

Pharos OEM Build 8 Endpoint Upgrade Guide and Release Notes

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Introduction

Pharos OEM Build 8 is a Beta release for the Pharos Trusted Zero Client endpoint firmware image only (version 23.02.0-dev13). This is the first endpoint release to be delivered as an Over The Air (OTA) update via the HP/Teradici trusted-zero-client-beta artifact repository.



The Trust Center is not being upgraded as part of this release. Please continue to use the OEM Build 7 Trust Center.



The USB Provisioner and Factory Provisioning Server are not being upgraded as part of this release. ODMs should continue to use the OEM Build 7 versions of these two components to provision Pharos endpoint devices.

Upgrading an Endpoint to OEM Build 8

Prerequisites

Start with:

- an endpoint that has been factory provisioned with OEM Build 7 firmware (endpoint image version 23.01.0-rc4) as per the OEM Build 7 **Pharos OEM Beta - Factory Provisioning Guide**
- an OEM Build 7 Trust Center (version 23.01.0-rc5) installed as per the OEM Build 7 **Pharos OEM Beta - Quick Start Guide**
 - Following this procedure will ensure that your Trust Center is monitoring the HP/Teradici trusted-zero-client-beta artifact repository.
- a management tool compatible with the OEM Build 7 Trust Center API
 - Note that this guide assumes that you have a copy of the OEM Build 7 Trust Center Examples (version 23.01.0-rc5) installed on a machine with access to the Trust Center API.

Procedure

This procedure will vary depending on the tooling that is used to manage the Trust Center. The steps below assumes the simple case where the Trust Center Python Examples are used for this purpose. Documentation may be found in the README file that is installed with the examples.

1. Register the endpoint with the Trust Center (see OEM Build 7 **Pharos OEM Beta - Quick Start Guide** for details).
2. Connect to the Trust Center API:

```
./tc.py config add tc-test -a trust-center.<your-trust-center-fqdn> -p=<password-for-your-trust-center>
```

3. Obtain a list of the available endpoint image updates:

```
./tc.py get repo --target amd64-64
```

This should produce the following output:

```
[
{
  "createdAt": "2023-02-03T23:26:42Z",
  "hash": "ff5ff36d9fecebf779205465989c95dc47355166c6f271e43e175da2074cf385",
  "name": "trusted-zero-client-amdx86-64",
  "targets": [
    "amdx86-64"
  ],
  "updatedAt": "2023-02-03T23:26:42Z",
  "version": "23.02.0-dev13"
},
{
  "createdAt": "2023-01-31T07:32:24Z",
  "hash": "765c0f34802248d51366d17dd5034cef6ca7ed324343d01615302ae8c6726502",
  "name": "trusted-zero-client-amdx86-64",
  "targets": [
    "amdx86-64"
  ],
  "updatedAt": "2023-01-31T07:32:24Z",
  "version": "23.01.0-rc4"
}
]
```

"version": "23.02.0-dev13" is the endpoint OEM Build 8 firmware image that we will push to the endpoint.

"version": "23.01.0-rc4" is the OEM Build 7 image and could be used to downgrade the endpoint later if needed.

4. Determine the ID of the endpoint:

- Click the "Setting" Icon (gearwheel - top left) on the endpoint UI.
- One the "General" tab scroll down until the "Client Information" button is visible. Click this button.
- Note the Endpoint ID - for example "endpoint-c600f74edda749f5a480dc1e352b2e69"

5. Optional/Tip - to avoid the need to manually copy the ID from the endpoint UI for use in the next step use the following command to grep for the first few characters of the ID

```
./tc.py get ep | grep c600
```

This should output the full ID which can then be copy/pasted in the next command.

6. Initiate the OTA update to OEM Build 8 firmware for the endpoint:

```
./tc.py set endpoint firmware -t amd64 -v 23.02.0-dev13 -id endpoint-c600f74edda749f5a480dc1e352b2e69
```

7. Wait a few minutes until the endpoint reports that: "A new version is available. Please reboot to install the update"
8. Reboot the endpoint. (The reboot will a few minutes longer than a normal reboot as the new image must be installed.)
9. Click the "About" icon (top right) on the endpoint UI.
10. Confirm that the endpoint is now running image "23.02.0-dev13"

Release notes

General

- Added support for Amazon Workspaces
- H.264 hardware offload is now fully supported
- Addressed DX1600 overheating issue

User Interface

- Log files viewer now opens to the full screen width
- Fixed issue which prevented log file viewer for showing rotated log files.
- Fixed issue of log viewer not refreshing correctly after search
- USB Device Classes are now properly reported in the settings window
- Wacom USB devices can now be changed from HoIP-mode to URBoIP-mode
- Non-KMP USB devices now default to "optimized" mode and are thus auto-forwarded in session.
- "Leave Fullscreen" and "Minimize" items have been removed from the in-session menu UI
- UI now indicates if caps lock is on when on a password field
- Lock icons now indicate if a broker is presenting a valid certificate.

Trust Agent

- Fixed issue where factory reset was not deleting log files.

Operating System

- Added support for DX1600 RJ45 Ethernet Phy
- All network ports are now disabled making the device invisible to standard network scans (except for SSH on port 22 - see known issues).

Known Issues

- Port 22 for SSH is still open on the device to aid development and troubleshooting. This will be closed in an upcoming release. No ports will be open on the device for GA.
- On multi-monitor, the Pre-Session UI now spans all monitors instead of being fullscreen on the primary monitor. This will be resolved for GA.
- In-Session on multi-monitor is not spanning fullscreen across both monitors properly. This will be resolved for GA.
- The UI to modify WiFi settings will be added in a future release and will become available via an Over-the-Air update after GA.
- Keyboard delay and repeat rate are currently not supported due to a compositor limitation.
- Disconnect hotkey sequence `ctl-alt-f12` does not work. Use `ctl-alt-shift-f12` as a work-around.
- Endpoint shows "No currently running version" after factory reset.
- The version displayed in the about menu after usb provisioning is not human readable