

# INTEL-SA-00075 Linux\* Unprovisioning Tool

**Intel® Active Management Technology (Intel® AMT), Intel® Standard Manageability (Intel ISM), and Intel® Small Business Technology (Intel® SBT)**

**Instructions for unprovisioning systems vulnerable to INTEL-SA-00075**

Revision 1.25 – May 19, 2017

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## Summary

The INTEL-SA-00075-Unprovisioning-Tool will unprovision computers with Intel® Active Management Technology (Intel® AMT), Intel® Standard Manageability (Intel ISM), and Intel® Small Business Technology (Intel® SBT) that are vulnerable to the issue identified in INTEL-SA-00075. This tool will allow you to unprovision management features, configured in Client Control Mode (CCM).

## System Requirements

- Ubuntu\* 16.04 LTS or Ubuntu\* 14.04 LTS
- The Intel® Management Engine Components, specifically:
  - The Intel® Management Engine Interface driver (Intel® MEI)

Note: The tool does not support Virtual Machine (VM) environment. As a workaround, use LiveCD.

## Running the tool manually

The tool must be run after INTEL-SA-00075-Discovery-Tool detects a vulnerable system and Intel® AMT, Intel ISM and Intel® SBT provisioned state is "Provisioned".

1. Open terminal
2. Browse to the directory where the application is located
3. With root credentials, run the binary file

`./(binary_tool) or sudo ./(binary_tool)`

Note: The Intel® MEI driver exposes a misc device called `/dev/mei`. An application INTEL-SA-00075-Unprovisioning-Tool uses `/dev/mei0` node. Ensure that this node is available else the application will result in an error message.

Open Terminal and list available devices

```
ls /dev/mei*
```

If the result is a mei\* device node where \* # 0; then re-run the application with correct node

```
e.g sudo ./INTEL-SA-00075-Unprovisioning-Tool -d /dev/mei#
```

Figure 1 Example of INTEL-SA-00075-Unprovisioning-Tool Console output

```
INTEL-SA-00075-Unprovisioning-Tool -- Release 0.5
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Control Mode: ADMIN / ACM
Error: Cannot Unprovision - System provisioned in Admin Control Mode.
Unprovision via Intel(R) MEBX. Press CTRL+P during system boot. Or Contact OEM
-----
```

Table 1 INTEL-SA-00075-Unprovisioning-Tool Console output values

Result	Explanation
System is in unprovisioned state. Exiting.	The system is not provisioned. No further mitigation is needed.
System needs to be provisioned.	The system is provisioned and the tool will attempt to check for provisioning mode and un-provision if provisioning mode is Client Control Mode (CCM).
Successfully Un-provisioned	Unprovisioning process was successful.

## Troubleshooting

If the tool encountered errors you may see the following error messages on the console output:

Table 2 INTEL-SA-00075-Unprovisioning-Console Error values

Result	Explanation
Failed Intel® AMT connection	The tool was unable to communicate to Intel® Management Engine (Intel® ME) firmware to retrieve whether the device is un-provisioned. Contact OEM.
Failed Un-provisioning. Use Intel® MEBX to Un-provision or Contact OEM	Un-provisioning attempt failed due to Intel® ME communication error. User will need to manually un-provision or Contact OEM.
Cannot Un-provision – System provisioned in Admin Control Mode.	Current provisioning Mode: Admin Control Mode. The tool does not support un-provisioning of this mode. User will need to manually un-provision via Intel® MEBX or Contact OEM

Un-provision via Intel® MEBX (Press CTRL+P during system boot) Or Contact OEM	
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*Note: In order to manually un-provision. At system start, Press CTRL+P to bring up Intel® AMT Setup Menu, also known as Intel® Management Engine BIOS Extension (Intel® MEBX). This feature is BIOS dependent and may not be available on all systems. Contact OEM for further assistance.*

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