# ORACLE DATABASE 12c STIG
# REVISION HISTORY

## Version 2, Release 5

## 27 July 2022

## Developed by Oracle and DISA for the DoD

| REVISION HISTORY | | | |
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| **Revision Number** | **Document Revised** | **Description of Change** | **Release Date** |
| V2R5 | - Oracle Database 12c STIG, V2R4 | - O121-C2-003500, O121-C2-016600 - Changed severity to CAT1.<br>- O121-C2-006800, O121-C2-007400, O121-C2-007500, O121-C2-007600, O121-C2-007700, O121-C2-007800,O121-C2-007900, O121-C2-008000, O121-P3-006200 - Updated logic in finding statement for unitified auditing.<br>- O121-C2-015200 - Corrected password life script.<br>- O121-C2-015700, O121-C2-016600, O121-C2-016700 - Cryptographic modules should require either FIPS 140-2 or FIPS 140-3 validation. | 27 July 2022 |
| V2R4 | - Oracle Database 12c STIG, V2R3 | - O121-C2-001700, O121-C2-011900 - Corrected PPSM link.<br>- O121-C2-001800, O121-C2-002700, O121-C2-014600, O121-C2-015700, O121-C2-018300 - Changed severity to CAT 1.<br>- O121-C2-015200 - Corrected script error that occurs if default profile has PASSWORD_LIFE_TIME of UNLIMITED.<br>- O121-C2-012900 - Corrected link for database security guide. | 27 April 2022 |
| V2R3 | - Oracle Database 12c STIG, V2R2 | - O121-BP-024750 - Reparenting to SRG-APP-000456-DB-000400. | 27 January 2022 |
| V2R2 | - Oracle Database 12c STIG, V2R1 | - O121-BP-026200 - Updated Check to system documentation.<br>- O121-C2-015300, O121-C1-015400 - Updated check to state PKI must be enabled.<br>- O121-C2-020300 - Removed requirement. | 27 October 2021 |
| V2R1 | - Oracle Database 12c STIG, V1R18 | - DISA migrated the Oracle Database 12c STIG to a new content management system. The new content management system renumbered all Groups (V-numbers) and Rules (SV-numbers). With the new Group and Rule numbers, DISA incremented the version number from V1R18 to V2R1. | 23 April 2021 |

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| | | - O121-BP-024750 - Added requirement that version must be supported by the vendor.<br>- O121-BP-021200, O121-BP-021300, O121-BP-021400, O121-BP-021500, O121-BP-021600, O121-BP-021700, O121-BP-021900, O121-BP-022000, O121-BP-022100, O121-BP-022200, O121-BP-022300, O121-BP-022400, O121-BP-022500, O121-BP-022600, O121-BP-022700, O121-BP-022800, O121-BP-022900, O121-BP-023000, O121-BP-023100, O121-BP-023200, O121-BP-023300, O121-BP-023600, O121-BP-023700, O121-BP-023800, O121-BP-023900, O121-BP-024000, O121-BP-024100, O121-BP-024200, O121-BP-025100, O121-BP-025101, O121-BP-025400, O121-BP-025500, O121-BP-025600, O121-BP-025800, O121-BP-026200, O121-BP-026300, O121-BP-026400, O121-BP-026500, O121-BP-026600, O121-C1-004500, O121-C1-011100, O121-C1-015000, O121-C1-019700, O121-C2-001700, O121-C2-001900, O121-C2-002000, O121-C2-003000, O121-C2-003500, O121-C2-003600, O121-C2-003700, O121-C2-003800, O121-C2-003900, O121-C2-004000, O121-C2-004100, O121-C2-004300, O121-C2-004400, O121-C2-004900, O121-C2-005000, O121-C2-006600, O121-C2-006700, O121-C2-008200, O121-C2-008300, O121-C2-010300, O121-C2-012300, O121-C2-012400, O121-C2-012500, O121-C2-013300, O121-C2-013800, O121-C2-013900, O121-C2-014000, O121-C2-014100, O121-C2-014200, O121-C2-014300, O121-C2-014400, O121-C2-014500, O121-C2-014900, O121-C2-015100, O121-C2-015200, O121-C2-016000, O121-C2-016100, O121-C2- | |

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| | | 016500, O121-C2-016600, O121-C2-016700, O121-C2-018600, O121-C2-019100, O121-C2-019600, O121-C2-020300, O121-OS-004600, O121-OS-011200 - Changed STIG_ID to match up with Database SRG.<br>- O121-C2-015501 - Changed to DoD Approved certificates.<br>- O121-C2-012900 - Changed to require integration with an organization-level authentication/access mechanism, and making CAT1.<br>- O121-C2-007600 - Clarified standard vs. unified audit checks.<br>- O121-C2-013000, O121-C2-013100, O121-C2-013200 - Combined with O121-C2-012900.<br>- O121-C2-003400, O121-C2-016300, O121-C2-016400, O121-C3-003300 - Removed requirement - CCI has been withdrawn.<br>- O121-C2-013600, O121-C2-013700 - Removed requirement - Checks for the sqlnet.ora settings are in several other requirements.<br>- O121-C2-010100, O121-C2-010200 - Removed requirement - Combined with Audit tools and do not need to encryption unless the data requires it.<br>- O121-C2-004200, O121-C2-004210 - Removed requirement - Duplicate.<br>- O121-C2-018800 - Removed requirement - Monitoring already covered in SRG-APP-000133-DB-000179; plus, this is addressed at the OS level.<br>- O121-P2-017400 - Removed requirement - Non-specific vendor documentation check.<br>- O121-C2-012600 - Removed requirement - Not needed in a database STIG.<br>- O121-C2-010000 - Removed requirement - Offloading to a central log server covers this. | |

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| | | - O121-BP-021100, O121-BP-023400, O121-BP-023500, O121-BP-024300, O121-BP-024400, O121-BP-024500, O121-BP-024600, O121-BP-024700, O121-BP-024800, O121-BP-024900, O121-BP-025200, O121-BP-025300, O121-BP-026000, O121-BP-026100, O121-C2-008900, O121-C2-011400, O121-C2-017100, O121-N2-004701 - Removed requirement - Policy-based. <br> - O121-C2-020400, O121-C2-020500, O121-C2-020600, O121-C2-020700 - Removed requirement - Redundant to audit requirements. As more account activity occurs at the org level, less should be database concerns. <br>  - O121-C2-001600, O121-C2-002200, O121-C2-002300, O121-C2-002400, O121-C2-002500, O121-C2-005600, O121-C2-009000, O121-C2-012000, O121-C3-008700, O121-C3-008800, O121-C3-019200, O121-C3-019300, O121-C3-019400, O121-P2-012700 - Removed requirement - Redundant. <br> - O121-C2-012200 - Removed requirement - User information is included in database backups. <br> - O121-C2-019800 - Removed requirement - Vague - No value added <br> - O121-BP-022300, O121-BP-022500, O121-BP-022600 - Updated administrative privileges list. <br> - O121-C2-011600 - Updated query in check content. | |
| V1R18 | - Oracle Database 12c STIG, V1R17 | - V-61421 - Added exemption for system generated SYS_PLSQL objects. <br> - V-61523, V-61675 - Removed incorrect definition of "remote". <br> - V-61615 - Combined with V-61953. <br> - V-61647 - Removed requirement; same check as V-61645 (alert personnel of audit failure). | 24 July 2020 |

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| **Revision Number** | **Document Revised** | **Description of Change** | **Release Date** |
| | | - V-61717 - Changed inactive account check.<br>- V-61853 - Changed requirement to check audit storage capacity.<br>- V-61871 - Changed requirement to must off-load audit data to a separate log management facility. | |
| V1R17 | - Oracle Database 12c STIG, V1R16 | - V-61579 - Updated real-time alerts.<br>- V-61559 - Update Temporary profile check.<br>- V-61561 - Remove or disable temporary accounts after 72 hours.<br>- V-61667 - Corrected check text.<br>- V-61431 - Update password file permissions. | 24 April 2020 |
| V1R16 | - Oracle Database 12c STIG, V1R15 | - V-61433, V-61437, V-61439 - Updated administrative accounts list.<br>- V-61543, V-61703, V-61705, V-61707, V-61709, V-61733, V-61737, V-61741, V-61743, V-61845 - Updated TLS version to 1.2.<br>- V-61815 - Removed duplicate tcp valid node checking. | 24 January 2020 |
| V1R15 | - Oracle Database 12c STIG, V1R14 | - V-61431 - Added check for password file permissions.<br>- V-61459 - Updated default usernames in the script.<br>- V-61605 - Updated maximum failed login attempts to remove duplicate.<br>- V-61607 - Removed duplicate failed login attempts.<br>- V-61739 - Added approved by ISSO statement to check. | 25 October 2019 |
| V1R14 | - Oracle Database 12c STIG, V1R13 | - V-61723, V-61725, V- 61727, V-61729, V-61731 - Corrected ORA12C_STRONG_VERIFY_FUNCTION reference.<br>- V-61535, V-61963 - Corrected fix text previously added to check text. | 23 August 2019 |
| V1R13 | - Oracle Database 12c STIG, V1R12 | - V-61627 - Corrected ACTION_NAME for Unified Auditing.<br>- V-61635 - Corrected values in SYS.UNIFIED_AUDIT_TRAIL view. | 26 July 2019 |

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| **Revision Number** | **Document Revised** | **Description of Change** | **Release Date** |
| | | - V-61535 - Updated SQLNET.ALLOWED_LOGON_VERSION_SERVER/CLIENT Parameter.<br>- V-61683 - Updated to exclude external executables owned by SYS.<br>- V-61963 - Added Oracle Optimal Flexible Architecture.<br>- V-61719 - Corrected ORA12C_STRONG_VERIFY_FUNCTION reference.<br>- V-61579 - Added instructions to disable ora_dism.<br>- V-61709 - Corrected non-privileged accounts prefix.<br>- V-61641 - Corrected unified auditing typo. | |
| V1R12 | - Oracle Database 12c STIG, V1R11 | - V-61739 – Removed SRG reference from Check content and Fix Text. | 25 January 2019 |
| V1R11 | - Oracle Database 12c STIG, V1R10 | - V-61633 - Added information on how to check in a Unified Audit environment.<br>- V-61773 - Redundant requirement deleted. Covered by V-61771. | 26 October 2018 |
| V1R10 | - Oracle Database 12c STIG, V1R9 | - V-61545 – Added SHA-1 text.<br>- V-61713 – Added SHA-1 text.<br>- V-61715 – Added SHA-1 text. | 27 April 2018 |
| V1R9 | - Oracle Database 12c STIG, V1R8 | - Release number and date updated.<br>- V-61415 - Modified Check to accommodate changes in 12c.<br>- V-61439 - Removed a dead reference to O121-BP-021800.<br>- V-61523 - Clarified "Remote Administration". Modified Check and Fix accordingly.<br>- V-61539 - Corrected opatch syntax; improved Check to avoid false negatives.<br>- V-61545 - CCI updated.<br>- V-61571 - Changed CHANGE PASSWORD to ALTER USER.<br>- V-61645 - Redundant, superseded Rule removed. | 26 January 2018 |

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| **Revision Number** | **Document Revised** | **Description of Change** | **Release Date** |
| | | - V-61739 - Modified Discussion, Check, and Fix with respect to PASSWORD_GRACE_TIME.<br>- V-61741 - Added a not-a-finding statement to Check.<br>- V-61759 - Redundant, superseded Rule removed.<br>- V-61769 - Made it OK not to set archive mode where databases used solely for ETL are concerned.<br>- V-61771 - Added not-a-finding statement to Check.<br>- V-61861 - Replaced DBA_USERS with SYS.USER$ in Check; Deleted. Requirement has been removed from SRG.<br>- V-61863 - Deleted. Requirement has been removed from SRG.<br>- V-61865 - Modified to permit disabling online login rather than disabling the account, since the same account may be required both for installation and for running the DBMS.<br>- V-61965 - Changed not a finding to not applicable (NA).<br>- Updated release date.<br>- Corrected dead references. | |
| V1R8 | - Oracle Database 12c STIG, V1R7 | - Release number and date updated.<br>- V-61417 - Modified rule title to make the requirement compatible with cloud computing.<br>- V-61453 - Modified wording to require obfuscation before data transfer, rather than after.<br>- V-61571, V-61625 - Modified wording to acknowledge the limits of auditing the disabling of accounts.<br>- V-61643 - Linked requirement to a second CCI. | 28 July 2017 |
| V1R7 | - Oracle Database 12c STIG, V1R6 | - Release number and date updated.<br>- V-61589 - Check: provided more detail on how to review user privileges to system tables and configuration data stored in the database. | 28 April 2017 |

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| **Revision Number** | **Document Revised** | **Description of Change** | **Release Date** |
| | | - V-61593 - Check: provided more detail on how to review permissions for objects owned by DBA or other administrative accounts.<br>- V-61595 - Check: provided more detail on how to review auditing configuration.<br>- V-61599 - Check: provided more detail on how to review access permissions for objects owned by application owners or other non-administrative users.<br>- V-61601 - Check: provided more detail on how to validate that OS accounts used by the DBMS have only the privileges necessary to perform the required functionality.<br>- V-61645 - Check: reworded text on checking if real-time alerts are being sent upon auditing failure. Discussion and Fix: Added mention of Oracle Enterprise Manager.<br>- V-61647 - Check: removed reference to "DBMS," as the required functionality is not part of Oracle Database, and must be sourced externally. Fix: Added mention of Oracle Enterprise Manager.<br>- V-61649 - Reworded Discussion, Check and Fix to acknowledge that audit trail reduction is not provided by Oracle, and must be sourced externally.<br>- V-61693 - Rule Title: Modified to make clear that this is a requirement that backups must actually be done. Check: added mention of V$RMAN_STATUS view.<br>- V-61769 - Check: provided more detail on how to check DBMS settings to determine whether system state information is being preserved in the event of a system failure.<br>- V-61417 - Severity lowered to Category III.<br>- V-61467 - Check query modified to achieve the desired result of excluding accounts which only own synonyms. | |

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| | | - V-61521 - Non-SRG requirement removed. Oracle informs us that there is really no way to do this using Oracle's technical features.<br>- V-61759 - Added information on non-default locations for FIPS.ora.<br>- V-61505 - Non-SRG requirement removed.<br>- Release number and date updated.<br>- Corrected revision history for January 2017. V-61761 was not deleted. V-61767 was deleted. | |
| V1R6 | - Oracle Database 12c STIG, V1R5 | - Release number and date updated.<br>- V-61755, V-61753 - Reworded Discussion: the discretion of the information owner is bounded by the applicable rules, policies and law.<br>- V-61545, V-61713, 61715 - Check: wording added to emphasize that the parameters and values shown are examples, not mandatory in all cases.<br>- V-61591 - Check: corrected SQL syntax error.<br>- V-61609, V-61811 - Requirement for USG warning banner removed, for consistency with current Database SRG and other DBMS product STIGs.<br>- V-61677 - Changes to Check, for clarity. Deleted Account Status from the list of demo accounts. Changed layout of the list. Some additional wording changes.<br>- V-61691, V-61767 - Deleted. Oracle inherently meets this requirement.<br>- V-61809 - Check: improved query. | 27 January 2017 |
| V1R5 | - Oracle Database 12c STIG, V1R4 | - Release number and date updated.<br>- V-61423 - Obsolete requirement removed.<br>- V-61433, V-61437, V-61439, V-61445, V-61461, V-61467 - Check revised to avoid false positives and false negatives.<br>- V-61515, V-61535, V-61543, V-61545, V-61609, V-61667, V-61703, V-61705, V-61707, V-61709, V-61713, V-61715, V-61733, V-61737, V-61741, V-61743, V- | 28 October 2016 |

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| **Revision Number** | **Document Revised** | **Description of Change** | **Release Date** |
| | | 61759, V-61765, V-61811, V-61815, V-61845.<br>- Modified mention of location of sqlnet.ora.<br>- V-61527, V-61565, V-61569, V-61571, V-61573 - Modified Check query and Fix instructions.<br>- V-61559 - Reworded to remove conflict with V-61603. Added finding statement to Check.<br>- V-61611 - Deleted - duplicate of V-61811.<br>- V-61667, V-61773 - Added warning: Do not attempt to encrypt SYSTEM table space.<br>- V-61737, V-61785, V-61791, V-61793, V-61815, V-61843, V-61887 - Added acknowledgment that DBA may have limited scope to address the issue, and advice on how to proceed. | |

| V1R4 | - Oracle Database 12c STIG, V1R3 | - Release number and date updated.<br>- V-61433 - SYSKM added to the list of accounts excluded from the check.<br>- V-61437 - Check modified to reduce false positives.<br>- V-61459 - Queries added to Check and Fix to look for and set default values.<br>- V-61461 - Check modified for more accurate results.<br>- V-61517 - Redundant requirement deleted.<br>- V-61523 - Added mention of VPN to Check and Fix.<br>- V-61527 - Reworded to clarify that Oracle Label Security is an option, not mandatory.<br>- V-61543 - "Not a finding" statement added to beginning of Check.<br>- V-61557 - Check reworded to be more specific; Requirement statement and Fix text modified slightly.<br>- V-61561 - Reworded check for clarity.<br>- V-61563 - Deleted: duplicate of V-61717.<br>- V-61591 - New Check query. Vulnerability Discussion slightly reworded.<br>- V-61673 - Removed mention of "Definer's rights," as it distracted from the core of the Requirement.<br>- V-61677 - Modified Check query to reduce false positives; added NA statement.<br>- V-61679 - Reference to V$OPTION changed to refer to DBA_REGISTRY.<br>- V-61681 - Check and Fix text and code modified to be more specific to the issue.<br>- V-61717 - Reworded requirement, check and fix for clarity and brevity. CCI added.<br>- V-61773 - Removed encryption exception where physical protection in effect.<br>- V-61809 - New Check query. Rule Title reworded.<br>- V-61815 - Modified wording in Fix, for clarity.<br>- V-61817 - Reworded for better alignment of Requirement, Discussion, Check and Fix.<br>- V-61867 - Clarified; split into two requirements.<br>- V-61965 - Reworded Check: not a finding if audit records go directly to an audit server. | 22 July 2016 |

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| | | - V-68863 - Split off from V-61867. | |
| V1R3 | - Oracle Database 12c STIG, V1R2 | - Release number and date updated.<br>- V-61421 - Query corrected.<br>- V-61431 - Query corrected.<br>- V-61431 - Query corrected.<br>- V-61449 - Reworded for clarity.<br>- V-61467 - Query corrected.<br>- V-61521 - Reworded to accommodate practical limitations.<br>- V-61527 - Reworded for clarity.<br>- V-61547 - Requirement deleted.<br>- V-61549 - Requirement deleted.<br>- V-61551 - Requirement deleted.<br>- V-61561 - Query corrected.<br>- V-61563 - Query corrected.<br>- V-61563 - Wording corrected.<br>- V-61603 - Wording corrected.<br>- V-61605 - Wording corrected.<br>- V-61607 - Wording corrected.<br>- V-61625 - Query corrected.<br>- V-61685 - Reworded for clarity.<br>- V-61815 - Configuration parameter name corrected.<br>- V-61817 - Wording corrected.<br>- V-61819 - Wording corrected.<br>- V-61967 - Wording corrected. | 22 April 2016 |
| V1R2 | - Oracle Database 12c STIG, V1R1 | - Release number and date updated.<br>- Added Section 1.8, Product Approval Disclaimer.<br>- V-61441 - Fixed bad character in UNIX command.<br>- V-61447, V-61531, V-61653, V-61721, V-61737, V-61797, V-61799, V-61801, V-61803 - Reworded for clarity.<br>- V-61449 - Reworded to allow for exceptions when the job is created by Oracle itself.<br>- V-61745, V-61861 - Permit exceptions for SYS, SYSBACKUP, SYSDG, and SYSKM.<br>- V-61757 - Updated code sample. | 22 January 2016 |

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| V1R1 | - Oracle Database 12c STIG | Initial Release. | |