

# Intel® ME Firmware Update

## Implications on Intel® Authenticate

### Contents

1. Installation of Intel® Authenticate 3.0 on Old Firmware .....	2
2. Firmware Update After Intel® Authenticate Already Installed.....	3
3. Intel® ME Firmware/Intel® Authenticate - Scenarios .....	4

## 1. Installation of Intel® Authenticate 3.0 on Old Firmware

By default, installation of or upgrade to Authenticate Version 3.0 is blocked on any Intel® ME Firmware version lower than version 11.8.50.3399.

To install Intel® Authenticate on earlier supported Intel® ME Firmware versions, you will need to use a special installation flag named `BypassMEFirmwareCheck`.

Flag	Details
<code>BypassMEFirmwareCheck</code>	<p>Valid values:</p> <ul style="list-style-type: none"><li>• <b>0</b> – This is the default. Intel® Authenticate will only be installed if version 11.8.50.3399 or higher is detected.</li><li>• <b>1</b> – If you set this value, Intel® Authenticate will also be installed on any of the supported (but less secure) Intel® ME Firmware versions.</li></ul>

For example, if you want to run a manual local installation on a 64-bit platform with Intel® ME Firmware lower than version 11.8.50.3399:

```
Setup_x64.exe /v"BypassMEFirmwareCheck=1"
```

### Note:

- For security reasons, it is highly recommended to upgrade earlier Intel(R) ME Firmware versions to 11.8.50.3399 or higher. For more information, refer to the official communication [here](#). If you decide to install Intel(R) Authenticate on earlier versions, data stored in the Intel(R) ME Firmware is potentially vulnerable. This includes enrollment data, such as the Protected PIN and the Windows password, and PKI keys.

## 2. Firmware Update After Intel® Authenticate Already Installed

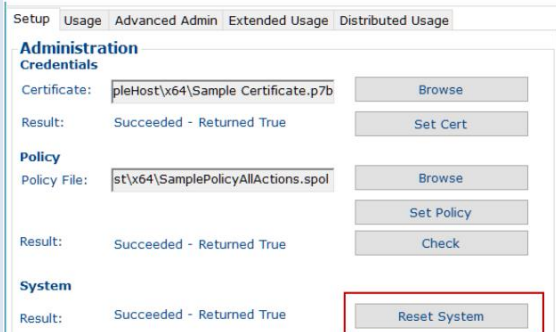
On computers where Intel® Authenticate is already installed, upgrading Intel® ME Firmware to 11.8.50.3399 or higher will cause Intel® Authenticate to stop working.

To make Intel® Authenticate work again, Intel® Authenticate must be reset. This will delete all stored data.

IT will then need to provision the Certificate and Policy, and enroll any Certificates managed by Authenticate (e.g. for VPN). In addition, the end users will need to re-enroll all their factors.

Recommended process to follow:

1. Uninstall Intel® Authenticate
2. Perform Intel® ME Firmware update
3. Re-install Intel® Authenticate
4. Re-enroll certificates and factors

Audience	Reset Method	Steps
<b>Anyone</b>	Uninstall and Re-install	Uninstall Authenticate from Program files. Install from deployment package.
<b>IT</b>	Reset through deployment package	Follow deployment guide describing the reset process
<b>IT</b>	ResetMFA API provided by the Authenticate Engine.  This API needs to be called from an elevated context.	ResetMFA can be done by the local agent in response to a request from the backend (cf. Policy provisioning)
<b>IT Testing</b> (Part of deployment package, performs a local reset)	ResetIA command from GPO deployment package	Download GPO deployment package from the Download Center  In the HostFiles folder, open a PowerShell command prompt with administrator privileges. Enter this command: powershell.exe -executionpolicy unrestricted .\ResetIA.ps1
<b>OEM Testing</b>	SampleHost reset	OEM package -> Samples -> SampleHost  Open MFASampleConsole.exe with administrator privileges.  

### 3. Intel® ME Firmware/Intel® Authenticate - Scenarios

Scenario	Implication
Installing Intel® Authenticate v.3.0 on a platform with a firmware older than version 11.8.50.3399	<p>By default, installation is blocked on any Intel® ME Firmware version lower than version 11.8.50.3399.</p> <p>To install Intel® Authenticate on earlier supported Intel® ME Firmware versions, you will need to use a special installation flag named ByPassMEFirmwareCheck (see Section 1 for details).</p>
Upgrading Intel® Authenticate from version 2.5 to version 3.0 on a platform with a firmware older than version 11.8.50.3399	<p>By default, upgrade is blocked on any Intel® ME Firmware version lower than version 11.8.50.3399.</p> <p>To upgrade Intel® Authenticate on earlier supported Intel® ME Firmware versions, you will need to use a special installation flag named ByPassMEFirmwareCheck (see Section 1 for details).</p>
Upgrading Intel® ME Firmware from a previous version to version 11.8.50.3399, and continue using Intel® Authenticate	<p>The Intel® ME Firmware upgrade will cause Intel® Authenticate to stop working. Users will be required to use password for login.</p> <p>Must reset or re-install Intel® Authenticate to continue using it (see section 2 for details).</p> <p>IT needs to re-provision the certificate and policy and re-enroll any certificates managed by Authenticate. The end-user must re-enroll all factors.</p>
Installing Intel® Authenticate v.3.0 after Intel® ME Firmware upgrade to version 11.8.50.3399	Intel® Authenticate v.3.0 will install as usual.
Upgrading Intel® Authenticate from version 2.5 to version 3.0 after Intel® ME Firmware upgrade to version 11.8.50.3399	<p>Intel® Authenticate version 2.5 is not working on the platform after the Intel® ME Firmware upgrade, therefore, upgrading Intel® Authenticate to version 3.0 is not supported. Users will be required to use password for login.</p> <p>To recommencing Intel® Authenticate, either:</p> <p>Reset Intel® Authenticate (see section 2 for details), then upgrade to Intel® Authenticate version 3.0.</p> <p>Uninstall Intel® Authenticate, then install version 3.0 instead.</p> <p>After a reset or re-install, IT needs to re-provision the certificate and policy and re-enroll any certificates managed by Authenticate. The end-user must re-enroll all factors.</p>