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Intel® Active Management Technology

Cisco* ACS Configuration Guide for Intel® AMT Posture Data

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Cisco* ACS Configuration Guide for Intel® AMT Posture Data

(Reference Guide for Network/IT Administrators)

This document only describes the Intel AMT Posture Plug-in specific attributes required for configuring the server side (for example, in a Cisco* ACS 4.0 product). It does not describe the configuration for Cisco ACS 4.0 posture validation, including Intel AMT posture validation. For this information, please refer to the *Cisco ACS Configuration Guide*.

Step 1: Install and configure Cisco ACS 4.0 server.
Step 2: Add Intel AMT posture specific AVPs to Cisco ACS 4.0. To accomplish this, the following items must be performed by the administrator:

a. Go to the directory where the Csutil tool for Cisco ACS 4.0 is installed. The typical directory command for this is:

```
cd %program files%\ciscosecure acs v4.0\bin\
```

b. Use Csutil to add Intel AMT posture AVPs by using the following command:

```
csutil -addAVP bar.txt [bar.txt file is shown below.]
```

c. Restart ACS using following commands:

```
net stop CSAdmin
net stop CSAuth
net stop CSLog
net start CSLog
net start CSAuth
net start CSAdmin
```

The Cisco NAC Posture Plug-in for Intel® AMT shall provide the following data about Advanced Management Technology:

Attribute Number	Attribute Type	Name	Details
5	Version	AMTVersion	AMT version
9	Unsigned32	AMTOperationalState	0 – AMT not operational (pre-provisioning state) 1 – AMT operational
32768	Unsigned32	AMTAvailable	1 – AMT is available 0 – AMT not available (no flash, no driver etc.)
32769	Unsigned32	AMTSBEEnable	1 – Enterprise mode 0 – SMB mode
32770	Unsigned32	AMTTLSEnable	1 – TLS enabled 0 – TLS disabled
32771	Unsigned32	AMTCryptoEnable	1 – Crypto HW fuse enabled 0 – Crypto HW fuse disabled

Attribute Number	Attribute Type	Name	Details
32772	Unsigned32	AMTProvisioningState	0 – PRE_PROVISIONING state 1 – IN_PROVISIONING state 2 – POST_PROVISIONING state
32773	Unsigned32	AMTNetIFEnable	1 – network interface enabled 0 – network interface disabled
32774	Unsigned32	AMTSOLEnable	1 – SoL enabled 0 – SoL disabled
32775	Unsigned32	AMTIDEREnable	1 – IDE redirection enabled 0 – IDE redirection disabled
32776	Unsigned32	AMTFWUpdateEnable	1 – FW update enabled 0 – FW update disabled
32777	Unsigned32	AMTLinkUpEnable	1 – Link up 0 – Link down
32778	Version	AMTROMVersion	ROM version
32779	Version	AMTFlashVersion	Flash version
32780	Version	AMTPatch1Version	Patch1 version
32781	Version	AMTPatch2Version	Patch2 version
32782	String	AMTBIOSVersion	BIOS version

Note: The information in this table corresponds to the bar.txt file below.

```
bar.txt file
------------------------------------------------------------------------------------------
[attr#0]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=00005
attribute-name=AMTVersion
attribute-profile=in out
attribute-type=version

[attr#1]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=00009
attribute-name=AMTOperationalState
attribute-profile=in out
attribute-type=unsigned integer

[attr#2]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
```

attribute-id=32768
attribute-name=AMTAvailable
attribute-profile=in out
attribute-type=unsigned integer

[attr#3]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32769
attribute-name=AMTSBEEnable
attribute-profile=in out
attribute-type=unsigned integer

[attr#4]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32770
attribute-name=AMTTLSEnable
attribute-profile=in out
attribute-type=unsigned integer

[attr#5]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32771
attribute-name=AMTCryptoEnable
attribute-profile=in out
attribute-type=unsigned integer

[attr#6]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32772
attribute-name=AMTProvisioningState
attribute-profile=in out
attribute-type=unsigned integer

[attr#7]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32773
attribute-name=AMTNetIFEnable
attribute-profile=in out
attribute-type=unsigned integer

[attr#8]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32774
attribute-name=AMTSOLEnable
attribute-profile=in out
attribute-type=unsigned integer

[attr#9]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32775
attribute-name=AMTIDEREnable
attribute-profile=in out
attribute-type=unsigned integer

[attr#10]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32776
attribute-name=AMTFWUpdateEnable
attribute-profile=in out
attribute-type=unsigned integer

[attr#11]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32777

attribute-name=AMTLinkUpEnable
attribute-profile=in out
attribute-type=unsigned integer

[attr#12]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32778
attribute-name=AMTROMVersion
attribute-profile=in out
attribute-type=version

[attr#13]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32779
attribute-name=AMTFlashVersion
attribute-profile=in out
attribute-type=version

[attr#14]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32780
attribute-name=AMTPatch1Version
attribute-profile=in out
attribute-type=version

[attr#15]
vendor-id=343
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32781
attribute-name=AMTPatch2Version
attribute-profile=in out
attribute-type=version

[attr#16]
vendor-id=343

```
vendor-name=Intel
application-id=32770
application-name=Intel_AMT
attribute-id=32782
attribute-name=AMTBIOSVersion
attribute-profile=in out
attribute-type=string
-------------------------------------------------------------------------------------
```

Step 3: After the Intel AMT posture AVPs have been added to Cisco ACS 4.0, the administrator should be able to use them to configure posture validation rules inside the ACS 4.0 web interface. Refer to the Cisco ACS 4.0 configuration guide for instructions on configuration of posture validation rules.