

# Charon-SSP 4.0.5 Release Notes

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## Relevant Products

This document is applicable to version 4.0.5 of the following Charon-SSP product variants:

- Charon-SSP for Linux
- Charon-SSP Baremetal
- Charon-SSP for AWS
- Charon-SSP for OCI

## Host System Requirements and Supported Virtual Hardware

Please refer to the user's guide and the SPD of your respective Charon-SSP product for details.

## Known Caveats for Charon-SSP Version 4.0.5

- **Charon-SSP GUI for Microsoft Windows not included**  
This version of Charon-SSP does not include a Microsoft Windows version of Charon Manager for SSP and Charon Director for SSP. Customers upgrading to this version of Charon-SSP from an older version and requiring the graphical management interface for Charon-SSP must use the Linux version of Charon Manager for SSP and Charon Director for SSP.
- **AMD CPU support**  
Charon-SSP/4U+ and Charon-SSP/4V+ are not supported on AMD CPUs.
- **Charon-SSP/4M CGSIX restriction**  
CGSIX emulation is not supported for SunOS 4.x guest systems.

## New Features since 3.0.x

- Cloud-specific product variants for AWS and OCI with cloud license server
- Sun-4v support with increased main memory support (Solaris 10: 1TB, Solaris 11: 512GB)
- USB removable device support for 4U/4V (non-cloud versions)
- Charon Manager integrated SSH tunnel between Manager and Agent
- Charon Manager automatic update via GUI
- Automatic initial management password change and command-line option to change management password
- Suspending and resuming a Charon emulator instance
- Improved SSH VPN bridge creation support in Charon Manager
- The automatic start of Charon instances with host system boot is now integrated into the Charon Agent operation if it is configured via the Charon Manager.

## Important Bug Fixes and Other Changes in Version 4.0.5

### Bugs fixed:

- When running a regular (non-Marketplace) Charon-SSP installation on a cloud instance, the Charon Agent would fail when a user tried to open the **Virtual Machine** menu in the Charon Manager while an active emulated system was selected, causing the Charon Manager to disconnect from the Agent. This was caused by a dependency on the USB subsystem which is not enabled on many Linux cloud images.
- The `hasp_srm_view` utility could fail due to missing libraries, and GUI license tools could not manage licenses. Reason: the `hasp_srm_view` command erroneously required unnecessary packages that were not included in the dependency checks of the `charon-agent-ssp` RPM package. Workaround for versions before 4.0.5: identify the package providing the missing library (e.g., **# yum provides libSDL-1.2\***) and install the package (e.g., **# yum install SDL**).
- Instances created from the AWS marketplace image experienced intermittent license verification failures after instance restart. Existing customers with versions 4.0.x prior to 4.0.5 who encounter the problem must create a new instance with the new version and then transfer their Charon emulator data to the new instance (ideally, any container files, e.g. `vdisks`, used by the emulator should be stored on a separate storage volume that can be detached from the old instance and attached to the new one).

### Other changes and enhancements:

- Version 7.7 of the 64-bit versions of RHEL, CentOS, and Oracle Linux is now also supported as Charon-SSP host operating system. For details, please refer to the user's guide of your product.

## Important Bug Fixes and Other Changes in Version 4.0.4

### Bugs fixed:

- In versions 4.0.x before version 4.0.4 stopping the Charon Agent service stops all active Charon instances that were started via the Charon Manager or configured via the Charon Manager for automatic start at host system boot. Workaround for older 4.0.x versions: add the line **KillMode=process** to the **[Service]** section of `/etc/systemd/system/ssp-agentd.service`. Then run the command **systemctl daemon-reload**.
- The Charon Agent could start before the licensing system was ready. This caused the automatic startup of Charon instances to fail. Workaround for older 4.0.x versions: add the lines **After=network.target aksusbd.service** and **Wants=network.target** to the **[Unit]** section of `/etc/systemd/system/ssp-agentd.service`.

### Other changes and enhancements:

- When using the Charon Manager to configure a Charon instance for startup at host system boot, you can now configure a delay between 0 and 300 seconds.

## Important Bug Fixes and Other Changes in Version 4.0.3

### Bugs fixed:

- Charon-SSP AMI security improvements

## Important Bug Fixes and Other Changes in Version 4.0.2

### Bugs fixed:

- Incorrect data in Manager/Agent vm.dat file
- Termination of one SSP instance may affect other active SSP instances

### Other changes and enhancements:

- Support running a maximum of 100 Charon-SSP emulator instances on the same machine at the same time

## Important Bug Fixes and Other Changes in Version 4.0.1

### Bugs fixed:

- Network problem in 4U-JIT and 4U-PLUS-JIT when USB is enabled
- USB device which was attached to a now deleted VM cannot be attached to any other VM

## Important Bug Fixes and Other Changes from Version 3.1.21 to Version 3.1.28

### Bugs fixed:

- Solaris booting issue on SSP/4V-PLUS-JIT
- The installation of Solaris 11-2 fails with physical disk on SSP/4V
- There are error logs when installing Solaris 10 u6 on SSP/4V
- Network booting/installation fails with BGE adapter on SSP/4V
- "Time of Day clock error" will be printed by Solaris when recovering from snapshot
- "Restart"/"Shutdown" buttons of Baremetal display wrong status sometimes
- Removable devices cannot be attached/detached with Windows Manager
- Renaming a VM may crash Charon Manager
- Problem in charon-passwd tool
- SSP reports errors when restoring from snapshot
- ZFS boot bug
- Solaris boot problem with 128GB memory
- Improved SCSI shutdown procedure to avoid data loss during Solaris reboot or shutdown

### Other changes and enhancements:

- Terminate SSP/4V if detecting configuration issue with TTYA-TTYP, Manager will also mark conflicting ports in red on summary page
- Changed the title of login window of Charon Manager
- Load GPIB driver automatically in Baremetal
- Solved path dependency issue in Charon-SSP executables
- Sign kernel module to support UEFI boot
- Added access control in Charon Manager for vconsole device in SSP/4V
- Speed up memory allocation for huge memory configuration in SPARC

## Other Important Bug Fixes and Changes in Earlier 3.1.x Versions

### Bugs fixed:

- Fixed crash problem when using port scanner to scan console port

### Other changes:

- Increased license expiration time to 24 hours for cloud-specific products
- Barebone: disabled the service of NetworkManager
- Baremetal: changed the user role from charon/storage to charon/sshuser, 'charon' user can only be used to access SFTP sever and create SSH connection between Manager and Agent, 'sshuser' user can only be used to run simple command through SSH (e.g., ip and iptables)