows, run the following command in command prompt

java -jar C:\Install\SIDRefresh.jar -i -t=4 d=D:\usr\sap\<SID>\SYS\global\ExportImport exe=D:\usr\sap\<SID>\SYS\exe\uc\NTAMD64\R3trans.exe /ALECONFIG /ALECUST /ARCHIVE\_ADK



Figure 83: Example Console Execution on Windows Systems

Alternatively, you can specify **/ALL** if you want to export all the components of the source system.

'-Conductor<sup>™</sup>

java -jar C:\Install\SIDRefresh.jar -i -t=4 d=D:\usr\sap\<SID>\SYS\global\ExportImport exe=D:\usr\sap\<SID>\SYS\exe\uc\NTAMD64\R3trans.exe /ALL

- 3. SID-Refresh<sup>™</sup> also provides you an option to run the import process based on a previously saved configuration.
  - For Linux/Unix, run the following command in a terminal:

java -jar /Install/SIDRefresh.jar f=/usr/sap/<SID>/SYS/global/ExportImport/<file name>.cfg



Figure 84: Importing with Previously Saved Config on Linux/Unix Systems

• For Windows, run the following command in command prompt:

java -jar C:\Install\SIDRefresh.jar f=D:\usr\sap\<SID>\SYS\global\ExportImport\<file name>.cfg

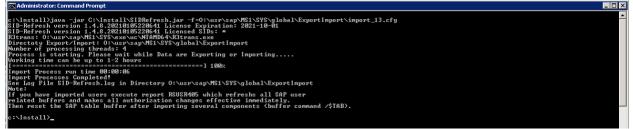


Figure 85: Importing with Previously Saved Config on Windows

#### Validation of Successful Import

- 1. Navigate to the **ExportImport** directory.
- 2. Validate the content of the import log. It should have the tables that were reimported back into the system after the database was refreshed. It should also indicate the process run time.



- 3. Alternatively, you can navigate to the path where ALECUST is defined. Validate the content within the **import\_ALECUST.log** file.
- 4. Check if there are any errors.
- 5. Start SAP.

# **IV. Troubleshooting Guide**

This section includes a list of common issues, their symptoms, what environments are affected, what are the possible causes, and how to resolve them. Kindly read through to find out how you can solve the errors you may have encountered while using **SID-Refresh<sup>TM</sup>**.

#### Program Run as: root

#### Symptom

• Error message upon launching **SID-Refresh<sup>TM</sup>**.

#### **Environment:**

• Both Linux/Unix and Windows Systems



Figure 86: Error on Linux/Unix if not run by <SID> adm user

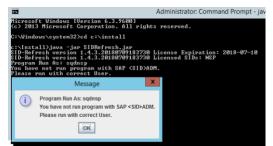


Figure 87: Error on Windows if not run by <SID> adm user



#### Cause

• If <sid>adm is not used to run the program, this error will be encountered.

#### Resolution

• Always run the program using a <sid>adm account. Please refer to the General Prerequisites for other system requirements needed to run the program.

# Component CRM\_MIDDLEWA\_CRM - CRM Middleware Configuration

#### Symptom

- After System Landscape Copy is performed in a CRM landscape, the SITE ID values in CRMM\_BUT\_CRMOBJ and SMOHSITEID do not match.
- When business partner changes are loaded from CRM to ECC, the system sends a full update rather than just a modification, even though the BP exists on both systems.

#### Environment

- SAP Customer Relationship Management (CRM)
- SAP enhancement package for SAP CRM
- SAP enhancement package for SAP CRM, version for SAP HANA

#### Cause

SID-Refresh<sup>TM</sup>-1.4.0 includes table SMOHSITEID among the list of tables to be exported and imported. If the target systems of the system copy use different GUID values than the source system, there will be a mismatch between tables CRMM\_BUT\_CRMOBJ and SMOHSITEID. As a result, when subsequent loads Business Partner data changes are sent to the ECC, all the BP data will be sent instead of just the field that has been modified. This is because FM "BUPA\_OUTBOUND\_GET\_MAIN checks the state of a BP by comparing the values in CRMM\_BUT\_CRMOBJ and SMOHSITEID. This will not lead to data inconsistency, but may cause an unnecessary overhead due to the extra volume of data being sent.

## Resolution



Do not select table SMOHSITEID for export and import during system copy unless it is intended that the target systems use the same site ID values as the source systems.

#### <u>Component WEBSERVICE- Web Service Configuration</u> (SOAMANAGER), SICF- HTTP Service Configuration (SICF), RFC- RFC Connections (SM59)

#### Symptom

After a system refresh the SICF nodes have assigned wrong user/password data.

#### Environment

• All SAP System based on SAP NetWeaver platform

#### Cause

• The data that is required to calculate the system fields is removed from the buffering in the shared memory. However, in certain constellations, data relating to the system fields is still stored in the shared memory. This may cause the the system fields to be calculated incorrectly in subsequent requests.

#### Resolution

Call function module ICFBUFFER\_INIT.

## SID-Refresh<sup>™</sup> fails to start with the Java-based GUI

#### Symptom

You are starting SID-Refresh<sup>™</sup> on Linux with the Java-based GUI, and this error appears:

Exception in thread "main" java.lang.UnsatisfiedLinkError: /usr/java8\_64/jre/lib/ppc64/libawt\_xawt.so (Could not load module /usr/java8\_64/jre/lib/ppc64/libawt\_xawt.so. Dependent module /usr/lib/libXrender.a(shr\_64.o) could not be loaded. Member shr\_64.o is not found in archive Could not load module /usr/java8\_64/jre/lib/ppc64/libawt\_xawt.so. Dependent module /usr/java8\_64/jre/lib/ppc64/libawt\_xawt.so could not be loaded.)



#### Environment

• Linux/Unix Systems

#### Cause

The error is caused by the missing library libXtst.so.6 The library should be /usr/lib64/libXtst.so.6 (which is a link to /usr/lib64/libXtst.so.6.1.0 ): server1:~ # ls -al /usr/lib64 | grep libXtst.so lrwxrwxrwx 1 root root 16 Apr 20 00:14 libXtst.so.6 -> libXtst.so.6.1.0 -rwxr-xr-x 1 root root 23016 Nov 10 2016 libXtst.so.6.1.0 server1:~ #

## Resolution

If neither file is available, install the OS package that contains them:

- On RHEL (6 and 7): yum install libXtst
- On SLES11: zypper install xorg-x11-libs
- On SLES12: zypper install libXtst6

## SID-Refresh<sup>™</sup> runs with a Java-based GUI with Pixelated Fonts

## Symptom

You are starting **SID-Refresh<sup>™</sup>** on Linux/Unix with the Java-based GUI, and the text fonts are pixelated similar to the image below:



ect Directory for Export/Import/Clean	R3trans Processes	Select Tool R3Trans	-
r/sap/CR2/SYS/global/		/usr/sap/CR2/SYS/exe/run/R3trans	C Start
lect/Unselect	1 2 3 4 5 6 7 8	Export/Import/Clean	
Select All   Unselect All		Export Tables      Import Tables      Clean Tables	
lect Component			M Save
ALE Configuration	ALE Customizing	Archiving ADK Configuration	🖹 Load
Archiving Customizing Configuration Report Variants	Archiving Objects Configuration           Batch Server Groups (SM61)	Batch Jobs (SM37) CCMS Configuration (RZ20, RZ21)	D Load
CCMS History	DBA Cockpit Configuration (DBACOCKPIT)	Additional DBA Cockpit Config. for Oracle	🕖 Help
Operating System Commands (SM69) Logon Groups (SMLG)	Cross-Client File Names/Paths (FILE) Operation Modes (RZ04)	SAP License (SLICENSE) Spool Configuration (SPAD)	About
System Profiles (RZ10)	RFC Connections (SM59)	RFC Inbound Queue Configuration (SMQ2)	
RFC Outbound Queue Configuration (SM58, SMQ1) SAPconnect Configuration (SCOT)	Background RFC (SBGRFCMON)     SAP Office Configuration (SBWP)	SLD Data Supplier Configuration (RZ70) SAP Office Number Range for Attachments(SBWP)	🍂 Diag.
HTTP Service Configuration (SICF)	SLD Access Data Configuration (SLDAPICUST)	Update Program Administration (SM14)	
Security Audit Profile Configuration (SM19) TMS Configuration (STMS)	Trust Manager Configuration (STRUST) TMS Quality Assurance Configuration (STMS)	SNC Access Control List (STRUSTSSO2) Version Management	
Virus Scan Definitions (VSCAN)	Web Service Configuration (SOAMANAGER)	Users (SU01)	
Test Workbench Configuration (CATT, eCATT, STWB) Client Configuration (SCC4)	Internet Transaction Server Config. (IACOR, ITS) Integration Engine Configuration (SXMB_ADM)	Project Customizing (SPRO)     SolMan Configuration in Managed System	
ChaRM/CTS Configuration	Service Data Control Center Configuration (SDCCN)	Service Data Control Center Download Data (SDCCN)	
] Login Screen Information ] Batch-Input Data and Configuration (SM35)	Initial Screen Configuration (SMW0) SAP NetWeaver Workflow Configuration (SWU3)	Lock/Unlock Users (EWZ5) SAP NetWeaver Workflow Runtime Data (SWU3)	
SAP NetWeaver LDAP Configuration (LDAP)	Secure Store (SECSTORE)	SAP Gateway Configuration	
SAP Screen Personas Configuration SAP NetWeaver Switchable Authoriz.Checks(SACF)	SAP Unified Connectivity(UCON) SAP NetWeaver Maintain Whitelists(SLDW)	SAP NetWeaver Enterprise Threat Detection(ETD) SAML2 Configuration (SAML2)	
OAUTH Client Configuration (OA2C_CONFIG)	OAUTH Server Configuration (SOAUTH2)	Relationship Service Configuration (SREL_MODEL)	
CRM E-Mail Response Mngmt System Configuration	CRM Middleware Configuration CRM Plug-In Configuration (CRM/ERP)	CRM Component Configuration	
SRM Component Configuration Remote Control and Communication Framework Conf.	SCM Basis Integration Configuration	GTS Component Configuration	
EWM Server Configuration Vertex Application Integration Configuration	EWM Interface Configuration	BW Configurations	
Vertex Application Integration Configuration	EWM Interface Configuration	BW Configurations	
Vertex Application Integration Configuration	88: Sample Pixelated Text Fonts in		
Vertex Application Integration Configuration ort/Import/Clean Return Code: Figure SIDRefresh@ozsapcrm2 elect Directory for Export/Import	88: Sample Pixelated Text Fonts in		
Vertex Application Integration Configuration ort/Import/Clean Return Code: Figure SIDRefresh@ozsapcrm2 elect Directory for Export/Import	88: Sample Pixelated Text Fonts in	SID-Refresh™ GUI (a)	
Vertex Application Integration Configuration ort/Import/Clean Return Code: SIDRefresh@ozsapcrm2 elect Directory for Export/Import Isr/sap/CR2/SYS/global/	88: Sample Pixelated Text Fonts in	SID-Refresh <sup>TM</sup> GUI (a)	7 8
Vertex Application Integration Configuration ort/Import/Clean Return Code: SIDRefresh@ozsapcrm2 elect Directory for Export/Import Jsr/sap/CR2/SYS/global/ Select/Unselect	88: Sample Pixelated Text Fonts in	SID-Refresh <sup>TM</sup> GUI (a)	7 8
Vertex Application Integration Configuration ort/Import/Clean Return Code: SIDRefresh@ozsapcrm2 elect Directory for Export/Import Isr/sap/CR2/SYS/global/	88: Sample Pixelated Text Fonts in	SID-Refresh <sup>TM</sup> GUI (a)	7 8
Vertex Application Integration Configuration prt/Import/Clean Return Code: Figure SIDRefresh@ozsapcrm2 elect Directory for Export/Import Isr/sap/CR2/SYS/global/ Select/Unselect Select All  Unselect All	88: Sample Pixelated Text Fonts in	SID-Refresh <sup>TM</sup> GUI (a)	7 8
Vertex Application Integration Configuration ort/Import/Clean Return Code: Figure SIDRefresh@ozsapcrm2 elect Directory for Export/Import Isr/sap/CR2/SYS/global/ Select/Unselect Select All Select Component	88: Sample Pixelated Text Fonts in	SID-Refresh <sup>TM</sup> GUI (a) <b>R3trans Processes</b> 1 2 3 4 5 6	78
Vertex Application Integration Configuration ort/Import/Clean Return Code:  Figure SIDRefresh@ozsapcrm2 elect Directory for Export/Import Isr/sap/CR2/SYS/global/ Select/Unselect Select All Select Component ALE Configuration	88: Sample Pixelated Text Fonts in	SID-Refresh <sup>TM</sup> GUI (a) R3trans Processes 1 2 3 4 5 6 ALE Customizing	78
Vertex Application Integration Configuration Sort/Import/Clean Return Code: SIDRefresh@ozsapcrm2 elect Directory for Export/Import Usr/sap/CR2/SYS/global/ Select/Unselect Select All Select Component	88: Sample Pixelated Text Fonts in VClean	SID-Refresh <sup>TM</sup> GUI (a) <b>R3trans Processes</b> 1 2 3 4 5 6	78

*Figure 89: Sample Pixelated Text Fonts in SID-Refresh™ GUI (b)* 

Cross-Client File Names/Paths (FILE)

Operation Modes (RZ04)

# Environment

• Linux/Unix Systems

Operating System Commands (SM69)

Logon Groups (SMLG)



#### Cause

- The desktop setting you want isn't supported on your desktop (e.g., you • want LCD text on Windows)
- JRE doesn't recognize your desktop setting (e.g., KDE) •
- You are automating testing under each of these conditions.

#### Resolution

Set on the command line as of the specified value to control rendering hints used by Swing text.

#### java -Dawt.useSystemAAFontSettings=lcd -jar /Install/SIDRefresh.jar

ozsapcrm2:cr2adm 60> java -Dawt.useSystemAAFontSettings=lcd -jar /Install/SIDRefresh.jar SID-Refresh version 1.4.8.20210105220641 License Expiration: 2021-10-01 SID-Refresh version 1.4.8.20210105220641 Licensed SIDs: \*

lect Directory for Export/Import/Clean	R3trans Processes	Select Tool R3Trans	
sr/sap/CR2/SYS/global/		/usr/sap/CR2/SYS/exe/run/R3trans	C Start
elect/Unselect	1 2 3 4 5 6 7 8	Export/Import/Clean	
Select All   Unselect All		Export Tables      Import Tables      Clean Tables	
elect Component			Save
ALE Configuration	ALE Customizing	Archiving ADK Configuration	
Archiving Customizing Configuration	Archiving Objects Configuration	Batch Jobs (SM37)	🖹 Load
Report Variants	Batch Server Groups (SM61)	CCMS Configuration (RZ20, RZ21)	
CCMS History	DBA Cockpit Configuration (DBACOCKPIT)	Additional DBA Cockpit Config. for Oracle	😢 Help
Operating System Commands (SM69)	Cross-Client File Names/Paths (FILE)	SAP License (SLICENSE)	
Logon Groups (SMLG)	Operation Modes (RZ04)	Spool Configuration (SPAD)	🚯 About
System Profiles (RZ10)	RFC Connections (SM59)	RFC Inbound Queue Configuration (SMQ2)	
RFC Outbound Queue Configuration (SM58, SMQ1)	Background RFC (SBGRFCMON)	SLD Data Supplier Configuration (RZ70)	Diag.
SAPconnect Configuration (SCOT)	SAP Office Configuration (SBWP)	SAP Office Number Range for Attachments(SBWP)	
HTTP Service Configuration (SICF)	SLD Access Data Configuration (SLDAPICUST)	Update Program Administration (SM14)	
Security Audit Profile Configuration (SM19)	Trust Manager Configuration (STRUST)	SNC Access Control List (STRUSTSS02)	
TMS Configuration (STMS)	TMS Quality Assurance Configuration (STMS)	Version Management	
Virus Scan Definitions (VSCAN)	Web Service Configuration (SOAMANAGER)	Users (SU01)	
Test Workbench Configuration (CATT, eCATT, STWB)	Internet Transaction Server Config. (IACOR, ITS)	Project Customizing (SPRO)	
Client Configuration (SCC4) ChaRM/CTS Configuration	Integration Engine Configuration (SXMB_ADM)	SolMan Configuration in Managed System	
Login Screen Information	Service Data Control Center Configuration (SDCCN)	Service Data Control Center Download Data (SDCCN)  Lock/Unlock Users (EWZ5)	
Batch-Input Data and Configuration (SM35)	SAP NetWeaver Workflow Configuration (SWU3)	SAP NetWeaver Workflow Runtime Data (SWU3)	
SAP NetWeaver LDAP Configuration (LDAP)	Secure Store (SECSTORE)	SAP Gateway Configuration	
SAP Screen Personas Configuration	SAP Unified Connectivity(UCON)	SAP NetWeaver Enterprise Threat Detection(ETD)	
SAP NetWeaver Switchable Authoriz.Checks(SACF)	SAP NetWeaver Maintain Whitelists(SLDW)	SAML2 Configuration (SAML2)	
OAUTH Client Configuration (OA2C_CONFIG)	OAUTH Server Configuration (SOAUTH2)	Relationship Service Configuration (SREL_MODEL)	
CRM E-Mail Response Mngmt System Configuration	CRM Middleware Configuration	CRM Component Configuration	
CRM WebClient Configuration	CRM Plug-In Configuration (CRM/ERP)	CRM Integration in ERP	
SRM Component Configuration	SCM Basis Integration Configuration	SCM Server Integration Configuration	
Remote Control and Communication Framework Conf		GTS Component Configuration	
EWM Server Configuration	EWM Interface Configuration	BW Configurations	
Vertex Application Integration Configuration			

Figure 90: Improved Text Font in SID-Refresh™ GUI After Resolution



🛓 SIDRefresh

Select Directory for Export/Import/Clean		R3t	rans	Proce	esses	;			
/usr/sap/CR2/SYS/global/					1		_	1	_
Select/Unselect		1	2	3	4	5	6	7	8
Select All  Unselect All									
Select Component									
ALE Configuration		Custo	mizin	g					
Archiving Customizing Configuration		hiving (					n		
Report Variants		ch Serv							
CCMS History	DB/	A Cock	oit Co	onfigu	iratio	n (DE	BACO	CKP	IT)
Operating System Commands (SM69)	Сго	ss-Clie	nt Fil	e Nan	nes/F	aths	(FILI	E)	
Logon Groups (SMLG)	🗌 Ope	ration	Mode	es (RZ	ZO4)				
Figure 91: Improved Text Fo	ont in SID-Refresh <sup>T</sup>	MGUL	After 1	Resol	ution	(b)			

# No Email message is created after we create and send email in SO01. Transaction SCOT do not generate EMAIL messages.

#### **Symptoms**

- You find that in the system the incorrect Sender is being shown for Send requests (i.e., Mail, Fax, SMS, etc.) in transaction SOST.
- This issue can also be seen in related transactions to view send requests, i.e., SOSG, SOSB.
- The sender details shown may not even be from a user in the system.
- Also, in the SAP Business Workplace (transaction SBWP) for an affected user you will see that the incorrect User details (i.e., the details of the incorrect sender) are displayed here also.

#### Environment

• All SAP System based on SAP NetWeaver platform

#### Cause

The cause of the issue is Database inconsistencies related to the SAPoffice key of the User whose send requests you are attempting to view.

#### Resolution



1. Run the report RSADRCK1 in update mode as below i.e., unflag the option **Test run (without updates)**.

로 <u>P</u> rogram <u>E</u> dit <u>G</u> oto	S <u>y</u> stem <u>H</u> elp	
<ul> <li>•</li> </ul>	« 🔚 I 😪 😪 I 🖴 🖞 👘 I 🏝 🗅 💭 🎝 I 💭 💽 I 🎯 🖳	
Address manageme	nt check report (SO key and where-used list inconsist)	
la 🕼		
Test run (without updates)		
Cleanup where-used lists		

Figure 92: Address Management Check Report

2. To see the correct user details in SBWP you also need to reset the address buffer. To do so, go to transaction SO16. Then hit the **Reset buffer** button under the **Addressing** tab.

#### SU01: Error in user management

#### Symptom

- The dump appears when viewing or editing a user (SU01)
- Error **Database error deleting from table adrp\_uuid\_index** (adrc\_uuid\_index, adcp\_uuid\_index) occurs while deleting user/person

#### Environment

• All SAP System based on SAP NetWeaver platform

#### Cause

• There are active jobs or processes holding locks on the entries being deleted.

#### Resolution



1. After completing the import of the USER task, execute report (SE38): RSUSR405

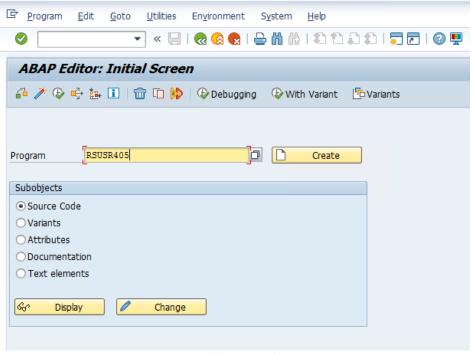
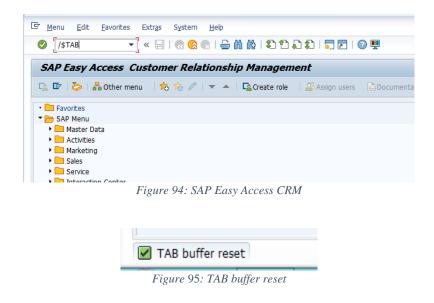


Figure 93: ABAP Editor

2. Reset TAB buffer /\$TAB:



3. Execute below reports via transaction SE38 in the following order:



• RSADRCK1 - the report checks SO key and where-used list consistency in Business Address Management:

៤ <u>P</u> rogram <u>E</u> dit <u>G</u> oto	System <u>H</u> elp
<ul> <li>•</li> </ul>	) « 🔚 I 😪 😪 I 🚔 🖞 🐇 I I I I I I I I I I I I I I I I I I
Address managem	ent check report (SO key and where-used list inconsist)
🚱 🗓	
☐ Test run (without updates) ✔ Cleanup SO keys ✔ Cleanup where-used lists	

Figure 96: Business Address Management

Address management check repo	ort (SO key and where-used list inconsist)
Address management check report (SO key an	d where-used list inconsist)
***************************************	
* Log part 1: Cleanup SO keys	*
******	******
ADCP recs:	87
Double SO keys:	0
Empty SO keys:	0
SOUD updates (= double SO keys)	0
Invalid ADRV records deleted	0
**************************************	***************************************
***************************************	
All ADRVP records successfully entered	0
SOUD recs.:	92
SOUD recs. w/o double SO keys:	92
SOUD recs. with addresses:	82
where-used list not found:	0
ADRP record not found:	0
Where-used list for USR21 and SOUD (2x):	0
Where-used list SODE:	0
Where-used list found:	82
VWN missing for USR21 or SOUD:	0
VWN missing fr USR21:	0
VWN missng for SOUD:	0
Where-used list for DELETED:	0
VWN missng for SODE:	0
VWN for SODE:	0

Figure 97: Address Management Check Report



• RSUSR\_CLEANUP\_USER\_TABLES from SAP Note <u>1401395</u> - Report to clean up residual data in user tables:

년 <u>P</u> rogram <u>E</u> dit <u>G</u> oto Sy	<u>v</u> stem <u>H</u> elp
<ul> <li>The second second</li></ul>	« 🔚 I 😪 😪 I 🚔 🖞 👘 I 🎝 I 🎝 💭 💭 💭 💭 I 🎯 🖳
Display and delete u	nneeded entries in user tables
•	
☐ Test Mode ✓ Include CUA Tables	
Display Affected Tables Only     User Name	to

Figure 98: Display and Delete Entries in User Tables that are no longer needed

		P (G) U	• 147   ••••					
System:		CR2	c	lient:		001	(	Checked by:
Selection Crit	eria:							
Test Mode: CUA Tables: Display Affecter Overview:			nexistent	Users	X X			
B User Name	USR01	USR04	USR05	USR21	USR22	USREFUS	USRSTAMP	UST04
· · · · ·		1						
ABC-00							1	
ABC-01							1	
							1	
ABC-02							1	
ABC-02							1	
ABC-02 DEBRUYNEAR							1	
ABC-02 DEBRUYNEAR EILENBERGER					1		-	

Figure 99: Overview Entries for n Non-existent Users

• RSSOUSCO - the report checks the consistency of user tables:



☞ <u>P</u> rogram	<u>E</u> dit <u>G</u> oto	System	Help
Ø	•	« 📙	
Consiste	ncy check	of user	tables
🕸 🔁 🚺			
TEST		г 	
		E: 100	Consistence Check of Hour Tables (a)

Figure 100: Consistency Check of User Tables (a)

<sup>[</sup> <u>L</u> ist <u>E</u> dit <u>G</u> oto <u>S</u> ettings S <u>v</u> stem <u>H</u> elp		
🖉 🔄 🔹 🖓 😓 🗎 🐨 💌	100	🗮 🛃   🕜 🖳
Consistency check of user tables		
9 🛓 ë 🖓 🗕 1 🚯 🖾 🔚 🔠		
Object	Number	
New Office users:	4	
Office users with new delete flags:	6	
Records deleted in SOUD:	0	
Records deleted in SOUC:	0	
Records changed in SOUC:	0	
New records in SOUC:	0	
Number of users w/o address assignment ( SOUD w/o SO_KEY )	2	
Number of users for which SO_KEY could be generated	0	
Number of users for which no SO_KEY could be generated subsequently	0	
Number of users for which no entry exists in table USR21	2	
No. of users with address assignment (SOUD with SO_KEY)	86	
Number of users for which no entry exists in table USR21 (user administrati	0	
Number of users for which person group <> BC01 is in address	0	
Number of users with address reference which is no longer in CAM	0	
Number of users with SOUD-USADR<>SPACE / SO_KEY in ADCP=SPACE an	0	
Number of users for which SO_KEY was generated subsequently	0	
Number of users with SO_KEY to which a more recent object is assigned	0	
Number of users for which no change in address assignment was required	0	
Number of users for which no where-used list could be created subsequently	0	

Figure 101: Consistency Check of User Tables (b)



• If a dump appears when viewing or editing a user (SU01):

Runtime Errors UBAP Program Application Component Date and Time Short text	ABAP Programmin; MESSAG_TYPE_X CL_ADDR_PERSISTE BG-SRV-ADR 23.10.2020 07:50	ENCY_SZA0=====CP
Runtime Errors UBAP Program Application Component Date and Time Short text	MESSAGE_TYPE_X CL_ADDR_PERSISTE BC-SRV-ADR 23.10.2020 07:50	ENCY_SZA0=====CP
BAP Program application Component late and Time Short text	CL_ADDR_PERSIST BC-SRV-ADR 23.10.2020 07:50	
application Component Date and Time Short text	BC-SRV-ADR 23.10.2020 07:50	
Short text	23.10.2020 07:50	2:10
Short text		0:10
The current applic		
	ation triggered	a termination with a short dump.
What happened?		
		etected a situation which really
		rmination with a short dump was
triggered on purpo	ose by the key wo	ord MESSAGE (type X).
Error analysis		
Short text of erro		
Internal error - I	B and COMM_A_P_1	IN_MEMORY incompatible
Long text of error	message:	
Technical informat	ion about the me	tasage:
Message class	"AM"	
Number	891	
Variable 1	"DB"	
Variable 2	"COMM A P IN	MEMORY"
Variable 3		
Variable 4		
Trigger Location of Ru	intime Error	
Program		CL_ADDR_PERSISTENCY_SZA0=====CP
Include		CL_ADDR_PERSISTENCY_SZA0====CM011
Row		274
Module type		(METHOD)
Module Name		IF_ADDR_RETRIEVE~RETRIEVE_COMMUNICATION_DATA
Source Code Extract		
Line SourceCde		
244 addr	ess handle	= <ls address="" key="">-address handle</ls>
	ess number	= <ls address="" key="">-address number</ls>
	son handle	= <ls address="" key="">-person handle</ls>

Figure 102: Runtime Error - Description of Exception

436119 - Correction report for communication data inconsistencies

• Copy the attached report Z\_OSSNOTE\_436119 into your system and execute it.

☞ <u>P</u> rogram	<u>E</u> dit <u>G</u> oto S <u>y</u> stem <u>H</u> elp
<ul> <li>Image: A set of the set of the</li></ul>	💌 🖉 I 🗟 🚷 😓 🕅 🖓 I 🏝 🏠 💭 💭 🔽 I 🥥 🖳
Z_OSSN	OTE_436119
æ	
✓ ALLCLNT	7

Figure 103: Z\_OSSNOTE\_436119 (a)



로 List Edit G	<u>G</u> oto S <u>y</u> stem <u>H</u> elp
Ø [I	-] « 🖯   🕲 🕲 😂   🖨 🕅 🏠   🎝 🎝   🖓 🖻   🥹 🖳
Z_OSSNOT	E_436119
Z_OSSNOTE_436119	9
Checking Client	000
Checking Client	001
Address Number F	Person Number Communication Type
	11550 email
	11552 email
	11558 email
11549 1	11560 email
Checking Client	066
Checking Client	111
Checking Client	800
Checking Client	860

Figure 104: Z\_OSSNOTE\_436119 (b)

• If an error is returned when changing the company:



Figure 105: Error Message box for Database Error

<u>2299770 - Error ' Database error deleting from table adrp\_uuid\_index '</u> (adrc\_uuid\_index, adcp\_uuid\_index) occurs while deleting user/person

2076508 - TDMS 4.0 - Handling of Address Index related tables

There are reports available that will resolve the inconsistencies between the address tables.

The reports are Z\_UUID\_ADRC, Z\_UUID\_ADRP and Z\_UUID\_ADCP, depending on which table the error message references, the relevant report should be run.



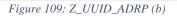
<ul> <li></li> </ul>	🚬 🔻 🗧 I 🗟 🚱 I 🖨 🖞 👘 👘 I 🎝 🗘 💭 I 🚍 I 🚱 🧐
Z_UUID_A	ADRC
Ø	
TESTRUN	
	Figure 106: Z_ADCP_UUID (a)
	Z_ADCP_UUID
	Z_ADCP_UUID TOTAL NUMBER OF INCONSISTENT RECORDS- 11550 000C29C437151EEB85A81FE117FCD6D4 11552 000C29C437151EEB85A81FE117FCF6D4 11558 000C29C437151EEB85A81FE117FD16D4 11560 000C29C437151EEB85A81FE117FD36D4 DATABASE UPDATED SUCCESS Eigene 107-7-7_ADCD_UUUD(L)
_	Figure 107: Z_ADCP_UUID (b)
Program	Edit Goto System Help 

Figure 108: Z\_UUID\_ADRP (a)

п

Ц

	🔻 🖓   🗟 🚷   🚔 🛗 🟠 1 🎝 1 💭 🔽   🥥 💻
z_u	JID_ADRP
Z_UUID_A	1DRP
	IDRP
TOTAL NU	MBER OF INCONSISTENT RECORDS- 4
 TOTAL NU 11550	MBER OF INCONSISTENT RECORDS- 4



TESTRUN



Ø	•	« 🔚   🗟 🚷	2   🗁 🖞 🏠 🏠 1	6.0.21 🗖 🗖 1 🤅	9 🖷
Z_UUID_	ADRC				
¢					
TESTRUN		۲ ل			

Edit Goto System Help

Image: Control of the system of the

#### Figure 111: Z\_UUID\_ADRC (b)

# V. Collecting Diagnosis for Support Team

To help **SID-Refresh<sup>™</sup>** Support Team analyze and diagnose problems with your system, you can collect a range of diagnosis information from your system into a zip file.

- 1. Launch **SID-Refresh<sup>TM</sup>** in GUI mode.
- 2. Select the directory containing the export/import files.



Figure 112: Selecting Export/Import File Directory



3. To collect diagnosis, click Diag.

Select Tool R3Trans	
O:\usr\sap\MS1\SYS\exe\uc\NTAMD64\R3trans.exe	C Start
Export/Import/Clean Export Tables O Import Tables O Clean Tables	
	🖄 Save
Archiving ADK Configuration Batch Jobs (SM37)	🖹 Load
CCMS Configuration (RZ20, RZ21) Additional DBA Cockpit Config. for Oracle	🕑 Help
SAP License (SLICENSE) Spool Configuration (SPAD) Spool Configuration (SPAD)	🚺 About
RFC Inbound Queue Configuration (SMQ2)     SLD Data Supplier Configuration (RZ70)     SAD Office Number Dame for Attackmente(SDMD)	🔯 Diag.
SAP Office Number Range for Attachments(SBWP) Update Program Administration (SM14) SNC Access Control List (STRUSTSSO2)	
Figure 113: Starting the Diagnosis Process	

4. After the diagnosis process is completed, you will see information about the created file.

		_ [] ×
E	R3trans Processes	Select Tool R3Trans O:lusr\sap\MS1\SYS\exe\uc\NTAMD64\R3trans.exe
	1 2 3 4 5 6 7 8	Export/Import/Clean Export Tables O Import Tables O Clean Tables
Informat	SID-Refresh_infodump_2021-06-11_09-39-09.zip file Please send the file to e-mail: sidrefresh@itconduc	e created in directory: O:\usr\sap\MS1\SYS\global\ExportImport tor.com
3, SMQ1)	RFC Connections (SM59)     Background RFC (SBGRFCMON)     SAP Office Configuration (SBWP)     SLD Access Data Configuration (SLDAPICUST)	RFC Inbound Queue Configuration (SMQ2)     SLD Data Supplier Configuration (RZ70)     SAP Office Number Range for Attachments(SBWP)     Update Program Administration (SM14)

Figure 114: Dialog Box with Diagnosis File Information

5. You can download the collection of the diagnosis files (ZIP-archive having file name pattern (**SID-Refresh\_infodump\_<yyyy>-<mm>-**



<dd>\_<hh>-<mm-<ss>.zip) and send to e-mail: sidrefresh@itconductor.com

# **VI. Terms of Service**

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# **B.** Technical Support

Technical support may be provided via service subscriptions only. While every effort is made to provide timely technical support, no guarantees whatsoever are implied that technical support will be provided or that technical support, when provided, will resolve all issues. **SID-Refresh<sup>TM</sup>** software is essentially unsupported and supplied on an as-is basis, and only supported via service subscription; IT-Conductor makes no guarantees of the continual availability of this software.



# C. Changes to Terms and Conditions

As its sole discretion, IT-Conductor may revise or change these Terms and Conditions (in whole or in part) from time to time without notice to you.



# VII. Appendix

# A. Table of Figures

Figure 1: System Refresh Process	6
Figure 2: System Refresh High-Level Process	7
Figure 3: SAP NetWeaver ABAP Technical Configuration Components	. 14
Figure 4: SAP NetWeaver ABAP Technical Configuration Components for Clean Tasks	
Figure 5: R3trans Path on Linux/Unix Systems	
Figure 6: R3trans Path on Windows Systems	. 20
Figure 7: Manual Selection of R3trans Path	. 20
Figure 8: Navigate to R3trans Path on Linux/Unix Systems	
Figure 9: Navigate to R3trans Path on Windows Systems	. 21
Figure 10: Default Export/Import Path on Linux/Unix Systems	. 22
Figure 11: Default Export/Import Path on Windows Systems	
Figure 12: Manual Path Selection for Export/Import	
Figure 13: Changing Path to Global Directory on Linux/Unix Systems	. 23
Figure 14: Selecting ExportImport Directory on Linux/Unix Systems	
Figure 15: Manual Path Selection for Export/Import on Windows Systems	
Figure 16: Number of R3trans Processes for Export	
Figure 17: Selecting Export Tables Radio Button	
Figure 18: Component Selection for Export Process	
Figure 19: Select All Option in Component Selection for Export Process	. 26
Figure 20: Saving the Export Configuration	
Figure 21: Loading Previously Saved Configuration	. 27
Figure 22: Navigating and Selecting the Configuration File	. 27
Figure 23: Starting the Export Process	
Figure 24: Export Progress Bar	. 28
Figure 25: Export Completion Message	
Figure 26: Export Return Codes	
Figure 27: Export Command Line Options on Linux/Unix Systems	. 29
Figure 28: Export Command Line Options on Windows Systems	
Figure 29: -chk Option to Check Path and Version of R3trans on Linux/Unix Systems	. 30
Figure 30: -chk Option to Check Path and Version of R3trans on Windows Systems	. 30
Figure 31: Completion of Console Execution on Linux/Unix Systems	. 31
Figure 32: Example Console Execution on Windows Systems	. 31
Figure 33: Exporting with Previously Saved Config on Linux/Unix Systems	. 32
Figure 34: Exporting with Previously Saved Config on Windows	
Figure 35: R3trans Path on Linux/Unix Systems	. 33
Figure 36: R3trans Path on Windows Systems	
Figure 37: Manual Selection of R3trans Path	
Figure 38: Navigating to R3trans Path on Linux/Unix Systems	
Figure 39: Navigating to R3trans Path on Windows Systems	



Figure 40: Default Clean Path on Linux/Unix Systems	. 35
Figure 41: Default Clean Path on Windows Systems	. 36
Figure 42: Creating a New Clean Folder on Windows Systems	. 36
Figure 43: Number of R3trans Processes for Clean Up	. 37
Figure 44: Component Selection for Clean Up Process	
Figure 45: Select or Unselect All for Clean Up Process	
Figure 46: Saving the Clean Up Configuration	. 39
Figure 47: Navigating and Selecting the Clean Up Configuration File	. 40
Figure 48: Starting the Export Process	
Figure 49: Warning Dialog Box When Launching Data Cleanup	. 41
Figure 50: Clean Up Progress Bar	
Figure 51: Clean Return Codes	. 42
Figure 52: Clean Command Line Options on Linux/Unix Systems	. 42
Figure 53: Clean Command Line Options on Windows Systems	. 43
Figure 54: -chk Option to Check Path and Version of R3trans on Linux/Unix Systems	. 43
Figure 55: -chk Option to Check Path and Version of R3trans on Windows Systems	. 43
Figure 56: Completion of Console Execution on Linux/Unix Systems	. 44
Figure 57: Example Console Execution on Windows Systems	. 45
Figure 58: Warning Dialog Box when Launching Data Cleanup	. 45
Figure 59: Cleaning with Previously Saved Config on Linux/Unix Systems	. 45
Figure 60: Cleaning with Previously Saved Config on Windows	. 46
Figure 61: Restoring Tables After Clean Up Process	. 47
Figure 62: R3trans Path on Linux/Unix Systems	. 48
Figure 63: R3trans Path on Windows Systems	
Figure 64: Manual Selection of R3trans Path	
Figure 65: Navigating to R3trans Path on Linux/Unix Systems	. 49
Figure 66: Navigating to R3trans Path on Windows Systems	. 50
Figure 67: Open Folder for Export/Import Directory Selection	. 50
Figure 68: Selecting the Export/Import Path on Linux/Unix Systems	. 51
Figure 69: Selecting the Export/Import Path on Windows System	. 51
Figure 70: Number of R3trans Processes	. 52
Figure 71: Selecting Import Tables Radio Button	. 52
Figure 72: Selecting Components to be Imported	. 53
Figure 73: Select All Option	. 53
Figure 74: Manual Selection of Components	
Figure 75: Starting the Import Process	. 54
Figure 76: Import Progress Bar	
Figure 77: Import Return Codes	
Figure 78: Import Command Line Options on Linux/Unix Systems	. 55
Figure 79: Import Command Line Options on Windows Systems	
Figure 80: -chk Option to Check Path and Version of R3trans on Linux/Unix Systems	. 56
Figure 81: -chk Option to Check Path and Version of R3trans on Windows Systems	
Figure 82: Completion of Console Execution on Linux/Unix Systems	. 57
Figure 83: Example Console Execution on Windows Systems	
Figure 84: Importing with Previously Saved Config on Linux/Unix Systems	
Figure 85: Importing with Previously Saved Config on Windows	



Figure 86: Error on Linux/Unix if not run by <sid> adm user</sid>	59
Figure 87: Error on Windows if not run by <sid> adm user</sid>	59
Figure 88: Sample Pixelated Text Fonts in SID-Refresh <sup>™</sup> GUI (a)	63
Figure 89: Sample Pixelated Text Fonts in SID-Refresh <sup>™</sup> GUI (b)	63
Figure 90: Improved Text Font in SID-Refresh <sup>™</sup> GUI After Resolution	64
Figure 91: Improved Text Font in SID-Refresh <sup>™</sup> GUI After Resolution (b)	65
Figure 92: Address Management Check Report	66
Figure 93: ABAP Editor	67
Figure 94: SAP Easy Access CRM	67
Figure 95: TAB buffer reset	67
Figure 96: Business Address Management	68
Figure 97: Address Management Check Report	68
Figure 98: Display and Delete Entries in User Tables that are no longer needed	69
Figure 99: Overview Entries for n Non-existent Users	69
Figure 100: Consistency Check of User Tables (a)	70
Figure 101: Consistency Check of User Tables (b)	70
Figure 102: Runtime Error - Description of Exception	71
Figure 103: Z_OSSNOTE_436119 (a)	
Figure 104: Z_OSSNOTE_436119 (b)	72
Figure 105: Error Message box for Database Error	72
Figure 106: Z_ADCP_UUID (a)	73
Figure 107: Z_ADCP_UUID (b)	73
Figure 108: Z_UUID_ADRP (a)	73
Figure 109: Z_UUID_ADRP (b)	73
Figure 110: Z_UUID_ADRC (a)	
Figure 111: Z_UUID_ADRC (b)	74
Figure 112: Selecting Export/Import File Directory	
Figure 113: Starting the Diagnosis Process	
Figure 114: Dialog Box with Diagnosis File Information	75