

System Refresh Training Program

July 2018

TRAINING

People matter, results count.

Agenda

System Refresh Concept

Pre-study of Source and Target System

System Refresh Procedure

Pre Task- Source System

Pre Task- Target System

Database Copy(Restore and Recovery)

Post- Refresh Activity

Questions

System Refresh Concept



What is System Refresh?

- **System Refresh** is a copying of data from source to target SAP System.
- This scenario is normally used to refresh Quality / Sandbox with Production Data to facilitate accurate UAT for all business scenarios.
- There are **two** ways to do system refresh
 - 1.Backup Restore**
 - It Requires minimum System downtime.
 - SAP Best Practice
 - 2.Export - Import**
 - Increase in downtime during export of database on source system

Pre-study of Source and Target System.



Pre-study of Source and Target System.

1. Study on the Current Utilization of resources on Target system and Source System.
2. Check the available CPU's & memory on the Target hardware and Source System.
3. Compare the database sizes of Target hardware and Source System.
4. Compare the existing FS & current utilization of the same on Target system and Source System.
5. Study the systems integrated to Sandbox in **SM59**(Configuration of RFC connection). There are three ways to do it:
 1. Take Screenshots of the Configurations.
 2. By doing Table Export(using **R3Trans** Utility)
 3. By saving tables in TOC (transport of copies using **SE01**)
6. Some interfaces are connected to TARGET or other (mainly to PI) on a special requirement. Make a note of it.
7. Compare the software versions of SAP application on both the systems.
8. Make a note of any additional add-ons on the systems if any from the above step.
9. Compare the Oracle Database & client versions. (Note: It need to be done carefully if version doesn't match we can't proceed forward with it)
10. Make a note of any differences in the versions.

Pre-study of Source and Target System.

11. Check the existing SLD settings.(SLDAPICUST)
12. Check all the existing developments, open transports.
13. In this we need to check for 2 things:
 - 1.Open Transport: Contact the Owner of TR and ask to take appropriate action or else administrator needs to delete it.
 - 2.Transport in release state(Make a backup of in-flight transport list).s
14. Number of Open Transports; Local Transports - Quick analysis on the transports.
15. Consolidate all the list and send it across to the related projects (optional).
16. Prepare a list if anything has to be retained.
17. Check for a FS on the DB host OS level to store the backup of Production .
18. Check if the schema name is same on Source as well as Target.

System Refresh Procedure



Procedure

- System Refresh includes 3 steps:
 - Pre- Refresh activities
 - Database Copy(Restore and Recovery)
 - Post- Refresh activities

Pre Task – Source System



Pre-Refresh Activities

1. Secure the required passwords of Application users; DDIC/000
2. Trigger a Production backup along with other Production systems
3. Try to make a FS backup; so that we don't have to restore it from TSM
4. Secure the required passwords of OS users; <sidadm>
In this step we secure the password of all the system we have.
5. Take the trace of Control file for Database creation on Target side.
For example : alter database control file to trace; --- if Database type is Oracle.

Pre Task – Target System



Pre-Refresh Activities

1. Copy/Move the backup from Source host to Target host

```
cx5adm@gotsap212:/software/CT5_DATABKP_060318> du -sh *  
14K    COMPLETE_DATA_BACKUP_databackup_0_1  
257M   COMPLETE_DATA_BACKUP_databackup_1_1  
379G   COMPLETE_DATA_BACKUP_databackup_2_1  
81M    COMPLETE_DATA_BACKUP_databackup_3_1
```

Pre-Refresh Activities

2. Export User Master

Schedule Job

Source Client: 000

Profile name: SAP_USER

Background Server (Optional):

☒ Immediately
☒ No Printer Dialog

Client Export

You Have Chosen the Following Parameters:

Profile Name: SAP_USER

Source Client: 000

System Name: CXS

☐ Customizing Data
☒ Authorization Profile & Roles
☐ Application Data
☒ User Data
☐ Cross-Client Customizing

☐ Flavors
☐ Change Documents

Continue?

Continue

INFO Client Export

New since Release 4.6: Import by TMS (see below)

Client export:

Up to 3 requests are created, depending on the data selected and available:

1. "CXS0000069" for transporting cross-client data, if you have selected this
2. "CXS0000069" for transporting client-specific data
3. "CXS0000069" for transporting client-specific texts, provided texts are available in this client

When the transport requests have been created successfully, the data is exported asynchronously by starting the transport program tp at operating system level, and can take several hours, depending on the data volume. The status of the export can be found using either Transaction SE03 or Transaction SE01 and specifying the transport request.

Client Export from Client 000 : 5

Date	Time	Source	Status	Text	Profile	Mode	Test mode
06.03.2018	14:24:03		Exported Successfully		SAP_USER	Export	

Pre-Refresh Activities

3. Export RFC Destinations

```
gotsap305: ~ 61> cat ~/_RFC_export.ctl
export
client=all
file=/usr/sap/trans/ ~/_RFC.dat'
select * from RFCDES
select * from RFCDOC
select * from RFCSYSACL
select * from RFCATTRIB
select * from RFCCHECK
select * from RFCDESSECU
select * from RFCIRUST
select * from RFCMC
select * from RFCGO
select * from PARAMVALUE
select * from RSECACHK
select * from RSECACB where ident LIKE '___/RFC%'
gotsap305: ~ 62> pwd
/usr/sap/trans
gotsap305: ~ 63> █
```

```
gotsap305: ~ 63> R3trans -w CX5 RFC export.log CX5 RFC export.ctl
This is R3trans version 6.26 (release 749 - 14.02.17 - 20:17:01).
unicode enabled version
R3trans finished (0000).
gotsap305: ~ 64> █
```

Pre-Refresh Activities

4. Export Printer Definitions

Dev.	Obj.	Obj. Name	Location or Name
0001	0	printmgr	YCC 8070 200A, P/A (Q001004)
0002	0	printmgr	YCC 8070 200A, P/A (Q001004)
0003	0	printmgr	YCC 8070 200A, P/A (Q001004)
0004	0	printmgr	YCC 8070 200A, P/A (Q001004)
0005	0	printmgr	YCC 8070 200A, P/A (Q001004)
0006	0	printmgr	YCC 8070 200A, P/A (Q001004)
0007	0	printmgr	YCC 8070 200A, P/A (Q001004)
0008	0	printmgr	YCC 8070 200A, P/A (Q001004)
0009	0	printmgr	YCC 8070 200A, P/A (Q001004)
0010	0	printmgr	YCC 8070 200A, P/A (Q001004)
0011	0	printmgr	YCC 8070 200A, P/A (Q001004)
0012	0	printmgr	YCC 8070 200A, P/A (Q001004)
0013	0	printmgr	YCC 8070 200A, P/A (Q001004)
0014	0	printmgr	YCC 8070 200A, P/A (Q001004)
0015	0	printmgr	YCC 8070 200A, P/A (Q001004)
0016	0	printmgr	YCC 8070 200A, P/A (Q001004)
0017	0	printmgr	YCC 8070 200A, P/A (Q001004)
0018	0	printmgr	YCC 8070 200A, P/A (Q001004)
0019	0	printmgr	YCC 8070 200A, P/A (Q001004)
0020	0	printmgr	YCC 8070 200A, P/A (Q001004)
0021	0	printmgr	YCC 8070 200A, P/A (Q001004)
0022	0	printmgr	YCC 8070 200A, P/A (Q001004)
0023	0	printmgr	YCC 8070 200A, P/A (Q001004)
0024	0	printmgr	YCC 8070 200A, P/A (Q001004)
0025	0	printmgr	YCC 8070 200A, P/A (Q001004)
0026	0	printmgr	YCC 8070 200A, P/A (Q001004)
0027	0	printmgr	YCC 8070 200A, P/A (Q001004)
0028	0	printmgr	YCC 8070 200A, P/A (Q001004)
0029	0	printmgr	YCC 8070 200A, P/A (Q001004)
0030	0	printmgr	YCC 8070 200A, P/A (Q001004)
0031	0	printmgr	YCC 8070 200A, P/A (Q001004)
0032	0	printmgr	YCC 8070 200A, P/A (Q001004)
0033	0	printmgr	YCC 8070 200A, P/A (Q001004)
0034	0	printmgr	YCC 8070 200A, P/A (Q001004)
0035	0	printmgr	YCC 8070 200A, P/A (Q001004)
0036	0	printmgr	YCC 8070 200A, P/A (Q001004)
0037	0	printmgr	YCC 8070 200A, P/A (Q001004)
0038	0	printmgr	YCC 8070 200A, P/A (Q001004)
0039	0	printmgr	YCC 8070 200A, P/A (Q001004)
0040	0	printmgr	YCC 8070 200A, P/A (Q001004)
0041	0	printmgr	YCC 8070 200A, P/A (Q001004)
0042	0	printmgr	YCC 8070 200A, P/A (Q001004)
0043	0	printmgr	YCC 8070 200A, P/A (Q001004)
0044	0	printmgr	YCC 8070 200A, P/A (Q001004)
0045	0	printmgr	YCC 8070 200A, P/A (Q001004)
0046	0	printmgr	YCC 8070 200A, P/A (Q001004)
0047	0	printmgr	YCC 8070 200A, P/A (Q001004)
0048	0	printmgr	YCC 8070 200A, P/A (Q001004)
0049	0	printmgr	YCC 8070 200A, P/A (Q001004)
0050	0	printmgr	YCC 8070 200A, P/A (Q001004)
0051	0	printmgr	YCC 8070 200A, P/A (Q001004)
0052	0	printmgr	YCC 8070 200A, P/A (Q001004)
0053	0	printmgr	YCC 8070 200A, P/A (Q001004)
0054	0	printmgr	YCC 8070 200A, P/A (Q001004)
0055	0	printmgr	YCC 8070 200A, P/A (Q001004)
0056	0	printmgr	YCC 8070 200A, P/A (Q001004)
0057	0	printmgr	YCC 8070 200A, P/A (Q001004)
0058	0	printmgr	YCC 8070 200A, P/A (Q001004)
0059	0	printmgr	YCC 8070 200A, P/A (Q001004)
0060	0	printmgr	YCC 8070 200A, P/A (Q001004)
0061	0	printmgr	YCC 8070 200A, P/A (Q001004)
0062	0	printmgr	YCC 8070 200A, P/A (Q001004)
0063	0	printmgr	YCC 8070 200A, P/A (Q001004)
0064	0	printmgr	YCC 8070 200A, P/A (Q001004)
0065	0	printmgr	YCC 8070 200A, P/A (Q001004)
0066	0	printmgr	YCC 8070 200A, P/A (Q001004)
0067	0	printmgr	YCC 8070 200A, P/A (Q001004)
0068	0	printmgr	YCC 8070 200A, P/A (Q001004)
0069	0	printmgr	YCC 8070 200A, P/A (Q001004)
0070	0	printmgr	YCC 8070 200A, P/A (Q001004)
0071	0	printmgr	YCC 8070 200A, P/A (Q001004)
0072	0	printmgr	YCC 8070 200A, P/A (Q001004)
0073	0	printmgr	YCC 8070 200A, P/A (Q001004)
0074	0	printmgr	YCC 8070 200A, P/A (Q001004)
0075	0	printmgr	YCC 8070 200A, P/A (Q001004)
0076	0	printmgr	YCC 8070 200A, P/A (Q001004)
0077	0	printmgr	YCC 8070 200A, P/A (Q001004)
0078	0	printmgr	YCC 8070 200A, P/A (Q001004)
0079	0	printmgr	YCC 8070 200A, P/A (Q001004)
0080	0	printmgr	YCC 8070 200A, P/A (Q001004)
0081	0	printmgr	YCC 8070 200A, P/A (Q001004)
0082	0	printmgr	YCC 8070 200A, P/A (Q001004)
0083	0	printmgr	YCC 8070 200A, P/A (Q001004)
0084	0	printmgr	YCC 8070 200A, P/A (Q001004)
0085	0	printmgr	YCC 8070 200A, P/A (Q001004)
0086	0	printmgr	YCC 8070 200A, P/A (Q001004)
0087	0	printmgr	YCC 8070 200A, P/A (Q001004)
0088	0	printmgr	YCC 8070 200A, P/A (Q001004)
0089	0	printmgr	YCC 8070 200A, P/A (Q001004)
0090	0	printmgr	YCC 8070 200A, P/A (Q001004)
0091	0	printmgr	YCC 8070 200A, P/A (Q001004)
0092	0	printmgr	YCC 8070 200A, P/A (Q001004)
0093	0	printmgr	YCC 8070 200A, P/A (Q001004)
0094	0	printmgr	YCC 8070 200A, P/A (Q001004)
0095	0	printmgr	YCC 8070 200A, P/A (Q001004)
0096	0	printmgr	YCC 8070 200A, P/A (Q001004)
0097	0	printmgr	YCC 8070 200A, P/A (Q001004)
0098	0	printmgr	YCC 8070 200A, P/A (Q001004)
0099	0	printmgr	YCC 8070 200A, P/A (Q001004)
0100	0	printmgr	YCC 8070 200A, P/A (Q001004)

Import and Export of Device Descriptions

Import/Export info

File system info

☒ Front-End Computer
☐ Server
 Export/Import file name:

Operation

☒ Export
☐ Import

Options

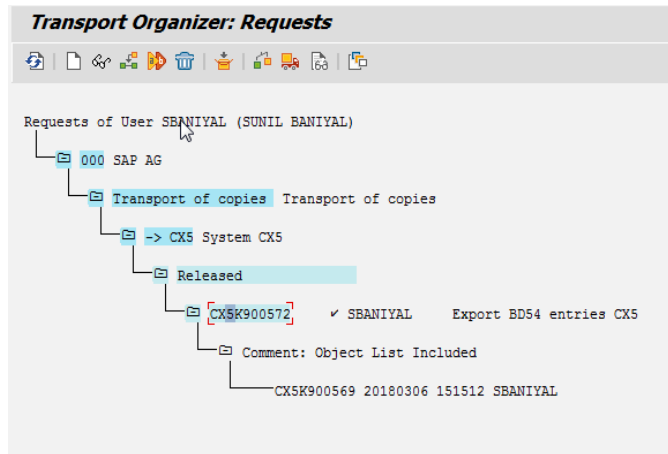
☐ Perform Import (Unicode)
☐ Perform Import (Non-Unicode)
☐ Execute export
☒ Generate log
☒ Export Printer Configuration

Objects for export

Output Device:

Pre-Refresh Activities

5. Export Logical System Name



Pre-Refresh Activities

6. Export Partner Profiles

```
gotsap305:cx5adm 71> R3trans -w CX5_partnerprofexp.log CX5_partnerprofexp
This is R3trans version 6.26 (release 749 - 14.02.17 - 20:17:01).
unicode enabled version
R3trans finished (0000).
gotsap305:cx5adm 72> ls -ltr
```

```
-rw-r--r-- 1 cx5adm sapsys 682069 Mar  6 15:29 CX5_WE20_PARTNER_PROFILE_EXPORT.dat
-rw-r--r-- 1 cx5adm sapsys 5009 Mar  6 15:26 CX5_partnerprofexp.log
```

▼ Partner Type LS	Logical system
• COMCLNT002	COM client 002
• CA2_001	PI QA
• CPAM	CPAM system
• CS2CLNT001	VCC XI Sandbox
• CSACLNT001	CX5 Client 900
• CX5_900	- CT5_900 -
• FIELDGLASS	Fieldglass
• PREVENUE	Logical System for Prime Revenue
• TRADESHIFT	Tradeshift VIM China
• VISTADEV	Vista development

Pre-Refresh Activities

6. Export Partner Profiles (we21)

Ports in IDoc processing

Ports	Description	Port
Ports		
Transactional RFC		
A000000015	My SAP B+W System	
A000000016	ECQ port to connect client	
A000000017	Port	
A000000019	EQQRVCV	
A000000020	Source port ECQ ten	
A000000021	SOURCE PORT FOR ECQ	
A000000022	dev. ecs3	
A000000026	Port to connect client BO	
A000000027	id4kinton	
A000000028	id4kinton	
A000000029	RFC setup to client 200	
A000000030	K2R54H	
A000000032	SAMPLE PORT	
A000000035	to Port 200	
A000000039	port 200	
File		
FILE_PORT	port for transferring data	
ABAP-FI		
XML File		
XML HTTP		

Version

My SAP B+W System

Version

☐ IDoc rec-types SAP Release 3.0/3.1

☒ IDoc record types SAP Release 4.x

Processing Options

☐ Send Only Fields of Segment Version

☐ Use SAP Release of Receiving System in Control Record

Pre-Refresh Activities

7. Save Logon Groups RZ12

```
-FW-r--r-- 1 sapsys 778 Mar 6 15:36 Logongroup.ct1
gotssap305: 77> pwd
/usr/sap/trans
gotssap305: 78>
```

```
gotssap305: 75> R3trans -w logon_groups_exp.log logon_groups_exp
This is R3trans version 6.26 (release 749 - 14.02.17 - 20:17:01).
unicode enabled version
R3trans finished (0000).
```

CCMS: RFC Server Group Maintenance

Delete Assignment Delete Group Remove Instance

Logon Group	Instance	Status
390	gotssap305_CXS_02	
310	gotssap308_CQS_00	

Change Assignment

Group assignment

Server group: 390

Instance: gotssap305_CXS_02

Instance-Dependent Properties

Resource Allocation









Activated (0 or 1)	1
Max. Requests in Queue (%)	5
Max. No. of Logons (%)	90
Maximum No. Separate Logons(%)	25
Max. Number of VPs Used (%)	75
Minimum Number of Free VPs	1
Max. No. of Comm. Entries (%)	90
Max. Wait Time	15


Copy

Pre-Refresh Activities

8. RFC Groups SAP Basis Screenshots

CCMS: RFC Server Group Maintenance

   Delete Assignment  Delete Group  Remove instance   

Logon Group	Instance	Status
390	gotsap305_CX5_02	
SLO	gotsap308_CX5_00	

Pre-Refresh Activities

9. Clean up Job Log Directory

Job Overview

Refresh Release Spool Job log Step Application servers

Job overview from: 00.00.0000 at: : :
to: 00.00.0000 at: : :
Selected job name: *SAP_REORG*
Selected user name: *

☒ Scheduled ☒ Released ☐ Ready ☐ Active ☐ Finished ☐ Canceled
☐ Event controlled Event ID:
☐ ABAP program Program name :

JobName	Spool list	Job documentation	Job CreatedBy	Status	Start date	Start Time	Duration(sec.)	Delay (sec.)
<input checked="" type="checkbox"/> SAP_REORG_ABAPDOPS			YVEDAGIR	Scheduled			0	0
<input type="checkbox"/> SAP_REORG_JOBS_2			GANDEP90	Scheduled			0	0
<input type="checkbox"/> SAP_REORG_VORSTATISTICS			TH93791	Scheduled			0	0
<input type="checkbox"/> SAP_REORG_MOME_R3_STAT_M8			TH93791	Scheduled			0	0
<input type="checkbox"/> SAP_REORG_ORPHANED_JOBLGDS			ABRAHA2	Scheduled			0	0
<input type="checkbox"/> SAP_REORG_ORPHANED_TRACE_FILES			ABRAHA2	Scheduled			0	0
<input type="checkbox"/> SAP_REORG_PRTPARAMS			ABRAHA2	Scheduled			0	0
<input type="checkbox"/> SAP_REORG_SPOOL			MAXELIS15	Scheduled			0	0
<input type="checkbox"/> SAP_REORG_SPOOL_EVNTING			GANDEP90	Scheduled			0	0
<input type="checkbox"/> SAP_REORG_XMTLOG			ABRAHA2	Scheduled			0	0
*Summary							0	0

Pre-Refresh Activities

10. Operation Mode Configuration SAP Basis Screenshot

Productive operation modes (normal operation)		
Operation mode	Time	Text
CC merge		For merge of company codes
Day_new		New OP mode for COS DAY operation
Daytime	05:00 - 18:00	Normal daytime operation with many dialog processes
Full night	18:00 - 05:00	Many batch processes
Switch_UPD_2_BG		Switch Update to BG work process
Upgrade		Operation mode for upgrade
all_dialog		all dialog

```
gotsap305:cx5adm 96> R3trans -w EXPORT_OP_MODES.log EXPORT_OP_MODES
This is R3trans version 6.26 (release 749 - 14.02.17 - 20:17:01).
unicode enabled version
R3trans finished (0000).
gotsap305:cx5adm 97> ls -ltr
```

Pre-Refresh Activities

11. Export Web Service Configuration
12. Export tRFC and Outbound qRFC Configuration

qRFC Monitor (QIN Scheduler)

Registration Register without activation Deregistration qRFC Monitor

Scheduler Information	
Scheduler Status	: Inactiv.
Last Update (Every 2 Minutes)	: 05.04.2014 19:22:04
Name of AS Group (DEFAULT = All):	DEFAULT
Number of Entries Displayed	0
Host ID	:
Number of Active Connections	0
Scheduler Monitoring	: Default(1.800)seconds

Nothing selected

Pre-Refresh Activities

12. Export tRFC and Outbound qRFC Configuration

[illegible]

Display of Possible Resources for tRFC/qRFC

Resources for AS Group: DEFAULT Time: 17:05:47

Host ID	Max. DIA WPs	DIA WPs for tRFC/qRFC	Resource Status	
gorsep005_CMS_02	12	11	OK	
TOTAL	12	11		

Pre-Refresh Activities

13. Export SCOT Configuration

SAPconnect: General node data of node SMTP

General Information

Node: SMTP

Description: Mail Server

Maximum waiting time for repeat send attempt procedure:
Hours/minutes: / 30

☒ Node in use

SMTP Connection

Mail Host: mailrelayout.volvears.net

Mail Port: 25

Security: Do not use TLS

Settings

Supported address types

☐ Fax Set

☒ Internet Set

☐ Pager (SMS) Set

Last changed by: SDIKSHIT on 04.10.2012

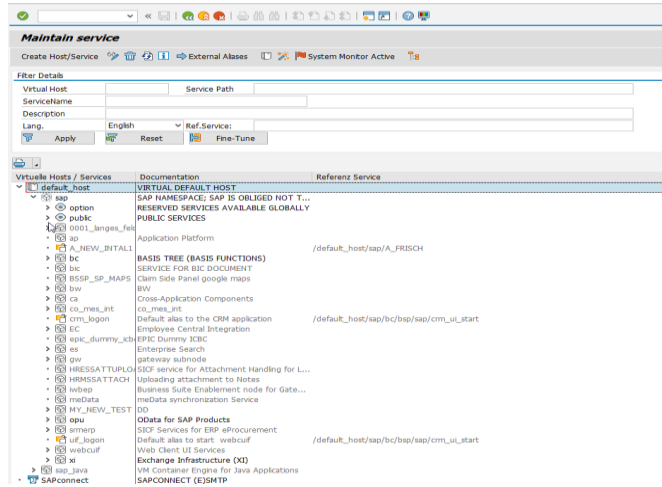
System Status

Start of Evaluation Time: 05.03.2018 00:00:00

	Waiting	Internal out...	Internal error	Connection e...	External error	Sent	Transmitted
OS(900)	1116	0	0	0	0	0	0
Fax	0	0	0	0	0	0	0
Internet	1116	0	0	0	0	0	0
Pager(SMS)	0	0	0	0	0	0	0

Pre-Refresh Activities

14. Export SICF Configuration



Pre-Refresh Activities

15. Export SLDAPICUST Configuration

Change SLD Access Data

Test

☒ Access to SLD Server Using RFC
☐ Access to SLD Server Using HTTP (recommended)
 ☒ Connection Parameter Entered Here (recommended)
 ☐ Connection Using HTTP Destination (recommended)

Alas Name Prim. Host Name Port User Password

CS2_RFC	<input checked="" type="checkbox"/>	gotsap408.got.volvocars.net	50000	j2ee_admin	
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Change SLD Access Data

Test

☐ Access to SLD Server Using RFC
☒ Access to SLD Server Using HTTP (recommended)
 ☒ Connection Parameter Entered Here (recommended)
 ☐ Connection Using HTTP Destination (recommended)

Alas Name Prim. Host Name Port User Password

CS2_RFC	<input checked="" type="checkbox"/>	gotsap408.got.volvocars.net	50000	j2ee_admin	
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Pre-Refresh Activities

16. Export STRUST Configuration

```
gotsap305:cx5adm 101> R3trans -w CX5_STRUST_EXPORT.log CX5_STRUST_EXPORT
This is R3trans version 6.26 (release 749 - 14.02.17 - 20:17:01).
unicode enabled version
R3trans finished (0000).
```

```
gotsap305:cx5adm 110> ls -lrt | grep -i strust
-rw-r--r-- 1 cx5adm sapsys      183 Mar  6 17:31 CX5_STRUST_EXPORT
-rw-r--r-- 1 cx5adm sapsys    14009 Mar  6 17:31 strust_CX5.dat
-rw-r--r-- 1 cx5adm sapsys     2701 Mar  6 17:31 CX5_STRUST_EXPORT.log
gotsap305:cx5adm 111>
```

17. Export Cross-Client FileName/Path Configurations

```
gotsap305:cx5adm 112> R3trans -w EXPORT_ALL_CX5.log EXPORT_ALL_CX5
This is R3trans version 6.26 (release 749 - 14.02.17 - 20:17:01).
unicode enabled version
R3trans finished (0000).
gotsap305:cx5adm 113>
```

```
gotsap305:cx5adm 115> ls -lrt | grep -i CX5_AL11
-rw-r--r-- 1 cx5adm sapsys      1136 Mar  6 17:37 CX5_AL11\data
gotsap305:cx5adm 116>
```

Pre-Refresh Activities

18. Export DBACOCKPIT Configurations

The screenshot displays the DBA Planning Calendar application. The interface includes a top navigation bar with tabs for Week, Month, Save Settings, and Legend. Below this, there's a sidebar on the left with filters for System (DB), Category (All Actions), and Calendar ID. The main area shows a calendar grid for March and April 2018. A tooltip is visible over the date March 12, 2018, showing details for a specific action. At the bottom left, there's an 'Action Pad' section listing actions like 'Complete Data Backup', 'Consistency Check', and 'Central Calendar Log Collector'.

Pre-Refresh Activities

19. Export Batch Job Variants

The screenshot shows the 'Standard Job' configuration window in SAP. The 'Information' tab is active, displaying a table with columns: Co., Background Job Name, SchedStart, SchedStop, Start date, Start time, Status, Job info, Rept Name, Period, Variant name, and Servername. Below the table is a 'Schedule standard job' section with input fields for SAP Component, Job name, Job info, Rept Name, Variant, and Servername. To the right of these fields are radio buttons for 'StartTime' (Immediate, Daily / time) and 'Period' (None, Hourly, Daily, Weekly, Monthly).

20. Export Batch Job Server Configurations

21. Export OS Commands

Pre-Refresh Activities

22. Check SMICM

ICM Monitor - Service Display

Active Services

No.	Process	Service Name/Port	Host Name	Keep Alive	Proc. Time	Conn	External Bind	ACL File
1	ICMTP	8001	sthai-gpt.vchosts.	60	800	✓		
2	ICMTP	8	sthai-gpt.vchosts.	120	120	✓		
3	ICMTPS	40443	sthai-gpt.vchosts.	60	800	✓		

ICM Monitor of Server gotsap305_CX5_02

Release Notes |

ICM Status: Running

Restart After Error: Yes

Trace Level (0-3): 1

Created Worker Threads: 10 / 10 / 500 (Current / Peak / Maximum)

Connections Used: 0 / 4 / 2000 (Current / Peak / Maximum)

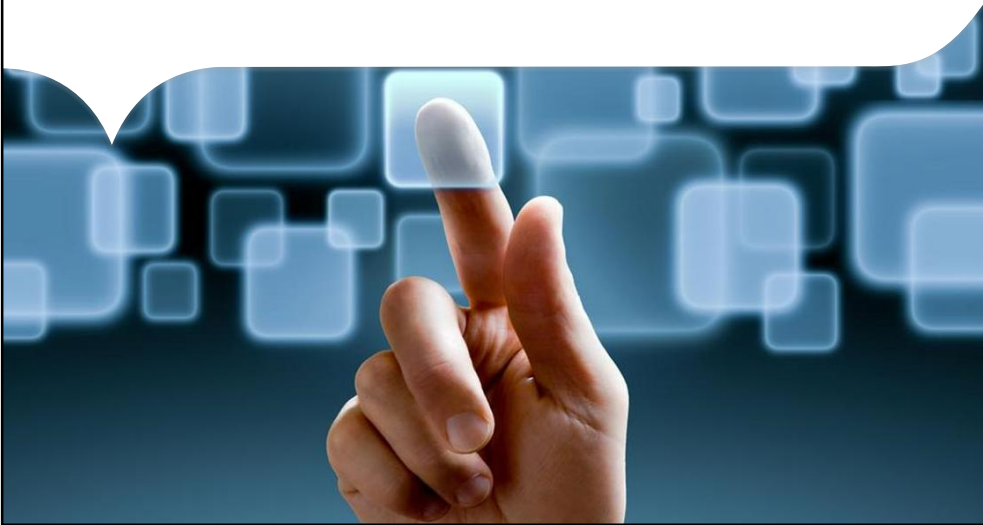
Queue Entries Used: 0 / 2 / 6000 (Current / Peak / Maximum)

No.	Thread ID	Number	Status	Processed Request
1	1403246755	88	Available	
2	1403246750	91	Available	
3	1403246745	91	Available	
4	1403246740	90	Available	
5	1403246734	90	Available	
6	1403246729	90	Running	Administration
7	1403246724	90	Available	
8	1403246718	88	Available	
9	1403246713	90	Available	
10	1403246708	89	Available	

Pre-Refresh Activities

23. Secure the required passwords of OS users ; <sidadm>
24. Secure the required passwords of Application Users ; DDIC/000
25. Secure the required passwords of DB users; SYSTEM; SCHEMA users
26. Download required license for Target and have it stored on OS Level
27. Take a screenshot of Database - just to have it handy to retain incase of issues
28. Send out a communication to all required stakeholders about the downtime
29. Set a system message sm02 with the timelines & unavailability
30. Secure a database backup of the system before starting the activity
31. Disconnect the system from CUA

Database Copy(Restore and Recovery)



DB Restore

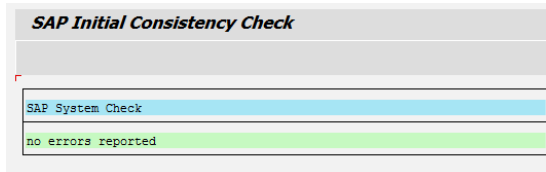
1. Stop SAP Application, Database and Listener.
Stop the SAP application from OS level using Command **"stopsap R3"**
2. Delete the existing datafiles from Target database and rename current control files on target system
3. Restore backup
4. Recover the database
5. Create Control file.
6. Start SAP application
7. Lock all the production users
8. Set SAP background process to 0 and Suspend all the jobs.
9. Restart SAP application

Post- Refresh Activity



Post- Refresh Activity

1. Disable RFCs
2. Disable Edi Ports
3. Truncate TRFC and QRFC tables
4. Truncate profile tables
5. Truncate BG RFC tables
7. Apply SAP licenses
8. Initial Consistency Check



Post- Refresh Activity

9. Logical System Conversion – BDLS

Tool: Conversion of Logical System Names

Converting logical system names

Old Logical System Name

New Logical System Name

☒ Conversion of Client-Dependent and Client-Independent Tables
(e.g. Renaming Original System or Following Database Copy)

☐ Conversion of Client-Dependent Tables
(e.g. Following a Client Copy)

☐ Test run ☐ Check Existence of New Names in Tables

Number of Entries per Commit

Tables to be Converted to

Options

☐ Determine Relevant Tables Again

☒ Start Conversion of Tables with Special Handling

Post- Refresh Activity

10. Check and import RFC destinations
11. Import user master

SAP

☒ Schedule as Background Job ☐ Start Immediately

Post-Client Import Methods

Request:

Profile name:

Export time:

Export system:

Import Verification

Client Import Post-Processing

You Have Chosen the Following Parameters:

Target Client:

Profile Name:

Source Client:

System Name:

☐ Customizing Data ☐ Flavors

☒ Authorization Profile & Roles

☐ Application Data ☐ Change Documents

☒ User Data

☐ Cross-Client Customizing

Copy Mode:

Continue?

Client Copy/Transport Log Analysis

Client Copies in Client 000 : 1

Date	Time	Source	Status	Text	Profile	Mode	Test mode
09.03.2018	15:30:33	000	Import successful	SAP_USER Import			

Post- Refresh Activity

6. Add System back to CUA
7. Reconfigure spool

The screenshot shows the 'Delete Old Spool Requests' transaction in SAP. The screen is divided into four main sections: 'Without Output Request', 'In processing', 'Completed', and 'Incorrect'. Each section has a checkbox for 'Without Output Request', a date field 'older than ... days' (set to 0), and radio buttons for 'and', 'Or', and 'Obsolete'. In the 'Without Output Request' section, the 'Obsolete' radio button is selected. In the 'In processing' section, the 'Or' radio button is selected. In the 'Completed' section, the 'Obsolete' radio button is selected. There is a small icon in the top right corner of the 'Completed' section.

Post- Refresh Activity

12. Clean CCMS data



13. Change logon groups

```
gotsap305:cx5adm 55> R3trans -w logongroup_imp.log logongroup_imp
This is R3trans version 6.26 (release 749 - 14.02.17 - 20:17:01).
unicode enabled version
R3trans finished (0004).
gotsap305:cx5adm 56>
```

Post- Refresh Activity

14. Change RFC server groups
15. TemSe Consistency Check

Spool Data Consistency Check in Background

Release locks after ... minutes: 10080

☒ Delete old write locks

☒ Only list inconsistencies

Delete After Runs: 00

Consistency check of table TSP01 / spool requests

System CX5 2018-03-09 16:22:12

Input value for RSP01043 20180309 152212

Release write locks after ... minutes	10080
Delete old write locks	X (yes)
Only list inconsistencies	X (yes)
Delete Inconsistencies After ... Runs	00

No. spool requests	1,928
No. print requests	1,437

Post- Refresh Activity

12. Schedule Standard jobs
13. Connect to SLD

```
SLD DS Start Program

SLD DS Start Program

0: gotsap305_CX5_02      : Execute program: SLD_NNSYS
0: gotsap305_CX5_02      : Execute program: SLD_GNSRV
0: gotsap305_CX5_02      : Execute program: SLD_IPSERV
0: gotsap305_CX5_02      : Execute program: SLD_MGOSRV
0: gotsap305_CX5_02      : Execute program: SLD_HTTPSERV
0: gotsap305_CX5_02      : Execute program: SLD_COMPSTS
0: gotsap305_CX5_02      : Execute program: SLD_INSTSP
0: gotsap305_CX5_02      : Execute program: SLD_CLIENT
0: gotsap305_CX5_02      : Execute program: SLD_BCHSTS
0: gotsap305_CX5_02      : Execute program: SLD_INSTSC
0: gotsap305_CX5_02      : Execute program: SLD_APPL_SERV
0: gotsap305_CX5_02      : Execute program: SLD_DBSTS
0: gotsap305_CX5_02      : Execute program: SLD_DBCONW
0: gotsap305_CX5_02      : Collection of SLD data finished
0: gotsap305_CX5_02      : Data collected successfully
0: gotsap305_CX5_02      : RFC data prepared
0: gotsap305_CX5_02      : Used RFC destination: SLD_UC
0: gotsap305_CX5_02      : RFC call successful
0: gotsap305_CX5_02      : Existing periodic jobs removed.
0: gotsap305_CX5_02      : Program scheduled: 20180310 051900
0: gotsap305_CX5_02      : SLD job for system start: Program scheduled: SAP_SYSTEM_START
```

Post- Refresh Activity

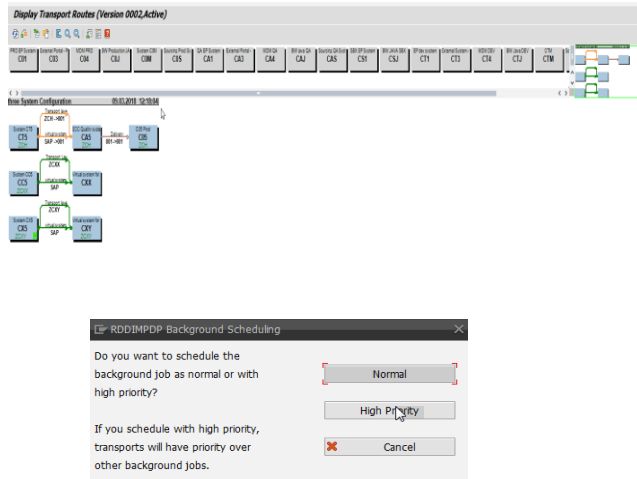
14. Verify operation modes in RZ04
15. SSO Certificates

```
gotsap305:cx5adm 78> R3trans -w CX5_STRUST_IMPORT.log CX5_STRUST_IMPORT
This is R3trans version 6.26 (release 749 - 14.02.17 - 20:17:01).
unicode enabled version
R3trans finished (000%).
gotsap305:cx5adm 79>
```

16. Generate load SGEN
17. Check the DB planning calendar
18. Disable Email Functionality
19. Check the Integrations

Post- Refresh Activity

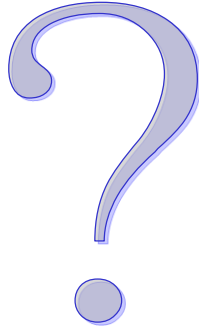
20. Retain the STMS configuration as before



Post- Refresh Activity

21. Import any add-ons (if any)
22. Import any TR's (provided by Projects i.e. in-flight transports)
23. Check the Integrations - RFC's & PROXY to PI and any other 3rd party interface observed during prechecks.
24. Configure Database Backup
25. Release system to users

Questions





People matter, results count.



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