AMTNVM Editable Fields

The table below describes the content and the legal values of the NVM parameters that can be changed via the AMTNVM tool. For each parameter, the following details are listed:

- **Parameter Name:** Parameter's name as it appears in the parameter file.
- **Description:** – Short description of the parameter.
- **Parameter Type/Range:** Parameter value's data type and range type.
- **Mandatory:** Whether the parameter is mandatory, i.e., whether the parameter file must contain a value for this parameter. To leave the image's current value unchanged, leave the value that was printed by the "-parse" option.
- **Default Value:** –Parameter's value in the default flash image. If the parameter does not appear in the flash image, the value is <Blank>.

Notes:
1. If an optional parameter value is not assigned a value, the AMTNVM tool will remove the parameter's current value from the flash image.
2. If at least one of the parameters **PET Language Code**, **PET OEM Custom Fields** or **PET OEM Custom Fields Length** is assigned a value, the tool automatically sets the unset parameters to zero.
3. The parameter values are decimal integers, except where the document specifies that they are hexadecimal.
4. Where parameters are interdependent, the tool does not verify that the parameter values comply with the dependency rules.

Parameter Name	Description	Parameter Type/Range	Mandatory	Default Value
Manageability Mode	ME Mode (AMT, ASF or NONE)	0 = NONE. 1 = AMT. 2 = ASF.	Yes	0
Manageability Mode Lock	Locks the ME Mode. Once this bit is set, the user cannot change the ME Mode through MEBx.	0 = Not locked. 1 = Locked	Yes	0
Local Firmware Update Enabled	Enables or disables Local FW Update	0 = Disabled 1 = Enabled	Yes	0
Local FWU Override Counter	Specifies whether to override the MEBx Local FW Update configuration and enable the local FW Update channel. If **-1** (Always) is chosen, override works, but only if it is allowed by the **Local FWU Override Qualifier** (see below).	0 = never override 0 < n < 255 allows override for precisely *n* host boot cycles, for manufacturing purposes. -1 = always override	Yes	0

Parameter Name	Description	Parameter Type/Range	Mandatory	Default Value
Local FWU Override Qualifier	If **-1** (Always) is chosen for Local FWU Override Counter (see above), this parameter determines whether the override is performed.	0 = Always: allow override 1 = Never: disqualify override 2 =Restricted: allow override only until the ME has been configured (AMT or ASF).	Yes	1
Flash Descriptor Override Pin-Strap Ignore	**0**: ME enters a Temporary Disabled state in order to safely recover the full flash image. **1**: ME completely ignores the strap and remains fully functional.	Bit value (0/1).	Yes	0
iQST Enabled	Determines whether iQST is supported.	Bit value (0/1) 0 = Enabled 1 = Disabled	Yes	1
iQST Lock	Determines whether iQST is locked in MEBx.	Bit value (0/1) 0 = Not locked 1 = Locked	Yes	0
Configuration Server Port	Configuration server port	2-byte integer	No	<Blank> Note: If no value is entered, the firmware uses the default value (0)
Configuration Server Name	Name of the provisioning server (the client will look for this server in DNS if no IP is specified in the Configuration Server IP parameter).	Multibyte character string of length 1 to 33.	No	<Blank> Note: If no value is entered, the firmware uses the default value (ProvisionS erver)
Configuration Server IP	IP address of the configuration server	IP address	No	<Blank> Note: If no value is entered, the firmware uses the default value (0.0.0.0)
AMT Host Name	Host name	Multibyte character string of length 1 to 32.	No	Empty string
AMT Domain Name	Domain name.	Multibyte character string of length 1 to 222.	No	Empty string

Parameter Name	Description	Parameter Type/Range	Mandatory	Default Value
DHCP Enabled	Enables or disables DHCP by default.	Bit value (0/1). 0 = Disabled 1 = Enabled	Yes	1
AMT Ping Response Enabled	Determines whether the AMT device responds to ping command.	Bit value (0/1). 0 = Does not respond 1 = Responds	Yes	1
AMT Static IP Address	AMT device's IP address	IP address.	Yes	0.0.0.0
AMT Static IP Subnet Mask	AMT device's subnet mask	IP address.	Yes	0.0.0.0
AMT Static IP Default Gateway Address	IP address of the default gateway	IP address.	Yes	0.0.0.0
AMT Static IP Primary DNS Address	IP address of the primary DNS	IP address.	Yes	0.0.0.0
AMT Static IP Secondary DNS Address	IP address of the secondary DNS	IP address.	Yes	0.0.0.0
AMT Dedicated MAC Address	AMT's MAC address.	Source MAC address (xx-xx-xx-xx-xx-xx where every x is either a decimal digit (0-9) or one of the following characters: a,b,c,d,e or f) (The address MUST be non-zero, and the second hexadecimal digit must be even.)	Yes	ff-ff-ff-ff-ff-ff
VLAN	VLAN tag used for the manageability VLAN.	2-byte integer.	Yes	0
PET Language Code	LanguageCode used in PET events by default.	2-character hexadecimal value (0xhh, where each h is either a decimal digit (0-9) or one of the following characters: a,b,c,d,e or f)	No	<Blank>
PET OEM Custom Fields 00-15	OEM custom fields used in PET events	16 two-character hexadecimal values, separated by single whitespace characters	No	<Blank>
PET OEM Custom Fields 16-31	OEM custom fields used in PET events	16 two-character hexadecimal values, separated by single whitespace characters	No	<Blank>
PET OEM Custom Fields 32-47	OEM custom fields used in PET events	16 two-character hexadecimal values, separated by single whitespace characters	No	<Blank>
PET OEM Custom Fields 48-63	OEM custom fields used in PET events	16 two-character hexadecimal values, separated by single whitespace characters	No	<Blank>
PET OEM Custom Fields Length	Number of valid OemCustomField bytes	Single-byte integer between 0 and 64. Note: When the value is 64, the final OEM custom byte is ignored.	No	<Blank>
PET Community String	Event manager community string used in PET events	Multibyte character string of length 1 to 21	Yes	public
MEManuf Test Counter	Number of full MEManuf tests allowed	Single-byte integer	Yes	8
IDER Boot Capable	Determines whether IDE Redirection is supported by the BIOS	Bit value (0/1). 0 = Redirection not supported 1 = Redirection supported	Yes	1

Parameter Name	Description	Parameter Type/Range	Mandatory	Default Value
SOL Boot Capable	Determines whether Serial over LAN redirection is supported by the BIOS	Bit value (0/1). 0 = Redirection not supported 1 = Redirection supported	Yes	1
BIOS Reflash Capable	Determines whether BIOS Reflash is supported by the BIOS	Bit value (0/1). 0 = Reflash not supported 1 = Reflash supported	Yes	0
Boot into BIOS Setup Capable	Determines whether BIOS boot into setup screen is supported by the BIOS	Bit value (0/1). 0 = Not supported 1 = Supported	Yes	0
Pause During BIOS Boot Capable	Determines whether BIOS pause before booting operating system is supported by the BIOS.	Bit value (0/1). 0 = Not supported 1 = Supported	Yes	0
HostIf SOL Enabled	Determines whether Serial over LAN redirection is enabled. Note: If this parameter is set to Disabled, the only way for the end user to enable SOL redirection is via the MEBx.	Bit value (0/1). 0 = Enabled 1 = Disabled	Yes	0
HostIf IDER Enabled	Determines whether IDE Redirection is enabled. Note: If this parameter is set to Disabled, the only way for the end user to enable IDER is through MEBx.	Bit value (0/1). 0 = Enabled 1 = Disabled	Yes	0
Idle timeout - Manageability Engine	Determines the ME Wake on LAN Remote Wake Timer. If this is set to any value other than 0 determines the time to Moff for the ME. ME will Wake on subsequent Manageability LAN traffic.	2-byte integer. 0: ME always ON depending on Power package setting. Any Other: Specifies minutes of ME LAN inactivity delay to Moff	No	1 (minute)
ME Visual LED Indicator Enabled	Determines whether the ME Visual LED Indicator is enabled.	Bit value (0/1). 0 = Enabled 1 = Disabled	Yes	0
LAN Power Well	Determines when LAN Well is powered.	Bit value (0/1/2). 0 = Core Well 1 = Suspend Well 2 = ME Well ORed with GPIO9 (WOL_EN)	Yes	2
Power Package n Supported (<Power Package Description>)	Displays the Power Package details.	Bit value (0/1). 0 = Not Supported. 1 = Supported.	Yes	1

Parameter Name	Description	Parameter Type/Range	Mandatory	Default Value
Default Power Package	Displays the default Power Package from the available Power Packages (parameter shown in the row above).	Bit value (1-n), where n = the valid available power package number. The default power package selected MUST be a supported power package.	Yes	1
AMT Legacy Provisioning Mode Supported	Specifies whether the legacy Provision mode is supported in MEBx.	Bit value (0/1). 0 = NOT Supported. 1 = Supported.	Yes	1
AMT VLAN Local Configuration Blocked	Specifies whether the VLAN configuration is blocked in MEBx	Bit value (0/1). 0 = Not Blocked. 1 = Blocked.	Yes	0
iQST Supported	Determines whether the iQST is supported in MEBx	Bit value (0/1). 0 = Not Supported. 1 = Supported.	Yes	1
ASF Supported	Determines whether the option to set the ASF manageability mode is supported in MEBx	Bit value (0/1). 0 = Not Supported. 1 = Supported.	Yes	1
AMT Supported	Determines whether the option to set the AMT manageability mode is supported in MEBx.	Bit value (0/1). 0 = Not Supported. 1 = Supported.	Yes	1
Provisioning Time Period	Determines the initial bare-metal Configuration window (in hours)	Single byte decimal integer (0-255)	No	24
AMT Compatibility Mode	Determines whether AMT is in AMT 1.0 mode (legacy mode)	Bit value (0/1) 0 = Not in legacy (1.0) mode. 1 = in legacy (1.0) mode.	Yes	0
AMT Configuration Mode	Determines whether AMT is in Enterprise or Small Business mode	Bit value (0/1) 0 = Enterprise mode 1 = Small business mode	Yes	0
Remote Configuration Enabled	Enables or disables Remote Configuration	Bit value (0/1) 0 = Disabled 1 = Enabled	Yes	0
PKI DNS Suffix	Sets the PKI DNS Suffix for secure Remote Configuration	Multibyte character string of length 1 to 255.	Yes	<Blank>
Config Server FQDN	Sets the configuration server FQDN for secure Remote Configuration	Multibyte dotted character string of length 1 to 255	Yes	<Blank>

Parameter Name	Description	Parameter Type/Range	Mandatory	Default Value
23 sets of hash certificate parameters (for the 23 certificates that the image should include). Each set includes the following parameters: • Hash *n* Active • Hash *n* Friendly Name • Hash *n* Stream	For each certificate hash, the parameter set specifies the following (where $0 <= n <= 2\ 2$): • **Hash *n* Active**: Whether certificate hash *n* is active • **Hash *n* Friendly Name:** Certificate hash *n*'s friendly user name • **Hash *n* Stream:** The actual hash (in hexadecimal) for certificate hash *n*	Active = 1/0 (1=active, 0=inactive) Friendly Name = multibyte character between 1 and 32 bytes Stream = <empty = no input> or CertFile <hash certificate file> Or Actual hash value in hexadecimal (e.g., EE FF 6B 55 2C 4E A2 29 DC 69 3E D8 8E 3D 40 80 A5 98 C9 52)	No	Active = 0 Friendly Name = <Blank> Stream = <Blank>