

System Maintenance Action Plan (SMAP)



System Administration

SAP System ID

SAP Component

Release

DB System

Customer

Service Center
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2 SMO: System Administration

2.1 Session Summary

2.2 Action Plan

| Number | Priority | Action Description | Deadline | Person Responsible | Issue Type |
|--------|----------|--------------------|----------|--------------------|------------|
| | | | | | |

2.3 Questionnaire Topics / Session Content

SESSION CONTENT

| Description | Show Check |
|---------------------------|-------------------------------------|
| Introduction | <input type="checkbox"/> |
| Performance Management | <input type="checkbox"/> |
| System Management | <input type="checkbox"/> |
| Database Management | <input type="checkbox"/> |
| High Availability | <input type="checkbox"/> |
| Printing | <input type="checkbox"/> |
| Change Management | <input type="checkbox"/> |
| Security | <input type="checkbox"/> |
| APO | <input checked="" type="checkbox"/> |
| BW | <input type="checkbox"/> |
| CRM | <input type="checkbox"/> |
| XI | <input type="checkbox"/> |
| SAP Technology Components | <input checked="" type="checkbox"/> |

3 Advanced Planner and Optimizer (APO)

3.1 APO Administration Responsible Persons

RESPONSIBLE PERSON

| Responsible Person | Company |
|--------------------|---------|
| | |
| | |
| | |
| | |

3.2 Configuration/Sizing

3.2.1 Quick Sizer

Purpose

Once for configuration and if important changes are expected.

Procedure

Estimate the following values. For more information, see SAPNet, Alias Sizing | Media Center | Quick Sizer Offline Questionnaire Version 2.0

or

Alias SIZING | Quick Sizer | Start Quick Sizing. Under Preview | Advanced Planner

INDICATORS OF APO SIZING

| Indicator | Value |
|--|--------|
| #Demand Planning | Yes/No |
| Total number of characteristic combinations | |
| Total number of key figures | |
| Number of keyfigures in livecache (in %) | |
| Total number of periods in planning horizon | |
| Total number of periods in historical horizon | |
| Number of planning versions in Infocubes | |
| Number of planning versions in liveCache | |
| Retention period for data records in InfoCube in months | |
| Characteristic combinations relevant for planning run in % of above | |
| Execution period of planning run | |
| Users of Demand Planning (as additional load) | |
| | |
| #Supply Network Planning/PP/DS/ATP | Yes/No |
| #Master Data | |
| Number of location products | |
| Total number of resources | |
| Number of warehouse stocks | |
| #Different types of Orders or Requisitions used for planning | |
| #Average Number of Objects in the Planning Horizon | |
| Sales orders | |
| Purchase orders or purchase requisitions | |
| Transfer orders | |
| Forecast orders | |
| Planned orders with SNP production process models (PPMs) | |
| Average number of planned orders and manufacturing orders with PP-PPMs | |
| #Time Series liveCache in SNP | |

| Indicator | Value |
|--|--------|
| Number of location products | |
| No. of key figures | |
| No. of time buckets | |
| #Supply Network Planning | Yes/No |
| Number of location products planned in heuristic planning run | |
| Execution period of the planning runs | |
| Users of Supply Network Planning (as additional load) | |
| #Production Planning - Detailed Scheduling | Yes/No |
| Users of Planning Table (as additional load) | |
| #Available-To-Promise (ATP) | |
| Number of ATP requests against warehouse stocks per hour | |
| Number of rule-based ATP requests per hour | |
| Number of CTP requests per hour | |
| #Integration | |
| Number of sales orders transferred to and from APO per hour | |
| Number of manufacturing orders transferred to and from APO per hour | |
| Number of purchase requisitions transferred to and from APO per hour | |
| #Miscellaneous | |
| Number of planning versions (including active version) | |

3.2.2 Install RFCOSCOL

Purpose

For analyzing hardware and operating load on standalone liveCache and Optimizer we recommend to implement the SAPOSCOL on all standalone servers.

Procedure

SMAP Tasks

| Task | Responsible | Frequency | Menu Path | Transaction |
|--------------------------|-------------|----------------------|---|---------------------|
| Check log | | <every now and than> | Tools CCMS Control/Monitoring Performance Menu Operating system Remote Activity Goto OS Collector | OS07 OS Collector |
| Using Alert Monitor RZ20 | | | Tools Control/Monitoring | RZ20 |

LIST OF SAPNET NOTES

| Topic | Notes |
|--|------------------------|
| Install RFCOSCOL (for Rel. <= 4.6 B) | 202934 |
| Using data collection agent SAPCCMSR (for Rel. <= 4.6 B) | 371023 |

3.2.3 Integration Models

Purpose

<init and after customizing>

Procedure

It is important for system administrators to know which data how and how often will be transferred from R/3 System to APO System.

In general it is recommended to have different Integration models for different data.

You can choose between immediate and periodic transfer of data. This will be customized with help of transaction CFC5 (CFC9 as of PlugIn 2002.2).

Immediate Transfer

Check entries in table CIFMODGEN.

Check running of background jobs RIMODGEN and RIMODAC2.

Periodic Transfer

based on ALE and Change Pointer Processing.

Check which Change Pointers are activated with help of BD52.

Reorganize Change Pointer Table with help of transaction BD22.

INTEGRATION MODELS

| Model | Logical System | Application | Selected Data | Transfer Method |
|-------|----------------|-------------|---------------|---|
| | | | | <Immediately, Change Pointers,no transfer of changings> |

SMAP TASKS

| Task | Responsible | Frequency | Menu Path | Transaction |
|---|-------------|--|--|---------------------------------|
| Check Integration Models | | | Logistics Central Functions Supply Chain Planning Interface Core Interface APO Integration Model Display | CFM4 |
| Consistency check of Integration models as og PI 2002.1 | | weekly | Report RCIFIMAX | |
| Create Integration Models | | | Logistics Central Functions Supply Chain Planning Interface Core Interface APO Integration Model Create | CFM1 |
| Activate Integration Model | | | Logistics Central Functions Supply Chain Planning Interface Core Interface APO Integration Model Activate | CFM2 |
| Change Integration Models | | | Logistics Central Functions Supply Chain Planning Interface Core Interface APO Integration Model Change | CFM6 |
| Delete obsolete Integration Models | | <weekly> | | Report RIMODDEL |
| Check transfer method | | | | CFC5 (CFC9 as of PlugIn 2002.2) |
| Background Jobs RIMODGEN and RIMODAC2 | | | | SM37 |
| Activate Change Pointers in general | | | | BD61 |
| Choose and adapt Message Types for transferring | | | | BD50 |
| Schedule data transfer for Change Pointer Method | | | | CFP1, Report RCPTRAN4 |
| Reorganize Change Pointers | | <weekly obsolete change pointers which are older than 14 days> | Tools ALE Administration Services Change Pointers Reorganize | BD22, Report RBDCPCLR |
| Check data transfer channels in R/3 | | | | CFP2 |
| Check data transfer channels in APO | | | | /sapapo/cq |

LIST OF SAPNET NOTES

| Topic | Note Number |
|--|-------------|
| Generation and activation of integration models in batch | 187455 |

| Topic | Note Number |
|--|-------------|
| Inconsistencies between material master and integration models | 201516 |

3.2.4 liveCache Preparation

Purpose

During liveCache preparation.

Procedure

PROCEDURE FOR LIVECACHE PREPARATION

| Step | Task | Responsible | Frequency | Menu Path | Transaction |
|------|---|-------------|-----------|---|---|
| 1. | Maintain password 'control' for DBM user 'control' | | | Tools APO Administration liveCache/COM Routinen Monitor Integration User data | LC 10 Integration User data |
| 2. | Maintain password 'sap' for liveCache user 'SAPR3' / user 'SAP<LC-SID>' if SCM 4.0 was built up by a new installation | | | Tools APO Administration liveCache/COM Routinen Monitor Integration User data | LC 10 Integration User data |
| 3. | Maintain /SAPAPO/DELETE_LC_ANCHORS in field 'Follow-up processing' of section 'Initialize liveCache' | | | Tools APO Administration liveCache/COM Routinen Monitor Integration Administration report | LC 10 Integration Administration report |
| 4. | Flag checkbox 'Activate Alert Monitoring' | | | Tools APO Administration liveCache/COM Routinen Monitor Integration Alert Monitoring | LC 10 Integration Alert Monitoring |

3.2.5 liveCache 7.4 Parameters

Purpose

If necessary.

Procedure

For configuring the liveCache you have to maintain the liveCache Kernel parameters.

In order to get information about these liveCache parameters use Transaction LC10, logical connection LCA.

Choose liveCache: Monitoring | Current Status | Configuration | Parameters | Currently, for maintaining liveCache: Monitoring | Administration | Parameters.

LIVECACHE PARAMETERS

| Parameter | Meaning | Default | Current |
|------------------|---|---------------------------------|---------|
| MAXUSERTASKS | maximum number of liveCache users | #APO work processes*2 + Reserve | |
| MAXLOCKS | maximum number of simultaneous line locks | | |
| CACHE_SIZE | The size of the data cache in pages | | |
| MAXDATAPAGES | Maximum number of data devspaces | | |
| MAXDATADEVSPACES | Maximum number of data devspaces | | |
| MAXCPU | Maximum of used CPU of liveCache | | |
| OMS_HEAP_LIMIT | Maximum of allowed size of heap of COM Routines | | |
| OMS_HEAP_COUNT | Number of OMS Heaps | 1 | |
| LOG_MODE | Logging Mode | Single | |

| Parameter | Meaning | Default | Current |
|-------------------|---|----------------------------|---------|
| LOG_IO_QUEUE | Size of Log Queue in Pages | 100 | |
| DIAG_HISTORY_PATH | Directory in which crash histories (Dumps, diagnosis filesetc.)are saved. | <RUNDIRECTORY>/DIAGHISTORY | |
| DIAG_HISTORY_NUM | Number of crash histories (logs) | 2 | |

LIST OF SAPNET NOTES

| Topic | Note Number |
|------------------------------|------------------------|
| liveCache Parameters | 490958 |
| Parameters for liveCache 7.4 | 496318 |
| liveCache Parameters | 424886 |
| OMS_HEAP_COUNT | 516661 |

3.3 BW within APO

Purpose

Schedule weekly running job.

Procedure

Schedule a job with the report SAP_ANALYZE_ALL_INFOCUBES weekly with an initial sample size of 10%. All other tables not related directly to APO must be analyzed by the SAPDBA weekly as well. It is important to finish the SAPDBA analysis before report SAP_ANALYZE_ALL_INFOCUBES starts.

Before you perform a refresh, please consider the following:

1. After the initial historical load or load of a significant amount of data, the optimizer statistics must be recalculated.
2. For small data loads, you do not have to analyze every load. These small loads will have little impact on the optimizer statistics.

Since BRCONNECT 6.10 Patchlevel 11 you can use also this tool if you use Oracle as APO DB.

RELEVANT SAPNET NOTES

| Topic | Note Number |
|--|------------------------|
| Report SAP_ANALYZE_ALL_INFOCUBES | 421795 |
| BW 2.0 Oracle features | 314719 |
| BRCONNECT for Oracle | 428212 |
| Increased memory consumption with Oracle 8 | 128221 |
| Performance problems/ Overview of Notes | 354080 |
| Oracle DB Statistics for BW tables | 129252 |
| CBO: Weekly scheduling with SAPDBA | 132861 |
| CBO: Parallel generation of optimizer statistics | 184513 |
| CBO: Statistics creation on partitioned tables | 336325 |

3.4 Software Maintenance

Purpose

<regularly or if recommended>

Procedure

<Description of how to install a new Patch and who is responsible>

1. Support Packages
2. Database Patch
3. SAP Kernel Patch
4. COM Routine Patch
5. liveCache Kernel Patch
6. Optimizer Patch
7. Frontend - OCX-Patch
8. Frontend SAPGUI Patch

RESPONSIBILITIES

| Patch | Responsible | How To Do |
|---|-------------|-----------|
| Support Packages | | |
| Database Patch | | |
| SAP Kernel Patch | | |
| liveCache Interface library (dbadaslib) | | |
| COM Routine Patch | | |
| liveCache Kernel Patch | | |
| Optimizer Patch | | |
| Frontend OCX Patch | | |
| Frontend SAPGUI Patch | | |

3.5 Monitoring

3.5.1 Application Log

Purpose

regularly check
delete once a day

Procedure

The following table lists the necessary actions.

Please plan background job for deleting application log periodically once a day.

MAINTAINING APPLICATION LOG

| Task | Responsible | Frequency | Menu Path | Transaction |
|--|-------------|--|---|---|
| Display Application Log in APO System | | <regularly > | Tools APO Administration Integration Monitor Application Log Display Entries | /SAPAPO/C3 |
| Display Application Log in R/3 Systems | | <regularly> | APO Administration Monitor Application Log Displa Entries | CFG1 or Transaction CIF Monitoring Application Log Display Entries |
| Delete Application Log in APO System | | <once a day entries known entries older as one week> | Tools APO Administration Monitor Application Log Delete Entries | /SAPAPO/C6, Background job report /SAPAPO/RDELLOG |
| Delete Application Log in R/3 Systems | | <once a day known entries older as one week> | Logistic central Function Supply Chain Planning Interface Monitoring Application Log CFGD - Delete Entries | CFGD or Background job report RDELALOG or CIF Monitoring Application Log Delete Entries |
| Customizing of Application Logging in APO System | | <Initialization and if necessary> | Tools APO Administration Integration Monitor Application Log Switch on System Logging | /SAPAPO/C41 |
| Customizing of Application Logging in R/3 System | | <Initialization and if necessary> | | CFC2 or Transaction CIF Monitoring Settings User Parameters |
| Switch on Debugging Option in APO System | | in special cases for analyzing application errors | | /SAPAPO/C41 |

| Task | Responsible | Frequency | Menu Path | Transaction |
|---|-------------|---|-----------|---|
| Switch on Debugging Option in R/3 Systems | | in special cases for analyzing application errors | | CFC2 or transaction CIF Monitoring Settings User Parameters |

3.5.2 liveCache Message Log

Purpose

Frequently or in emergency cases

Procedure

Every liveCache system message will be stored in a log file called knldiag. You can check this file within the APO System with help of transaction LC10 | Problem Analysis | Messages | Kernel | Current. The knldiag file is written wrap around. Be sure that the knldiag file is renamed to knldiag.old during restart. For error analysis purposes, it is important to save the knldiag file. On the operating system level, you will find the file in directory /sapdb/data/wrk/<SID>.

In the case of a liveCache crash, the knldiag and all other protocols will be moved into the directory specified in the parameter DIAG_HISTORY_PATH (liveCache 7.4)

Another important log file is the knldiag.err. Every error is documented in this file. You can also check this file within the APO System. In error cases, it is important for analysis. It is located in the same directory like the knldiag file.

In the case of a liveCache crash, all message files and other important data needed for later analysis will be stored in a directory specified by the liveCache parameter DIAG_HISTORY_PATH.

Furthermore, the initialization protocol of liveCache exists. You have to check it after every initialization within the APO System with the help of transaction LC10. On the Operating System Level, you will find it in the directory /sapdb/<SID>/db as file lcinit.log.

The following table lists the necessary actions.

SMAP TASK

| Task | Responsible | Frequency | Menu Path | Transaction |
|---|-------------|------------------------------------|---|--|
| Check liveCache Initialization Protocol | | <after initialization> | Tools APO Administration LiveCache/COM Routines Monitor liveCache: Monitoring Problem Analysis Logs Operating | LC10 liveCache: Monitoring Problem Analysis Logs Operating |
| Check liveCache Kernel Log | | <in error situation> | Tools APO Administration LiveCache/COM Routines Monitor liveCache: Monitoring Problem Analysis Messages Kernel | LC10 liveCache: Monitoring Problem Analysis Messages Kernel |
| Check liveCache error log | | <frequently> | Tools APO Administration LiveCache/COM Routines Monitor liveCache: Monitoring Problem Analysis Messages Kernel | LC10 liveCache: Monitoring Problem Analysis Messages Kernel Error |
| Activate Kernel trace | | <only in coordination with SAP AG> | | |

3.5.3 liveCache Monitoring

Purpose

Frequently

Procedure

For Monitoring liveCache issues you can use transaction LC10 in APO System.

Database Manager DBMGUI on Operating System level

The Database Manager consists of a server and a client part. The server part (DBM server) is responsible for functionality. The client part consists of a graphical user interface, called the Database manager (DBMGUI), and a command line version, called the Database Manager (DBMCLI).

Recommendation:

Please do not use DBMGUI or DBMCLI for starting, stopping of liveCache. For recovery purposes use DBMGUI only for restoring Data Backup.

LIVECACHE MONITORING TASKS

| Task | Responsible | Frequency | Menu Path | Transaction |
|---|-------------|------------------------|---|---|
| System Error Messages | | <frequently> | Tools APO Administration LiveCache/COM Routines liveCache:Monitoring Problem Analysis Messages Kernel | LC10 liveCache:Monitoring Problem Analysis Messages Kernel |
| Data Cache Utilization and Data Cache Hitrate | | <frequently> | Tools APO Administration LiveCache/COM Routines liveCache: Monitoring Current Status Performance Overview | LC10 liveCache: Monitoring Current Status Performance Overview |
| Check Data Volume filling level | | <frequently> | Tools APO Administration LiveCache/COM Routines Current Status Memory Areas Data Area | LC10 liveCache: Monitoring Current Status Memory Areas Data Area |
| Status, Size and number of Volumes,adding Volumes,Display Kernel parameters | | <daily> | Tools APO Administration LiveCache/COM Routines liveCache: Monitoring Configuration | LC10 liveCache: Monitoring Current Status Configuration |
| Check liveCache Initialization Protocol | | <after Initialization> | Tools APO Administration LiveCache/COM Routines liveCache: Monitoring Problem Analysis Logs Operating | LC10 liveCache: Monitoring Problem Analysis Logs Operating |
| Check liveCache | | <if necessary> | | /SAPAPO/OM13 |

3.5.4 liveCache Data Volume Filling Level**Purpose**

<frequently>

Procedure

Please check liveCache Data Volume Filling level carefully. Application errors may occur if the filling level is higher than 90%. The size of the liveCache Data Volumes should be at least 4* data cache size.

LIVECACHE DATA VOLUME FILLING LEVEL

| Task | Responsible | Frequency | Menu Path | Transaction |
|-----------------------------------|-------------|----------------|--|---|
| Check liveCache Data Volume Level | | <frequently> | Tools APO Administration LiveCache/COM Routines liveCache: Monitoring Current status Memory Areas Data Area | LC10 liveCache: Monitoring Current status Memory Areas Data Area |
| Add Data Volume | | <if necessary> | Tools APO Administration LiveCache/COM Routines liveCache: Monitoring Administration Configuration Volumes | LC10 liveCache: Monitoring Administration Configuration Volumes |

3.5.5 liveCache Administration Log**Purpose**

<Frequently>

Procedure

The reported actions are:

- Changes in logmode of liveCache
- Initializations
- Recovery

The table lists for each action the rows:
start and end time, duration of an action, action, number of processed records for User, return code etc.

SMAP TASK

| Task | Responsible | Frequency | Menu Path | Transaction |
|-----------------------------|-------------|----------------|-----------|--------------|
| Check history of liveCache | | <daily> | | /sapapo/om11 |
| Delete history of liveCache | | <if necessary> | | /sapapo/om12 |

3.5.6 liveCache Heap**Purpose**

<if necessary>

Procedure

For processing COM Routines liveCache uses Heap Memory. You have to limit this Heap Memory with help of liveCache parameter OMS_HEAP_LIMIT.

Determine the heap usage via LC10 | liveCache: Monitoring | Current Status | Memory Areas | Heap Usage .
The SIZE value of the MASTER HEAP reflects the memory dynamically allocated for the liveCache heap from the operating system, which is not returned to the operating system until the liveCache stops.
There has to be enough memory for heap , liveCache and perhaps other applications on this server.

Pay attention if you use or plan to use AWE. A check of sizing could be useful. Maybe that it would be better to use a Unix (64 bit Operating) system.

Pay attention if the sum of OMS_HEAP_LIMIT and Data Cache size is bigger than main memory of the liveCache server. With Windows there is a technical limit for process memory (3GB, even with AWE)

You can check if there was COM Routine error in LC10| liveCache: Monitoring| Problem Analysis| Performance | OMS Monitor in tabstrip Entire View or by checking COM Traces.

MEMORY USAGE ON LIVECACHE SERVER

| Application | How to evaluate | Memory consumption in MB |
|--------------------------|---|--------------------------|
| Memory of Server | transaction LC10 liveCache: Monitoring ProblemAnalysis Messages Kernel; search for string 'Total physical memory' | |
| Parameter OMS_HEAP_LIMIT | transaction LC10 liveCache: Monitoring Current Status Configuration Parameters Current | |
| Reserved Heap Memory | Report /sapapo/om_lc_mem_monitor , in the title value 'R' (Reserved) | |
| others | Task manager with Windows or Unix-specific tools | |

LIST OF SAPNET NOTES

| Topic | Note Number |
|---|------------------------|
| Heap Memory | 337445 |
| Additional applications on the LiveCache server | 392852 |
| Initial parameterization of liveCache 7.4 | 490958 |

3.5.7 Consistency Checks**Purpose**

<Frequently and additionally after abnormal system events>

Procedure

Frequently check external consistency at least weekly down to daily if needed.

After abnormal system events there may be inconsistencies

- internal inconsistencies between APO DB and liveCache
- external inconsistencies between the APO System and the dedicated systems.

As a rule first check and restore internal and then check and restore external consistency.

For additional information please use the best practice document "Internal and External Consistency for SAP APO (3.x) / mySAP SCM (4.0)", which can be found in service marketplace service.sap.com/scm -> Best Practices for Solution Management: mySAP SCM.

SMAP TASK

| Task | Responsible | Frequency | Menu Path | Transaction |
|--|-------------|-------------------|-----------|--|
| Check internal consistency | | | | /SAPAPO/OM17 |
| For APO 3.0 only: Check internal consistency of resources | | | | /SAPAPO/REST02 |
| Check internal consistency of DP data | | | | Report /SAPAPO/TS_LCM_CONS_CHECK_ALL |
| Repair DP data | | | | Report /SAPAPO/TS_LCM_CONS_CHECK |
| Check external consistency | | <weekly to daily> | | /SAPAPO/CCR or Report /sapapo/cif_deltareport3 |

LIST OF SAPNET NOTES

| Topic | Note Number |
|-----------------------------------|---------------|
| Description of consistency Checks | <u>425825</u> |

3.6 liveCache Administration Tool

Purpose

<if necessary>

Procedure

There is a liveCache administration tool on operating system level called Database Manager (DBM). DBM works with Client/Server architecture. There are two user interfaces :

- the graphical tool called DBMGUI, which is available on Windows Platforms only,
- the command line oriented tool called DBMCLI.

After installing DBMGUI software on the frontend you can start DBMGUI. You can administer as much liveCache instances with one DBMGUI as you like. Every liveCache you want to administer has to be registered first.

For that proceed as follows:

1. Start DBMGUI and choose in the menu Instance | Register instance (Add .. as of DBMGUI 7.5)
2. Enter the name of the liveCache server and press Enter. You will get a list of all available liveCaches on this server.
3. Choose the liveCache instance.
4. Choose function Register.
5. Enter a significant name for this liveCache.
6. Enter the name of the DBM user and his password.
7. Choose ok.

The tool DBMCLI can be used from every frontend.

The following table includes a list of useful DBMCLI commands.

DBMCLI OPTIONS

| Task | Option |
|---|--|
| show version | dbmcli -d <IC SID> -n <IC host> -u control,control show version |
| show active tasks | dbmcli -d <IC SID> -n <IC host> -u control,control show active |
| show tasks | dbmcli -d <IC SID> -n <IC host> -u control,control show tasks |
| Storing DBM user data for DBMCLI using | dbmcli -d <IC SID> -n <IC host> -us control,control |
| List of possible DBMCLI commands | dbmcli -d <IC SID> -n <IC host> |
| Show DBROOT-Directory, liveCache Kernel version and state | dbmcli -d <IC SID> -n <IC host> db_enum |
| execute an administration command | dbmcli -d <IC SID> -n <IC host> -u <control user>, <password> <administration command> |

| Task | Option |
|--|---|
| Execute a SQL command | dbmcli -d <IC SID> -n <IC host> -uSQL <SQL userid,<password> sql_execute <SQL command> |
| Check AutoLog Status | dbmcli -d <IC SID> -n <IC host> -u control,control autosave_show |
| Switch On AutoLog | dbmcli -d <IC SID> -n <IC host> -u control,control autosave_start |
| Switch Off AutoLog | dbmcli -d <IC SID> -n <IC host> -u control,control autosave_stop |
| Start liveCache | dbmcli -d <IC SID> -n <IC host> -u control,control db_start |
| Start liveCache to status Online (Warm) | dbmcli -d <IC SID> -n <IC host> -u control,control db_warm |
| Stop or (Start) liveCache to status cold | dbmcli -d <IC SID> -n <IC host> -u control,control db_cold |
| Stop liveCache to status offline | dbmcli -d <IC SID> -n <IC host> -u control,control db_offline |

3.6.1 Define a liveCache Backup Medium

Purpose

<if necessary>

Procedure

For defining a medium call on your Windows client tool DBMGUI.

- 1) Choose from the menu of DBMGUI Instance | Configuration | Backup Media
- 2) Choose Media | New | Medium
- 3) Enter a significant media name
- 4) Enter the properties of this backup media. These are two steps.
- 5) Choose Extended for the next step.
- 6) Save the backup medium.

SAPNet Note 338903 describes how to configure using external backup tools with backint interface.

LIST OF SAPNET NOTES

| Topic | Note Number |
|---------------------------------------|------------------------|
| SAP DB: Backint for SAP DB connection | 338903 |

3.6.2 SQL Studio

Purpose

<once for configuration>

Procedure

Please pay attention to the following notes.

LIST OF SAPNET NOTES

| Topic | Note Number |
|--|------------------------|
| Setting up DB connection in OSS | 202344 |
| SQL studio + Database Manager GUI installation | 386714 |

3.6.3 Delete Transactional Simulations

Purpose

<frequently>

Procedure

For technical and business reasons it is recommended to schedule daily report /SAPAPO/OM_REORG_DAILY as described in SAPNet note 139558.

For checking if there are old versions call transaction LC10 | liveCache: Monitor | Problem Analysis| Performance| OMS versions. There should be no versions older than 8 hours.

Furthermore the report /SAPAPO/OM_DELETE_OLD_SIMSESS has to be scheduled every 30 minutes, see SAPNet Note 490992.

SMAP TASKS

| Task | Responsible | Frequency | Menu Path | Transaction |
|--|-------------|--------------------|-----------|-------------|
| Schedule report /SAPAPO/OM_REORG_DAILY for background running | | <daily> | | SM36 |
| Schedule report /SAPAPO/OM_DELETE_OLD_SIMSESS for background running | | <every 30 minutes> | | SM36 |

LIST OF SAPNET NOTES

| Topic | Note Number |
|---|------------------------|
| Scheduling report /SAPAPO/OM_REORG_DAILY | 139558 |
| Earlier deletion of hanging transactional simulations | 490992 |

3.7 Logging of liveCache 7.4

Purpose

<configuration once>
<check frequently>

Background

The size of Log Volumes is highly dependent of changing activity in liveCache. The default value is 2 GB. To avoid system standstill because of filled log Volume you should use AutoLog option which you can switch with help of DBMGUI. If Auto Log is switched on liveCache will automatically backup Log Volumes to predefined medium if a Log segment is filled up. By default Log Segment size is equal to 1/3 of Log size. This value should only be changed in contact with SAP AG.

3.8 Backup

3.8.1 Backup liveCache 7.4

Purpose

<frequently>

Procedure

You can backup liveCache with help of DBMGUI. Before you can backup you have to define mediums as described above.

The following tools are available:

- Report RSLVCBACKUP as of APO 3x, see SAPNote 455154
- Transaction DB13C as of SCM 4x, see SAPNote 431508.

There are different types of backups :

- Complete
complete backup of data of liveCache
- Incremental
incremental backup of changed data since last full backup of liveCache
- Log
backup of Archive Log Area
- AutoLog

after activation of this option there will be an automatic backup of every completed log segment. This option is recommended to avoid Log Full situations.

LIST OF SAPNET NOTES

| Topic | Note Number |
|--|------------------------|
| Save the liveCache with report RSLVCBACKUP | 455154 |
| SAP WebAS - using DB13C or DB13 for SAP DB systems | 431508 |

3.9 Verify of liveCache

Purpose

<after liveCache backup>

VERIFY should not be executed directly on the productive liveCache, instead it should be executed on a second system using liveCachebackup (SAVE DATA).

Procedure

Please follow the instructions in SAP Note 521870.

SMAP Task

| Task | Responsible | Frequency | Menu Path | Transaction |
|---------------------|-------------|---|-----------|-------------|
| Verify of liveCache | | <Once per week during low system activity on a test liveCache instance> | | DBMGUI |

LIST OF SAPNET NOTES

| Topic | Note Number |
|---|-------------|
| Consistency check (verify) of a liveCache | 521870 |

3.10 Initialization of liveCache

Purpose

After crash of liveCache only if no recovery is possible.

Procedure

An initialization of the liveCaches must be carried out only according to a recommendation and with help of SAP AG.

3.11 Recovery for liveCache 7.4

3.11.1 Recovery with liveCache 7.4 in Case of a Soft Crash

Purpose

<after liveCache crash>

Procedure

For recovery purposes use DBMGUI and transaction LC10.

RECOVERY FOR LC 7.4 IN CASE OF A SOFT CRASH

| Step | Task | Responsible | Comment |
|---|------|-------------|---------|
| Stop data transfer from dedicated system | | | |
| Lock APO system against users | | | |
| Find out and solve the reason for the crash | | | |
| Start liveCache with LC10 or DBMGUI | | | |
| Restart Data transfer | | | |
| Unlock APO user | | | |

3.11.2 Recovery with liveCache 7.4 in Case of a Hard Crash

Purpose

<after liveCache crash>

Procedure

For recovery purposes use DBMGUI and transaction LC10.

SMAP Tasks

| Step | Task | Responsible | Comment |
|---|------|-------------|---------|
| Stop of data transfer from dedicated systems | | | |
| Lock APO System against users | | | |
| Start restore of data and log backups with help of DBMGUI in case of a disk crash | | | |
| Recovery of Logs or restore incremental backups | | | |
| Restart liveCache with help of transaction LC10 or with DBMGUI | | | |

| Step | Task | Responsible | Comment |
|-----------------------|------|-------------|---------|
| Unlock APO System | | | |
| Restart data transfer | | | |

3.12 Consistency Check

Purpose

Even after a recovery there could be internal and external inconsistencies in your system landscape.

Procedure

Before go live, start inconsistency checks based on SAP Note 425825.

IMPORTANT NOTES

| Topic | Note Number |
|--------------------|------------------------|
| Consistency Checks | 425825 |

3.13 Periodic Background Jobs

Purpose

<regularly>

Procedure

Use transaction SM36 for schedule background jobs.

BACKGROUND JOBS FOR MAINTENANCE OF APO SYSTEMS

| Function | Report | Period | System |
|---|-------------------------------|--------------|-------------|
| qRFC Outbound Alert Monitor | /SAPAPO/RCIFQUEUECHECK | 15 min | APO |
| qRFC Inbound Alert Monitor | /SAPAPO/RCIFINQUEUECKECK | 15 min | APO |
| Delete Application Log | SBAL_DELETE | weekly | APO and R/3 |
| Check consistency of Integration models (as of PI2002.1) | RCIFIMAX | weekly | R/3 |
| Delete obsolete transactional simulations | /SAPAPO/OM_REORG_DAILY | daily | APO |
| Delete obsolete transactional simulations without relations | /SAPAPO/OM_DELETE_OLD_SIMSESS | every 30 min | APO |
| Delete obsolete Demand Job Logs older than 8 days | /SAPAPO/TS_BATCH_LOGFILE | daily | APO |

LIST OF SAPNET NOTES

| Topic | Note Number |
|---|------------------------|
| R/3 Standard Jobs | 16083 |
| Demand Planning delete job logs | 512184 |
| Earlier deletion of hanging transactional simulations | 490992 |
| Scheduling report /SAPAPO/OM_REORG_DAILY | 139558 |

3.14 List of Important APO Transactions

IMPORTANT ADMINISTRATION TRANSACTIONS - R/3 SYSTEMS

| Topic | Responsible | Frequency | Transaction; Menu Path | Report |
|---|-------------|----------------|--|----------|
| qRFC Monitor outbound | | <daily> | SMQ1 | |
| Definition and start of integration models, menu for qRFC monitor and application log | | | CFM1, CFM6 or Logistic Central Functions Supply Chain Planning Interface Integration Model | |
| qRFC stop selected outbound queue | | <if necessary> | SMQ1 Edit Display selected queues lock queues or stop immediately | RSTRFCQ1 |

| Topic | Responsible | Frequency | Transaction; Menu Path | Report |
|---|-------------|----------------------------|--|----------|
| qRFC start selected outbound queue | | <if necessary> | SMQ1 Edit Display selected queues restart or activate | RSTRFCQ3 |
| qRFC test and status of a selected outbound queue | | <daily> | SMQ1 | RSTRFCQ2 |
| Display of all outgoing queues | | <if necessary> | CFS0 or CFS1 | |
| Customizing of Application Logging | | <once and if necessary> | CFC6 or CIF Monitoring Settings User parameters | |
| Display application log | | <daily> | CFG1 or CIF Monitoring Application Log Display entries | |
| Delete application log after checking | | <daily> | CFGD or CIF Monitoring Application Log Delete Entries | RDELALOG |
| Setting of Debugging Option | | <if necessary> | CFC2 or CIF Monitoring Settings User parameters | |
| Define and assign logical system to client | | <in implementation phases> | SALE | |
| Check data transfer channels | | <frequently> | CFP2 | |

IMPORTANT ADMINISTRATION TRANSACTIONS - APO SYSTEM

| Topic | Responsible | Frequency | Transaction, Menu Path | Report |
|--|-------------|---|---|--------------------------|
| qRFC Monitor outbound | | <daily> | SMQ1 /SAPAPO/CQ | |
| qRFC Stop selected Outbound queue | | <if necessary> | SMQ1 | RSTRFCQ1 |
| qRFC Start selected Outbound queue | | <if necessary> | SMQ1 | RSTRFCQ3 |
| qRFC test and status of a selected Outbound queue | | | | RSTRFCQ2 |
| qRFC Alert monitor | | <schedule for running every 15 minutes> | /SAPAPO/CW or Tools APO Administration Integration Monitor qRFC Alert | /SAPAPO/RCIFQUEUECHECK |
| Display entries of application log | | <daily> | /SAPAPO/C3 or Tools APO Administration Integration monitor Application Log Display Entries | |
| Delete of Application log entries | | <daily as background job> | | /SAPAPO/RDELLOG |
| Customizing of Application logging | | <Initialization and if necessary> | /SAPAPO/C41 or Tools APO Administration Integration Monitor Application Log Switch on System Logging | |
| Setting of Debugging Option in APO | | <in case of error analyzing> | /SAPAPO/C4 or Tools APO Administration Integration Monitor Application Log Switch on System Logging | |
| Check external consistency between APO and R/3 Systems | | <after detection of application errors, after recovery> | /SAPAPO/CCR | /SAPAPO/cif_deltareport3 |

| Topic | Responsible | Frequency | Transaction, Menu Path | Report |
|--|-------------|----------------------|------------------------|--------|
| Define and assign logical system to client | | <for initialization> | SALE | |
| Define Business system group | | <for initialization> | /SAPAPO/C1 | |
| Assign logical system to Business system group | | <for initialization> | /SAPAPO/C2 | |
| Define distribution scenario | | <for initialization> | /SAPAPO/CP1 | |
| Generate/Delete distribution definition | | <for initialization> | /SAPAPO/CP2 | |
| Check data transfer channels | | | /SAPAPO/CQ | |

IMPORTANT ADMINISTRATION TRANSACTIONS - APO LIVECACHE

| Topic | Responsible | Frequency | Transaction, Menu Path | Report |
|--|-----------------------------|---|---|---------------------------|
| liveCache Administration (Starting, stopping, initialization) | | <if necessary> | LC10 liveCache: Monitoring | |
| liveCache configuration such as parameters, Volumes | | <if necessary> | LC10 liveCache: Monitoring Current Status Configuration | |
| Checking processes and Memory Management | | <daily> | LC10 liveCache: Console | |
| Checking Version of COM routines | | <if necessary> | /sapapo/OM13 | |
| Maintain liveCache connections | | <if necessary> | LC10 Integration | |
| Checking liveCache Connection, status, COM Routines | | <after installation, upgrade, Support Packages, Troubleshooting> | | /SAPAPO/OM13 |
| Check internal consistency between APO DB and liveCache | <Integration Administrator> | <after detection of errors, after recovery> | /SAPAPO/OM_LC_DB_SYNC_PREPARE | /SAPAPO/OM_LC_DB_SYNC_ |
| Delete anchor tables, copying master data back into live cache during initialization | | <is to be maintained in the initialization procedure of liveCache, table DBCON> | LC10 liveCache< Create/Change or Delete Connection liveCache Initialization Processing | /SAPAPO/delete_lc_anchors |

| Topic | Responsible | Frequency | Transaction, Menu Path | Report |
|--------------------------|-------------|----------------|--|--------|
| Display COM Trace file | | <if necessary> | TOOLS APO Administration LiveCache/COM-Routines Tools Display Trace File or /SAPAPO/OM01 | |
| Maintain COM Trace level | | <if necessary> | TOOLS APO Administration LiveCache/COM-Routines Tools Change Trace Level or /SAPAPO/OM02 | |
| liveCache Data Browser | | | TOOLS APO Administration LiveCache/COM-Routines Tools Data Browser or /SAPAPO/OM16 | |

IMPORTANT ADMINISTRATION TRANSACTIONS - APO OPTIMIZER

| Topic | Responsible | Frequency | Transaction, Menu Path | Report |
|---|-------------|-----------------------------|--|--------|
| Optimizer log | | <frequently such as weekly> | /SAPAPO/OPT11 | |
| Display user list on optimizers | | <if necessary> | /SAPAPO/OPT03 | |
| Display optimizer versions | | <if necessary> | /SAPAPO/OPT09 | |
| Display processes | | <if necessary> | /SAPAPO/OPT12 | |
| Maintain master data for optimization server | | <for initialization> | SPRO SAP Reference IMG APO Implement Guide Advanc Pl. a.Opti. Basic Settings Optimization Basic Functions Maintain Master Data for Parallel Optimization | |
| Maintain Parameter for Parallel Optimization | | <for initialization> | SPRO SAP Reference IMG APO Impl. Guide Advanc Pl. a.Opti. Basic Settings Optimization Basic Functions Maintain Parameter for Parallel Optimization | |
| Switch on checking of optimizer server availability | | <if necessary> | SPRO SAP Reference IMG APO Implement Guide Advanc Pl. a.Opti. Basic Settings Optimization Basic Functions Maintain Global Settings or /SAPAPO/COPT00 | |
| Defining and Checking Optimizer RFC destinations | | | SM59 | |

4 qRFC

4.1 General qRFC Settings

4.1.1 Responsible Person in general

RESPONSIBLE PERSON

| Responsible Person | Company |
|--------------------|---------|
| | |
| | |
| | |
| | |

4.1.2 qRFC Instance Parameter Settings

Purpose

After reconfiguring and regularly.

Procedure

The following table gives you some hints for gateway parameter settings. They are to maintain for every instance which is used by qRFC.

IMPORTANT GATEWAYPARAMETER

| Parameter | Meaning | Default Value | Recommendation |
|----------------------------|--|---------------|---|
| gw/max_conn | maximum number of allowed connections to a gateway of an instance | | at least 1000 could be increased until 2000 |
| gw/max_overflow_size | maximum Swap Space of CPIC requests on gateway for R/3 >=4.6D | | 25000000 |
| gw/max_shm_req | maximum number of allowed CPIC connections to gateway for R/3 < 4.6D | | 400 |
| rdisp/max_comm_entries | maximum number of connections to an application server | 100 | 2000 |
| rdisp/rfc_max_comm_entries | maximum number of RFC connections in relation to rdisp/max_comm_entries in percent | 90 | |
| rdisp/rfc_max_own_used_wp | maximum number of dialog work processes, which are allowed to use for RFC in relation to sum of work processes | 75 | |
| rdisp/rfc_min_wait_dia_wp | number of workprocesses which are not allowed for sending RFC requests | 1 | at least 5 |
| rdisp/tm_max_no | maximum number of allowed connection to an instance | | 2000 |

LIST OF SAPNET NOTES

| Topic | Note Number |
|-----------------------------|------------------------|
| Parameters for qRFC | 384971 |
| Optimal parameters for qRFC | 384077 |

4.2 APO Monitoring of qRFC

4.2.1 Responsible Persons

RESPONSIBLE PERSON

| Responsible Person | Company |
|--------------------|---------|
| | |
| | |
| | |
| | |

4.2.2 APO-Monitoring qRFC Outbound Queues

Purpose

Frequently and if there are problems in data transfer to external systems.

Procedure

Check qRFC Outbound Queue in APO System and R/3 Systems.

SMAP TASKS

| Task | Responsible | Frequency | Menu Path | Transaction |
|-----------------------------------|-------------|----------------|---|-------------|
| Checking APO qRFC Outbound Queues | | <frequently> | Tools APO Administration Monitor qRFC Monitor | SMQ1 |
| Stopping selected Outbound Queues | | <if necessary> | Tools APO Administration Monitor qRFC Monitor | SMQ1 |
| Starting selected Outbound queues | | <if necessary> | Tools APO Administration Monitor qRFC Monitor | SMQ1 |

If there is more than one integration model, there may be different qRFC Queues. You can identify APO queues by the naming convention. The names start with CF*.

4.2.3 APO-Monitoring qRFC Inbound Queues

Purpose

<initialization>

Procedure

As of PlugIn 2001.1 and APO Support Package 14 you can activate Inbound Queues. For registration of Inbound Queues use transaction SMQR. Default setting are:

Maxtime 5 maxtime in seconds
 Nretry 30 number of retrys of scheduler
 Tdelay 300 delay between two tries

SMAP Task

| Task | Responsible | Frequency | Menu Path | Transaction |
|----------------------------------|-------------|----------------|-----------|-------------|
| Checking APO qRFC Inbound Queues | | <frequently> | | SMQ2 |
| Stopping selected Inbound Queues | | <if necessary> | | SMQ2 |
| Starting selected Inbound queues | | <if necessary> | | SMQ2 |
| Customize QIN Scheduler | | <if necessary> | | SMQR |

LIST OF SAPNET NOTES

| Topic | Note Number |
|--------------------------------|-------------|
| Activate Inbound Queues | 416475 |
| Configuration of QIN Scheduler | 369007 |
| Inbound Queuesfor Automotive | 430725 |
| SCM Queue manager | 419178 |

4.2.4 APO qRFC Alert Monitor

Purpose

qRFC Alert Monitor

Procedure

SMAP TASK

| Task | Responsible | Frequency | Menu Path | Transaction |
|---|-------------|---|--|------------------|
| Maintain variant for report /SAPAPO/RCIFQUEUECHECK | | <once during implementation and if necessary> | ABAP Workbench Development ABAP Editor Variant create | SE38 |
| Schedule background job for report /SAPAPO/RCIFQUEUECHECK | | <running period 15 min> | CCMS Jobs Definition | SM36, /sapapo/cw |
| Schedule background job for report /SAPAPO/RCIFINQUEUECHECK | | <running period 15 min> | | SM36 |
| Check protocols of this background job | | <frequently> | CCMS Jobs Maintenance | SM37 |

4.2.5 R/3 System Integration Model Generation and Activation

Purpose

<checking>

Procedure

For performance and administration handling reasons it is recommended to define separated integration models for master and transaction data. Therefore customer should have more than one integration model. Incremental data transfer of master data is basically controlled with the transaction CFC5 (CFC9 as of PlugIn 2002.2). This transaction defines whether changes to material masters, customers and vendors are transferred to APO system immediately (in real-time, directly when updating data in the R/3 system), periodically or not at all. Depending on the amount of changes, the immediate data transfer may impact the performance of the system, so in many cases the periodic data transfer is preferred. However, settings for ALE change pointers must also be maintained if this method is used.

Please maintain a list of all relevant Integration Models and their data in your dedicated R/3 Systems.

SMAP TASKS

| Task | Responsible | Frequency | Menu Path | Transaction |
|--|-------------|-----------|--|---|
| In R/3 System: Check Integration Models | | | Logistics Central Functions Supply Chain Planning Interface Core Interface Advanced Planner and Optimizer Integr | CFM1, CFM2 |
| In R/3 System: Check period of scheduled job: RIMODGEN | | | | SE16, Table TBTCP, look for different variant of scheduled report RIMODGEN, or transaction SM37 |
| In R/3 System: Check period of scheduled job: RIMODAC2 | | | | SE16, Table TBTCP, look for different variant of scheduled report RIMODGEN, or transaction SM37 |
| In R/3 System: Customizing of transferring of data changes | | | | CFC5 (CFC9 as of PlugIn 2002.2) |

4.3 Relevant SAPNet Notes

RELEVANT SAPNET NOTES

| Topic | Note Number |
|---|-------------|
| Queue status in SMQ1, SMQ2 and table ARFCRSTATE | 378903 |

5 SAP Technology Components

5.1 Internet Transaction Server (ITS)

5.1.1 ITS Performance Monitoring

Purpose

Regular ITS Monitoring

Procedure

Using ITS Admin Instance

ITS monitoring in the transaction RZ20

SMAP Tasks

| Task | Responsible | Frequency | Menu Path | Transaction |
|--------------------|-------------|-----------|-----------|-------------|
| ITS Admin Instance | | | | |
| Monitoring the ITS | | | | RZ20 |

5.1.2 ITS Backup

Purpose

Web-Server / ITS Backup

Procedure

Customer specific

SMAP Task

| Task | Responsible | Frequency | Menu Path | Transaction |
|-------------------|-------------|-----------|-----------|-------------|
| WEB Server Backup | | | | |
| ITS Backup | | | | |

5.1.3 Relevant SAPNet Notes

LIST OF SAPNET NOTES

| Topic | Note Number |
|---|------------------------|
| ITS HTTP Compression | 321426 |
| Memory Usage Optimization | 207040 |
| Maximum number of conversation exceeded | 316877 |
| Number Of RFC/CPIC Connections | 314530 |
| Number of RFC/CPIC connections for external clients | 210890 |
| RFCOSCOL for NT servers using a gateway | 202934 |
| ITS Performance Monitoring | 338873 |
| Entering ITS server in OSS for PCanywhere access | 367665 |
| Documentation on ITS and the SAP@Web Studio | 86334 |
| ITS Preclarification | 183845 |
| Maint. strategy: Internet Transaction Server (ITS) | 197746 |
| How to run procmon? | 202974 |
| Reading ITS- and Webserver-Logfiles within R/3 | 214251 |
| BBP/CRM Support Packages: publishing ITS files | 313486 |
| Publishing IAC objects | 325149 |
| ITS patch installation of CAR packages | 331407 |
| Activating the AGate Performance Monitoring | 334987 |
| ITS Patch installation of kernel files | 335521 |
| Frontend printing with HTML GUI | 351230 |
| ITS version as of Release 46D | 366052 |

