

**LTS/OnGuard™**

**Software Release Bulletin: 7.2a**

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# **Section 1:**

## **Introduction**

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### **The purpose of this manual**

The LTS/OnGuard Software Release Bulletin describes the changes to the product for this release. Full information on the product is available in the LTS/OnGuard Reference Manual (OG001) which describes the state of the product.

### **Audience**

This manual is intended for users who must audit and control the environment on their system, such as Security Administrators and System Administrators.

The manual assumes that you can use the system. It also assumes that you are familiar with LTS/OnGuard. Refer to the LTS/OnGuard Reference Manual (OG001) and the LTS/OnGuard Installation Manual (OG002) for further information about LTS/OnGuard.

### **Manual organization**

This manual has two sections:

- Section 1 highlights the changes in LTS/OnGuard Release.

- Section 2 highlights the changes for the Security Administrator.

## Highlights

### Release 7.2a – Supporting Release 7.2 for Continuum

#### All users

- For `audit_file_integrity`, level 4 check and integrity check of indexes are not supported for Continuum.

### Release 7.2 – Changes to existing commands

#### All users

- Fixed issue regarding licensing.
- `create_security_log_db` uses a new `sec_messages.tin/new/table` to categorize `security_log` messages reported by `audit_security_logs`, `audit_logs_by_name`, and `audit_logs_by_terminal`. Categories, summarization, and output order can be specified for `security_log` messages via `sec_messages.tin`.
- `audit_security_logs`, `audit_logs_by_name`, and `audit_logs_by_terminal` now sort and categorize messages based upon `sec_messages.table`.
- `audit_file_integrity` has been updated to check the integrity of item and indexes longer than 64 characters. Index level checking is not done on `deleted_record` and `record` indexes.

### Release 7.1d – Changes to existing commands

#### All users

- `audit_file_integrity` has been enhanced to include a level 4 check. Level 4 check calculates and compares `crc32c` (`crc-32/Castagnoli`) values. The comparison of checksum, `crc`, and `crc32c` values for each index is now supported. Files are no longer considered “CHANGED” when unable to perform requested check level.
- `audit_security_parameters` updated index “unchanged” message.
- Updated `lts_terminate_account.cm` and `lts_reinstate_account.cm` to use `set_account_status` for 17.2 and greater.
- Turned off command echo in `match.com`

#### Administrators

- `install_lts.cm` and `install_lts_sp.cm` now have a `-log` switch to enable/disable logging of the install process.
- `add_to_administrator_start_up_cm` has example code to restrict the LTS server processes to the LTS and VOS command libraries only.

### Release 7.1d - New commands

#### All users

- `lts_report_asr_process.cm` is a new command to call `execute_as_request` with `report_asr_process`, which provides details of the user’s LTS `analyze_system` process.

### Release 7.1c – Changes to existing commands

#### All users

- `audit_security_parameters` and `audit_password_info` have several corrections to messages.

- `execute_as_request` has a new command: `report_asr_process`, which provides details of the user's LTS `analyze_system` process.

### **Release 7.1b – Changes to existing commands**

#### **All users**

- `audit_password_info` has been enhanced per user request to identify and properly handle permanent passwords.
- `audit_security_parameters` has been changed such that standard tables are case-sensitive. No error message is written if a configuration file (`stcp`, `smb`, or `ssh`) is not found.
- `audit_file_integrity` has been updated to retrieve and store new file and index status fields.

### **Release 7.1a – Changes to existing commands**

#### **All users**

- Added license support for long system name.
- `audit_security_parameters` has been enhanced with a `-detail` switch to control report details. It now allows a `starname` to `-sshd_files` to specify multiple `sshd_config` files in a configuration.
- Updated `lts_login_admin`, `lts_set_tuning_paramters`, and `lts_set_password_security` to handle VOS 19 changes.
- `audit_security_logs`, `audit_logs_by_name`, and `audit_logs_by_terminal` now handle an empty database.
- `audit_acl_integrity` now handles the disk root properly.
- Additional fixes to `audit_acl_integrity`, `audit_file_integrity`, `update_password_info`, `audit_security_log`, `set_stream_files.cm`, `specify_cpu_configuration.cm`, `reset_configuration.cm`

### **Release 7.0f – Changes to existing commands**

#### **All users**

- Fixes to `configure_login_admin.cm` and `configure_password_security.cm`.
- All reports now report the CAC Site Id in addition to the system/module name in the standard report header.
- `lts_run_reports.cm` `day` option sets `audit_admin -format_long`.
- 7.0f has been certified for VOS 19 alpha.

### **Release 7.0 – General Comments**

- Release 7.0 now supports command lines passed to the `privileged_command_server` and `as_request_server` of up to 4,000 characters in length. This provides sufficient room for multiple path names and longer include/exclude strings when passing parameters.
- Release 7.0 requires new licenses for each module.
- The `priv_cmd_commands.tin/dd/table` now allows for command names of up to 64 characters.
- `-include` and `-exclude` parameters allow up to 20 (versus 5) tokens to be matched against the target string.
- Default database locations are now in `(master_disk)>system>lts>db` versus `>system>lts`. Existing databases are moved there during installation.

## Release 7.0 - New commands

### All users

- `lts_verify_license` – examines the license file and reports on its status for the module. It will also ask the user if necessary to enter the title to be used in reporting, and to acknowledge the license document.
- `add_disk_alias` – VOS 18
- `delete_disk_alias`– VOS 18
- `set_deferred_salvage`– VOS 18
- `set_dir_expand_mode`– VOS 18
- `set_stream_files`– VOS 18
- `validate_dir_limits`– VOS 18

## Release 7.0 – Changes to existing commands

### All users

- All front-end commands have been reviewed and updated to handle longer parameter strings.
- `audit_lts_logs`, `audit_logs_by_name`, `audit_logs_by_type` now have additional selection criteria: `-user`, `-from`, `-to`, `-include`, and `-exclude`.
- `audit_last_login` now optionally produces a CSV report.
- `priv_cmd_user_info` handles long commands.
- `create_security_log_db` and `audit_security_logs` now work with long command lines, and the database is now an extent file. VOS 18 log formats are supported.
- `audit_security_logs` has a `-user` selection parameter.
- `audit_login_activity` now selects with `-user`, `-from`, and `-to` parameters.
- `audit_password_info` now selects with `-person`. A new `-show_settings` switch controls whether current password parameters will be reported.
- `audit_who_accessed` now selects by user and optionally reports using the `show_logs` switch.
- `create_acctg_log_db` defaults to `(master_disk)>system>lts>db` folder. New parameters include `-show_logs`, `-gap`, `-csv_file`, and `-append`. `-append` allows adding accounting logs to an existing database. `-csv_file` creates a CSV file reporting logins. `-gap` controls whether gaps in accounting files are allowed in the database.
- `create_lts_log_db` defaults to `(master_disk)>system>lts>db` folder. It now creates extent-based files and indexes. It does a much more complete job of categorizing log entries, including OS 18 entries and log format.
- `create_security_log_db` creates an extent-based file and indexes. The `-show_other` parameter displays `security_log` messages that are not recognized or categorized. `-csv_path` creates a CSV file of log entries.
- `execute_as_request` handles long command lines up to 4,000 characters.
- `execute_privileged_command` handles long command lines up to 4,000 characters.
- `scan_as_rqst_tables` now allows include/exclude by user, privilege class, and command.
- `scan_priv_cmd_tables` now allows include/exclude by user, privilege class, and command.
- `start_priv_cmd_server` will also run `lts_verify_license` and may ask the user to enter the report title and acknowledge the license document.
- `set_registration_info` now records its action to the `ra_history` file for auditing.
- `lts_verify_license` confirms the validity of the module's license.

## Software Licenses

This LTS/OnGuard release is a major release that replaces any earlier release. New license files are needed if upgrading from a previous release.

## Software compatibility

This LTS/OnGuard Release is a major release that replaces any earlier release. The installation procedure for this release will overwrite any files belonging to an earlier release.

The `priv_cmd_commands.table` file must be rebuilt for this release. Use `install_priv_cmd_tables.cm` and `priv_cmd_commands.new` for this function.

Other `.tin` and `.table` files created by the administrator for the restricted environments in earlier releases will not be overwritten and will continue to work with the servers without any changes.

Command macro files in the LTS command directory (`>system>lts>command_library`) will be renamed to `macro.lts` but will not be deleted. If these files have been customized (for example, with `set_tape_defaults`), the changes should be applied to the new macros.

A database of information created under a release prior to 5.7 with `create_lts_log_db`, `create_security_log_db`, or `create_acct_log_db` will not be removed and will continue to work with current commands without any changes.

### NOTE

The full release includes “front-end” macros and programs to mimic the command line interface for non-privileged users who are in the privileged command and `analyze_system` environments. If you have created site-specific front-ends, they will be overwritten by the installation process if they are contained in the destination directory. Make sure to read the installation instructions carefully.

## Controlled directories

The directory tree from `(master_disk)>system>lts` and below will be affected by the installation of this release. All files that are part of the product will be overwritten by the new files. If you have modified any access rights under `(master_disk)>system>lts`, they will be returned to the initial values set by the earlier release installation tool. You should not change access rights under this directory, since the changes may interfere with the use of the product.

These site-created files will **not** be affected:

- Existing audit log files created by the restricted environment servers will not be affected by the installation.



- The `.tin` and `.table` files created for the restricted environments will not be affected. Note, however, that the `priv_cmd_commands.table` must be rebuilt.
- An existing database of login activity, security log incidents, or LTS privileged command or `analyze_system` environments will be moved to `>system>lts>db` but will remain unchanged.
- An existing database of executable programs with owner access set on will not be affected.

## **Documentation**

The following manuals have been revised for this release:

LTS/OnGuard Reference Manual (OG001)

LTS/OnGuard Installation Manual (OG002)

## **Support**

We recommend that users visit the Transaction Design, Inc. site on the World Wide Web at [www.transactiondesign.com](http://www.transactiondesign.com) and follow the links to the support pages and files for LTS/OnGuard. The email address [assist@transactiondesign.com](mailto:assist@transactiondesign.com) is monitored frequently and is an excellent way to ask questions and receive support.

## Section 2: Changes for the Security Administrator

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This section describes the changes and additions to commands for the security administrator in this release.

### Release 7.0 - New commands

- create\_lts\_license is obsolete.
- lts\_verify\_license is the new command which does the following:
  1. At first execution, the SysAdmin user will be asked to enter the string to be used as the report title for LTS/OnGuard reporting. This title resides in >system>lts>admin\_tools>report\_company\_name.txt and may be edited if necessary.
  2. At first execution, the SysAdmin user will be asked to confirm the LTS/OnGuard license document and send it to TDI.
  3. lts\_verify\_license will then verify the license file against the module name (%sys#m1) and against the RSN site id (available via validate\_hub).

## Changes to commands

### Administrative users

- The install\_lts.cm macro has several changes:
  1. The epc\_tools and ear\_tools directories are obsolete and are no longer created or accessed.
  2. LTS/OnGuard default databases will be moved from >system>lts to >system>lts>db if they don't already exist in that folder. The databases include lldb1, amt, fmt, oal, accounting\_db, security\_db, lts\_pc\_db, lts\_asr\_db, and ra\_history.
  3. \*.dd files will now be installed, overwriting the old \*.dd files. This is a change from the past necessitated by the longer priv\_cmd\_commands table entries.
- The priv\_cmd\_commands.[dd,new.tin] files have been updated. Commands may now be up to 64 characters in length.