

TRAX Technical Health Check

Omni Air International

Version 1.0

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# Introduction

This document reviews TRAX database performance concerns identified by Omni Air Internantional, additionally, it includes findings or recommendations designed to improve the overall performance, management and stability of TRAX.

# Initial Concerns

Omni Air International’s (OAI) team collaborated with TRAX during the remote health conference call to discuss the configuration of OAI’s existing environment. Part of this conference call focused on reviewing the issues OAI raised concerning database performance following the upgrade to Oracle.

The initial concerns raised by Omni Air International were:

* When the database operated on Oracle 11gR2, the incremental backups only required 15 minutes to complete. Following the database upgrade to 12cR2, the time needed to complete the production database backups increased over two (2) hours.
* Omni Air asked, with no difference in the amount of uploaded data, why Interface with AIMS that had been used to import actual and scheduled flight information before the upgrade to Oracle only required roughly three (3) minutes to those data compared to the current system’s 40-minute average or longer?
* Another issue occurred a few weeks ago, while troubleshooting with Trax. The parites attempted to remove and recreate the materialized view (mv), but their efforts to drop the mv were unsuccessful.

# TRAX Database Review

## Database Parameters

**UNDO\_RETENTION:** Currently, UNDO\_RETENTION is set to its default value. This parameter should be increased to its optimal value explained below. The SQL script used to compute the optimal UNDO\_RETENTION is uncluded in [Appendix 5.1](#_heading=h.lnxbz9).

| **ACTUAL UNDO SIZE**  **[MByte]** | **UNDO RETENTION** | **OPTIMAL UNDO RETENTION**  **[Sec]** |
| --- | --- | --- |
| 3,425 | 900 | 15,775 |

**JOB\_QUEUE\_PROCESSES:** Currently, this parameter is set to 1,000, indicated a sizeable amount of jobs that the database can be performed simultaneously. Oracle 12cR2 default parameter setting up to 4,000. Ongoing monitoring of this parameter is highly recommended to so that make adjustments when warranted to ensure that the optimal number of jobs are processed simultaneously.

Refer to Oracle [Doc ID](https://support.oracle.com/epmos/faces/DocumentDisplay?id=578831.1) for the recommended procedure to determine the optimal value of this parameter.

**PROCESSES:** This parameter’s current setting is 800, settting the maximum number of operating system user processes that can simultaneously connect to Oracle. That value should support all background processes, for instance, locks, job queue processes, and parallel execution processes. The default values of the SESSIONS and TRANSACTIONS parameters were determined using this parameter.

Keep in mind, if you change the value of PROCESSES, you should assess whether to adjust the values of the derived parameters. One key parameter is the (**JOB\_QUEUE\_PROCESSES);** its setting is 1,000 whereas, the setting of the processes parameter is 800. That value discrepancy may cause the server to breach the maximum threshold of session limit. Identifying the session limit results from calculating the number of processes.

**COMPATIBLE:** OAI’s current setting of this parameter is 11.2.0.0.0. Setting COMPATIBLE ensures that new features do not write data formats or structures to disks that are incompatible with earlier versions, thereby, preventing future downgrades. Features that require a higher value setting of COMPATIBLE in order to perform optimally, may be restricted or disabled so that downgrades are possible.

The COMPATIBLE parameter’s role is to prescribe the Oracle version number used to format the database disk’s compatibility. The database may be downgraded to the version specified in the COMPATIBLE parameter or any later version.

Typically, most users do not change COMPATIBLE  when upgrading their Oracle software. After the upgrade, most users will run the new release of the Oracle software for a few weeks as a safeguard to determine if the new release will perform as expected. When users are confident that the new software is operating as expected, users can decide to update COMPATIBLE to the latest version, to capitalize on the newly acquired features. When the value of the COMPATIBLE parameter was set to 12.2.0.0.0, the resulting maximum size of SQL identifiers increased from 30 bytes to 128 bytes.

MEMORY\_TARGET: The current TRAX Database configuration is set to utilize SGA\_TARGET and PGA\_AGGREGATE target. The operating system is Windows Server that was chosen to dynamically handle memory management. For that reason, the recommendation is for OAI to used the MEMORY\_TARGET parameter instead.

## Database Backups

Trax provided an SQLs to identify the frequency of the database backup. Data analysis revealed that some backups failed. That matter requires futher examination in order to identify the source of this problem. After that, it will be possible to offer a robust solution that will ensure a successful completion of all backups. For additional information, please refer to [Appendix 5.4](#_heading=h.35nkun2).

## Disaster Recovery

Another concern that emerged during the database review conference call was that OAI does not maintain a replica of its Production environment to promote disaster recovery (DR) resilience, currently.

The absence of a DR environment is a potentially crushing calamity in the event that a backup fails, or the database crashes. Lack of adequate preparation for such an event will result in potentially catastrophic costs and other unforeseen damage to the business. It involves conducting a company-wide audit in order to determine how (RTO/RPO) it can withstand in the unfortunate event of a calamitous loss of data.

## Database Schema Maintenance

Omni Air International currently manages its own database service. It is important to ensure adequate database performance so that the following routine maintenance processes are implemented:

* Gather database statistics DBMS\_STATS after an increase in data volume and major application changes (upgrades)

Although no performance issues were identified during our remote Health Check, data analysis revealed that the table’s statistics for the TRAX schema are outdated. That may result in slower performance of the TRAX application, and consequently, that may effect end user productivity. Some tables indicate that last update of OAI’s statistics occurred either on December, 2011; June, 2017; or January, 2018. The DBA team should gather and update the TRAX schema statistics periodically (e.g., collect statistics every three months, at the minimum).

Procedure on how to collect TRAX schema statistics using DBMS\_STATS:

SQL> exec dbms\_stats.gather\_schema\_stats(ownname=>'&SCHEMA\_NAME', cascade=>TRUE, force=>TRUE, degree=>DBMS\_STATS.AUTO\_DEGREE);

## Application Anti-Virus Exceptions

TRAX recommends that any anti-virus software running concurrently on the application servers has the appropriate exclusions in place. That will ensure that the anti-virus software does not interfere with the performance of report printing and loading of the AMM and IPC Manuals.

Please refer to the following two links and make changes, as needed:

* <https://icentral.trax.aero/OnlineResources/FTPupgradeDB/Trax%20Installation%20or%20Upgrade/Anti-Virus%20Recommendations%20for%20TRAX%20Infrastructure.pdf>
* <https://support.citrix.com/article/CTX127030>

# Conclusions and Recommendations

In brief, the recommendations of the Technical Health Check follow:

1. Ensure that all relevant antivirus exceptions are in place. Please refer to the following link for more information:

<https://icentral.trax.aero/OnlineResources/FTPupgradeDB/Trax%20Installation%20or%20Upgrade/Anti-Virus%20Recommendations%20for%20TRAX%20Infrastructure.pdf>

1. Mandate that the DBA team consistently gathers data and proactively monitors the database for performance with bottleneck prevention.
2. In response to the concern of the database backup requiring a significantly longer amount of time following the Oracle upgrade. This issue may be related to one or more of the parameter discussed earlier needing to be tuned in Commvault. Alternately, it might be related to antivirus software scanning files during the backup process. Our recommendation is to get in conctact with Commvault, they will provide a better analysis and how to remedy this issue.
3. The Interface backup seems to have the same cause as the Commvault backup, that could also be related with an antivirus scaning the files.
4. TRAX Recommends that the OAI team create a Disaster Recovery environment designed to minimize recovery time of data loss, including possible delays resulting from the devestating. The recovery mechanism should be tested for operational efficiency, annually.
5. Regarding the materialized view (MV), our recommendation is to contact Oracle Support since an MV should not take long to drop. That is not a normal behavior and it should be addressed with the help of Oracle. There likely is something in the Oracle engine holding or delaying the “drop” process of this MV.
6. Review the configuration of the database backups and investigate why some of them are failing.
7. We recommend reviewing the “processes” and “job\_queue\_processes” parameters to ensure they are set to a proper value. The “processes” parameter effectively determines the maximum number of concurrent users permitted by the system, for the reason that every login requires a session. That parameter needs to be set thoughtfully to a value that considers the maximum number of concurrent users, along with the number of background processes, and approximately 10% of recursive sessions. If the “job\_queue\_processes” is set to a value greater than the permited amount of connections, that could generate the ORA-00020: maximum number of processes (xx) exceeded error message, that could prohibit users from logging into the application.
8. We recommend that the compatible parameter in Oracle should be set to the current version 12.2.0 to capitalize on the latest features Oracle provides.
9. Configure the database to engage the automatic memory management (MEMORY\_TARGET) function. In addition, increase the size of the UNDO\_RETENTION parameter.

# Appendix

## Infrastructure Questionarie

The following questionnaire was completed during the Health Check.

| **Oracle Database** | |
| --- | --- |
| Version of Oracle (Patch)(e.g. 11.2.0.3) | 12.2.0.1 |
| How many database servers do you have in your environment? | 1 |
| Number of Concurrent Users | **-** |
| Storage Setup (RAID Configuration) | SAN over iSCSI, data and log volumes are all on RAID 5, with the majority on SSD. OS volume and Oracle binaries volume are across RAID 5 and RAID 6 disks, across all 3 tiers of storage. |
| Is this a standalone / RAC environment? | Standalone |
| Which Oracle Volume manager are you currently implementing? (e.g. ASM) | None |
| Operating system of database server? | Windows Server 2012 R2 Standard |
| Database server hardware (is the server a VM?How many/much processors, RAM, HDD/SAN) | VM with 4 vCPUs and dynamic memory ranging from 8 GB startup to 32 GB maximum |
| Please include copies of the following alert log and your initialization parameter file. |  |
| Database Backup Method | Commvault |
| Process utilization on database server? | Per Solarwinds, processor utilization peaked at 56% during the past 24 hours, with 80% of the time under 25% |
| Database replication method? | None |

| **Trax Application** | |
| --- | --- |
| What version of TRAX are you currently running? | 12 |
| Are there plans to upgrade TRAX soon? If so, when? | No current plan |
| Deployment model (how will you deploy TRAX?, Citrix, RDS, TraxWeb, Client Installation, Hybrid Deployment) | Client install & RDS |
| Remote locations (Do you have users that are using TRAX from remote locations) If so, how many users per remote station? | Remote users should be using RDS |
| For your remote locations, what are the bandwidth rates from your central location to your remote locations? | Most locations are 20mbps |
| **Storage** | |
| What type of SAN do you currently own? | 3PAR |
| How much storage do you currently have available to you? | 100TB |
| What is the current RAID configuration that you are implementing in you environment? | RAID 5 and RAID 6 |
| Which of the following servers are you using SAN storage for Database Server, Virtual Servers, Citrix/RDS servers? | All |
| **Citrix** | |
| What version of Citrix are you currently using? (will you be upgrading within the next 6 months) |  |
| How many of these servers do you have configured? |  |
| Are these servers Virtualized? If so, with what technology? |  |
| How many users does/will your environment support? |  |
| Are you currently implementing or planning to implement any of the following:   * Biometric Readers * Card Readers/ Smart Cards |  |
| Citrix Server hardware ( How many/much Processors, RAM) |  |
| Memory Utilization for each TRAX instance that is spawned on the Citrix server? |  |
| Are you currently implementing a print manager for your Citrix environments? If so, please provide the name? |  |
| **Remote Desktop Services** | |
| What version of RDS are you running? | Server 2008 R2, Server 2012, Server 2016 |
| How many users does/will your environment support? |  |
| Are any of the following servers virtualized:   * The RDS Broker * The RDS Gateway * The RDS Application Server | Yes, all |
| Are you currently implementing or planning to implement any of the following:   * Biometric Readers * Card Readers/ Smart Cards | We are implementing multifactor authentication not based on these factors |
| RDS server hardware (How many/much processors, RAM)/server role. | RDS Host Servers: 4 vCPU, dynamic RAM from 8GB to 16GB |
| Memory Utilization for Each TRAX instance spawned on the RDS server? | 100MB |
| **Virtualization** | |
| Are you implementing any of the following:   * VMWare * HyperV * Please specify the Version of the Virtualization software. | Hyper-V on Windows Server 2016 |
| Which servers are you virtualizing? | Nearing 100% virtualization |
| How many/much processors, RAM, Storage do you have currently configured on the server? | Hardware is 16 servers, 2 socket, 18-core with Hyperthreading enabled, 256GB RAM each |
|  | |
| **Client Application Installation** | |
| Which client operating systems are you currently using (will you be upgrading soon? If so, to which version)? | **Windows 10 Enterprise** |
| Are your client machines virtualized or physical? | **Both** |
| How many machines do you have in your environment? |  |
| Are you installing TRAX directly on the client or deploying via RDS/Citrix? | Both |

## TRAX Database Table Statistics –“Last Analyzed”

| **TABLE\_NAME** | **LAST\_ANALYZED** |
| --- | --- |
| LOCATION\_CAPACITY\_TRANSACTION | 6-Dec-11 |
| PN\_INVENTORY\_DETAIL\_ASSEMBLY | 6-Dec-11 |
| REQUISITION\_USAGE\_HISTORY | 6-Dec-11 |
| WO\_TC\_OEW | 6-Dec-11 |
| AC\_ACTUAL\_FLIGHTS\_AUDIT\_HD | 20-Jun-17 |
| AC\_ACTUAL\_FLIGHTS\_CREW\_MEMBER | 20-Jun-17 |
| AC\_ACTUAL\_FLIGHTS\_HD | 20-Jun-17 |
| AC\_ACTUAL\_FLIGHTS\_EXCHANGE | 20-Jun-17 |
| AC\_AUTO\_LINE\_WO | 20-Jun-17 |
| AC\_APPROACH\_SURVEY | 20-Jun-17 |
| AC\_APPROACH\_SURVEY\_HD | 20-Jun-17 |
| AC\_CONTROLLER\_PANEL\_ALERT | 20-Jun-17 |
| AC\_EXP\_IMP\_AUDIT | 20-Jun-17 |
| AC\_CONTROLLER\_PANEL\_REMINDER | 20-Jun-17 |
| AC\_LOG\_BOOK\_ASSIGNMENT | 20-Jun-17 |
| AC\_MASTER\_ETOPS | 20-Jun-17 |
| AC\_MASTER\_OVERNIGHT | 20-Jun-17 |
| AC\_OOS\_NARRATIVE | 20-Jun-17 |
| AC\_OUT\_OF\_SERVICE\_HD | 20-Jun-17 |
| AC\_PN\_TRANSACTION\_HISTORY\_HD | 20-Jun-17 |
| AC\_PN\_TRNS\_HIST\_TRNS\_STRUCT | 20-Jun-17 |
| AC\_RESTRICTIONS\_AUDIT | 20-Jun-17 |
| AC\_PN\_TRNS\_HIST\_TRNS\_AUDIT | 20-Jun-17 |
| AC\_TEAR\_DOWN\_DETAIL | 20-Jun-17 |
| AC\_TEAR\_DOWN\_HEADER | 20-Jun-17 |
| AC\_SCHEDULE\_FLIGHT\_HD | 20-Jun-17 |
| AC\_SCHEDULE\_FLIGHT\_PLAN | 20-Jun-17 |
| AC\_UNIT\_TYPE\_HD | 20-Jun-17 |
| AC\_UNIT\_TYPE\_TRANSACTION\_HD | 20-Jun-17 |
| ATA\_CHAPTER\_ASC | 20-Jun-17 |
| AC\_WEIGHT\_HISTORY\_HD | 20-Jun-17 |
| AC\_WEIGHT\_HISTORY | 20-Jun-17 |
| ATA\_CHAPTER\_SECTION\_ALERT | 20-Jun-17 |
| ATA\_CHAPTER\_SECTION\_ALERT\_IFSD | 20-Jun-17 |
| ATA\_TROUBLE\_SHOOTING | 20-Jun-17 |
| ATA\_CHAPTER\_SECTION\_PARAGRAPH | 20-Jun-17 |
| AUDIT\_LOG\_DETAIL\_RESP\_MANAGERS | 20-Jun-17 |
| AUDIT\_LOG\_DETAIL\_ACTION\_RQRD | 20-Jun-17 |
| AUDIT\_REQUEST\_AUDIT | 20-Jun-17 |
| AUDIT\_REQUEST | 20-Jun-17 |
| AUDIT\_REQUIREMENT\_STEP | 20-Jun-17 |
| A\_BALANCE | 20-Jun-17 |
| BADGE\_ENROLLMENT\_AUDIT | 20-Jun-17 |
| BINNING\_INTERFACE\_WAITING | 20-Jun-17 |
| BINNING\_IFACE\_RESP\_AUDIT | 20-Jun-17 |
| BINNING\_INTERFACE | 20-Jun-17 |
| BLOB\_IMG\_TEMP | 20-Jun-17 |
| CLASS\_DEFINITION | 20-Jun-17 |
| COMAT\_DASHBOARD\_HEADER | 20-Jun-17 |
| COMAT\_DASHBOARD\_DETAIL | 20-Jun-17 |
| CCI\_ERROR\_QUEUE | 20-Jun-17 |
| COA\_PN\_TRANSACTION | 20-Jun-17 |
| COA\_AVMS\_ERROR\_FILES | 20-Jun-17 |
| COA\_AVMS\_NOTIFICATION | 20-Jun-17 |
| COA\_IMPORT | 20-Jun-17 |
| CMS\_TRAX\_TEMP | 20-Jun-17 |
| CONFIG\_SETTINGS\_AUDIT | 20-Jun-17 |
| CONCESSION\_REGISTRY\_HD | 20-Jun-17 |
| CONCESSION\_REGISTRY\_AUDIT | 20-Jun-17 |
| CONTRACTOR\_AUTH\_REQUEST\_PN | 20-Jun-17 |
| CONVERSION\_EXCEPTIONS | 20-Jun-17 |
| CONVERSION\_AUDIT | 20-Jun-17 |
| CONTRACTOR\_AUTH\_REQ\_PN\_AUDIT | 20-Jun-17 |
| CONV\_ADV\_AC\_UNIT\_TRANSACTION | 20-Jun-17 |
| CONV\_ADV\_AC\_PN\_TRANS\_HISTORY | 20-Jun-17 |
| CONV\_ADV\_AUDIT\_LOG\_HEADER | 20-Jun-17 |
| CONV\_ADV\_AC\_UNIT\_TYPE\_SETUP | 20-Jun-17 |
| CONV\_ADV\_AC\_WEIGHT\_HISTORY | 20-Jun-17 |
| CONV\_AC\_ACTUAL\_FLIGHTS | 20-Jun-17 |
| CONV\_AC\_MASTER | 20-Jun-17 |
| CONV\_ADV\_AUDIT\_LOG\_DETAIL | 20-Jun-17 |
| CONV\_ADV\_ENG\_CONTROL\_RANGE | 20-Jun-17 |
| CONV\_ADV\_DEFECT\_REPORT\_CPCP | 20-Jun-17 |
| CONV\_ADV\_DEFECT\_PN\_REQUIRE | 20-Jun-17 |
| CONV\_ADV\_DEFECT\_REPORT | 20-Jun-17 |
| CONV\_ADV\_AUTHORIZATION\_MASTER | 20-Jun-17 |
| CONV\_ADV\_ENG\_SCHED\_OVR | 20-Jun-17 |
| CONV\_ADV\_AUDIT\_REQ\_MASTER | 20-Jun-17 |
| CONV\_ADV\_AUDIT\_REQ\_SCHEDULE | 20-Jun-17 |
| CONV\_ADV\_ENGINEERING\_LINKS | 20-Jun-17 |
| CONV\_ADV\_ENGINEERING\_TC\_CTRL | 20-Jun-17 |
| CONV\_ADV\_ENGINEERING\_CALLEDONS | 20-Jun-17 |
| CONV\_ADV\_ENG\_MISC\_ACTIONS | 20-Jun-17 |
| CONV\_ADV\_ENG\_EFFECTIVITY\_PN | 20-Jun-17 |
| CONV\_ADV\_ENGINEERING\_ORDER | 20-Jun-17 |
| CONV\_ADV\_ENG\_EFFECTIVITY\_AC | 20-Jun-17 |
| CONV\_ADV\_ENG\_EFFECTIVITY\_PN\_SN | 20-Jun-17 |
| CONV\_ADV\_DEFECT\_REPORT\_TS | 20-Jun-17 |
| CONV\_ADV\_DEFECT\_XREF | 20-Jun-17 |
| CONV\_ADV\_ORDER\_DETAIL\_WC | 20-Jun-17 |
| CONV\_ADV\_ORDER\_DETAIL\_LO | 20-Jun-17 |
| CONV\_ADV\_FIXED\_ASSET | 20-Jun-17 |
| CONV\_ADV\_LIBRARY\_MASTER | 20-Jun-17 |
| CONV\_ADV\_LIBRARY\_MANUALS | 20-Jun-17 |
| CONV\_ADV\_LIBR\_EFFECTIVITY\_PN | 20-Jun-17 |
| CONV\_ADV\_LIBR\_EFFECTIVITY\_AC | 20-Jun-17 |
| CONV\_ADV\_LOCATION\_SITE | 20-Jun-17 |
| CONV\_ADV\_MEL\_MASTER | 20-Jun-17 |
| CONV\_ADV\_INVOICE\_HEADER | 20-Jun-17 |
| CONV\_ADV\_INVOICE\_DETAIL | 20-Jun-17 |
| CONV\_ADV\_ORDER\_HEADER\_EX | 20-Jun-17 |
| CONV\_ADV\_ORDER\_DETAIL\_PO | 20-Jun-17 |
| CONV\_ADV\_ORDER\_DETAIL\_RO | 20-Jun-17 |
| CONV\_ADV\_ORDER\_DETAIL\_EX | 20-Jun-17 |
| CONV\_ADV\_HISTORY\_KEY\_XREF | 20-Jun-17 |
| CONV\_ADV\_ORDER\_DETAIL\_RN | 20-Jun-17 |
| CONV\_ADV\_ORDER\_HEADER\_RN | 20-Jun-17 |
| CONV\_ADV\_PN\_INV\_DETAIL\_SERIAL | 20-Jun-17 |
| CONV\_ADV\_PN\_INV\_DETAIL\_NON\_SER | 20-Jun-17 |
| CONV\_ADV\_PN\_INVENTORY\_HISTORY | 20-Jun-17 |
| CONV\_ADV\_PN\_INV\_WARRANTY | 20-Jun-17 |
| CONV\_ADV\_PN\_MASTER\_MAIN | 20-Jun-17 |
| CONV\_ADV\_PN\_INTERCH\_BOTH\_WAY | 20-Jun-17 |
| CONV\_ADV\_PN\_INTERCH\_ONE\_WAY | 20-Jun-17 |
| CONV\_ADV\_PN\_EFFECTIVITY | 20-Jun-17 |
| CONV\_ADV\_PN\_VENDOR\_INFORMATION | 20-Jun-17 |
| CONV\_ADV\_PN\_AC\_POSITION | 20-Jun-17 |
| CONV\_ADV\_ORDER\_HEADER\_PO | 20-Jun-17 |
| CONV\_ADV\_ORDER\_HEADER\_RO | 20-Jun-17 |
| CONV\_ADV\_ORDER\_HEADER\_LO | 20-Jun-17 |
| CONV\_ADV\_ORDER\_HEADER\_WC | 20-Jun-17 |
| CONV\_ADV\_PN\_EFF\_RANGE | 20-Jun-17 |
| CONV\_ADV\_PN\_POSITION\_RANGE | 20-Jun-17 |
| CONV\_ADV\_TC\_ALLOWED\_LOCATIONS | 20-Jun-17 |
| CONV\_ADV\_TASK\_CARD | 20-Jun-17 |
| CONV\_ADV\_REQ\_HEADER | 20-Jun-17 |
| CONV\_ADV\_REQ\_DETAIL | 20-Jun-17 |
| CONV\_ADV\_TASK\_CARD\_ZONE | 20-Jun-17 |
| CONV\_ADV\_QA\_AUDIT\_KEY\_XREF | 20-Jun-17 |
| CONV\_ADV\_TASK\_CARD\_DOCUMENT | 20-Jun-17 |
| CONV\_ADV\_TASK\_CARD\_PANEL | 20-Jun-17 |
| CONV\_ADV\_TASK\_CARD\_MANUAL | 20-Jun-17 |
| CONV\_ADV\_TASK\_CARD\_EFFECTIVITY | 20-Jun-17 |
| CONV\_ADV\_TC\_LOCSITE\_BAN\_CTRL | 20-Jun-17 |
| CONV\_ADV\_TASK\_CARD\_RESTRICT | 20-Jun-17 |
| CONV\_ADV\_TASK\_CARD\_ITEM | 20-Jun-17 |
| CONV\_ADV\_REQ\_XREF | 20-Jun-17 |
| CONV\_ADV\_VENDOR\_SPEC2000 | 20-Jun-17 |
| CONV\_ADV\_WO\_DEFECT\_REPORT | 20-Jun-17 |
| CONV\_ADV\_TEAR\_DOWN | 20-Jun-17 |
| CONV\_ADV\_WO\_KEY\_XREF | 20-Jun-17 |
| CONV\_ADV\_WO | 20-Jun-17 |
| CONV\_CUSTOMER\_MASTER | 20-Jun-17 |
| CONV\_ADV\_WO\_COMPONENT | 20-Jun-17 |
| CONV\_ADV\_WO\_PN\_INFORMATION | 20-Jun-17 |
| CONV\_ATA\_CHAPT\_SECT\_PARGR | 20-Jun-17 |
| CONV\_CONTACT\_CONTROL | 20-Jun-17 |
| CONV\_ADV\_WO\_AC\_EC | 20-Jun-17 |
| CONV\_EMPLOYEE\_SKILLS | 20-Jun-17 |
| CONV\_ENGINEERING\_DOCUMENT | 20-Jun-17 |
| CONV\_ENGINEERING\_COMPLIANCE | 20-Jun-17 |
| CONV\_EMPLOYEE\_MASTER | 20-Jun-17 |
| CONV\_GL\_ACCOUNTS | 20-Jun-17 |
| CONV\_LIBRARY\_EFFECTIVITY | 20-Jun-17 |
| CONV\_ENG\_ORDER\_AUDIT | 20-Jun-17 |
| CONV\_JOURNAL\_ENTRIES\_UPD\_AUDIT | 20-Jun-17 |
| CONV\_LIBRARY\_TABLE | 20-Jun-17 |
| CONV\_LOCATION\_BIN\_MASTER | 20-Jun-17 |
| CONV\_LOCATION\_MASTER | 20-Jun-17 |
| CONV\_PN\_CONTROL | 20-Jun-17 |
| CONV\_LIBRARY\_MANUAL | 20-Jun-17 |
| CONV\_PN\_INVENTORY\_LEVEL | 20-Jun-17 |
| CONV\_MEL\_MSTR\_ITEMS | 20-Jun-17 |
| CONV\_PN\_AVG\_COST | 20-Jun-17 |
| CONV\_PN\_INVENTORY\_DETL\_AUDIT | 20-Jun-17 |
| CONV\_PN\_INVENTORY\_CONTROL | 20-Jun-17 |
| CONV\_PN\_LOCATION\_BIN\_CONTROL | 20-Jun-17 |
| CONV\_PN\_NEXT\_LOWER\_ASSEMBLY | 20-Jun-17 |
| CONV\_VENDOR\_MASTER | 20-Jun-17 |
| CONV\_TASK\_CARD\_CONTROL\_MASTER | 20-Jun-17 |
| CONV\_TASK\_CARD\_PN | 20-Jun-17 |
| CONV\_SKILL\_MASTER | 20-Jun-17 |
| CORROSION\_PROTECTION\_CONTROL | 20-Jun-17 |
| CREATE$JAVA$LOB$TABLE | 20-Jun-17 |
| CUSTOMER\_ADDBILL\_MASTER | 20-Jun-17 |
| CUSTOMER\_AUTHORIZATION | 20-Jun-17 |
| CUSTOMER\_CONTRACT\_DETAIL | 20-Jun-17 |
| CORROSION\_PROTECTION\_DAMAGE | 20-Jun-17 |
| CUSTOMER\_CONTRACT\_DISTR | 20-Jun-17 |
| CUSTOMER\_CONTRACT\_HEADER | 20-Jun-17 |
| CUSTOMER\_CONTRACT\_HEADER\_RV | 20-Jun-17 |
| CUSTOMER\_CONTRACT\_DETAIL\_RV | 20-Jun-17 |
| CUSTOMER\_CONTRACT\_SHOP\_PN | 20-Jun-17 |
| CUSTOMER\_CONTRACT\_SHOP\_PN\_RV | 20-Jun-17 |
| CUSTOMER\_INVOICE\_MAT\_TEMP | 20-Jun-17 |
| CUSTOMER\_CONTRACT\_WO\_NR | 20-Jun-17 |
| CUSTOMER\_INVENTORY\_OWNER | 20-Jun-17 |
| CUSTOMER\_CONTRACT\_WO | 20-Jun-17 |
| CUSTOMS | 20-Jun-17 |
| DAILY\_SHIFT\_PATTERN | 20-Jun-17 |
| DATA\_VALIDATION | 20-Jun-17 |
| CUSTOMS\_ORDER | 20-Jun-17 |
| DEFECT\_MEL\_MASTER\_CONFLICT | 20-Jun-17 |
| DEFECT\_MEL\_MASTER\_AUDIT | 20-Jun-17 |
| DEFECT\_MEL\_MASTER\_ITEMS\_REF | 20-Jun-17 |
| DEFECT\_MEL\_MASTER\_ITEMS\_REF\_RE | 20-Jun-17 |
| DEFECT\_MEL\_MASTER\_CONFLICT\_REV | 20-Jun-17 |
| DEFECT\_MEL\_MASTER\_ITEMS | 20-Jun-17 |
| DEFECT\_MEL\_MASTER\_ITEMS\_REV | 20-Jun-17 |
| DEFECT\_REPORT\_DAMAGE\_CHART | 20-Jun-17 |
| DEFECT\_REPORT\_DEFER\_HISTORY | 20-Jun-17 |
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| LIBRARY\_TABLE | 19-Aug-19 |
| GSE\_SCHEDULE | 19-Aug-19 |
| ORDER\_RECEIVING\_DISCREPANCY | 19-Aug-19 |
| SYSTEM\_NOTIFICATION\_HEADER | 19-Aug-19 |
| LOCATION\_SITE | 19-Aug-19 |
| PN\_LOCATION\_BIN\_CONTL\_AUDIT | 19-Aug-19 |
| TRAXDOC\_AUTHORIZATION\_UPD | 19-Aug-19 |
| TRAXDOC\_FAVORITES | 19-Aug-19 |
| TASK\_CARD\_REFERENCE | 19-Aug-19 |
| SYSTEM\_CUSTOM\_TRIGGER | 19-Aug-19 |
| WO\_AUDIT | 19-Aug-19 |
| TLOGLEVEL | 19-Aug-19 |
| ORDER\_RECEIVING\_DISCREPANCY\_AU | 19-Aug-19 |
| ENGINEERING\_CONTENT\_RV | 19-Aug-19 |
| ENGINEERING\_DOCUMENT\_RV | 19-Aug-19 |
| TASK\_CARD\_MPD | 19-Aug-19 |
| TASK\_CARD\_MPD\_REV | 19-Aug-19 |
| LIBRARY\_MANUALS | 19-Aug-19 |
| PN\_POSITION\_DISTRIBUTION\_HD | 19-Aug-19 |
| TASK\_CARD\_CONTROL\_MASTER | 19-Aug-19 |
| ENGINEERING\_AUTHORIZATION\_UPD | 19-Aug-19 |
| PN\_INVENTORY\_PHYSICAL\_HEADER | 19-Aug-19 |
| TASK\_CARD\_EFFECTIVITY\_HD | 19-Aug-19 |
| ENGINEERING\_ORDER\_RV | 19-Aug-19 |
| LOCATION\_MASTER\_ROUTINE | 19-Aug-19 |
| TASK\_CARD\_EFFECTIVITY\_REV\_HD | 19-Aug-19 |
| DEFECT\_MEL\_MASTER | 19-Aug-19 |
| ENGINEERING\_EFFECTIVITY\_HD | 19-Aug-19 |
| GROUND\_EVENT\_REQUEST | 19-Aug-19 |
| LOCATION\_MASTER | 19-Aug-19 |
| TASK\_CARD\_CONTROL\_REV | 19-Aug-19 |
| TASK\_CARD\_REV | 19-Aug-19 |
| ENGINEERING\_COMPLIANCE\_HD | 19-Aug-19 |
| DEFECT\_REPORT\_AUDIT\_HD | 19-Aug-19 |
| REQUISITION\_QUOTE\_HEADER | 19-Aug-19 |
| DEFECT\_REPORT\_HD | 19-Aug-19 |
| PN\_EFF\_POS\_RANGE | 19-Aug-19 |
| PN\_INVENTORY\_DETAIL\_TEMPLATE | 19-Aug-19 |
| TRAXDOC\_PN\_XREF | 19-Aug-19 |
| WO\_PUBLISH | 19-Aug-19 |
| TRAXDOC\_DETAIL | 19-Aug-19 |
| PN\_INVENTORY\_PHYSICAL | 21-Aug-19 |
| BLOB\_TABLE | 21-Aug-19 |
| INTELLI\_FORM\_EFF | 22-Aug-19 |
| AUTHORIZATION\_MASTER\_GROUP | 22-Aug-19 |
| AC\_MASTER\_AUDIT | 22-Aug-19 |
| AC\_TYPE\_SERIES\_MASTER | 22-Aug-19 |
| ENGINEERING\_CONTENT | 22-Aug-19 |
| ROUTE\_MASTER | 22-Aug-19 |
| AC\_OUT\_OF\_SERVICE\_AUDIT | 23-Aug-19 |
| CURRENCY\_EXCHANGE\_HISTORY | 23-Aug-19 |
| AUDIT\_REQUIREMENT\_SCHEDULE\_AUD | 28-Aug-19 |
| PN\_INTERCHG\_ONE\_WAY | 28-Aug-19 |
| TEMP\_INVENTORY\_TRANSACTION | 28-Aug-19 |
| REQUISITION\_HEADER | 29-Aug-19 |
| CONCESSION\_REGISTRY | 29-Aug-19 |
| TASK\_CARD\_ITEM | 29-Aug-19 |
| CUSTOMER\_ORDER\_DETAIL\_AUDIT | 5-Sep-19 |
| IPC\_IMPORT\_RANGES | 6-Sep-19 |
| WO\_PRINTS | 6-Sep-19 |
| RELATION\_MASTER | 6-Sep-19 |
| PN\_INVENTORY\_HISTORY | 6-Sep-19 |
| DEFECT\_REPORT\_DELAY\_AUDIT | 8-Sep-19 |
| GL\_ACCOUNTS\_AUDIT | 10-Sep-19 |
| WO | 10-Sep-19 |
| WO\_TASK\_CARD\_PN | 10-Sep-19 |
| DEFECT\_REPORT\_TROUBLE\_SH\_AUDIT | 10-Sep-19 |
| WO\_TASK\_CARD\_CONTROL | 10-Sep-19 |
| SESSION\_MASTER | 11-Sep-19 |
| LDAP\_MASTER | 11-Sep-19 |
| SYSTEM\_TRAX\_QUICK\_PRINT | 11-Sep-19 |
| RECURRENT\_ITEMS | 11-Sep-19 |
| CUSTOMER\_INVOICE\_HEADER | 11-Sep-19 |
| ORDER\_INVOICE\_HEADER | 11-Sep-19 |
| WO\_PUBLISH\_JOB\_QUEUE | 14-Sep-19 |
| AC\_FLIGHTS\_ECM | 14-Sep-19 |
| SECURITY\_WALL | 17-Sep-19 |
| PN\_INVENTORY\_PHY\_CYCLE | 18-Sep-19 |
| SECURITY\_HEADER\_AUDIT | 18-Sep-19 |
| PN\_INVENTORY\_CONTROL | 19-Sep-19 |
| DEFECT\_REPORT\_TROUBLE\_SHOOTING | 19-Sep-19 |
| MASTER\_AUTHORIZATION\_UPD | 21-Sep-19 |
| SYSTEM\_TRAN\_CODE | 22-Sep-19 |
| AC\_PN\_TRANSACTION\_HISTORY | 23-Sep-19 |
| DEFECT\_REPORT\_MIS | 24-Sep-19 |
| TRAXDOC | 25-Sep-19 |
| TRAXDOC\_EFFECTIVITY\_HEADER | 25-Sep-19 |
| TRAXDOC\_IMPORT\_FIELDS | 25-Sep-19 |
| TRAXDOC\_EFFECTIVITY | 25-Sep-19 |
| WO\_ENGINEERING\_ORDER\_ADUIT | 25-Sep-19 |
| WO\_TASK\_CARD\_ITEM | 25-Sep-19 |
| TEMP\_IPC\_IMPORT\_RANGES | 25-Sep-19 |
| TEMP\_PN\_EFFECTIVITY\_DIST | 25-Sep-19 |
| TEMP\_PN\_EFFECTIVITY\_HEADER | 25-Sep-19 |
| WO\_ACTUALS | 26-Sep-19 |
| WO\_ENGINEERING\_ORDER | 26-Sep-19 |
| INVENTORY\_COSTING | 27-Sep-19 |
| TASK\_CARD\_PN | 27-Sep-19 |
| PN\_INVENTORY\_DETAIL | 27-Sep-19 |
| DOCUMENT\_CONTROL | 27-Sep-19 |
| SECURITY\_DETAIL | 27-Sep-19 |
| AUDIT\_LOG\_HEADER | 28-Sep-19 |
| AUDIT\_LOG\_DETAIL | 28-Sep-19 |
| AC\_OUT\_OF\_SERVICE\_DETAIL | 28-Sep-19 |
| DEFECT\_REPORT\_MIS\_AUDIT | 28-Sep-19 |
| DEFECT\_REPORT\_DELAY | 28-Sep-19 |
| DEFECT\_REPORT\_PN | 29-Sep-19 |
| AC\_OUT\_OF\_SERVICE | 1-Oct-19 |
| STYLESHEET\_CONTENT | 2-Oct-19 |
| AUDIT\_REQUIREMENT\_SCHEDULE | 2-Oct-19 |
| ORDER\_INVOICE\_AUDIT | 2-Oct-19 |
| TRACE\_WO\_TASK\_CARD | 3-Oct-19 |
| WO\_TASK\_CARD | 3-Oct-19 |
| AUTHORIZATION\_MASTER | 3-Oct-19 |
| ENGINEERING\_EFFECTIVITY | 3-Oct-19 |
| AC\_ACTUAL\_FLIGHTS\_VIEW | 4-Oct-19 |
| EC\_RANGE | 4-Oct-19 |
| ENGINEERING\_TEMP | 4-Oct-19 |
| SYSTEM\_FORMAT\_CONTROL | 4-Oct-19 |
| AC\_CONTROLLER\_PANEL\_FILTER | 5-Oct-19 |
| FILTER\_EFFECTIVITY | 5-Oct-19 |
| FILTER\_EFFECTIVITY\_HEADER | 5-Oct-19 |
| PLANNING\_JOBS\_ERRORS | 5-Oct-19 |
| AC\_UNIT\_TYPE | 5-Oct-19 |
| ENGINEERING\_CONTROL | 5-Oct-19 |
| AC\_PN\_TRANSACTION\_CONTROL | 5-Oct-19 |
| ORDER\_HEADER | 5-Oct-19 |
| AC\_ACTUAL\_FLIGHTS\_AUDIT | 5-Oct-19 |
| TASK\_CARD | 5-Oct-19 |
| TASK\_CARD\_EXECUTION | 5-Oct-19 |
| ENGINEERING\_COMPLIANCE\_AUDIT | 5-Oct-19 |
| TLOG | 5-Oct-19 |
| INTERFACE\_TRACING | 6-Oct-19 |
| AUDIT\_MASTER | 8-Oct-19 |
| EMAIL\_ATTACHMENTS | 8-Oct-19 |
| SECURITY\_HEADER | 8-Oct-19 |
| ENGINEERING\_SCHEDULE\_CTRL\_LOOP | 8-Oct-19 |
| WO\_EC\_EXCEPTION | 8-Oct-19 |
| SYSTEM\_WINDOW\_SDI\_CONTROL | 8-Oct-19 |
| SYSTEM\_TRAN\_CONFIG | 8-Oct-19 |
| BLOB\_ANNOTATION | 8-Oct-19 |
| AC\_ACTUAL\_FLIGHTS | 8-Oct-19 |
| DENT\_MAPPING\_FILTERS | 8-Oct-19 |
| SYSTEM\_DROP\_DOWN | 8-Oct-19 |
| AC\_UNIT\_TYPE\_TRANSACTION | 8-Oct-19 |
| SYSTEM\_CUSTOM\_WINDOW\_SETUP | 8-Oct-19 |
| AUDIT\_REQUIREMENT\_MASTER | 8-Oct-19 |
| LOCATION\_BIN\_MASTER | 8-Oct-19 |
| TRACE\_PN\_INVENTORY\_DETAIL | 8-Oct-19 |
| TRANSACTION\_LOCK | 8-Oct-19 |
| PLANNING\_WO\_MANHR\_TMP | 8-Oct-19 |
| AUDIT\_MASTER\_TEMP | 8-Oct-19 |
| TEMP\_PN\_INVENTORY\_ASSEMBLY | 8-Oct-19 |
| PLANNING\_JOBS\_QUE | 8-Oct-19 |
| CUSTOMER\_ORDER\_DETAIL | 8-Oct-19 |
| INTERFACE\_AUDIT | 8-Oct-19 |
| ORDER\_DETAIL | 8-Oct-19 |
| AC\_CONTROLLER\_PANEL\_AC | 8-Oct-19 |
| AC\_CONTROLLER\_PANEL\_DETAIL | 8-Oct-19 |
| PLANNING\_PARAMETER | 8-Oct-19 |
| AC\_SCHEDULE\_FLIGHT | 8-Oct-19 |
| FLIGHT\_SCHEDULE | 8-Oct-19 |
| EMAIL\_LOG | 8-Oct-19 |
| AC\_MASTER | 8-Oct-19 |
| AC\_CONTROLLER\_PANEL\_HEADER | 8-Oct-19 |
| PLANNING | 8-Oct-19 |

## Calculate Optimal UNDO\_RETENTION

SELECT

d.undo\_size / ( 1024 \* 1024 ) "ACTUAL UNDO SIZE [MByte]",

substr(e.value, 1, 25) "UNDO RETENTION [Sec]",

round((d.undo\_size /(to\_number(f.value) \* g.undo\_block\_per\_sec))) "OPTIMAL UNDO RETENTION [Sec]"

FROM

(

SELECT

SUM(a.bytes) undo\_size

FROM

v$datafile a,

v$tablespace b,

dba\_tablespaces c

WHERE

c.contents = 'UNDO'

AND c.status = 'ONLINE'

AND b.name = c.tablespace\_name

AND a.ts# = b.ts#

) d,

v$parameter e,

v$parameter f,

(

SELECT

MAX(undoblks /((end\_time - begin\_time) \* 3600 \* 24)) undo\_block\_per\_sec

FROM

v$undostat

) g

WHERE

e.name = 'undo\_retention'

AND f.name = 'db\_block\_size'

/

## Databae Backups

| **SESSION\_KEY** | **IMPUT\_TYPE** | **STATUS** | **START\_TIME** | **END\_TIME** | **HRS** |
| --- | --- | --- | --- | --- | --- |
| 22435 | ARCHIVELOG | COMPLETED | 9/28/19 | 9/28/19 | 0.31778 |
| 22438 | DB INCR | FAILED | 9/28/19 | 9/28/19 | 10.2911 |
| 22440 | DB INCR | COMPLETED | 9/28/19 | 9/28/19 | 3.06417 |
| 22443 | ARCHIVELOG | COMPLETED | 9/28/19 | 9/28/19 | 0.42111 |
| 22446 | DB INCR | COMPLETED | 9/28/19 | 9/28/19 | 1.61306 |
| 22449 | ARCHIVELOG | COMPLETED | 9/28/19 | 9/28/19 | 0.32111 |
| 22452 | DB INCR | COMPLETED | 9/29/19 | 9/29/19 | 1.62972 |
| 22455 | ARCHIVELOG | COMPLETED | 9/29/19 | 9/29/19 | 0.32083 |
| 22458 | DB INCR | COMPLETED | 9/29/19 | 9/29/19 | 1.65111 |
| 22461 | ARCHIVELOG | COMPLETED | 9/29/19 | 9/29/19 | 0.34111 |
| 22464 | DB INCR | COMPLETED | 9/29/19 | 9/29/19 | 1.60694 |
| 22467 | ARCHIVELOG | COMPLETED | 9/29/19 | 9/29/19 | 0.31778 |
| 22470 | DB INCR | COMPLETED | 9/29/19 | 9/29/19 | 1.61278 |
| 22473 | ARCHIVELOG | COMPLETED | 9/29/19 | 9/29/19 | 0.32389 |
| 22476 | DB INCR | COMPLETED | 9/30/19 | 9/30/19 | 1.64056 |
| 22479 | ARCHIVELOG | COMPLETED | 9/30/19 | 9/30/19 | 0.32389 |
| 22482 | DB INCR | COMPLETED | 9/30/19 | 9/30/19 | 1.65472 |
| 22485 | ARCHIVELOG | COMPLETED | 9/30/19 | 9/30/19 | 0.32389 |
| 22488 | DB INCR | COMPLETED | 9/30/19 | 9/30/19 | 1.615 |
| 22491 | ARCHIVELOG | COMPLETED | 9/30/19 | 9/30/19 | 0.31278 |
| 22494 | DB INCR | COMPLETED | 9/30/19 | 9/30/19 | 1.6125 |
| 22497 | ARCHIVELOG | COMPLETED | 9/30/19 | 9/30/19 | 0.32111 |
| 22500 | DB INCR | COMPLETED | 10/1/19 | 10/1/19 | 1.69083 |
| 22503 | ARCHIVELOG | COMPLETED | 10/1/19 | 10/1/19 | 0.32083 |
| 22506 | DB INCR | COMPLETED | 10/1/19 | 10/1/19 | 1.71611 |
| 22509 | ARCHIVELOG | COMPLETED | 10/1/19 | 10/1/19 | 0.34056 |
| 22512 | DB INCR | COMPLETED | 10/1/19 | 10/1/19 | 1.65444 |
| 22515 | ARCHIVELOG | COMPLETED | 10/1/19 | 10/1/19 | 0.31222 |
| 22518 | DB INCR | COMPLETED | 10/1/19 | 10/1/19 | 1.63778 |
| 22521 | ARCHIVELOG | COMPLETED | 10/1/19 | 10/1/19 | 0.32083 |
| 22524 | DB INCR | COMPLETED | 10/2/19 | 10/2/19 | 1.64333 |
| 22527 | ARCHIVELOG | COMPLETED | 10/2/19 | 10/2/19 | 0.31556 |
| 22530 | DB INCR | COMPLETED | 10/2/19 | 10/2/19 | 1.69056 |
| 22533 | ARCHIVELOG | COMPLETED | 10/2/19 | 10/2/19 | 0.32417 |
| 22536 | DB INCR | COMPLETED | 10/2/19 | 10/2/19 | 1.66528 |
| 22539 | ARCHIVELOG | COMPLETED | 10/2/19 | 10/2/19 | 0.31528 |
| 22542 | DB INCR | COMPLETED | 10/2/19 | 10/2/19 | 1.64056 |
| 22545 | ARCHIVELOG | COMPLETED | 10/2/19 | 10/2/19 |  |
| 22548 | DB INCR | COMPLETED | 10/3/19 | 10/3/19 | 1.65194 |
| 22551 | ARCHIVELOG | COMPLETED | 10/3/19 | 10/3/19 | 0.315 |
| 22554 | DB INCR | COMPLETED | 10/3/19 | 10/3/19 | 1.70278 |
| 22557 | ARCHIVELOG | COMPLETED | 10/3/19 | 10/3/19 | 0.32083 |
| 22560 | DB INCR | COMPLETED | 10/3/19 | 10/3/19 | 1.66639 |
| 22563 | ARCHIVELOG | COMPLETED | 10/3/19 | 10/3/19 | 0.3125 |
| 22566 | DB INCR | FAILED | 10/3/19 | 10/3/19 |  |
| 22579 | DB FULL | COMPLETED | 10/4/19 | 10/5/19 | 1.96556 |
| 22647 | DB FULL | FAILED | 10/6/19 | 10/7/19 | 4.68806 |
| 22659 | DB INCR | COMPLETED | 10/7/19 | 10/7/19 | 1.74667 |
| 22666 | ARCHIVELOG | COMPLETED | 10/7/19 | 10/7/19 | 0.30917 |
| 22669 | DB INCR | COMPLETED | 10/7/19 | 10/7/19 | 1.7625 |