

## Maintenance Operations

This document contains instructions to setup the process for maintenance actions on the S4 Open Appliance. All operations are initiated through a series of files created on a USB thumb drive.

Create the directory structure as described in each description below in the root of a USB thumb drive. Please use the smallest thumb drive available and delete any unneeded files to minimize the initialization time for the device.

Next, create trigger files in the root of your USB thumb drive to request maintenance actions for the S4 Open appliance. The content of the file is not significant. Trigger files must be created without a file extension. The startup.bat file simply looks for the existence of the file names to trigger the following maintenance actions. You can simultaneously request several maintenance actions by creating the appropriate files in the root of the USB thumb drive.

To initiate the process simply insert the USB thumb drive into the appliance and reboot the system. The preferred method for a reboot is to initiate a remote reboot request from the S4 Open Console. If this is not possible reboot from the reboot icon in the program tray of the physical console of the appliance, or power cycle the appliance.

Trigger File Name	Action
noS4appliance	Starts the UNO 2059 without initiating the S4 Open appliance application. As long as this file exists on the USB thumb drive the appliance application will not start up.
updateS4appliance	Saves the certificate and automation.net.xml files from the current configuration then updates the firmware build on the appliance. After the action is completed, the trigger file is renamed to S4ApplianceUpdated to prevent accidental multiple updates.
updateDNA	Saves the automation.net.xml file from the current configuration. Then replaces the file on the appliance with the one located in the \usb hard disk\dna folder. After the action is completed the trigger file is renamed to prevent accidental multiple updates.
updatecert	Saves the automation.cert.xml file from the current configuration. Then replaces the file on the appliance with the one located in the \usb hard disk\cert folder. After the action is completed the trigger file is renamed to prevent accidental multiple updates.
initS4appliance	saves the automation.net.xml file from the current configuration onto your USB thumb drive then replaces the automation.net.xml on the appliance with a default configuration file. After the action is completed the trigger file is renamed to prevent accidental initialization of the system configuration.
updatereg	Updates the Windows CE registry with information provided in the \usb hard disk\reg folder. the startup script will look for a file named "WindowsCE5.reg" in that directory, merge the listed keys into the main registry, save the registry and reboot the system. The trigger file will be renamed 'regupdated' to prevent accidental multiple updates.

updatedef	Copies the current system configuration file, automation.net.xml, to the default system configuration file, def.automation.net.xml. This becomes the "last known good" configuration if validation of the current configuration file fails during a system startup. Only the trigger file is needed for this action to be completed.
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After all requested maintenance actions are completed

- a directory listing of the application configuration is generated
- a listing of the network configuration is generated

The results of this process are logged in a file named results.txt in the \usb hard disk\startup folder.