

Intel[®] Management Engine BIOS Extension (Intel[®] MEBX) User's Guide

For systems based on Intel[®] 5 Series Chipset Family and Intel PCH

April 2009

Revision 0.2

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Revision History

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	0.1	Initial draft	Mar 20, 2009
	0.2	Tech Pubs edits	April 7, 2009

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1 Introduction

1.1 Intel® Management Engine (Intel® ME) and Intel® Management Engine BIOS Extension (Intel® MEBX) Overview

The Intel® Management Engine (Intel ME) is an isolated and protected computing resource. The Intel ME provides the following IT management features independent of the installed OS:

- Intel® Active Management Technology (Intel® AMT 6.0), allowing improved management of corporate assets.
- Intel® Quiet System Technology (Intel® QST) to manage the acoustics of the client platform.

Intel ME configuration is included in the BIOS by the Intel® Management Engine BIOS Extension (Intel® MEBX). The Intel MEBX provides the ability to change and/or collect the system hardware configuration, pass it to the management firmware and provides the Intel ME configuration user interface.

1.2 Scope of document

This document describes how to configure the Intel MEBX for Intel® 5 Series Chipset Family (Ibexpeak)/Intel® PCH platforms with Intel® AMT 6.0 and Intel® QST firmware.

Note: The Intel ME configuration procedures described in this guide are part of the larger Intel vPro technology activation and provisioning process. These configuration procedures can vary significantly (or be performed automatically) and depend on which third-party management console you are using. See the Related Documentation section of this guide (section 1.5) for a list of Intel-authored provisioning guides that are specific to several popular management consoles. These provisioning guides provide the end-to-end process for provisioning your Intel vPro computers with the specified management console, and may or may not include references to the Intel ME manual configuration procedures in this guide (depending on which provisioning model is used).

1.3 Target Audience

This user guide is primarily intended for Information Technology (IT) administrators and system integrators with experience in implementing complex computer and network installations. It is not intended for general audiences.

Note: Readers should have a basic understanding of networking and computer technology terms, such as TCP/IP, DHCP, IDE, DNS, Subnet Mask, Default Gateway and Domain Name. Explanation of these terms is beyond the scope of this document.



1.4 Acronyms

Acronym	Description
ASF	Alert Standard Format
BIOS	Basic Input Output System
DHCP	Dynamic Host Configuration Protocol
DNS	Domain Name Server
EIT	Embedded Information Technology (see VA)
EPS	VA Private Store Intel's VA Specific Store in an ME-owned flash area separate from 3PDS. The size is one (1) physical page (4K bytes)
FW	Firmware
G3	Complete Power loss (AC power plug pulled)
GbE	Gigabit Ethernet
GMT	Greenwich Mean Time
HW	Hardware
Intel® AMT	Intel® Active Management Technology
Intel® MEI	Intel® Management Engine Interface
Intel® QST	Intel® Quiet System Technology
Intel® Remote PC Assist	Allows OEMs, managed service providers (MSP) and IT Outsourcers to connect with end user systems over the public internet and remotely manage enabled systems regardless of system state
IP	Internet Protocol
LAN	Local Area Network
Intel® ME	Intel® Management Engine
Intel® MEBX	Intel® Management Engine BIOS Extension
MSP	Manageability Service Provider
OPK	OEM Pre-Installation Kit
OS	Operating system
PRTC	Protected Real Time Clock
RCFG	Remote Configuration
S3	Standby sleep state
S4	Hibernate sleep state
S5	Shutdown sleep state
SPI	Serial Peripheral Interface
SW	Software
TCP	Transmission Control Protocol



Acronym	Description
UTC	Coordinated Universal Time
VA	Virtual Appliance
VLAN	Virtual LAN
WOL	Wake on LAN
WOX	Wake on Event

1.5 Related Documentation

Refer to the Intel® vPro™ Expert Center's user documentation page, available at the link below, for a collection of documents containing further information on the Intel® vPro provisioning process, including specific documents for implementing Intel vPro technology with a number of popular management consoles:

<http://communities.intel.com/openport/docs/DOC-1370>

In addition, please refer to the Intel vPro Expert Center at the link below for general information about Intel vPro technology:

<http://communities.intel.com/community/vproexpert>

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2 *Client System Requirements*

The client system referred to in this document is based on the Intel® 5 Series Chipset Family/Intel® PCH platform, and is managed by Intel Management Engine. The following firmware and software requirements are required to be installed and set up before the Intel® Management Engine can be configured and run in the client system:

- An SPI flash device programmed with Intel AMT 6.0 flash image integrating BIOS, Intel Management Engine and GbE component images
- BIOS set up with Intel AMT enabled
- To enable all of the Intel Management Engine features within Microsoft Operating System, device drivers (Intel® MEI/SOL/LMS) must be installed and configured on the client system for features to work/run correctly run in the client system

§



3 *Intel® ME Manageability Features*

The Intel MEBX menu for digital office SKUs provides platform level configuration options for the IT-administrator to configure the behavior of the Intel ME platform. The behavior includes platform configuration such as individual feature enable/disable and power configurations.

The following section provides the details on each Intel MEBX configuration option and the constraints, if any, for a given option.

Note: When you change Intel ME Platform Configuration settings, the changes are committed to the Intel ME's non-volatile memory when you exit from Intel MEBX (the changes are not cached). Therefore, if Intel MEBX crashes before you exit, the changes made until that point are **LOST** and the changed settings are **NOT** saved.

3.1 Access Intel® MEBX Configuration User Interface

The Intel MEBX configuration user interface can be accessed on a client system through the following steps:

1. On rebooting the system, after the initial boot screen, the following message will be displayed: **'Press <Ctrl-P> to enter MEBX Setup'**
2. Press **<Ctrl-P>**.

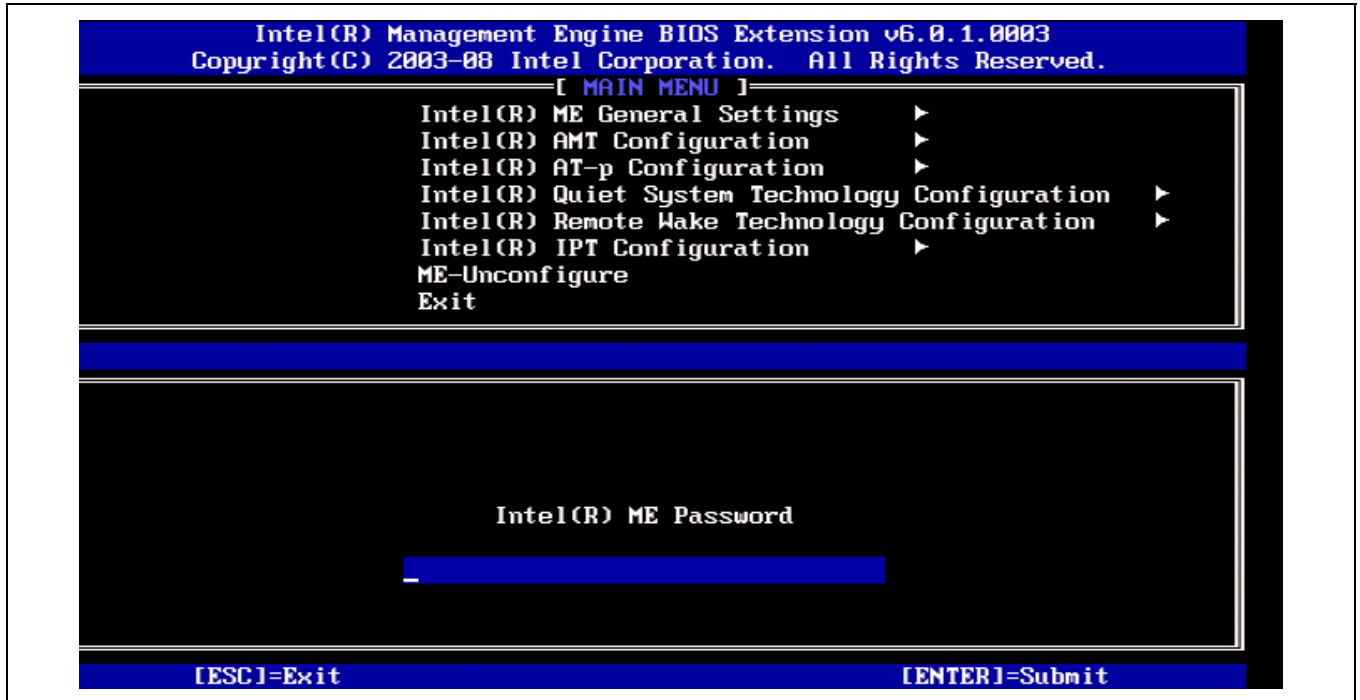
Note: To enter the Intel MEBX, press <Ctrl-P> as soon as possible, since this message is displayed for only a few seconds. . Also note that the OEM may replace the control character <Ctrl-P> with another one.

3. Enter the Intel Management Engine password under **'MEBX Password'**. Press Enter. The default password is 'admin'. This default password can be altered by the user. Please refer to section 3.3 for Intel® ME password details.
4. The Intel MEBX screen is displayed, as shown in section 3.2.



3.2 Intel® MEBX Main Menu

Figure 1: Intel MEBX Configuration User Interface Main Menu



The options displayed in the main menu can vary depending on OEM implementation decisions. The main menu selections are:

- Intel® ME General Settings
- Intel® AMT Configuration
- Intel® AT-p Configuration
- Intel® Quiet System Technology Configuration
- Intel® Remote Wake Technology Configuration
- Intel® IPT Configuration
- ME-Unconfigure
- Exit

If one or more of these options does not appear, verify that the system supports the relevant missing feature.

3.3 Change Intel® ME Password

The default password is “admin” and is configured identically on all newly deployed platforms. When an IT administrator first enters the Intel MEBX configuration menu with the default password, he or she must change the default password before any feature can be used.

The new Intel MEBX password must meet the following requirements for strong passwords:



1. **Password Length:** At least 8 characters, and no more than 32.
2. **Password Complexity:** Password must include the following:

At least one digit character ('0', '1', ... '9')

At least one 7-bit ASCII non alpha-numeric character (e.g. '!', '\$', ';'), but excluding ':', ',', and '"' characters.

At least one lower-case letter ('a', 'b'...'z') and at least one upper case letter ('A', 'B'...'Z').

Note: '_' (underscore) and ' ' (whitespace) are valid password characters but do NOT contribute to the password's complexity.

3.4 Intel® ME Platform Configuration Menu

Under the Intel MEBX main menu,

1. Select 'Intel® ME General Settings'.
2. Press Enter.

The following message is displayed: 'Acquiring General Settings configuration'.

The Intel MEBX main menu changes to the Intel ME Platform Configuration page. This page allows the IT administrator to configure the specific functionality of the Intel ME, such as password, power options, etc.

3.5 Intel® ME State Control

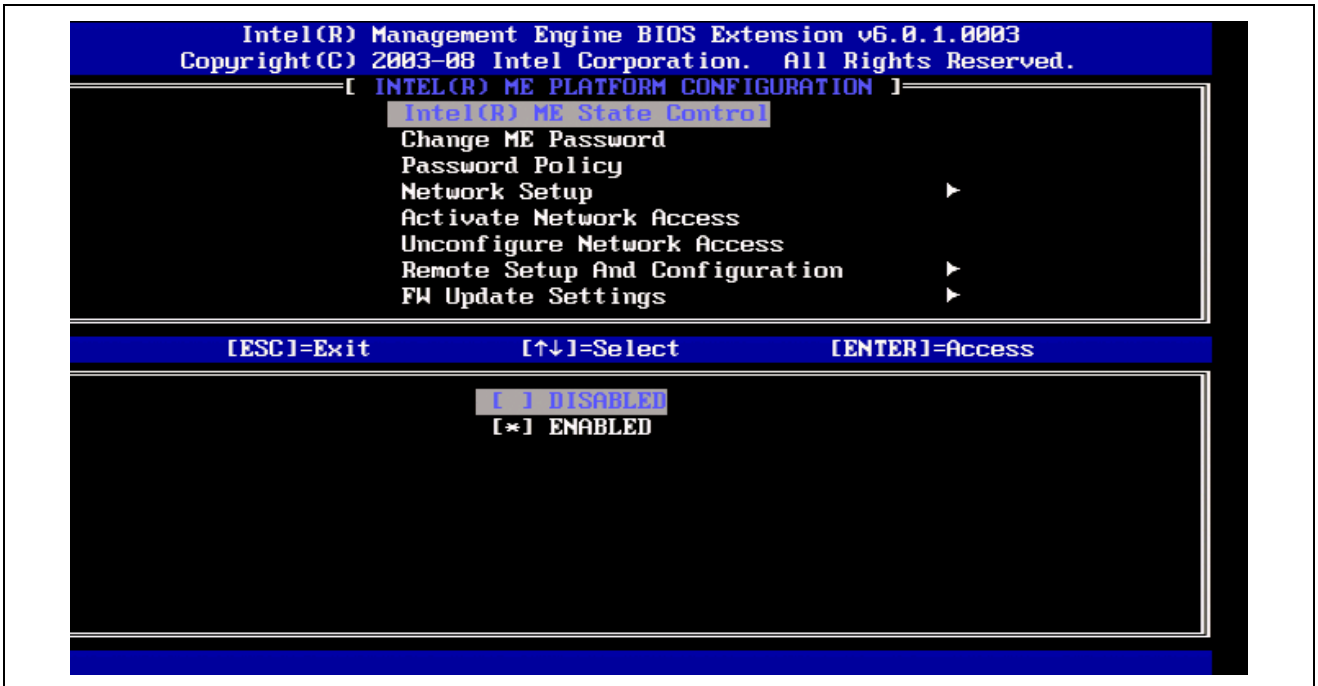
Under the Intel ME Platform Configuration menu,

1. Select 'Intel® ME State Control'.
2. Press Enter.



The Intel ME State Control menu is displayed as in Figure 2.

Figure 2: Intel ME State Control



The **Intel® ME State Control** option (**enable/disable**) provides the ability to disable the Intel ME for debugging purposes. Disabling the Intel ME through the MEBX prevents the Intel ME code from executing. This allows an IT technician to eliminate the Intel ME as the potential problem. Table 1 illustrates the details of the options.

Table 1: Intel ME Platform State Control

Option	Description
Enabled	Enable Intel Management Engine on the platform
Disabled	Disable Intel Management Engine on the platform

Note: “Disabling” the Intel ME does not really disable it: it causes the Intel ME code to be halted at an early stage of the Intel ME’s booting so that the system has no traffic originating from the Intel ME on any of the buses. This allows an IT technician to debug a system problem without any interference from the Intel ME.

3.6 Change Intel® ME Password

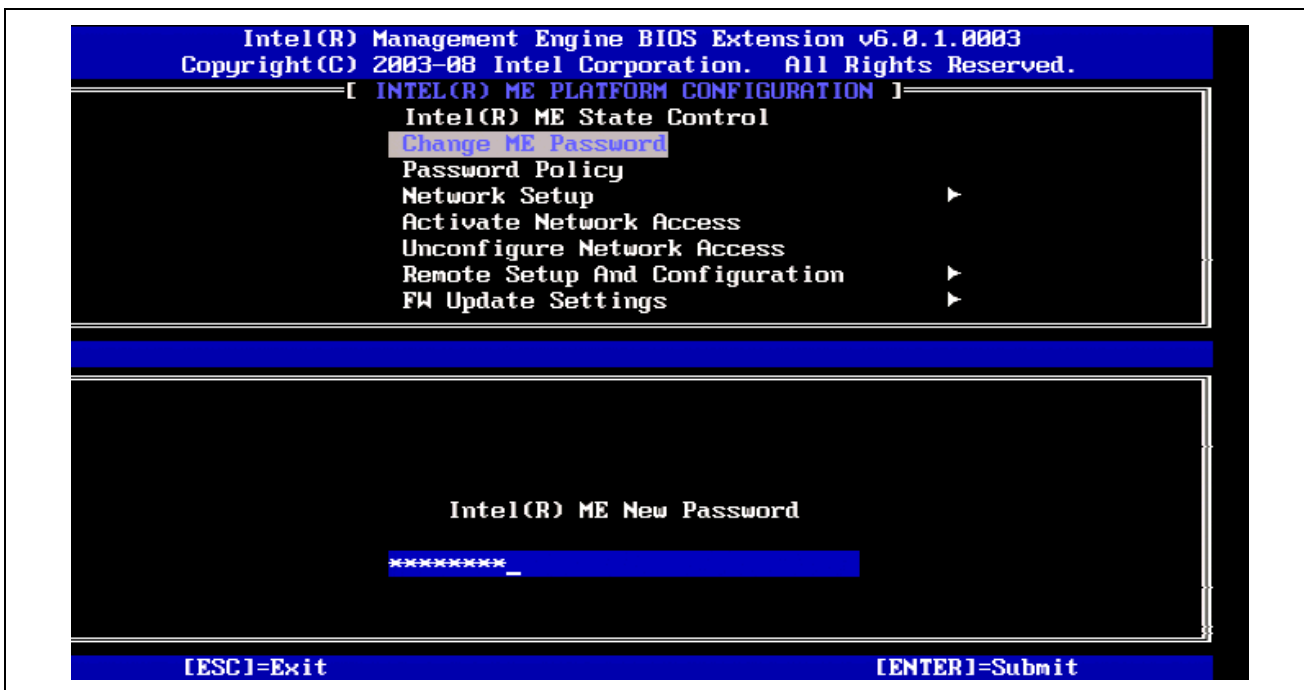
Under the Intel ME Platform Configuration menu,

1. Select ‘Change ME Password’.
2. Press Enter.



The Intel ME New Password prompt is displayed as in Figure 3.

Figure 3: Change Intel ME Password



1. At the Intel ME New Password prompt, enter your new password. (Please be aware of the password policies and restrictions mentioned in section 3.3)
2. At the Verify Password prompt, re-enter your new password.

Your password is now changed.

3.7 Password Policy

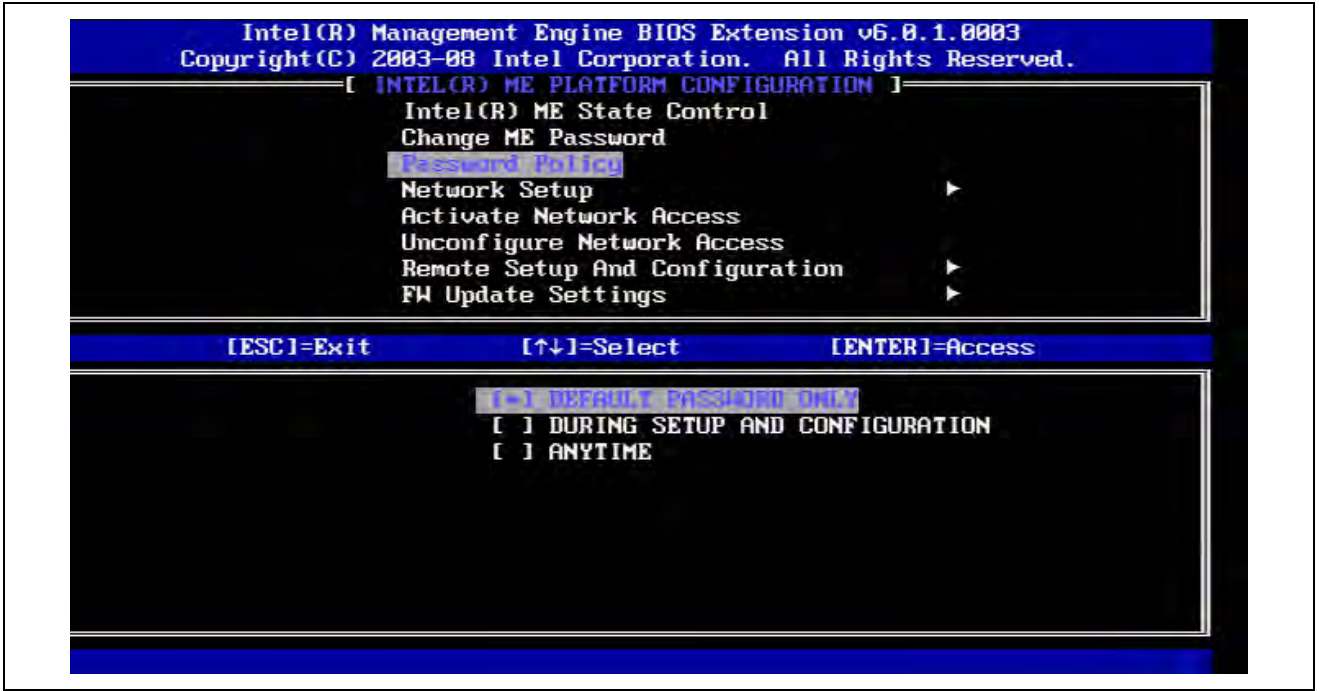
Under the Intel ME Platform Configuration menu,

1. Select 'Password Policy'.
2. Press Enter.



The password policies are displayed as in Figure 4.

Figure 4: Password Policy



This option determines when the user is allowed to change the MEBX password through the network. **Note:** The Intel MEBX password can always be changed via the Intel MEBX user interface.

Options:

Default Password Only – The Intel MEBX password can be changed through the network interface if the default password has not been changed yet.

During Setup and Configuration – The Intel MEBX password can be changed through the network interface during the setup and configuration process but at no other time. Once the setup and configuration process is complete, the Intel MEBX password cannot be changed via the network interface.

Anytime – The Intel MEBX password can be changed through the network interface at any time.

3.8 Network Setup

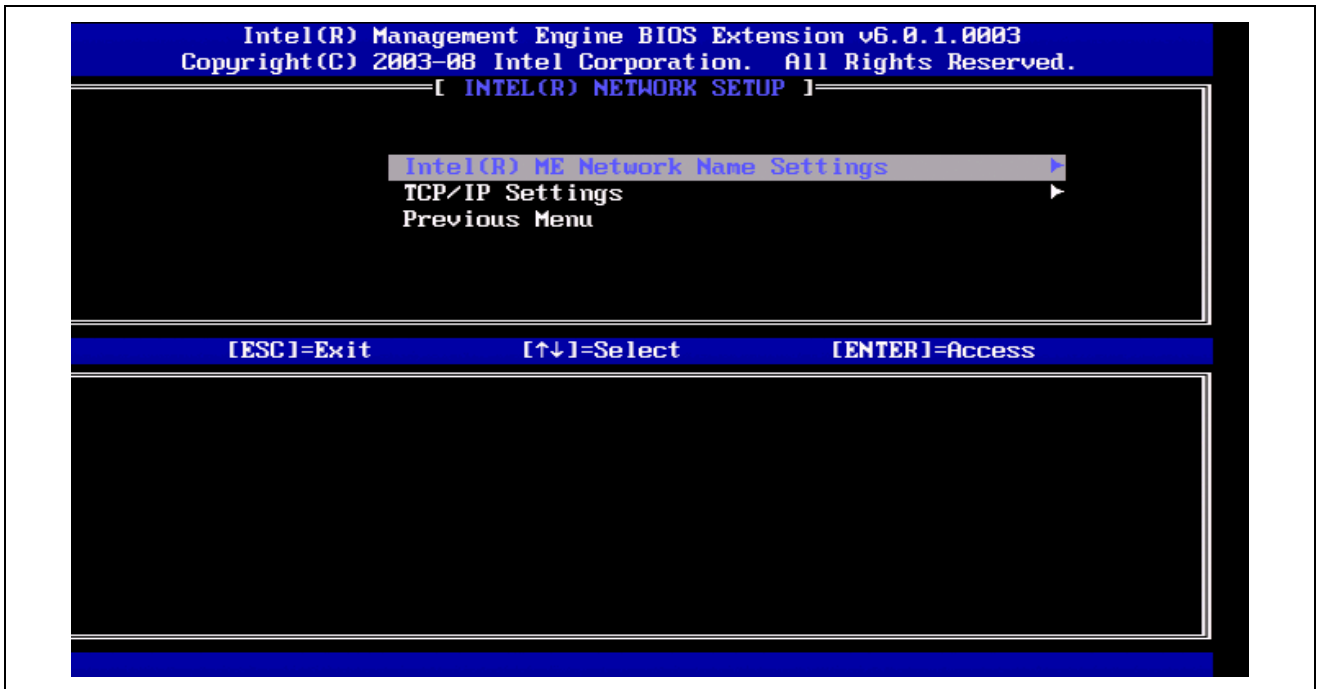
Under the Intel ME Platform Configuration menu,

1. Select 'Network Setup'.
2. Press Enter.

The Intel ME Platform Configuration menu changes to the Intel Network Setup page.



Figure 5: Intel Network Setup



3.8.1 Intel ME Network Name Settings

Under the Network Setup menu,

1. Select 'Intel ME Network Name Settings'.
2. Press Enter.

The Intel Network Setup menu changes to the Intel ME Network Name Settings page.

3.8.1.1 Host Name

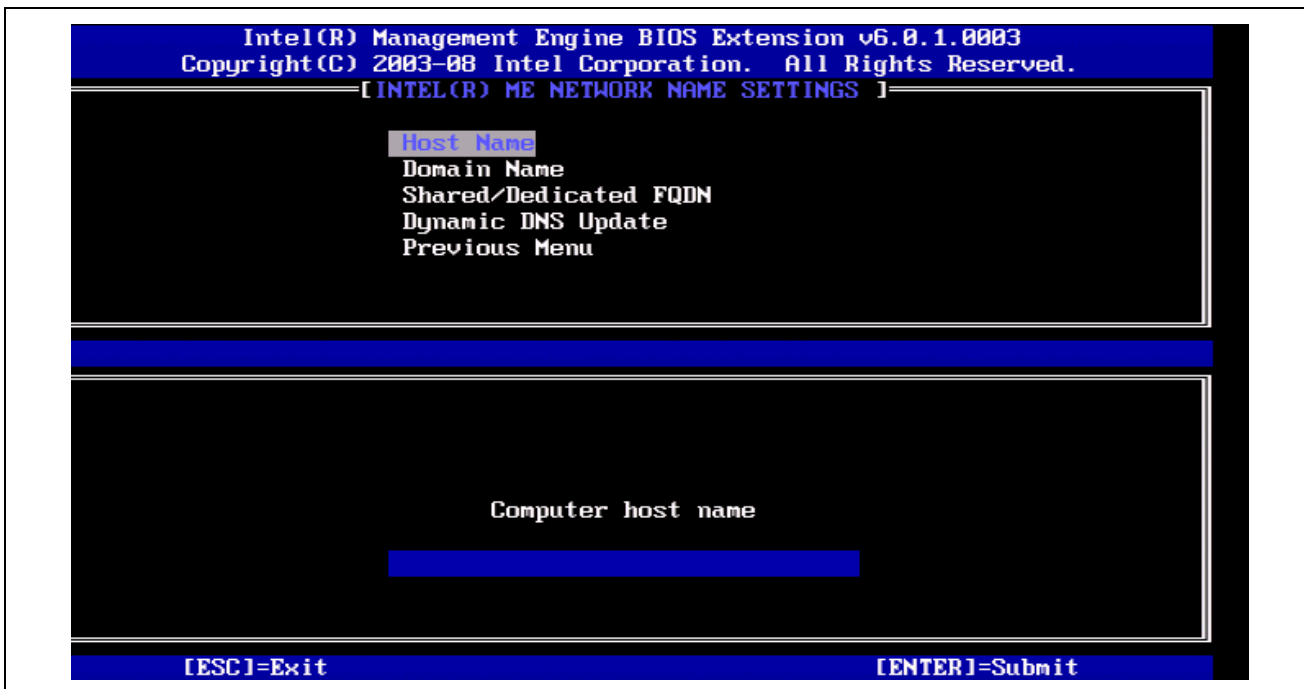
Under the Intel ME Network Name Settings,

1. Select 'Host Name'.
2. Press Enter.

The Computer Host Name prompt is displayed as in Figure 6.



Figure 6: Host Name



A host name can be assigned to the Intel AMT machine. This will be the hostname of the Intel AMT enabled system. If Intel AMT is set to DHCP, the host name MUST be identical to the operating system machine name.

3.8.1.2 Domain Name

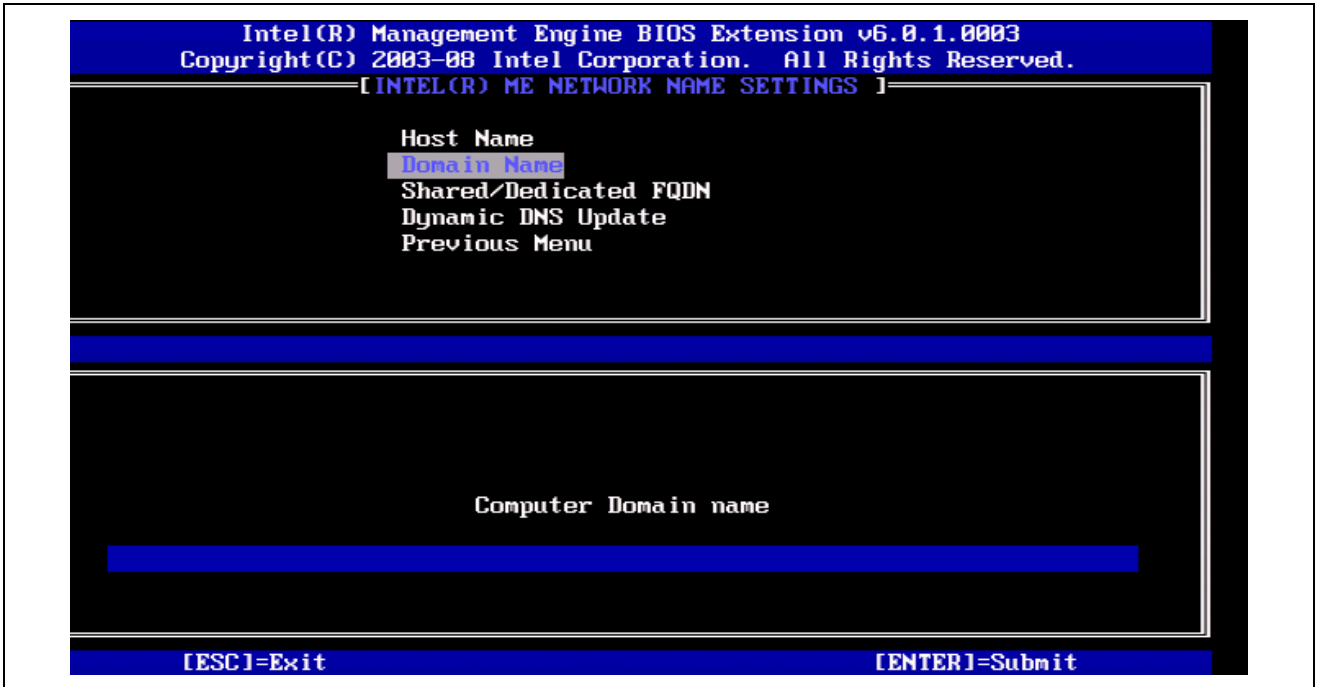
Under the Intel ME Network Name Settings,

1. Select 'Domain Name'.
2. Press Enter.

The Computer Domain Name prompt is displayed as in Figure 7.



Figure 7: Domain Name



A domain name can be assigned to the Intel AMT machine.

3.8.1.3 Shared/Dedicated FQDN

Under the Intel ME Network Name Settings,

1. Select 'Shared/Dedicated FQDN'.
2. Press Enter.



Figure 8: Shared/Dedicated FQDN

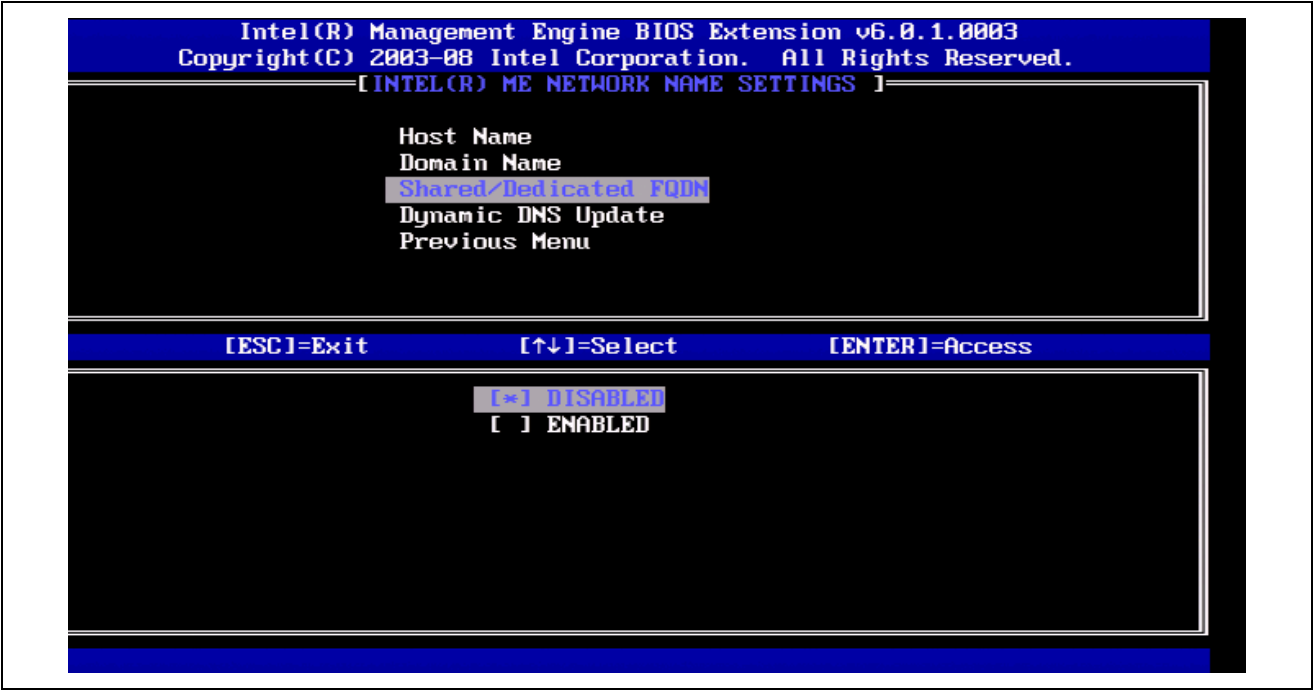


Table 2: Shared/Dedicated FQDN

Option	Description
Enabled	The domain name is shared with the Host
Disabled	The domain name is dedicated to ME

To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

1. Select 'Enabled ID'.
2. Press Enter.

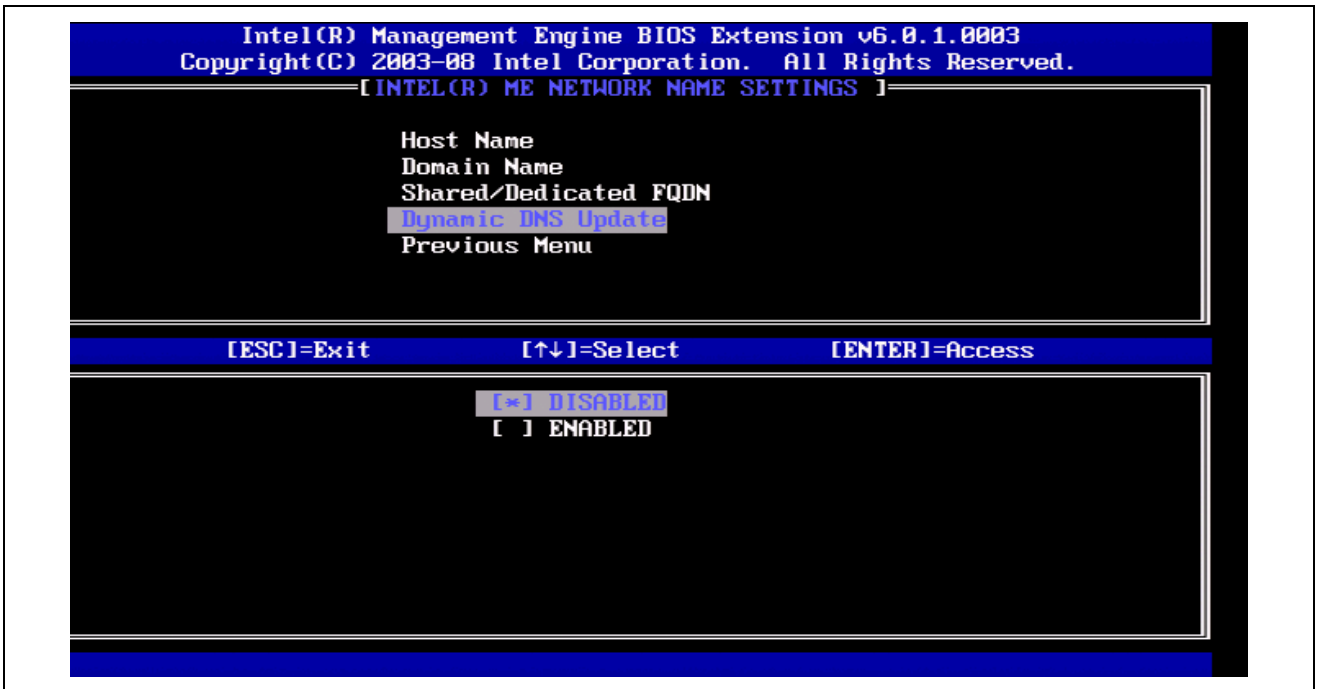
3.8.1.4 Dynamic DNS Update

Under the Intel ME Network Name Settings,

1. Select 'Dynamic DNS Update'.
2. Press Enter.



Figure 9: Dynamic DNS Update



If the DDNS Update client in FW is disabled then FW will only support updating DNS by using DHCP option 81 as it has for Pre-AT6 FW versions. The domain name is shared with the Host

Table 3: Dynamic DNS Update

Option	Description
Enabled	The Dynamic DNS Update Client in FW is enabled.
Disabled	The Dynamic DNS Update Client in FW is disabled.

To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

1. Select 'Enabled ID'.
2. Press Enter.

3.8.1.5 Previous Menu

Under the Intel ME Network Name Settings,

1. Select 'Previous Menu'.
2. Press Enter.



The Intel ME Network Name Settings menu changes to the Intel Network Setup page.

3.8.2 TCP/IP Settings

Under the Network Setup menu,

1. Select 'TCP/IP Settings'.
2. Press Enter.

The Intel Network Setup menu changes to the TCP/IP Settings page.

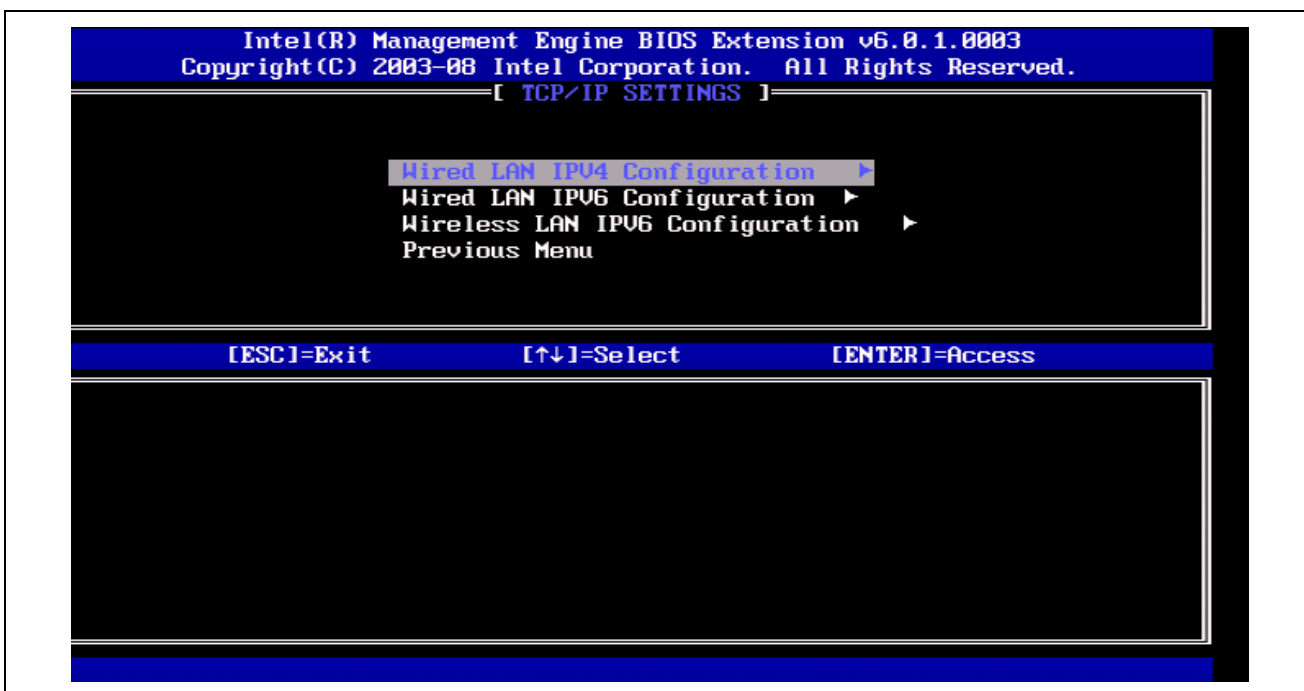
3.8.2.1 Wired LAN IPV4 Configuration

Under the TCP/IP Settings,

1. Select 'Wired LAN IPV4 Configuration'.
2. Press Enter.

The TCP/IP Settings menu changes to the Wired LAN IPV4 Configuration page.

Figure 10: Wired LAN IPV4 Configuration



3.8.2.1.1 DHCP Mode

Under the Wired LAN IPV4 Configuration,

1. Select 'DHCP Mode'.
2. Press Enter.



Figure 11: DHCP Mode Enabled

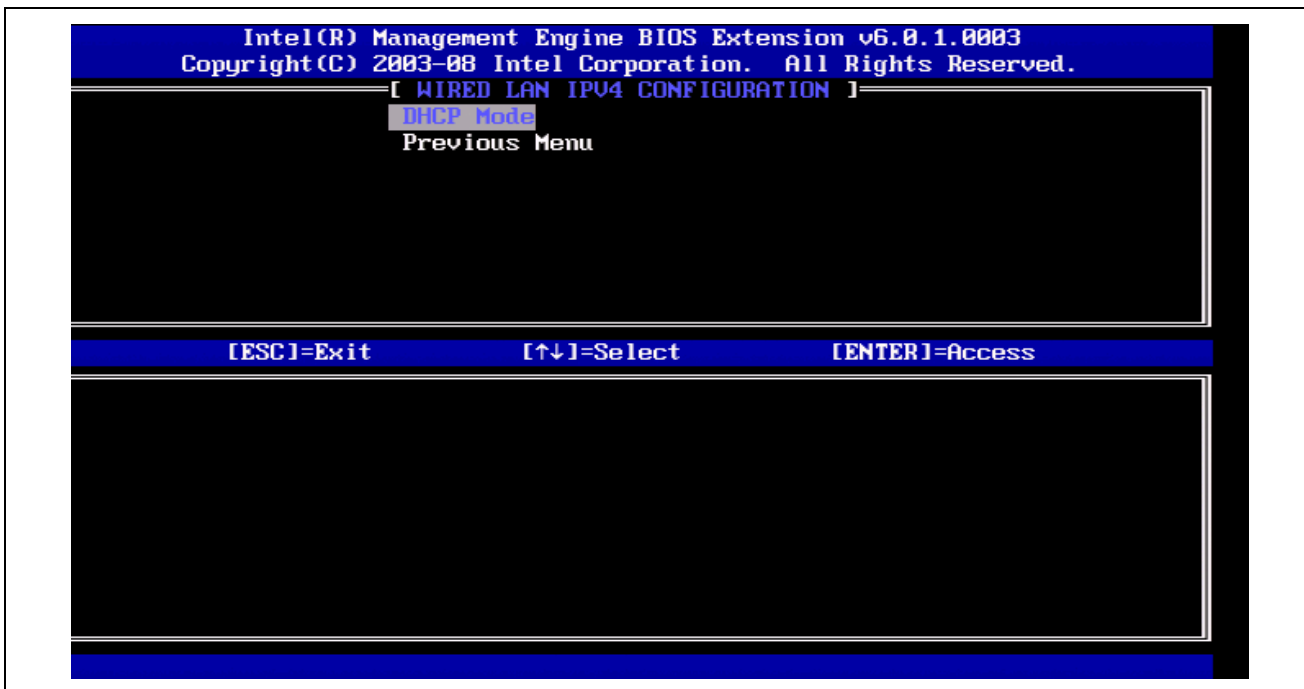
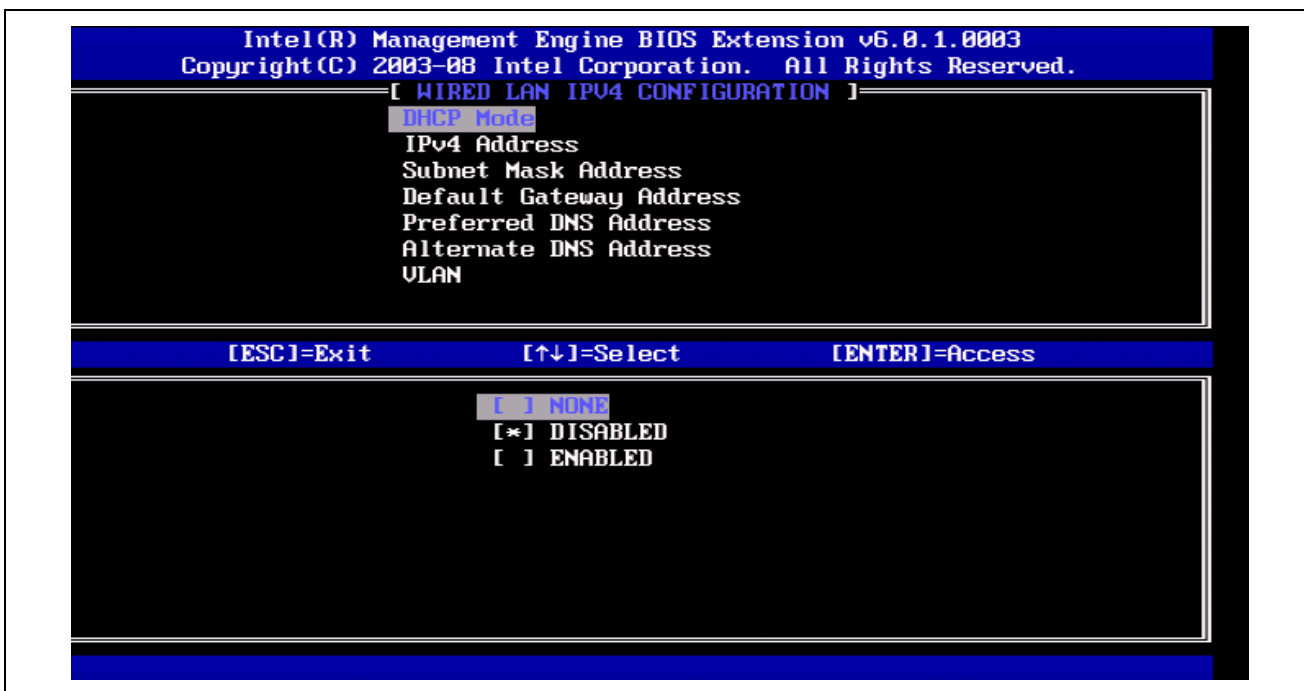


Figure 12: DHCP Mode Disabled





The following options can be selected:

NONE - No DHCP mode shall be available

DISABLED - If DHCP mode is disabled, the following static TCP/IP settings are required for Intel AMT. If a system is in static mode the system may require a second IP address. This IP address, often called the Intel ME IP address may be different from the host IP address.

ENABLED - If DHCP Mode is enabled, TCP/IP settings will be configured by a DHCP server. More option will be made available on the screen

To select NONE:

1. Select 'NONE'.
2. Press Enter.

No additional steps are required.

To select ENABLED:

1. Select 'ENABLED'.
2. Press Enter.

No additional steps are required.

To select DISABLED:

1. Select 'DISABLED'.
2. Press Enter.

The following menu will appear

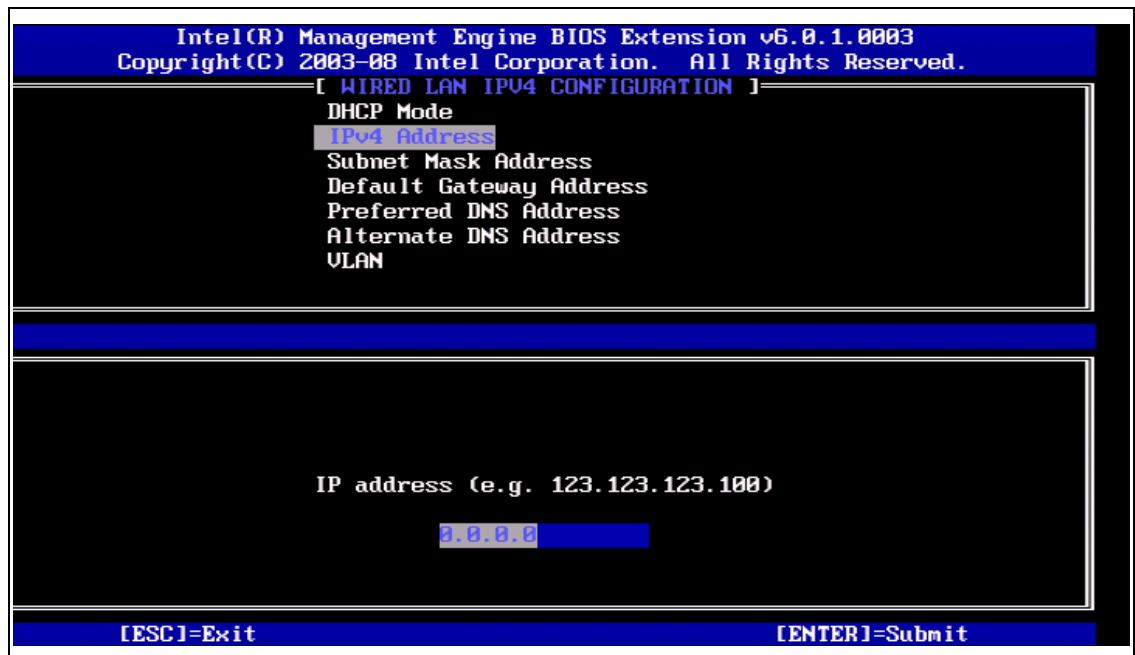


3.8.2.1.2 IPv4 Address

Under the Wired LAN IPV4 Configuration,

1. Select 'IPv4 Address'.
2. Press Enter.

Figure 13: IPv4 Address



1. Enter the IPv4 Address.
2. Press Enter.



3.8.2.1.3 Subnet Mask Address

Under the Wired LAN IPV4 Configuration,

1. Select 'Subnet Mask Address'.
2. Press Enter.

Figure 14: Subnet Mask Address

The screenshot displays the 'WIRED LAN IPV4 CONFIGURATION' menu. The 'Subnet Mask Address' option is highlighted. Below the menu, a large text area shows 'Subnet mask Address(e.g. 255.255.255.0)' with the input '0.0.0.0' in a blue box. At the bottom, navigation instructions are provided: '[ESC]=Exit' and '[ENTER]=Submit'.

```
Intel(R) Management Engine BIOS Extension v6.0.1.0003
Copyright(C) 2003-08 Intel Corporation. All Rights Reserved.
[ WIRED LAN IPV4 CONFIGURATION ]
DHCP Mode
IPv4 Address
Subnet Mask Address
Default Gateway Address
Preferred DNS Address
Alternate DNS Address
VLAN

Subnet mask Address(e.g. 255.255.255.0)
0.0.0.0

[ESC]=Exit [ENTER]=Submit
```

3. Enter the Subnet Mask Address.
4. Press Enter.



3.8.2.1.4 Default Gateway Address

Under the Wired LAN IPV4 Configuration,

1. Select 'Default Gateway Address'.
2. Press Enter.

Figure 15: Default Gateway Address

```
Intel(R) Management Engine BIOS Extension v6.0.1.0003
Copyright(C) 2003-08 Intel Corporation. All Rights Reserved.
[ WIRED LAN IPV4 CONFIGURATION ]
DHCP Mode
IPv4 Address
Subnet Mask Address
Default Gateway Address
Preferred DNS Address
Alternate DNS Address
VLAN

Default Gateway Address
0.0.0.0

[ESC]=Exit [ENTER]=Submit
```

3. Enter the Default Gateway Address.
4. Press Enter.



3.8.2.1.5 Preferred DNS Address

Under the Wired LAN IPV4 Configuration,

1. Select 'Preferred DNS Address'.
2. Press Enter.

Figure 16: Preferred DNS Address

Intel(R) Management Engine BIOS Extension v6.0.1.0003
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[WIRED LAN IPV4 CONFIGURATION]

DHCP Mode
IPv4 Address
Subnet Mask Address
Default Gateway Address
Preferred DNS Address
Alternate DNS Address
VLAN

Preferred DNS Address

0.0.0.0

[ESC]=Exit [ENTER]=Submit

3. Enter the Preferred DNS Address.
4. Press Enter.



3.8.2.1.6 Alternate DNS Address

Under the Wired LAN IPV4 Configuration,

1. Select 'Alternate DNS Address'.
2. Press Enter.

Figure 17: Alternate DNS Address

The screenshot displays the Intel(R) Management Engine BIOS Extension v6.0.1.0003 interface. At the top, it shows the copyright notice: Copyright(C) 2003-08 Intel Corporation. All Rights Reserved. Below this, the menu is titled [WIRED LAN IPV4 CONFIGURATION]. The options listed are DHCP Mode, IPv4 Address, Subnet Mask Address, Default Gateway Address, Preferred DNS Address, Alternate DNS Address (which is highlighted), and VLAN. A horizontal blue bar separates this menu from the configuration area below. In the configuration area, the text 'Alternate DNS Address' is centered, followed by a text input field containing '0.0.0.0'. At the bottom of the screen, a blue bar contains the instructions [ESC]=Exit and [ENTER]=Submit.

3. Enter the Alternate DNS Address.
4. Press Enter.

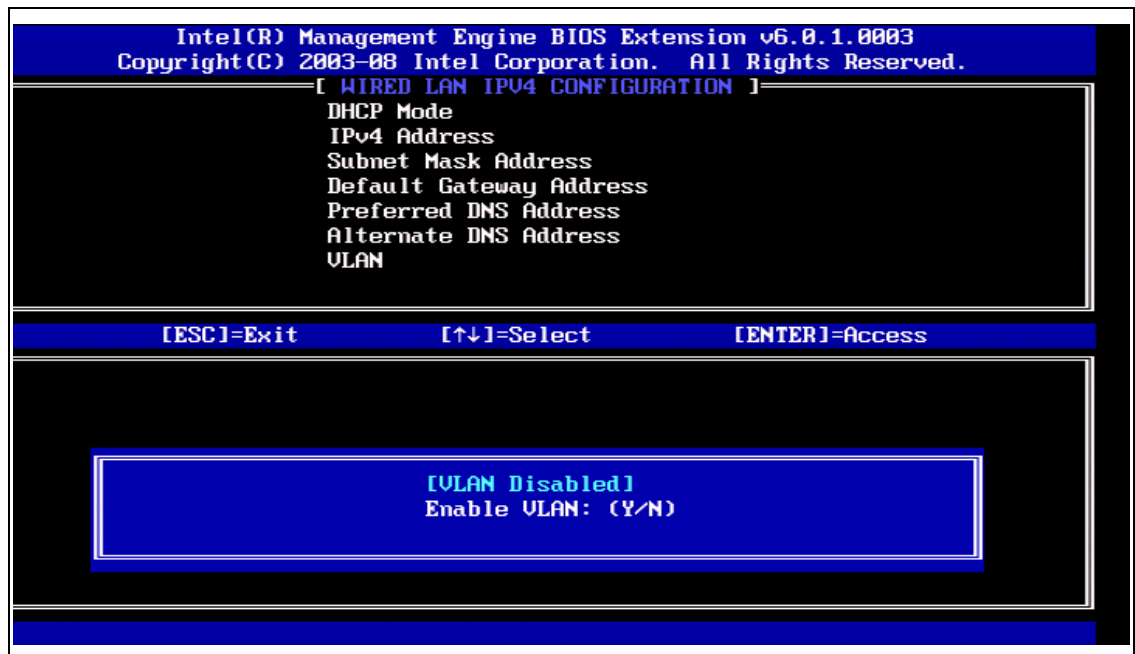


3.8.2.1.7 VLAN

Under the Wired LAN IPV4 Configuration,

1. Select 'VLAN'.
2. Press Enter.

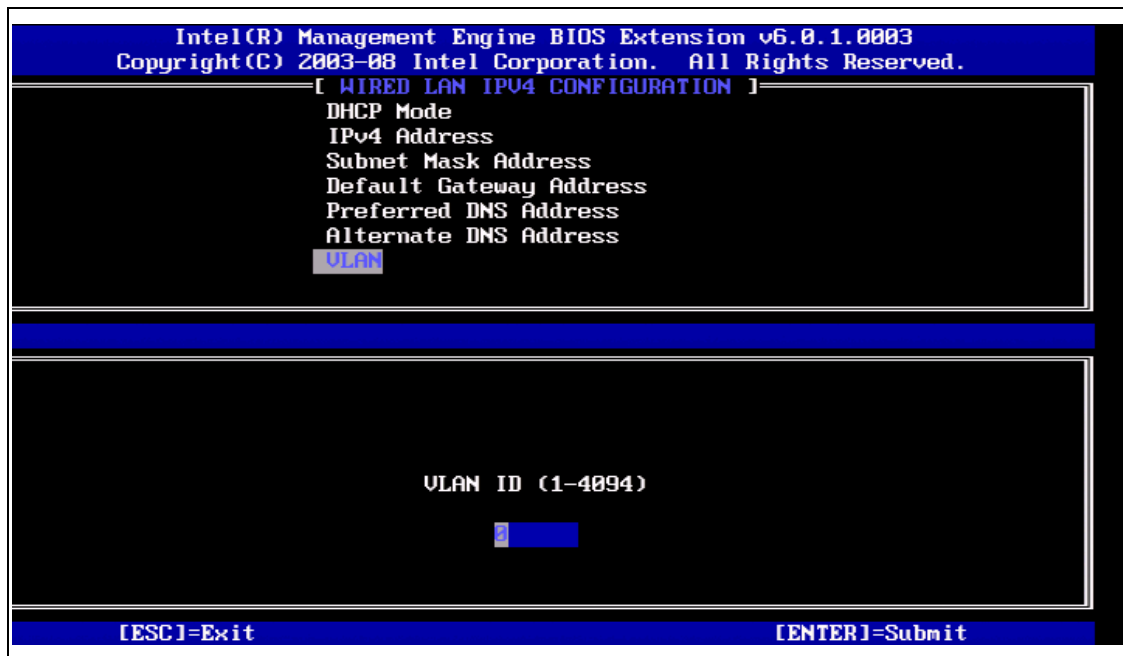
Figure 18: VLAN Enable/Disable



3. Follow the prompt to either enable or disable VLAN mode.
4. When selecting 'enable', the following screen is displayed.



Figure 19: VLAN ID



5. Enter the VLAN ID.
6. Press Enter.

3.8.2.1.8 Previous Menu

Under the Wired LAN IPV4 Configuration,

1. Select 'Previous Menu'.
2. Press Enter.

The Wired LAN IPV4 Configuration menu changes to the TCP/IP Settings menu.



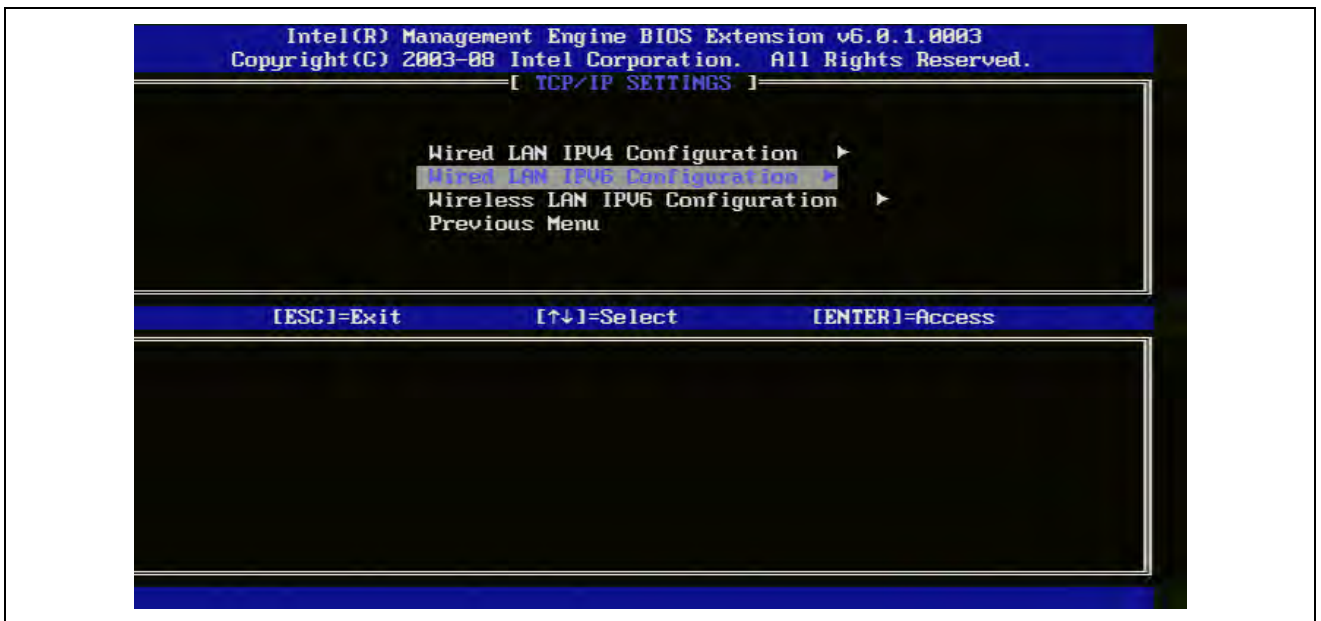
3.8.2.2 Wired LAN IPV6 Configuration

Under the TCP/IP Settings,

3. Select 'Wired LAN IPV6 Configuration'.
4. Press Enter.

The TCP/IP Settings menu changes to the Wired LAN IPV6 Configuration page.

Figure 20: Wired LAN IPV6 Configuration





3.8.2.2.1 IPv6 Feature Selection

Under the Wired LAN IPV6 Configuration,

1. Select 'IPv6 Feature Selection'.
2. Press Enter.

Figure 21: IPv6 Feature Selection

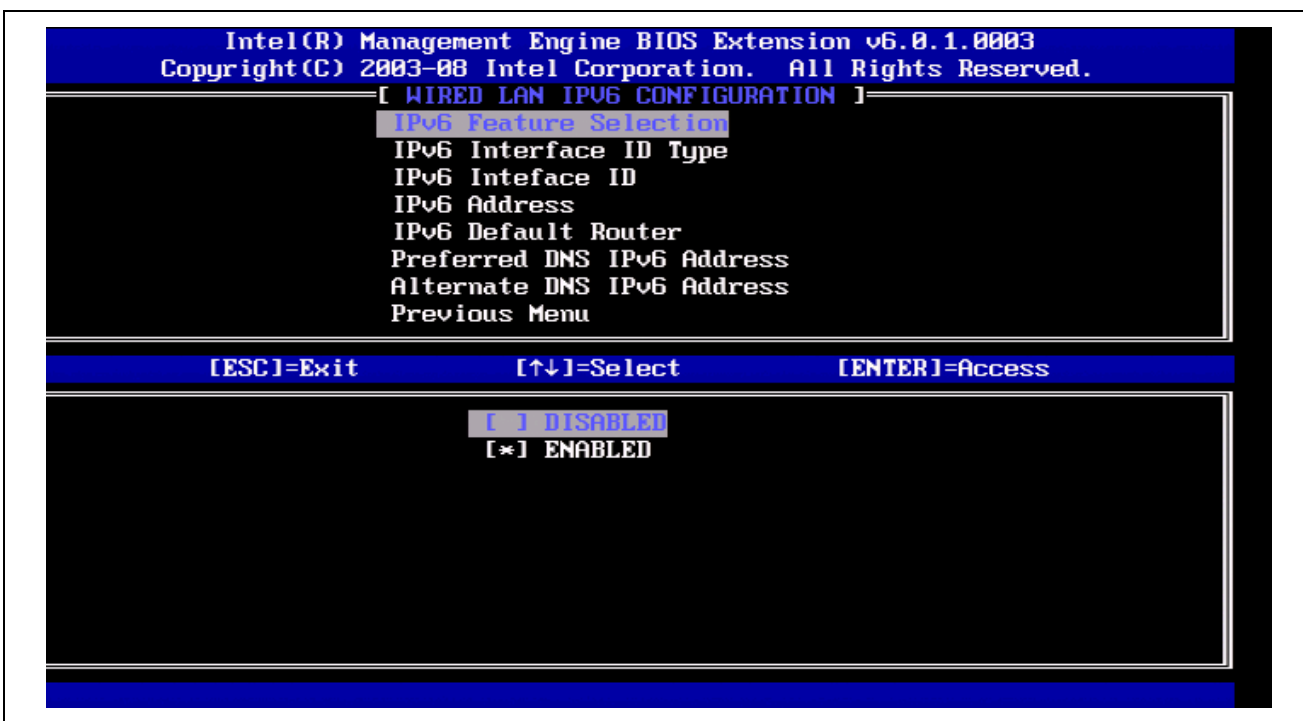


Table 4: IPv6 Feature Selection

Option	Description
Enabled	The IPv6 interface is currently enabled.
Disabled	The IPv6 interface is currently disabled.

To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

1. Select 'Enabled ID'.
2. Press Enter.

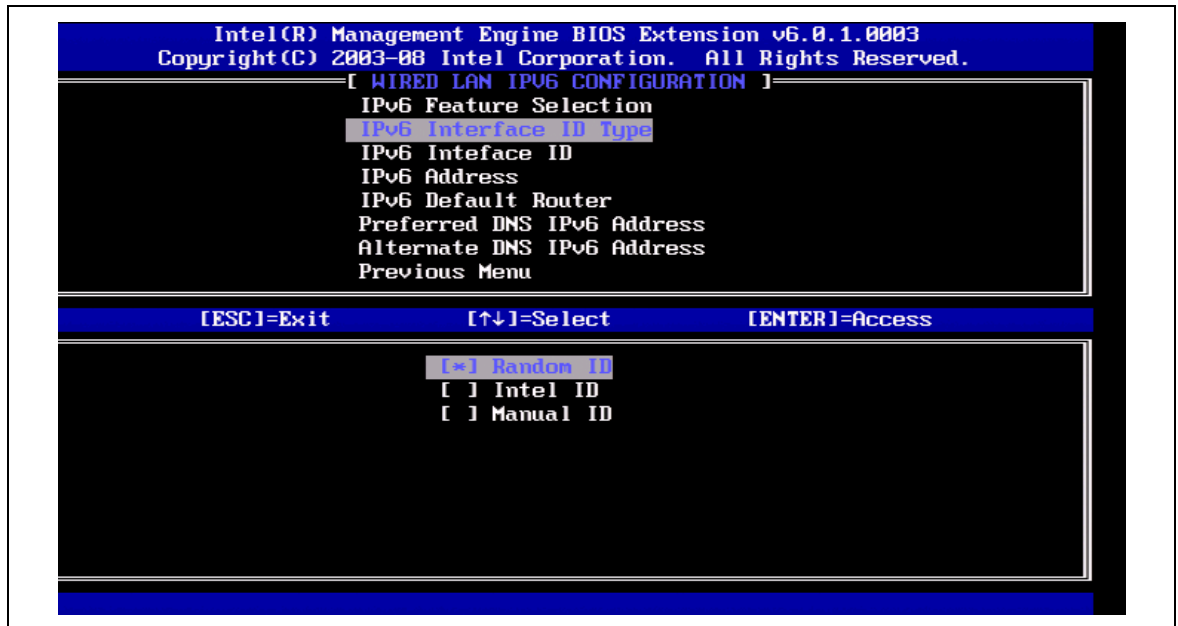


3.8.2.2.2 IPv6 Interface ID Type

Under the Wired LAN IPv6 Configuration,

1. Select 'IPv6 Interface ID Type'.
2. Press Enter.

Figure 22: IPv6 Interface ID Type



An auto-configured IPv6 address consists of two parts, the IPv6 Prefix set by the IPv6 router is the first and the interface ID is following part (64 bits each).

The following options can be selected:

RANDOM ID - The IPv6 Interface ID is automatically generated using a random number as described in RFC 3041. This is the default.

Intel ID - The IPv6 Interface ID is automatically generated using the MAC address.

Manual ID - The IPv6 Interface ID is configured manually. Selecting this type requires that the Manual Interface ID is set with a valid value.

To select Random ID:

1. Select 'Random ID'.
2. Press Enter.

No additional steps are required.

To select Intel ID:

1. Select 'Intel ID'.
2. Press Enter.

No additional steps are required.



To select Manual ID:

1. Select 'Manual ID'.
2. Press Enter.

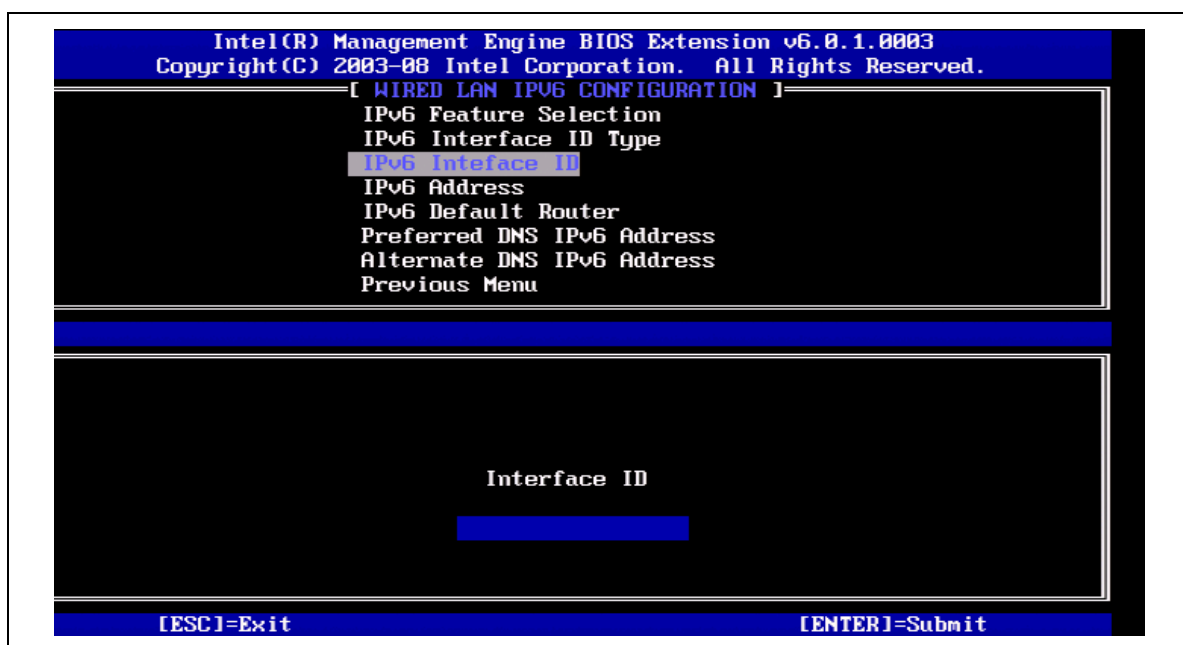
No additional steps are required.

3.8.2.2.3 IPv6 Interface ID

Under the Wired LAN IPv6 Configuration,

1. Select 'IPv6 Interface ID'.
2. Press Enter.

Figure 23: IPv6 Interface ID



3. Enter the Interface ID.
4. Press Enter.

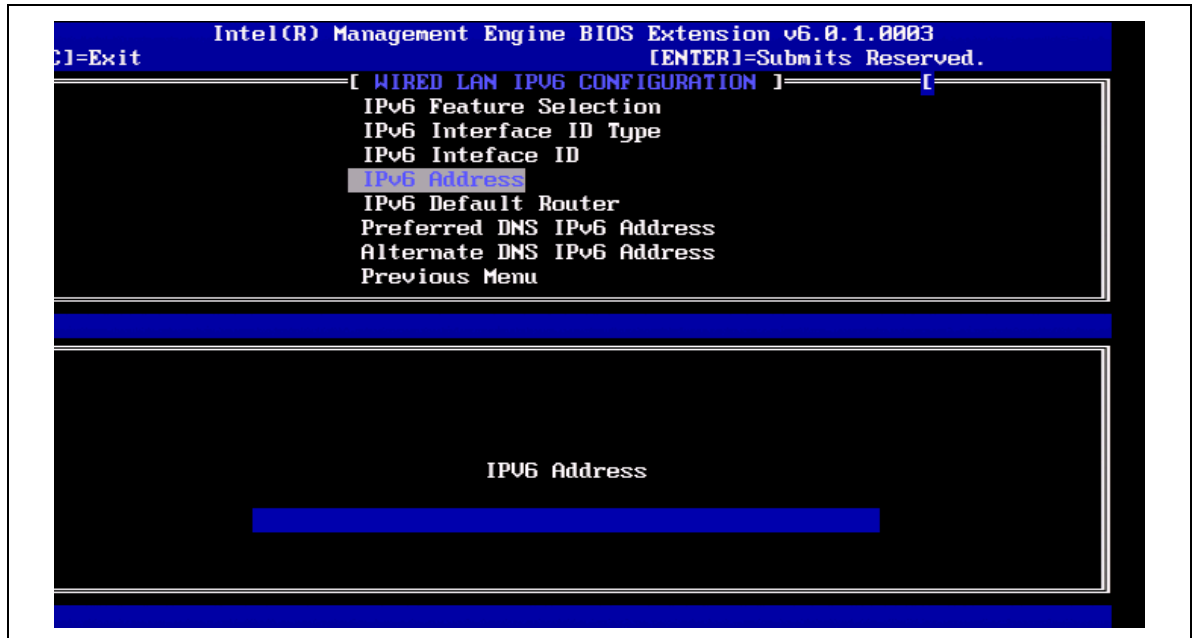


3.8.2.2.4 IPv6 Address

Under the Wired LAN IPV6 Configuration,

1. Select 'IPv6 Address'.
2. Press Enter.

Figure 24: IPv6 Address



3. Enter the IPv6 Address.
4. Press Enter.

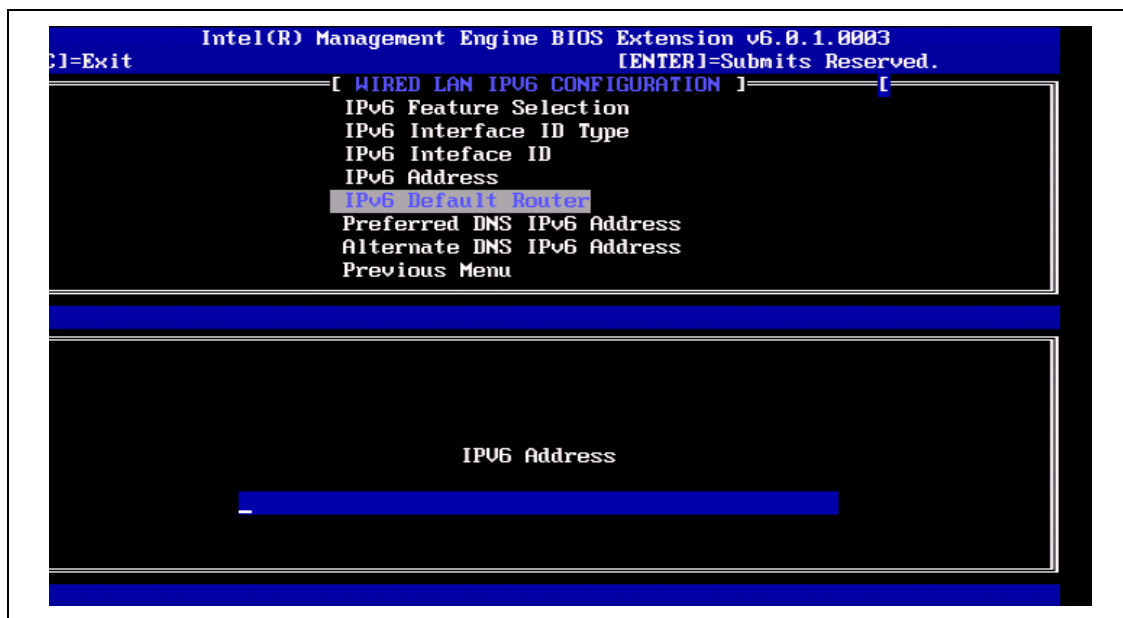


3.8.2.2.5 IPv6 Default Router

Under the Wired LAN IPV6 Configuration,

1. Select 'IPv6 Default Router'.
2. Press Enter.

Figure 25: IPv6 Default Router



3. Enter the IPv6 Default Router.
4. Press Enter.

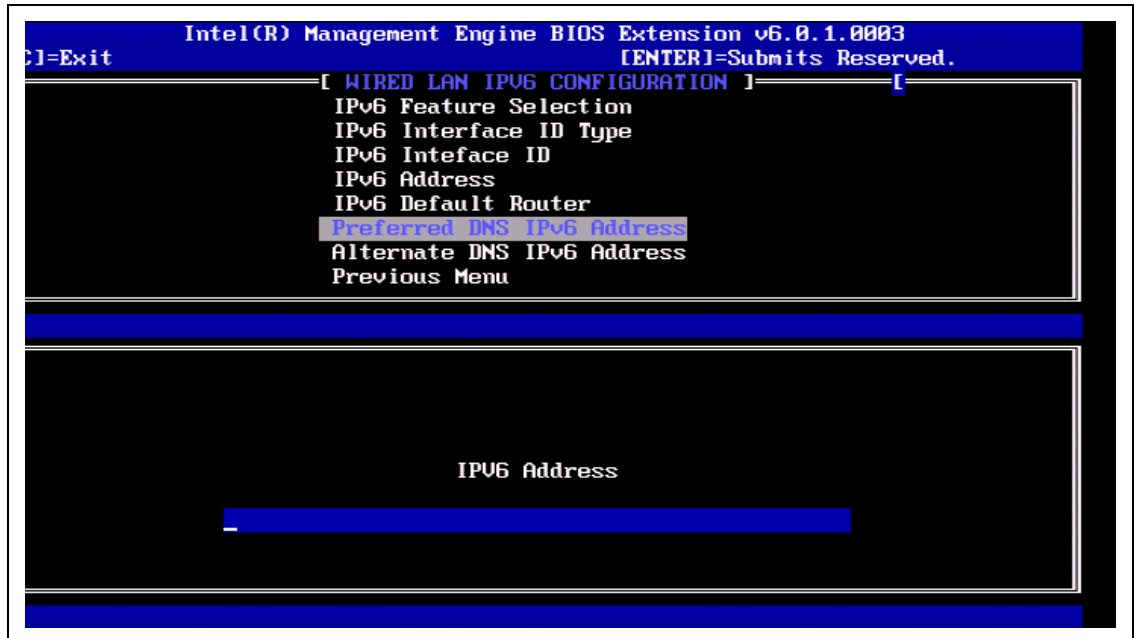


3.8.2.2.6 Preferred DNS IPv6 Address

Under the Wired LAN IPv6 Configuration,

1. Select 'Preferred DNS IPv6 Address'.
2. Press Enter.

Figure 26: Preferred DNS IPv6 Address



3. Enter the Preferred DNS IPv6 Address.
4. Press Enter.

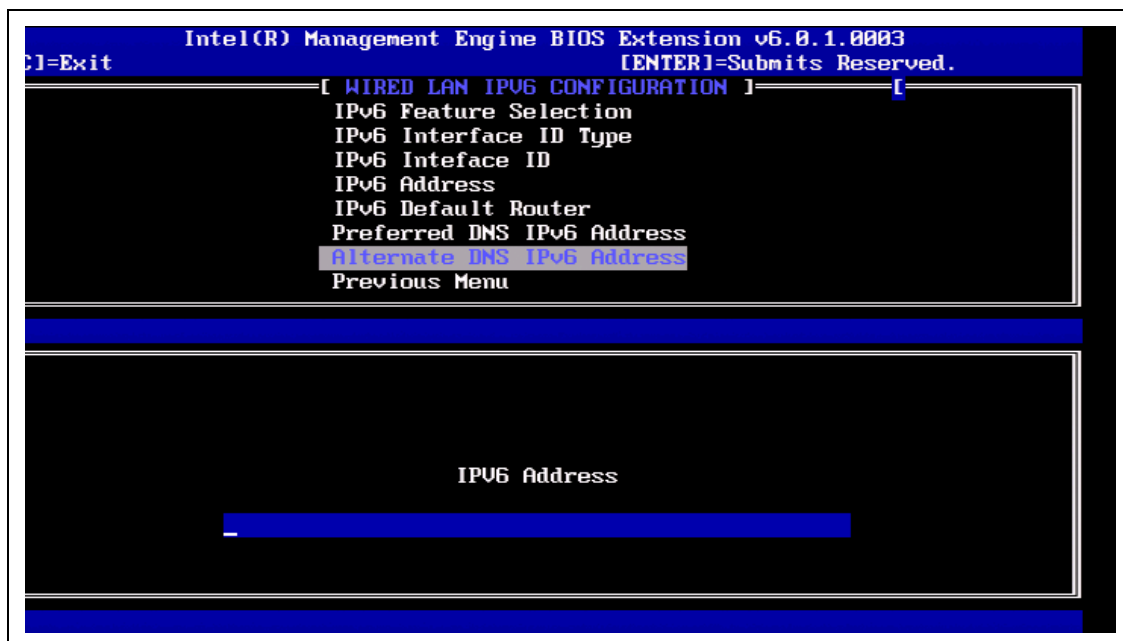


3.8.2.2.7 Alternate DNS IPv6 Address

Under the Wired LAN IPV6 Configuration,

1. Select 'Alternate DNS IPv6 Address'.
2. Press Enter.

Figure 27: Alternate DNS IPv6 Address



3. Enter the Alternate DNS IPv6 Address.
4. Press Enter.

3.8.2.2.8 Previous Menu

Under the Wired LAN IPV6 Configuration,

1. Select 'Previous Menu'.
2. Press Enter.

The Wired LAN IPV6 Configuration menu changes to the TCP/IP Settings menu.



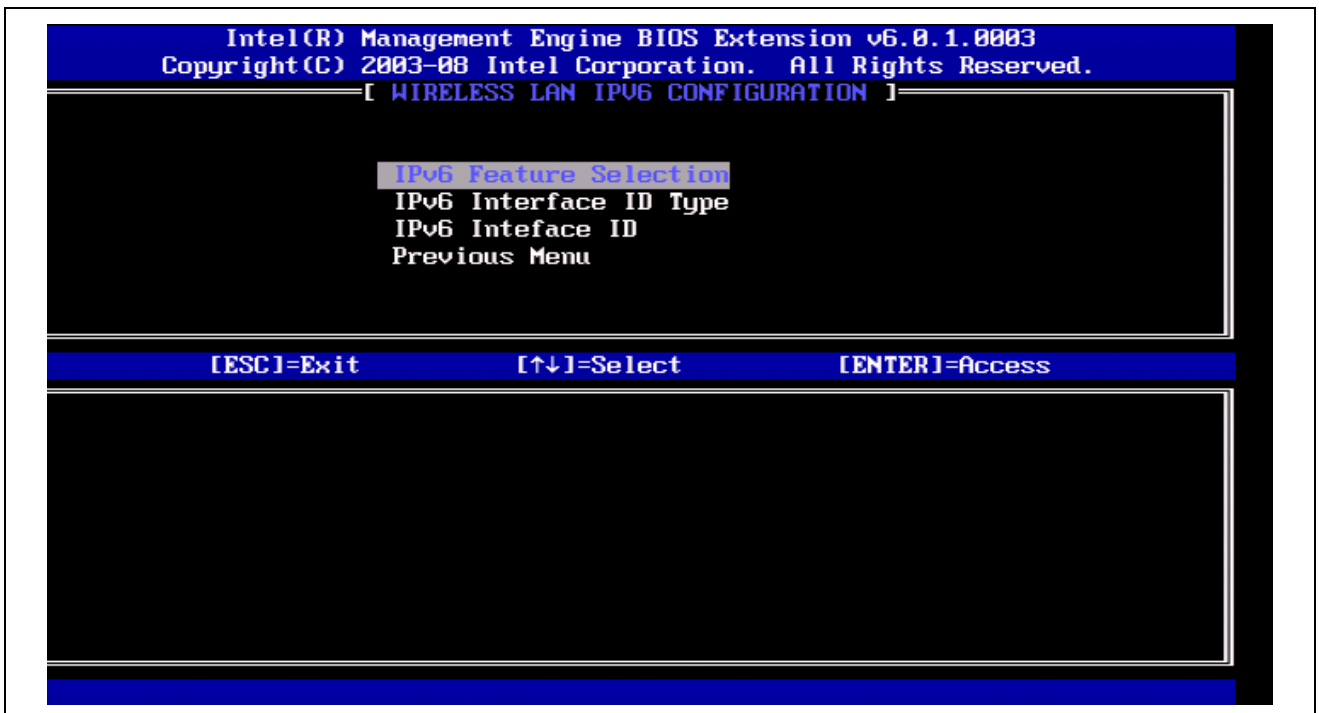
3.8.2.3 Wireless LAN IPV6 Configuration

Under the TCP/IP Settings,

1. Select 'Wireless LAN IPV6 Configuration'.
2. Press Enter.

The TCP/IP Settings menu changes to the Wireless LAN IPV6 Configuration page.

Figure 28: Wireless LAN IPV6 Configuration





3.8.2.3.1 IPv6 Feature Selection

Under the Wireless LAN IPV6 Configuration,

1. Select 'IPv6 Feature Selection'.
2. Press Enter.

Figure 29: IPv6 Feature Selection

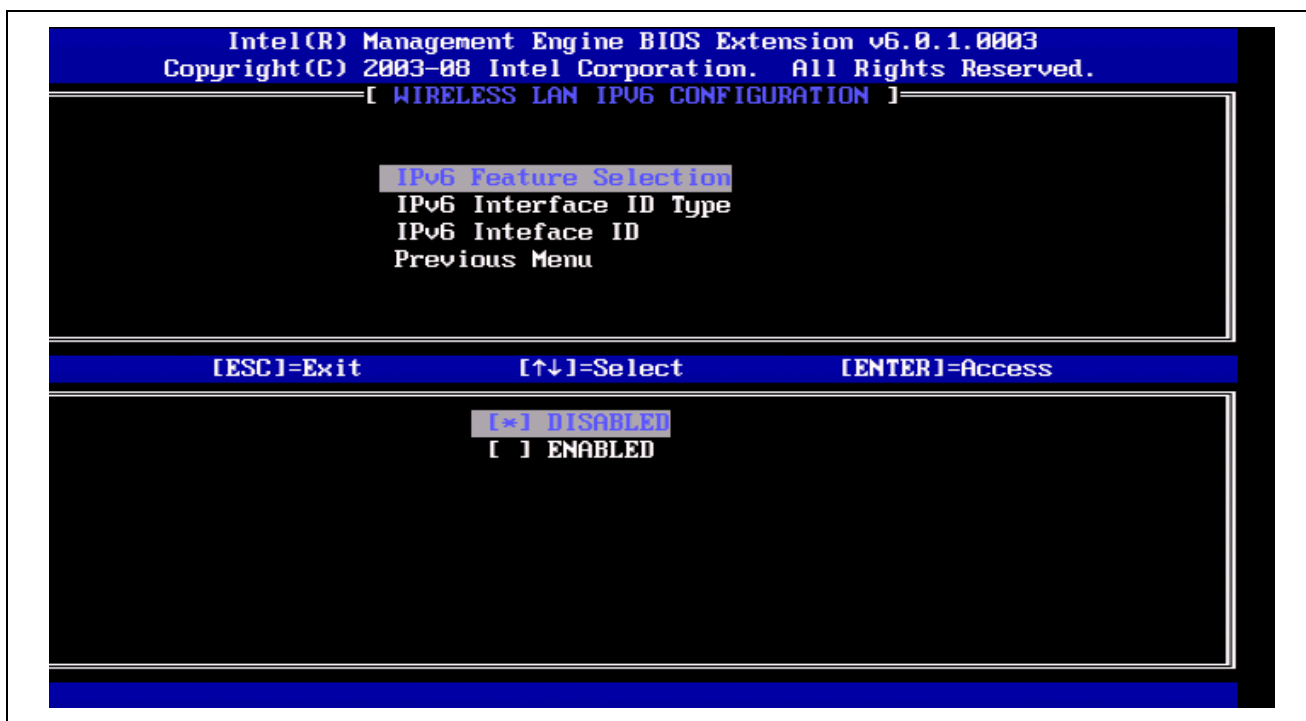


Table 5: IPv6 Feature Selection

Option	Description
Enabled	The IPv6 interface is currently enabled.
Disabled	The IPv6 interface is currently disabled.

To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

1. Select 'Enabled ID'.
2. Press Enter.

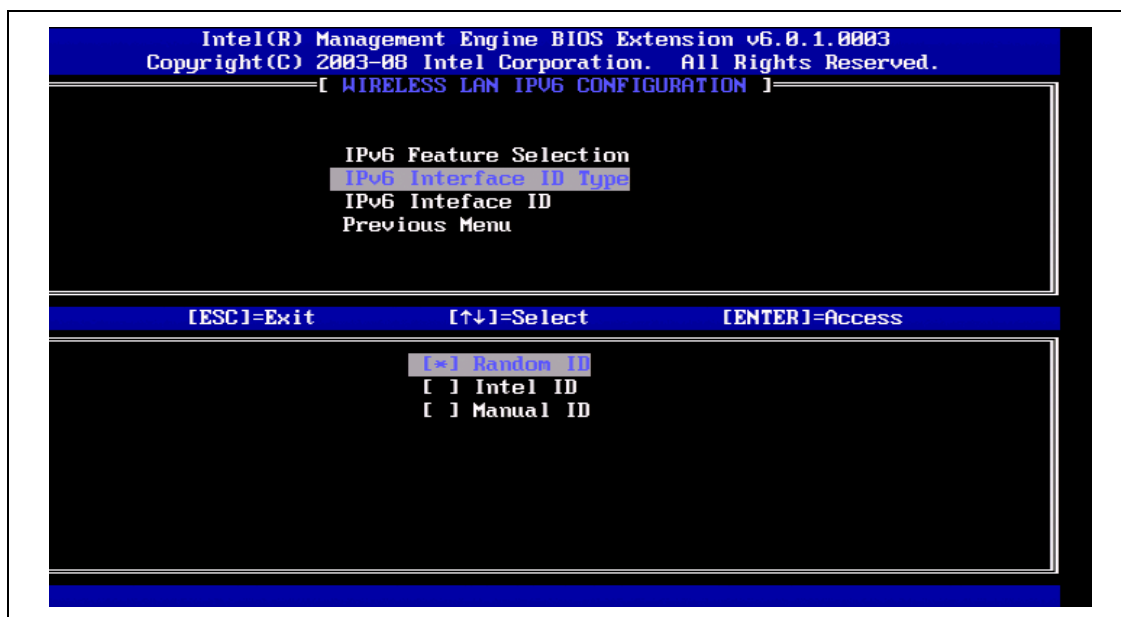


3.8.2.3.2 IPv6 Interface ID Type

Under the Wireless LAN IPV6 Configuration,

1. Select 'IPv6 Interface ID Type'.
2. Press Enter.

Figure 30: IPv6 Interface ID Type



An auto-configured IPv6 address consists of two parts, the IPv6 Prefix set by the IPv6 router is the first and the interface ID is following part (64 bits each).

The following options can be selected:

RANDOM ID - The IPv6 Interface ID is automatically generated using a random number as described in RFC 3041. This is the default.

Intel ID - The IPv6 Interface ID is automatically generated using the MAC address.

Manual ID - The IPv6 Interface ID is configured manually. Selecting this type requires that the Manual Interface ID is set with a valid value.

To select Random ID:

1. Select 'Random ID'.
2. Press Enter.

No additional steps are required.

To select Intel ID:

1. Select 'Intel ID'.
2. Press Enter.

No additional steps are required.



To select Manual ID:

1. Select 'Manual ID'.
2. Press Enter.

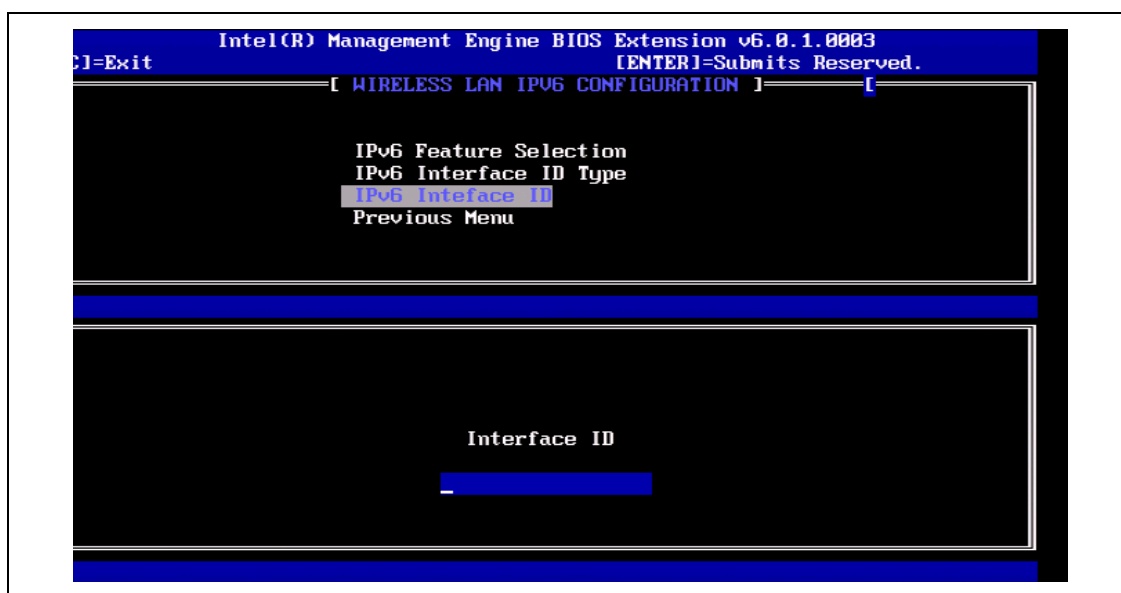
No additional steps are required.

3.8.2.3.3 IPv6 Interface ID

Under the Wireless LAN IPV6 Configuration,

1. Select 'IPv6 Interface ID'.
2. Press Enter.

Figure 31: IPv6 Interface ID



3. Enter the Interface ID.
4. Press Enter.

3.8.2.3.4 Previous Menu

Under the Wireless LAN IPV6 Configuration,

1. Select 'Previous Menu'.
2. Press Enter.

The Wireless LAN IPV6 Configuration menu changes to the TCP/IP Settings menu.



3.8.2.4 Previous Menu

Under the TCP/IP Settings menu,

1. Select 'Previous Menu'.
2. Press Enter.

The TCP/IP Settings menu changes to the Intel® Network Setup menu.

3.8.3 Previous Menu

Under the Intel® Network Setup menu,

1. Select 'Previous Menu'.
2. Press Enter.

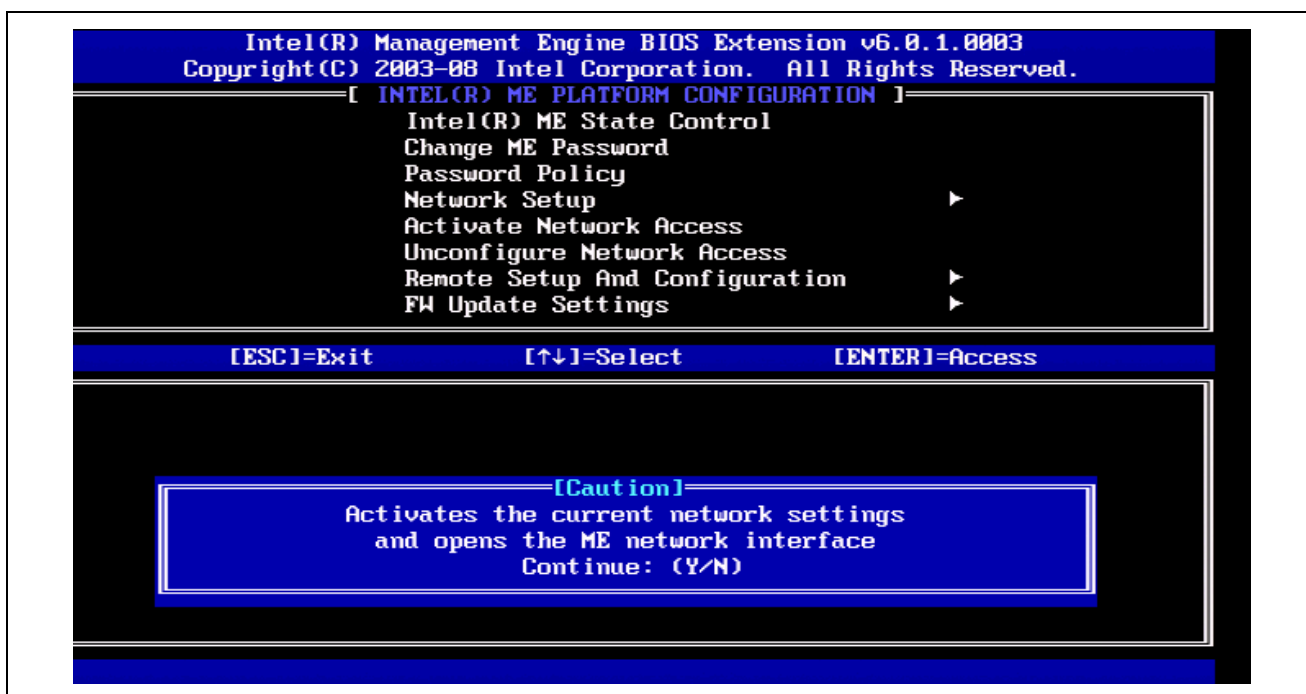
The Intel® Network Setup menu changes to the Intel® ME Platform Configuration menu.

3.9 Activate Network Access

Under the Intel ME Platform Configuration menu,

1. Select 'Activate Network Access'.
2. Press Enter.

Figure 32: Activate Network Access



Activate Network Access causes the Intel ME to transition to the POST provisioning state if all required settings are configured. This only applies to Manual Configuration because



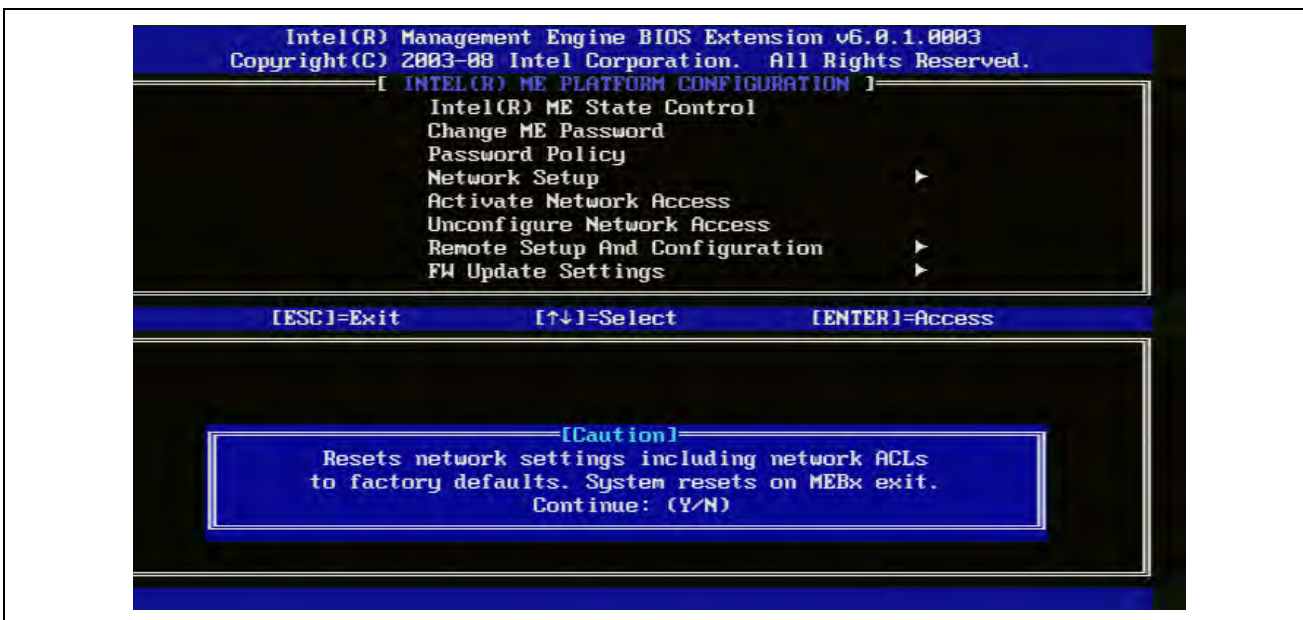
Remote Configuration is dependent on communication with a server to complete provisioning.

3.10 Unconfigure Network Access

Under the Intel ME Platform Configuration menu,

1. Select 'Unconfigure Network Access'.
2. Press Enter.

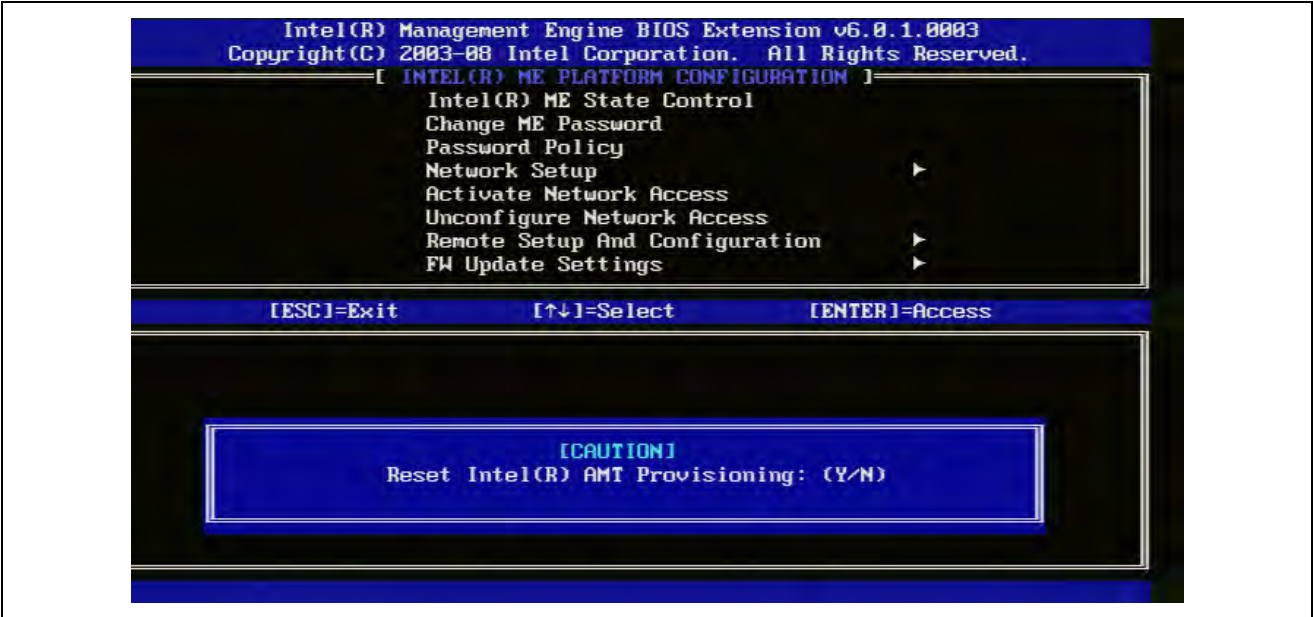
Figure 33: Unconfigure Network Access





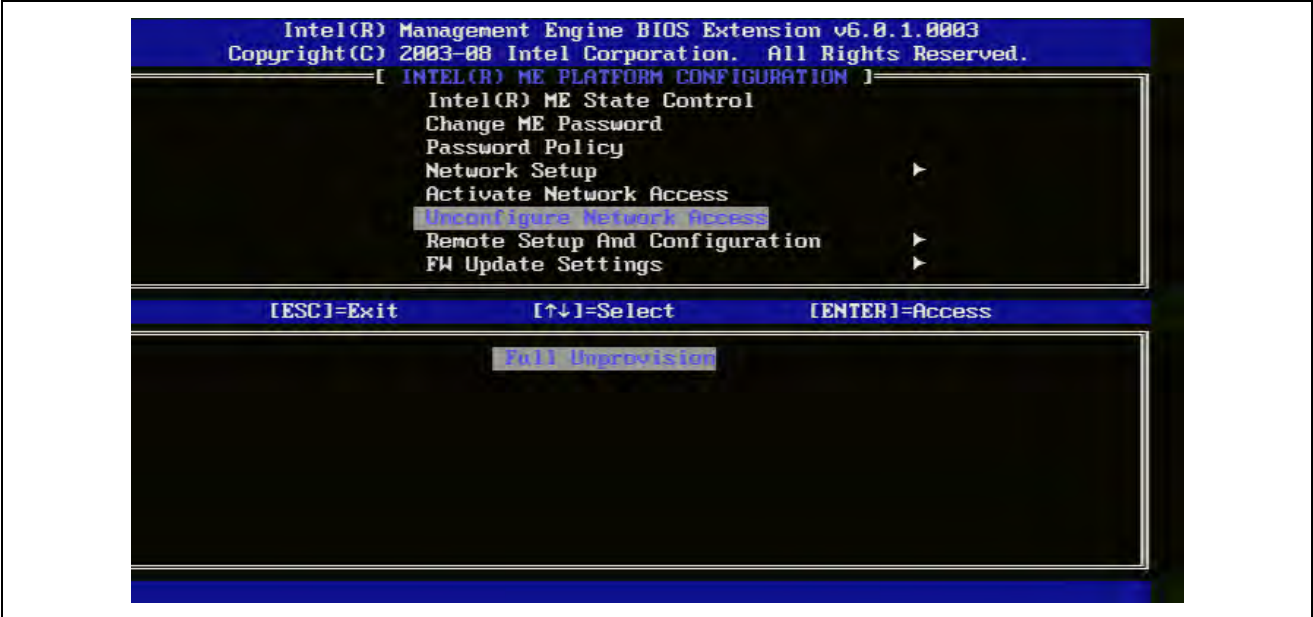
- 3. Select Y to unconfigure
- The following screen appears:

Figure 34: Unconfigure Network Access



- 4. Select Y to unconfigure
- The following screen appears:

Figure 35: Unconfigure Network Access

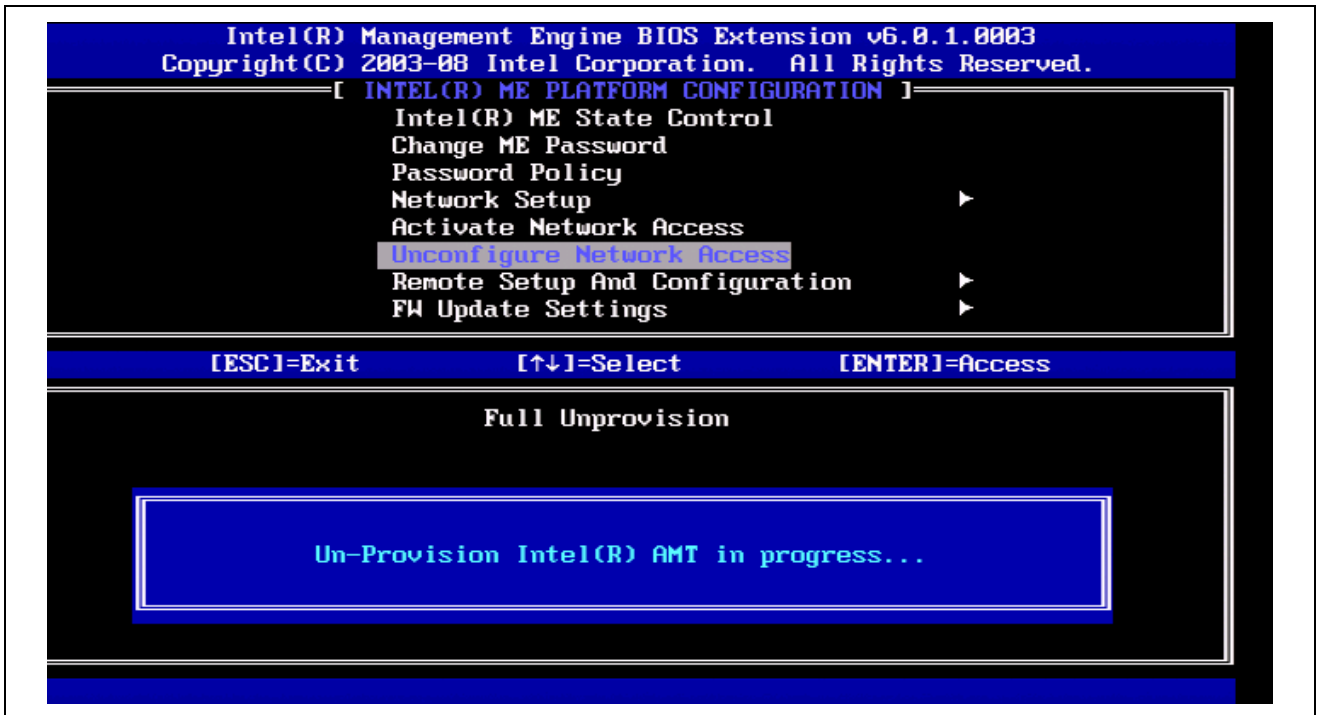




5. Select Full Unprovisioning
6. Press Enter

The following screen appears:

Figure 36: Unconfigure Network Access





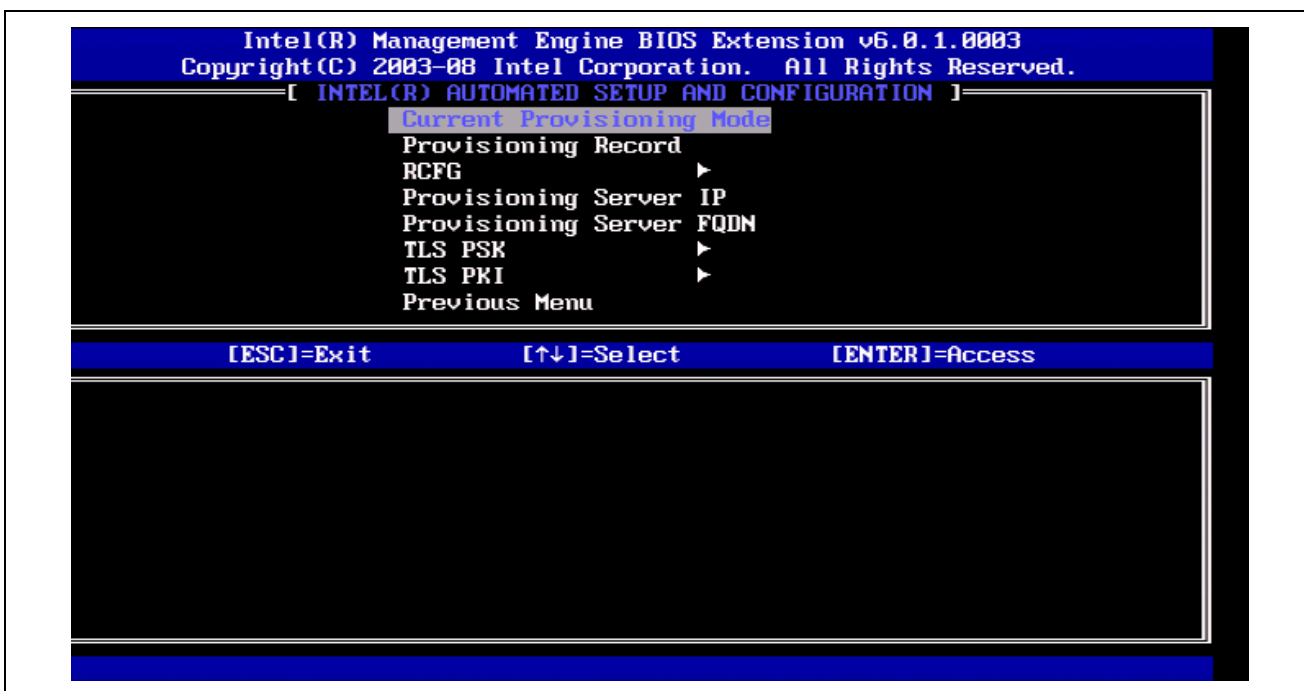
3.11 Remote Setup and Configuration

Under Intel® ME Platform Configuration,

1. Select 'Remote Setup and Configuration'.
2. Press Enter.

The Intel® ME Platform Configuration screen changes to the Intel® Automated Setup and Configuration screen.

Figure 37: Remote Setup and Configuration





3.11.1 Current Provisioning Mode

Under Intel® Automated Setup and Configuration,

1. Select 'Current Provisioning Mode'.
2. Press Enter.

Figure 38: Current Provisioning Mode



Current Provisioning Mode – Displays the current provisioning TLS Mode: None, PKI, or PSK.

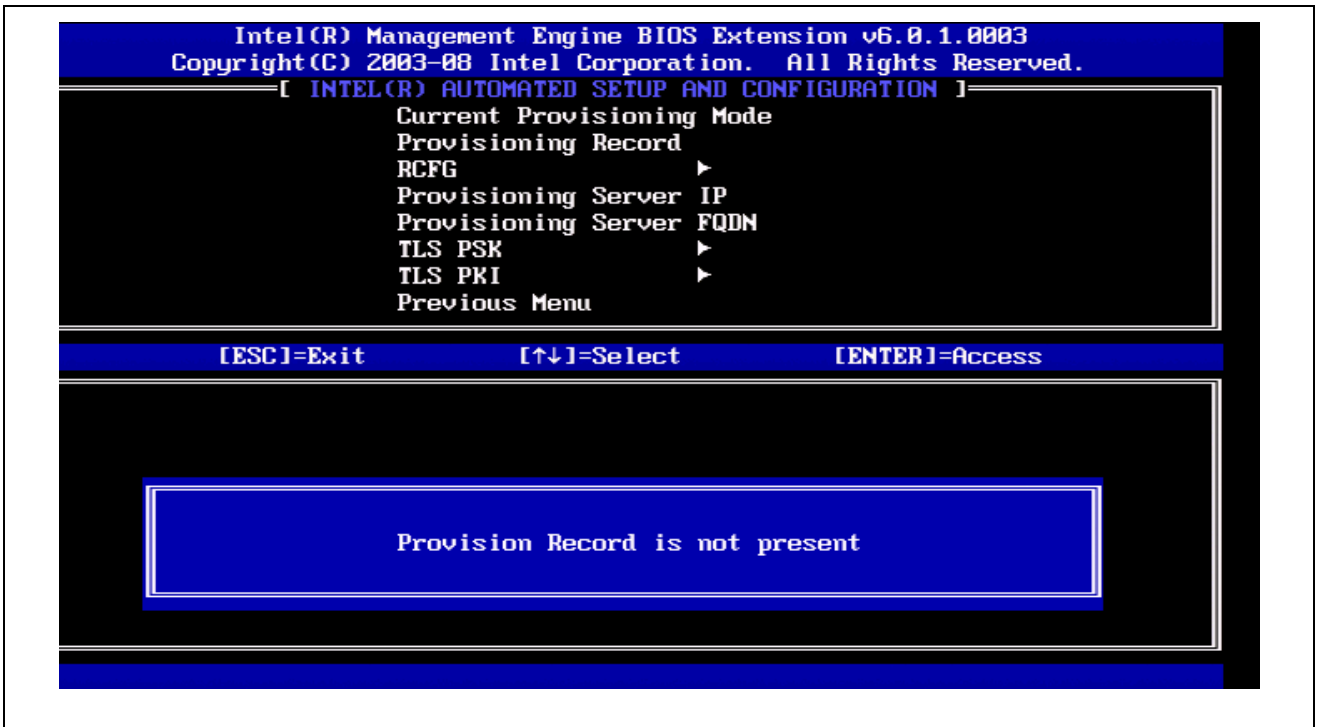


3.11.2 Provisioning Record

Under Intel® Automated Setup and Configuration,

1. Select 'Provisioning Record'.
2. Press Enter.

Figure 39: Provisioning record



Provisioning Record – Displays the system's provision PSK/PKI record data. If the data has not been entered, the MEBX displays a message stating "Provision Record not present". If the data is entered, the Provision record will display the following:

- TLS provisioning mode – Displays the current configuration mode of the system: None, PSK or PKI.
- Provisioning IP – The IP address of the setup and configuration server.
- Date of Provision – Displays the date and time of the provisioning in the format MM/DD/YYYY at HH:MM.
- DNS – Indicates whether Secure DNS is being used. 0 indicates that DNS is NOT in use, 1 indicates that secure DNS is being used (PKI only).



- Host Initiated – Indicates whether the setup and configuration process was initiated by the host: 'No' indicates that the setup and configuration process was NOT host-initiated, 'Yes' indicates the setup and configuration process was host-initiated (PKI only).
- Hash Data – Displays the 40-character certificate hash data (PKI only).
- Hash Algorithm – Describes the hash type. Currently only SHA1 is supported. (PKI only).
- IsDefault – Displays 'Yes' if the Hash algorithm is the default algorithm selected. Displays 'No' if the hash algorithm is NOT the default algorithm used (PKI only).
- FQDN – FQDN of the provisioning server mentioned in the certificate (PKI only).
- Serial Number – The 32-character string that indicates the Certificate Authority serial numbers.
- Time Validity Pass – Indicates whether the certificate passed the time validity check.



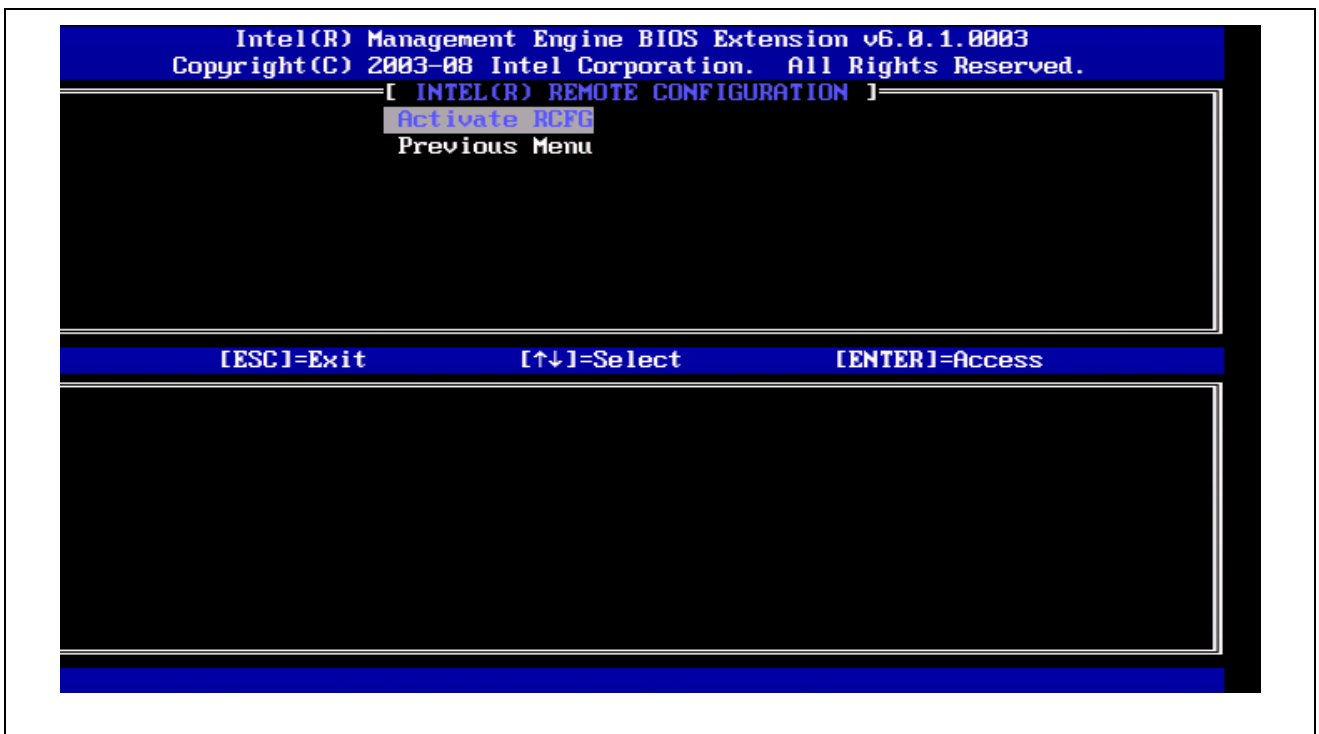
3.11.3 RCFG

Under Intel® Automated Setup and Configuration,

1. Select 'RCFG'.
2. Press Enter.

The Intel® Automated Setup and Configuration screen changes to the Intel® Remote Configuration screen.

Figure 40: Intel® Remote Configuration screen



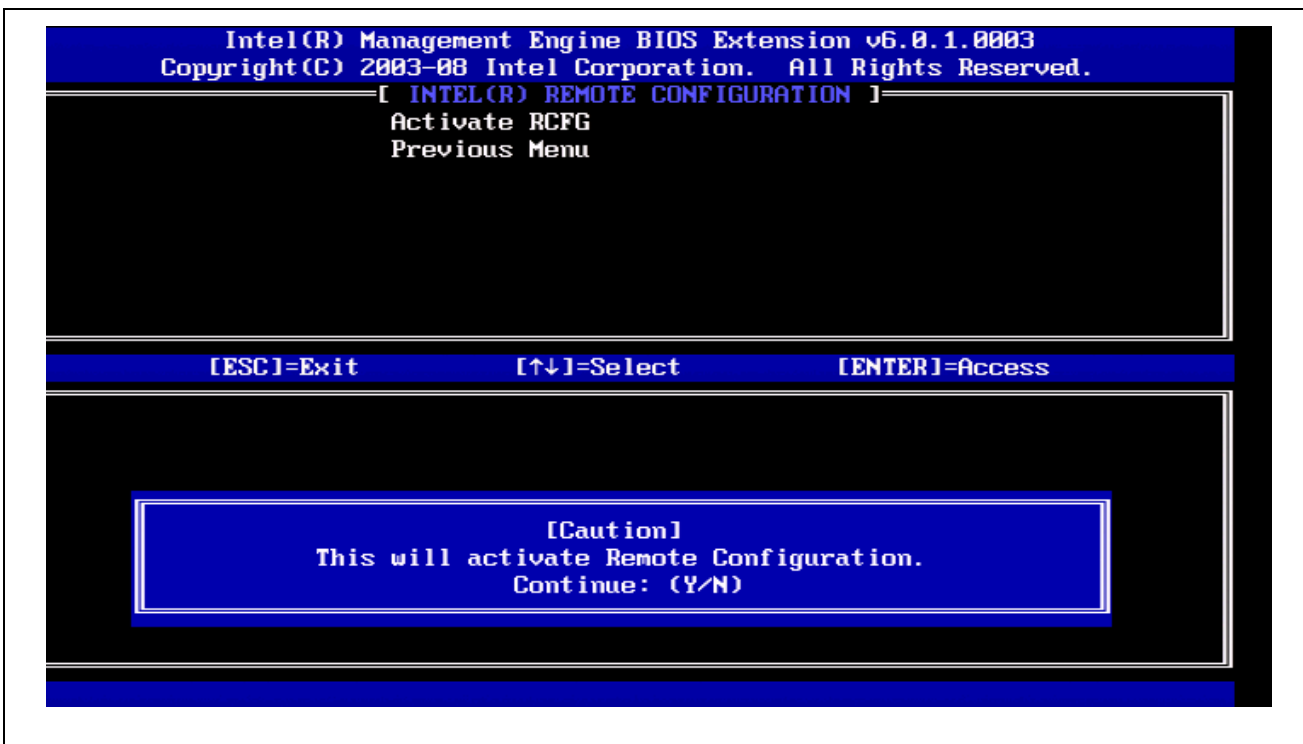


3.11.3.1 Activate RCFG

Under the Intel® Remote Configuration screen,

1. Select 'Activate RCFG'.
2. Press Enter.

Figure 41: Activate RCFG



Disables or enables Remote Configuration (RCFG). If this option is not enabled, Remote configuration cannot occur.

To activate (enable) remote configuration, select Y.

3.11.3.2 Previous Menu

Under the Intel® Network Setup menu,

1. Select 'Previous Menu'.
2. Press Enter.

The Intel® Remote Configuration screen changes to the Intel® Automated Setup and Configuration screen.

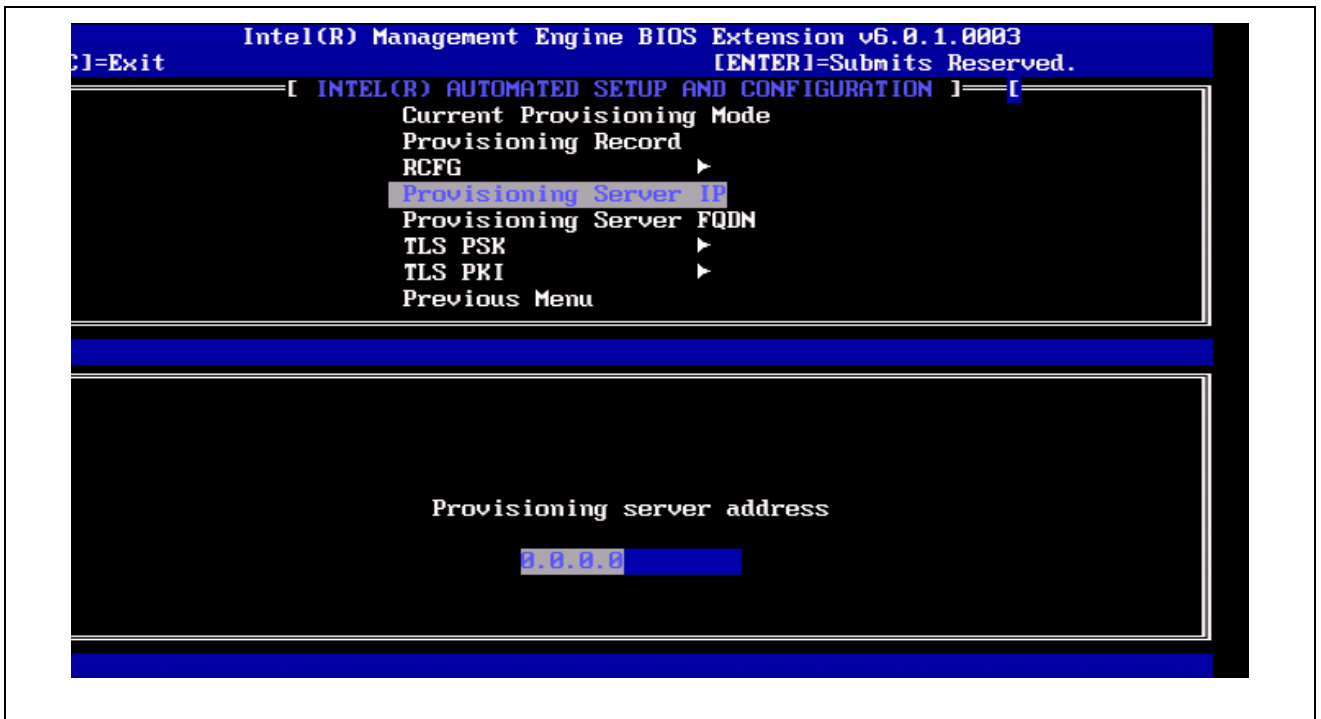


3.11.4 Provisioning Server IP

Under the Intel® Automated Setup and Configuration screen,

1. Select 'Provisioning Server IP'.
2. Press Enter.

Figure 42: Provisioning Server IP

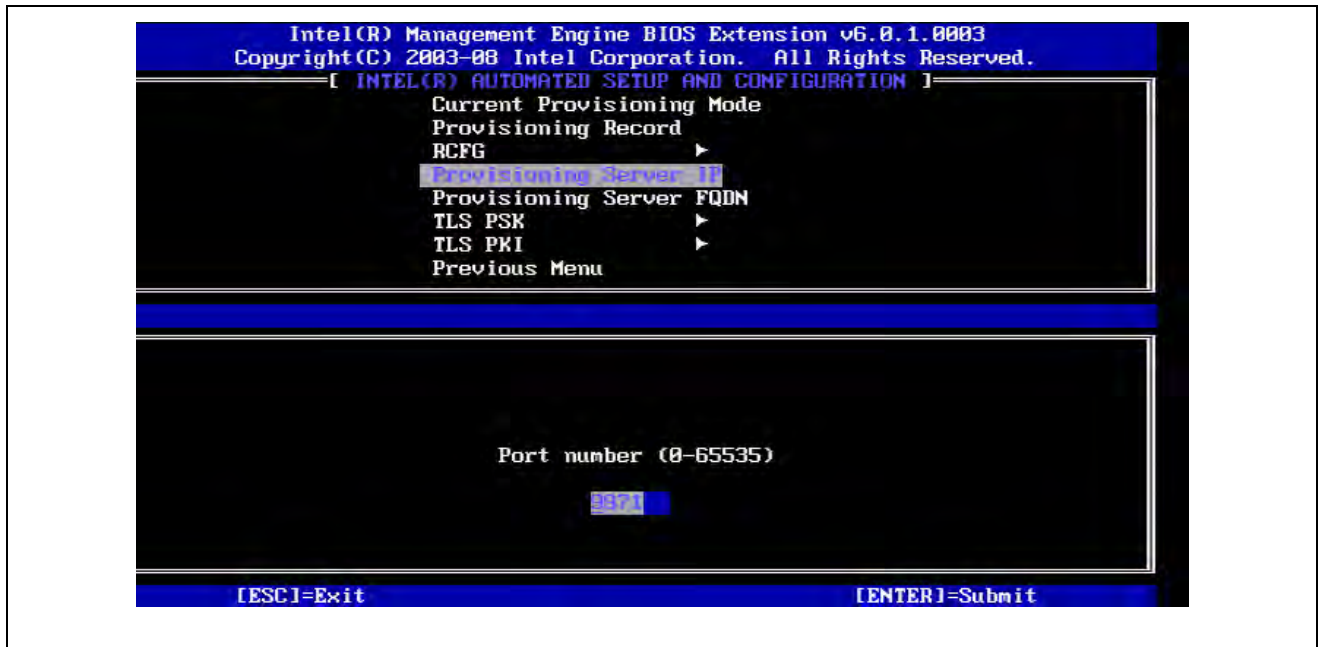


The IP address of the Intel AMT provisioning server.

3. Enter provisioning server address.
4. Press Enter.



Figure 43: Provisioning Server Port number



The port number (0 – 65535) of the Intel AMT provisioning server. The default port number is 9971.

5. Enter provisioning server port number.
6. Press Enter.

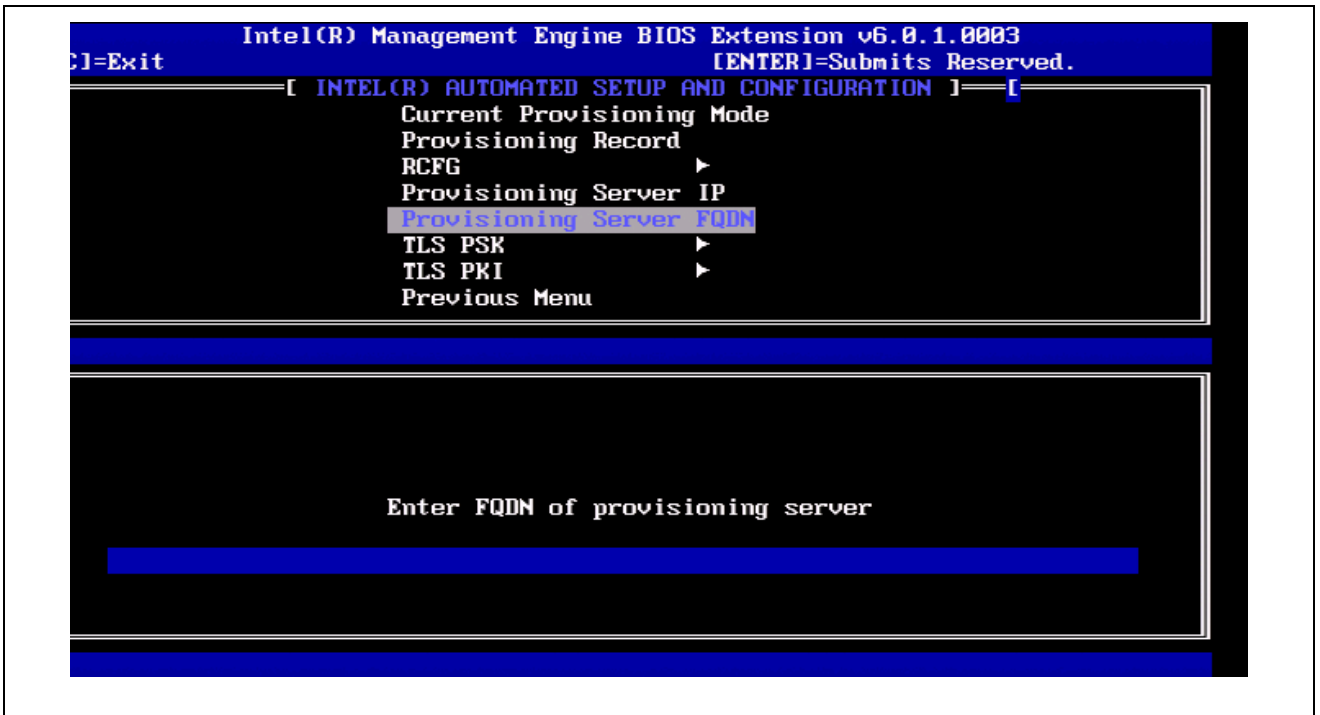


3.11.5 Provisioning Server FQDN

Under the Intel® Automated Setup and Configuration screen,

1. Select 'Provisioning Server FQDN'.
2. Press Enter.

Figure 44: Provisioning Server FQDN



FQDN of the provisioning server mentioned in the certificate (PKI only).

3. Enter the FQDN of the provisioning server.
4. Press Enter.



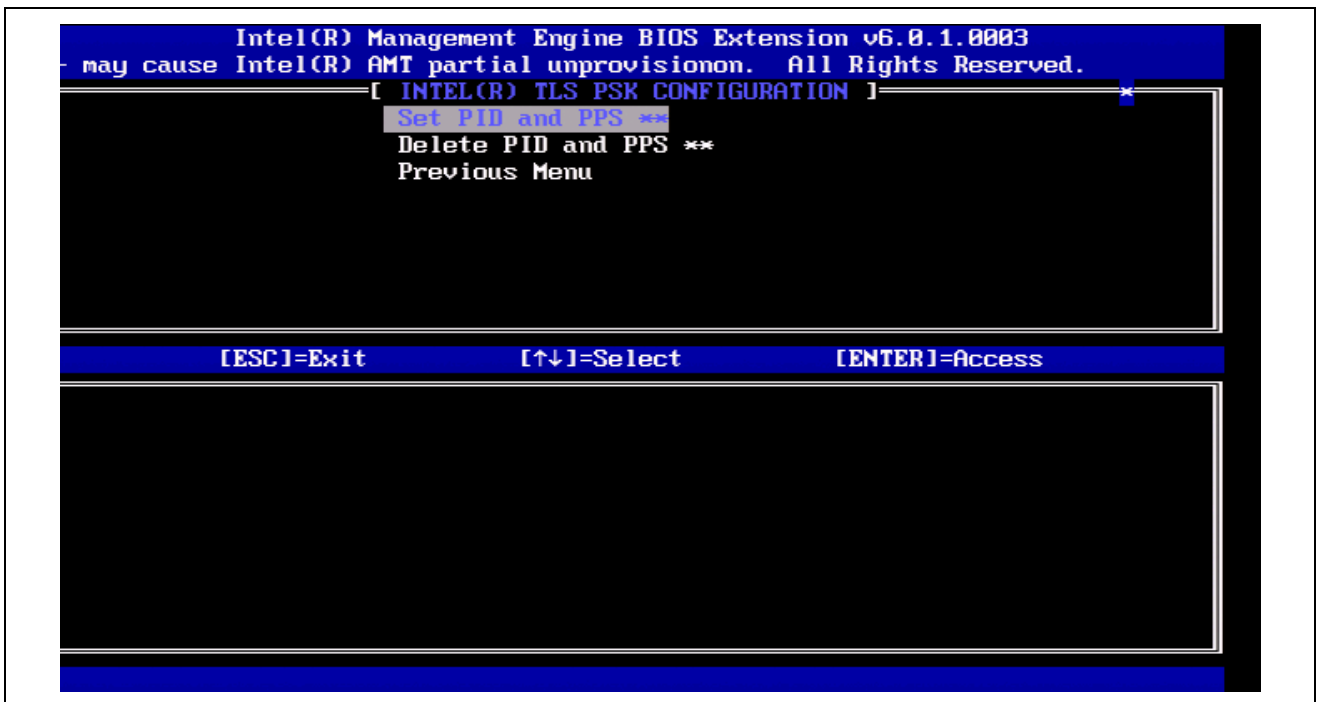
3.11.6 TLS PSK

Under Intel® Automated Setup and Configuration,

1. Select 'TLS PSK'.
2. Press Enter.

The Intel® Automated Setup and Configuration screen changes to the Intel® TLS PSK Configuration screen.

Figure 45: Intel® TLS PSK Configuration screen



This submenu contains the settings for TLS PSK configuration settings.

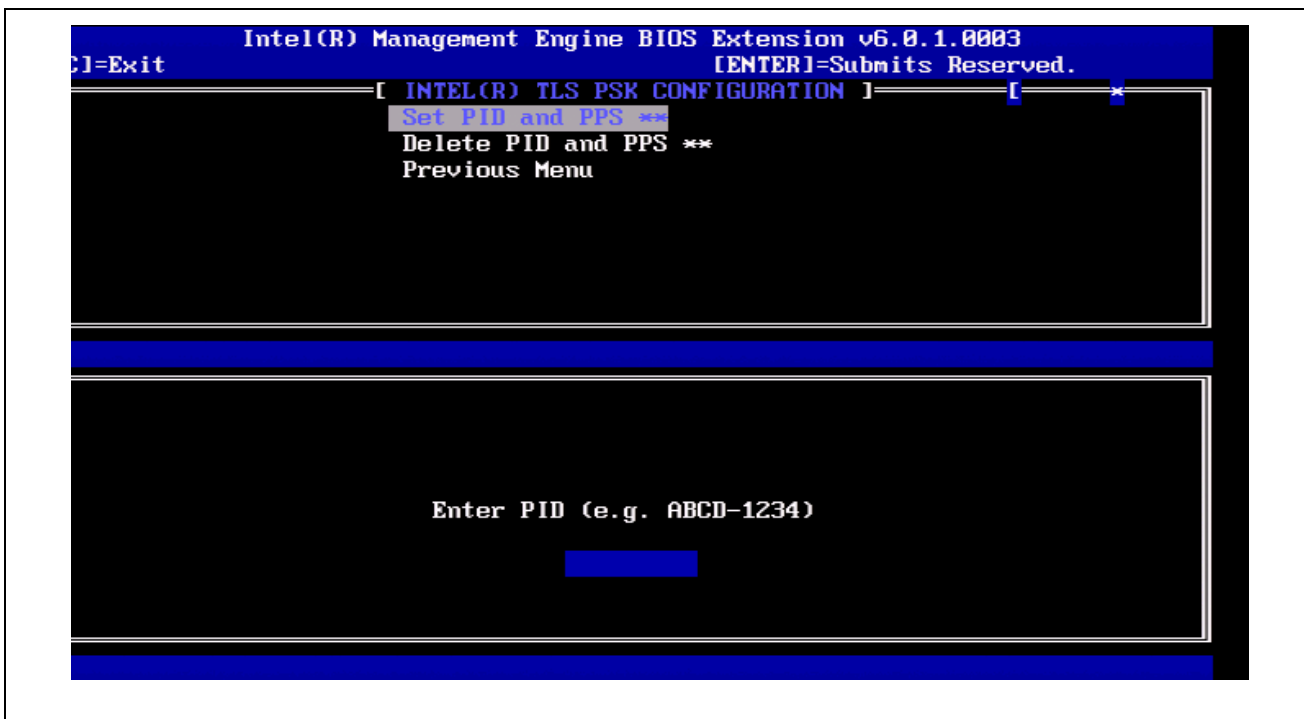


3.11.6.1 Set PID and PPS

Under the Intel® TLS PSK Configuration screen,

1. Select 'Set PID and PPS'.
2. Press Enter.

Figure 46: Set PID and PPS



Setting the PID/PPS will cause a partial unprovision if the setup and configuration is "In-process". The PID and PPS should be entered in the dash format. (Ex. PID: 1234-ABCD ; PPS: 1234-ABCD-1234-ABCD-1234-ABCD-1234-ABCD)

Note- A PPS value of '0000-0000-0000-0000-0000-0000-0000-0000' will not change the setup configuration state. If this value is used, the setup and configuration state will remain 'Not-started'.

3. Enter PID.
4. Press Enter.
5. Enter PPS.
6. Press Enter.

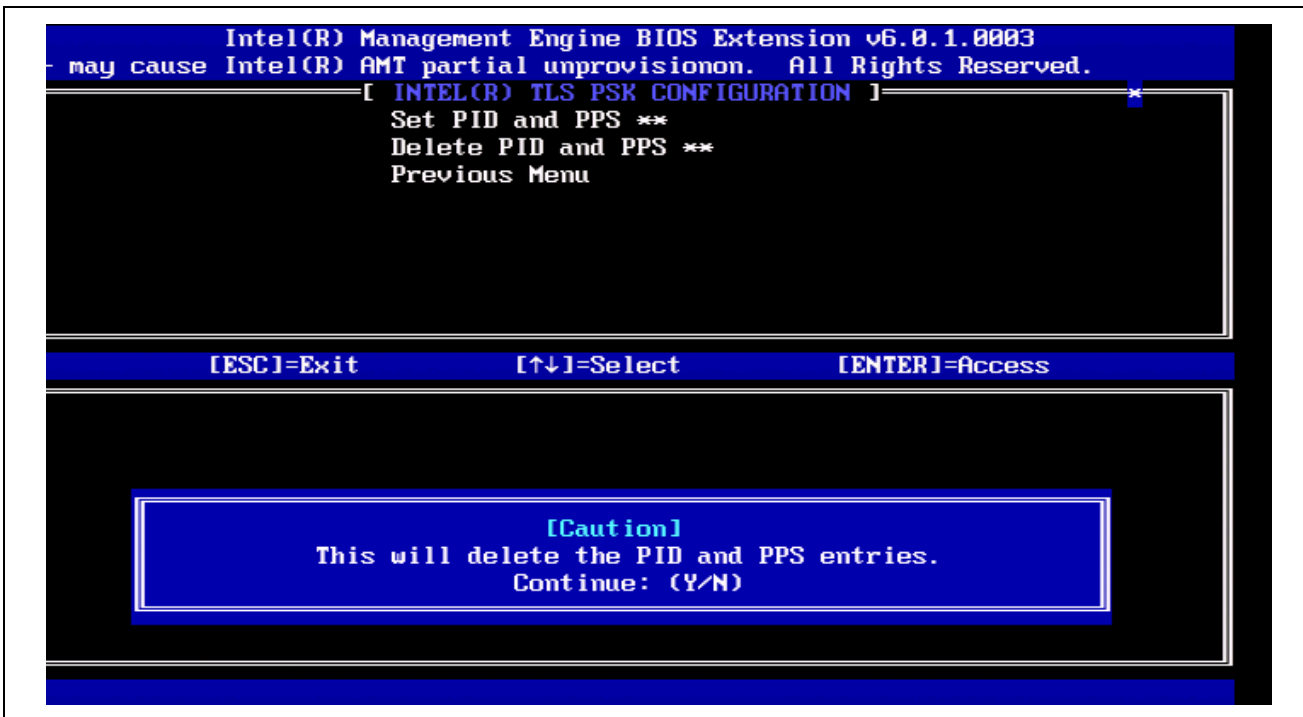


3.11.6.2 Delete PID and PPS

Under the Intel® TLS PSK Configuration screen,

1. Select 'Delete PID and PPS'.
2. Press Enter.

Figure 47: Delete PID and PPS



This option deletes the current PID and PPS stored in Intel ME. If the PID and PPS were not entered previously, the Intel MEBX will return an error message.

To delete the PID and PPS entries, select Y, else N.

3.11.6.3 Previous Menu

Under the Intel® TLS PSK Configuration screen,

1. Select 'Previous Menu'.
2. Press Enter.

The Under the Intel® TLS PSK Configuration screen changes to the Intel® Automated Setup and Configuration screen.



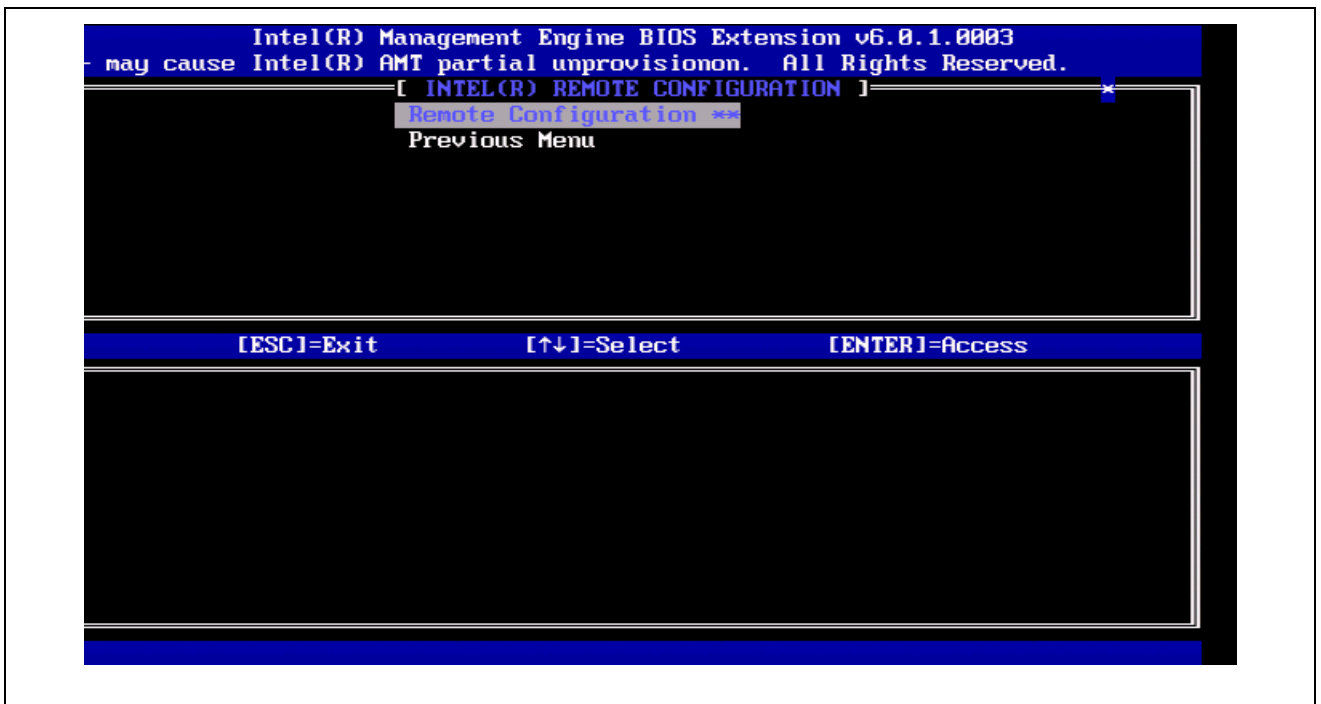
3.11.7 TLS PKI

Under Intel® Automated Setup and Configuration,

1. Select 'TLS PKI'.
2. Press Enter.

The Intel® Automated Setup and Configuration screen changes to the Intel® Remote Configuration.

Figure 48: Intel® Remote Configuration screen



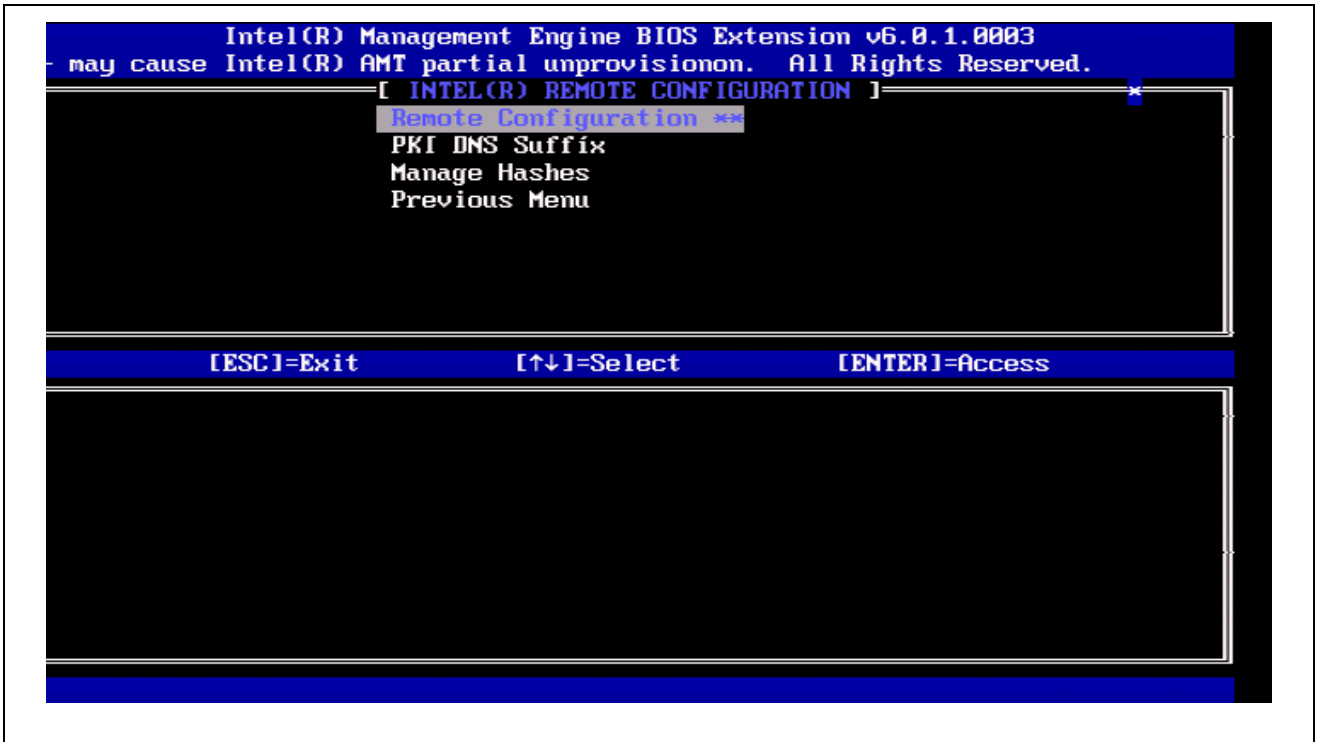


3.11.7.1 Remote Configuration

Under the Intel® Remote Configuration screen,

1. Select 'Remote Configuration'.
2. Press Enter.

Figure 49: Remote Configuration



This option can **NOT** be modified once the setup and configuration process is in progress. This parameter can only be modified while the system is an unprovisioned state.

Enabling/Disabling Remote configuration will cause a partial un-provision if the setup and configuration server is "In-process".

The following options can be selected:

Disabled- remote configuration is disabled. Only 'Remote Configuration' and 'Previous Menu' items are visible.

Enabled- remote configuration is enabled, this will show additional fields.

To select Disabled:

3. Select 'Disabled'.
4. Press Enter.

No additional steps are required.



To select Enabled:

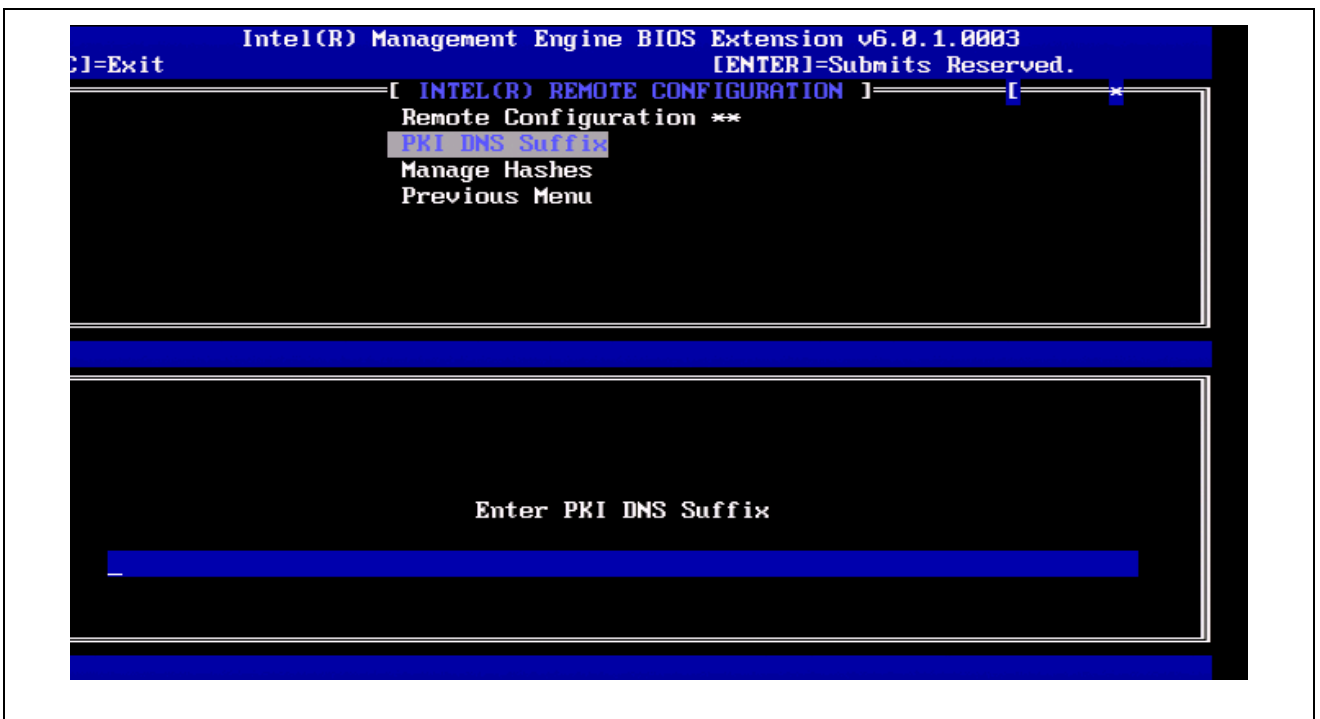
5. Select 'Enabled ID'.
6. Press Enter.

3.11.7.2 PKI DNS Suffix

Under the Intel® Remote Configuration screen,

1. Select 'PKI DNS Suffix'.
2. Press Enter.

Figure 50: PKI DNS Suffix



Key Value will be maintained in the EPS

3. Enter the PKI DNS Suffix.
4. Press Enter.

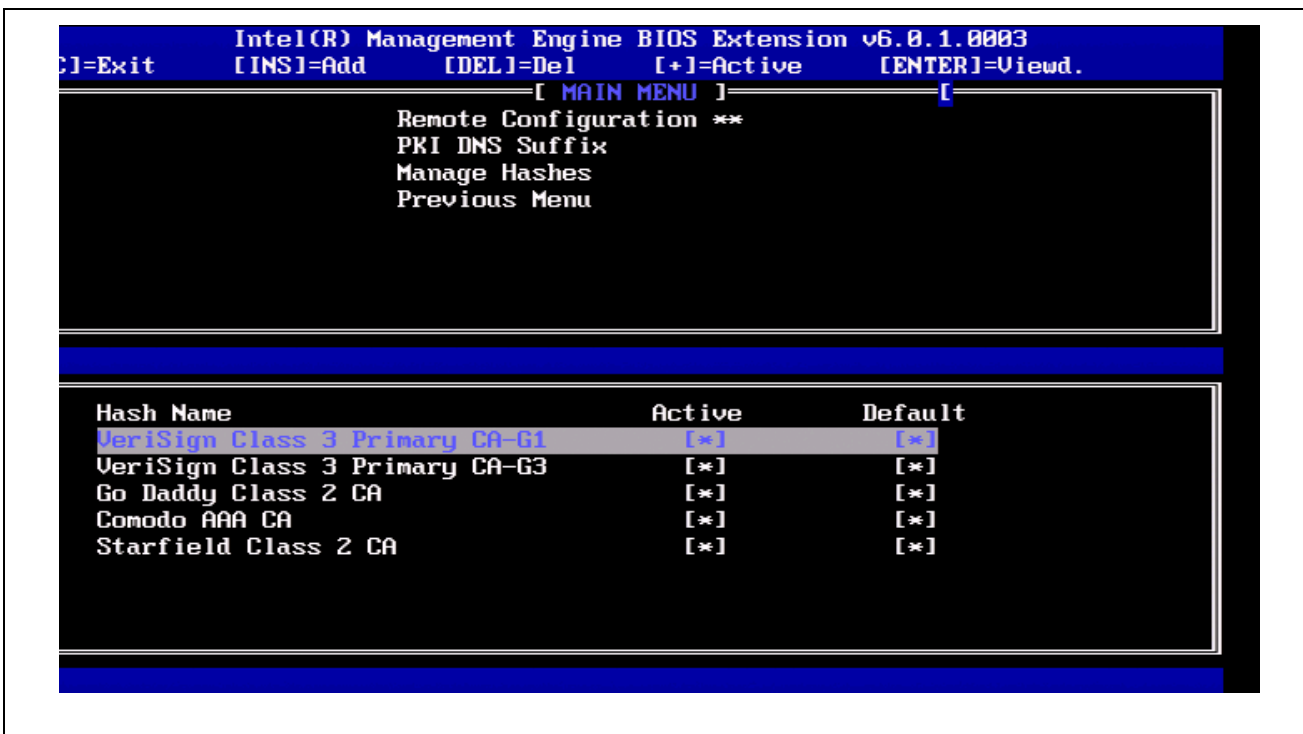


3.11.7.3 Manage Hashes

Under the Intel® Remote Configuration screen,

1. Select 'Manage Hashes '.
2. Press Enter.

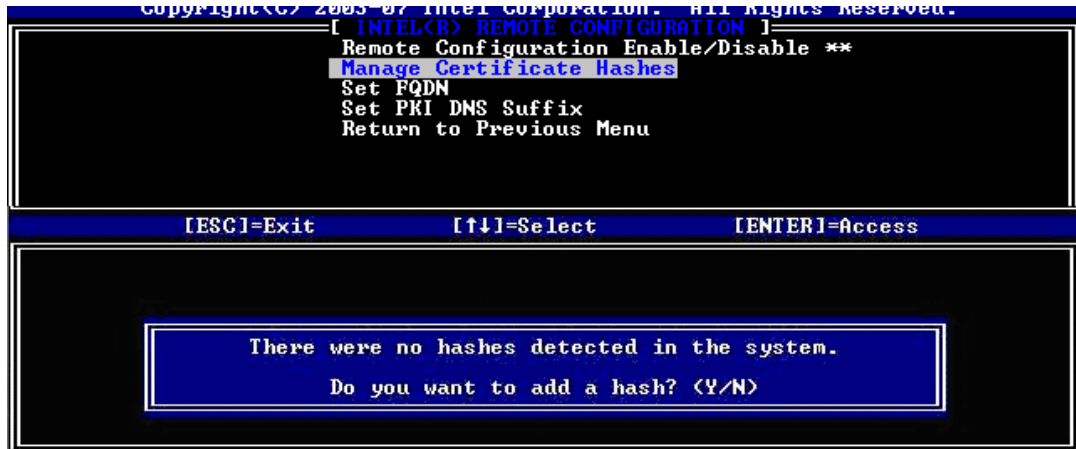
Figure 51: Manage Hashes





Selecting this option will enumerate the hashes in the system and display the Hash Name and the active and default state. If the system does not contain any hashes yet, Intel MEBX will display the following screen (Figure 52).

Figure 52: No hash detected



Answering 'Yes' will begin the process of adding customized hash. Please see the next section below.

The Manage Certificate Hash screen provides keyboard controls for managing the hashes on the system. The following keys are valid when in the Manage Certificate Hash menu:

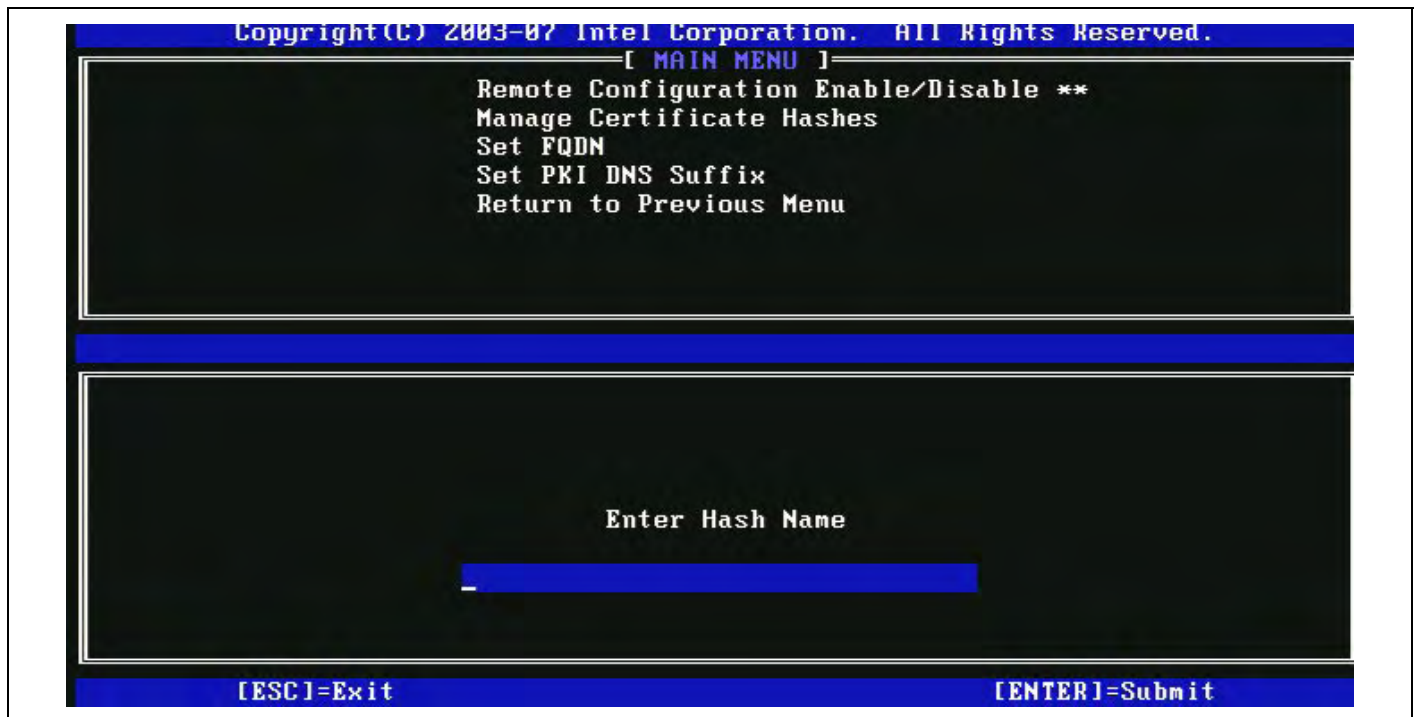
- **Escape** key – exits from the menu
- **Insert** key – adds a customized certificate hash to the system.
- **Delete** key – deletes the currently selected certificate hash from the system.
- **'+'** key – Changes the active state of the currently selected certificate hash.
- **Enter** key – Displays the details of the currently selected certificate hash.



3.11.7.3.1 Adding a Customized Hash

When the Insert key is pressed in the Manage Certificate Hash screen, the following screen is displayed.

Figure 53: Adding a new hash name



**To add a customized certificate hash:**

Enter the hash name (up to 32 characters). When you press 'Enter', you are prompted to enter the certificate hash value (Figure 54).

Figure 54: Add Hash - certificate

```
Copyright(C) 2003-07 Intel Corporation. All Rights Reserved.
[ MAIN MENU ]
Remote Configuration Enable/Disable **
Manage Certificate Hashes
Set FQDN
Set PKI DNS Suffix
Return to Previous Menu

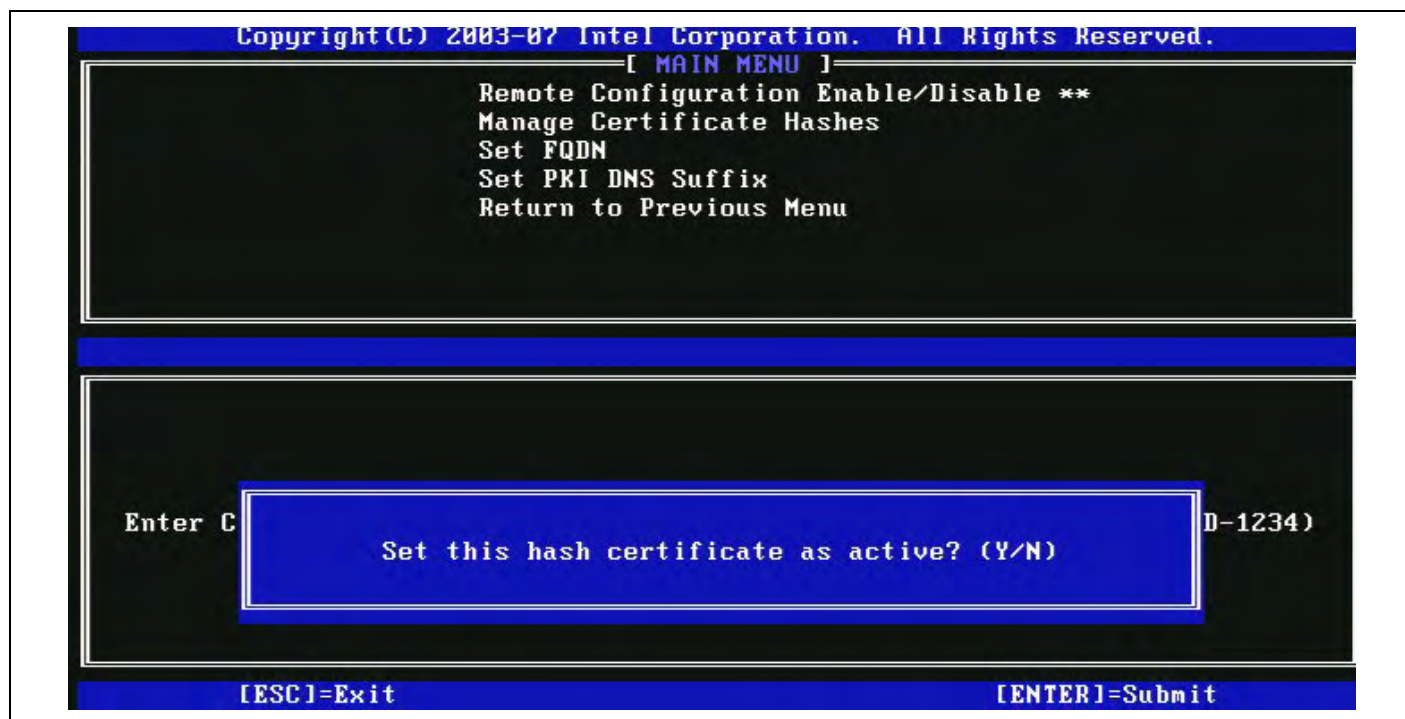
Enter Certificate (e.g. ABCD-1234-ABCD-1234-ABCD-1234-ABCD-1234)
3213-3213-3213-3213-3213-3213-3213-3213-

[ESC]=Exit [ENTER]=Submit
```



The Certificate hash value is a 20-byte hexadecimal number. If the value is not entered in the correct format, the message “Invalid Hash Certificate Entered - Try Again” is displayed. When you press ‘Enter’, you are prompted to set the active state of the hash (Figure 55).

Figure 55: Add Hash - active



Your response sets the active state of the customized hash as follows:

- **Yes** – The customized hash will be marked as active.
- **No (Default)** – The customized hash will added to the EPS but will not be active



3.11.7.3.2 Deleting a hash

Note: A certificate hash that is set to Default cannot be deleted.

When the Delete key is pressed in the Manage Certificate Hash screen, the following screen is displayed (Figure 56).

Figure 56: Deleting a hash



This option allows deleting of the selected certificate hash.

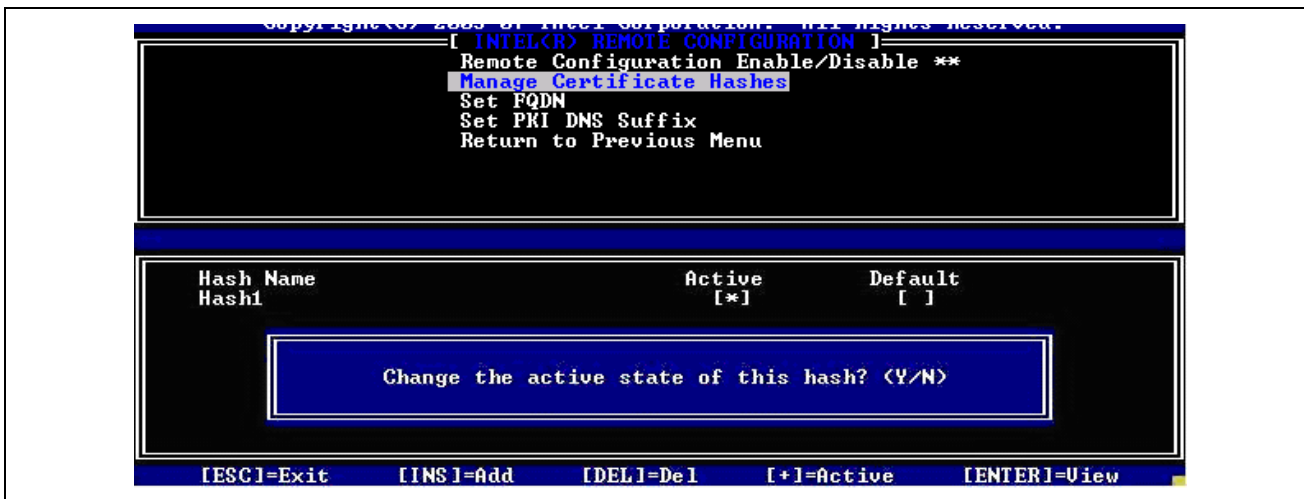
- **Yes** – Intel MEBX sends the firmware a message to delete the selected hash.
- **No** – Intel MEBX does not delete the selected hash, and returns to Remote Configuration.



3.11.7.3.3 Changing the Active State

When the '+' key is pressed in the Manage Certificate Hashes screen, the following screen is displayed as seen in Figure 57.

Figure 57: Change Active State of Hash



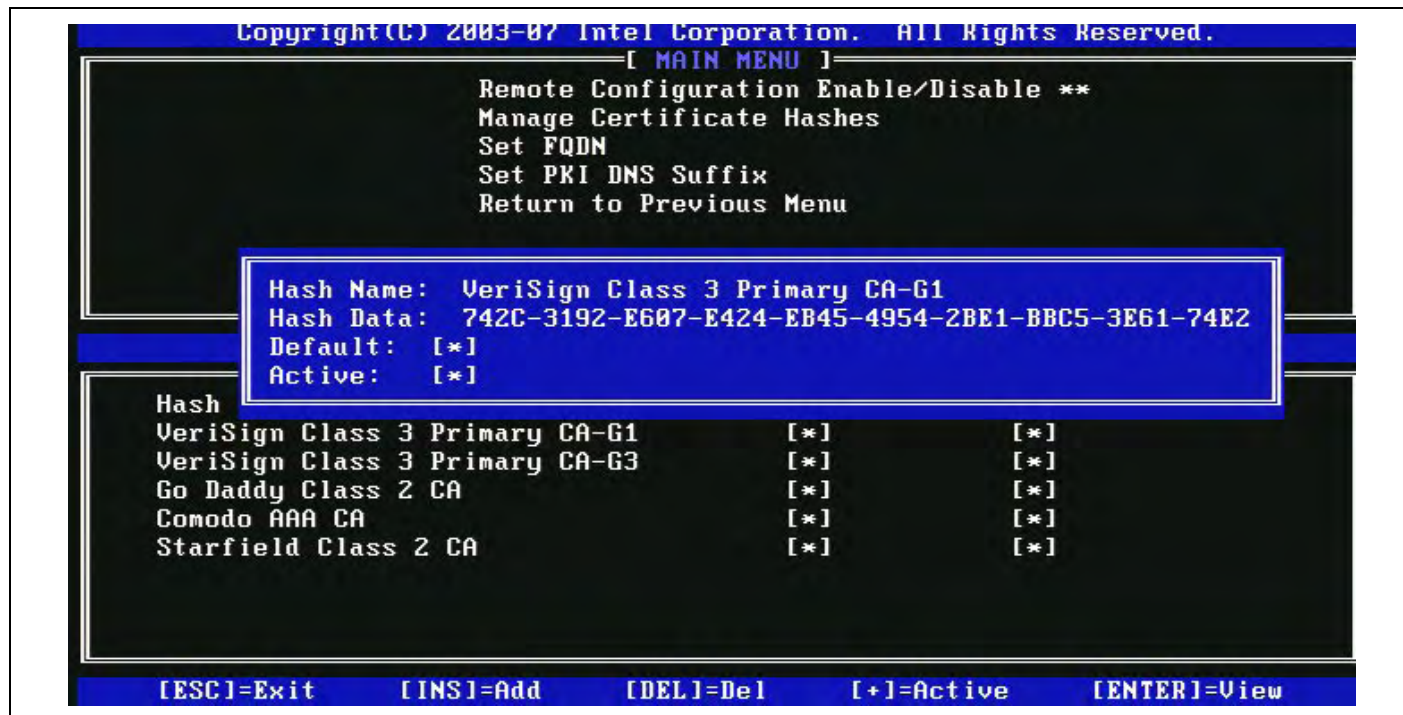
Answering **Y** toggles the active state of the currently selected certificate hash. Setting a hash as active indicates that the hash is available for use during PSK provisioning.



3.11.7.3.4 Viewing a Certificate Hash

When the Enter key is pressed in the Manage Certificate Hash screen, the following screen is displayed (Figure 58).

Figure 58: View Hash details



The details of the selected certificate hash are displayed to the user and include the following:

- hash name
- certificate hash data
- active and default states

3.11.7.4 Previous Menu

Under the Intel® Remote Configuration screen,

1. Select 'Previous Menu'.
2. Press Enter.



The Intel® Remote Configuration screen changes to the Intel® Automated Setup and Configuration screen.

3.11.8 Previous Menu

Under the Intel® Automated Setup and Configuration screen,

1. Select 'Previous Menu'.
2. Press Enter.

Intel® Automated Setup and Configuration screen changes to the Intel® ME Platform Configuration screen.

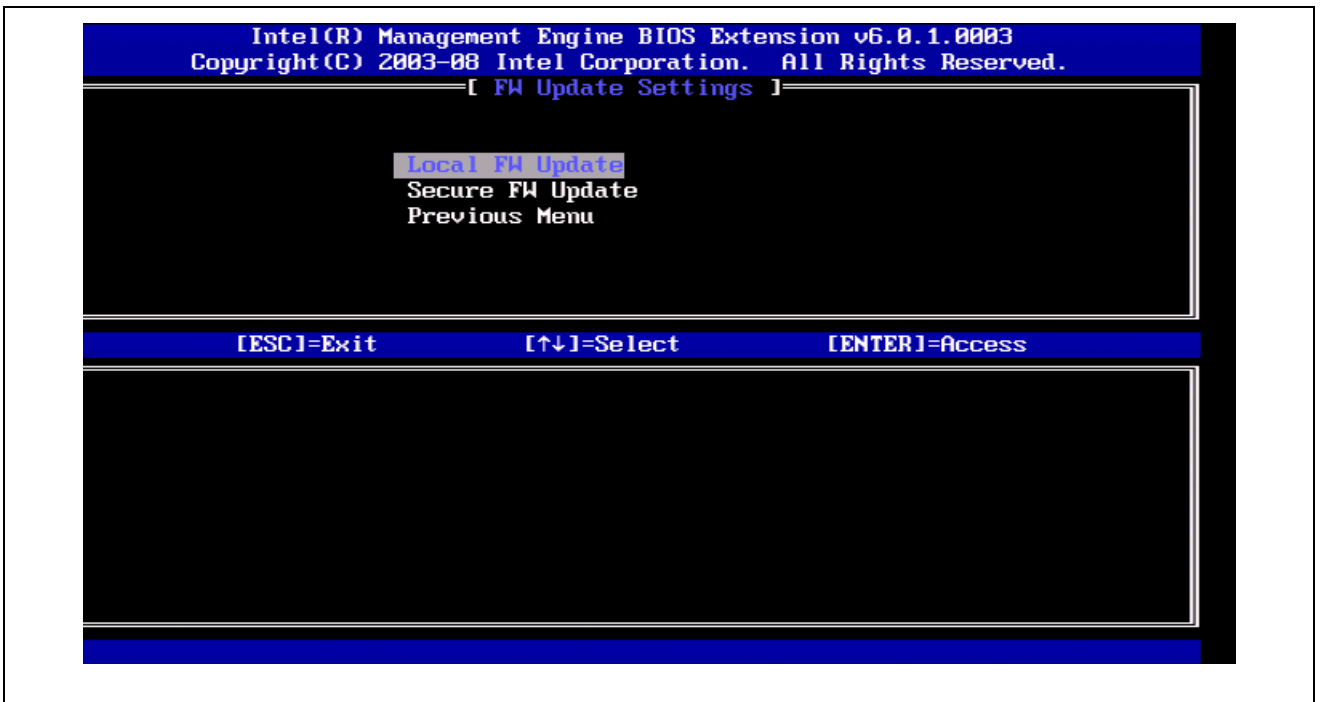
3.12 FW Update Settings

Under Intel® ME Platform Configuration,

1. Select 'FW Update Settings'.
2. Press Enter.

The Intel® ME Platform Configuration screen changes to FW Update Settings page.

Figure 59: FW Update Settings

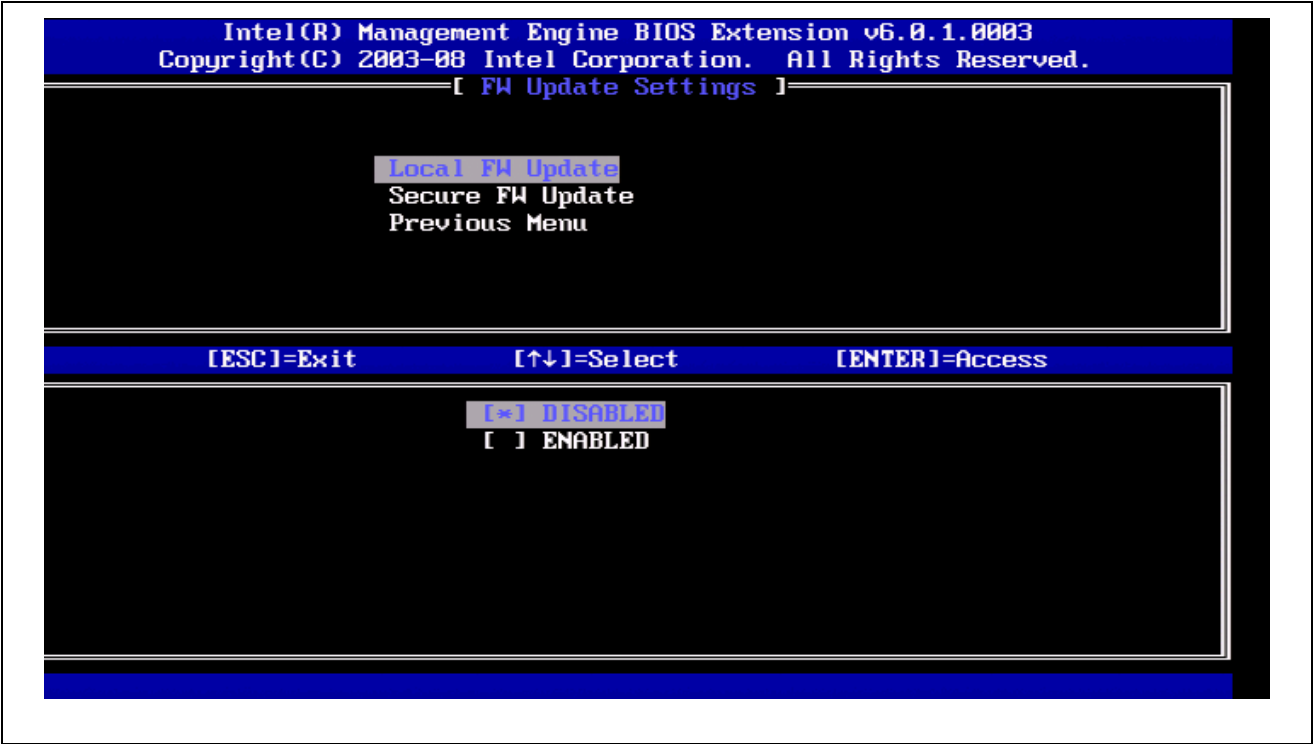




3.12.1 Local FW Update

- Under the FW Update Settings,
1. Select 'Local FW Update'.
 2. Press Enter.

Figure 60: Local FW Update



Intel ME Firmware Local Update provides the capability to allow or prevent firmware local update in the field. When the “Enabled” option is selected, the IT-admin is able to update the Intel ME firmware locally via the local Intel Management Engine interface or via the local secure interface.

This local firmware update does not require an administrator user name and password. Therefore, once the local update is complete, this setting is automatically set to “Disabled” by the Intel ME firmware. This option must be set to “Enabled” when a local update is needed.

Table 6: Intel ME Firmware Local Update Option

Option	Description
Enabled	Allow Local Intel® ME FW Update
Disabled	Do NOT allow Local Intel® ME FW Update



To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

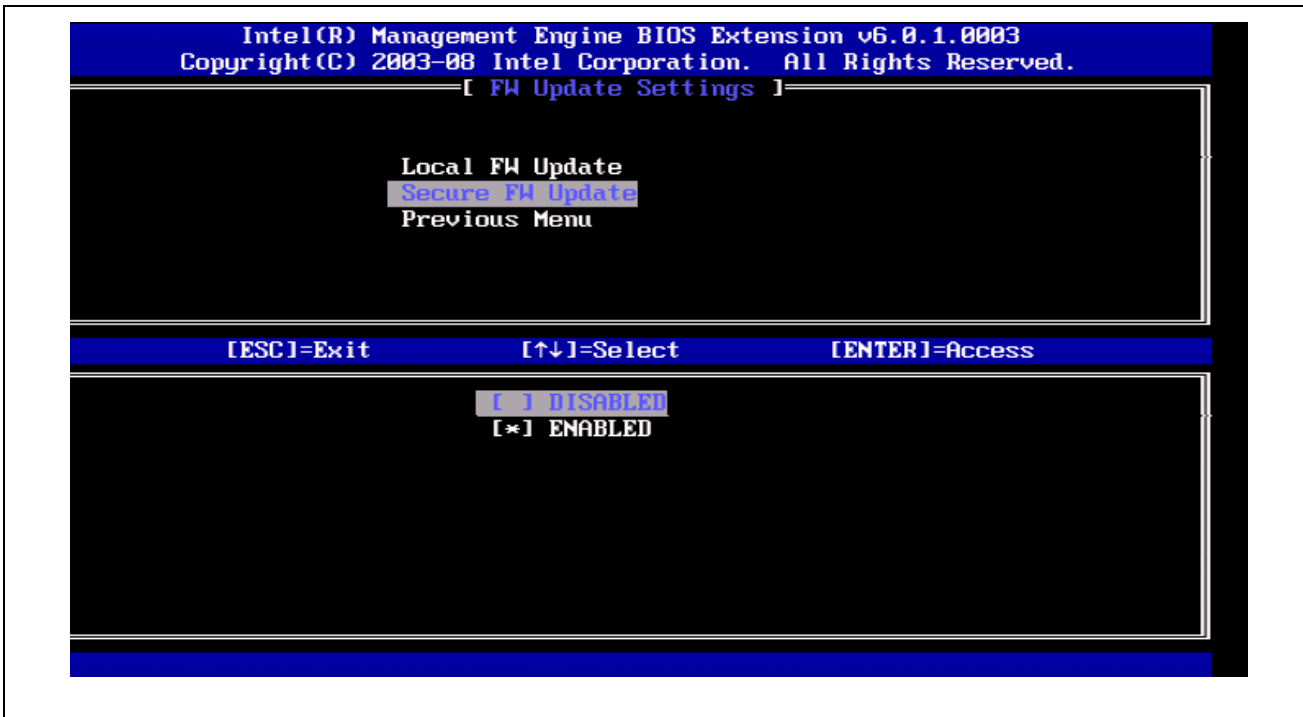
1. Select 'Enabled ID'.
2. Press Enter.

3.12.2 Secure FW Update

Under the FW Update Settings,

1. Select 'Secure FW Update'.
2. Press Enter.

Figure 61: Secure FW Update



This option allows the user to enable or disable secure firmware updates. The Secure Firmware Update function requires an administrator user name and password. If the administrator user name and password are not supplied, the firmware cannot be updated.

When the Secure Firmware Update feature is enabled, the IT administrator can update the firmware using the secure method. Secure firmware updates are performed via the LMS driver.



The following options can be selected:

Disabled- Secure FW Update is disabled.

Enabled- Secure FW Update is enabled.

To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

1. Select 'Enabled ID'.
2. Press Enter.

3.12.3 Previous Menu

Under the FW Update Settings screen,

1. Select 'Previous Menu'.
2. Press Enter.

The FW Update Settings screen changes to the Intel® ME Platform Configuration screen.

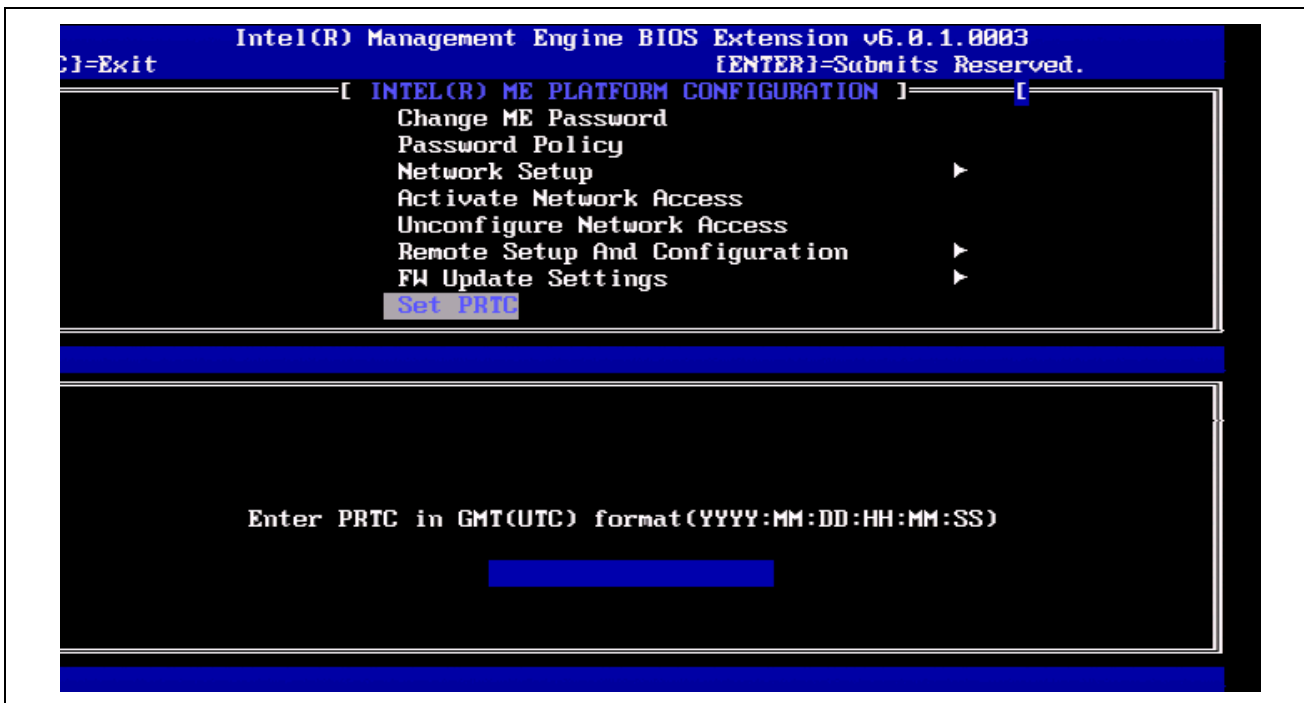


3.13 Set PRTC

Under Intel® ME Platform Configuration,

1. Select 'Set PRTC'.
2. Press Enter.

Figure 62: Set PRTC



Valid date range: 1/1/2004 – 1/4/2021. Setting the PRTC value is used for virtually maintaining PRTC during the power-off (G3) state.

1. Enter PRTC in GMT (UTC) format (YYYY:MM:DD:HH:MM:SS)
2. Press Enter.



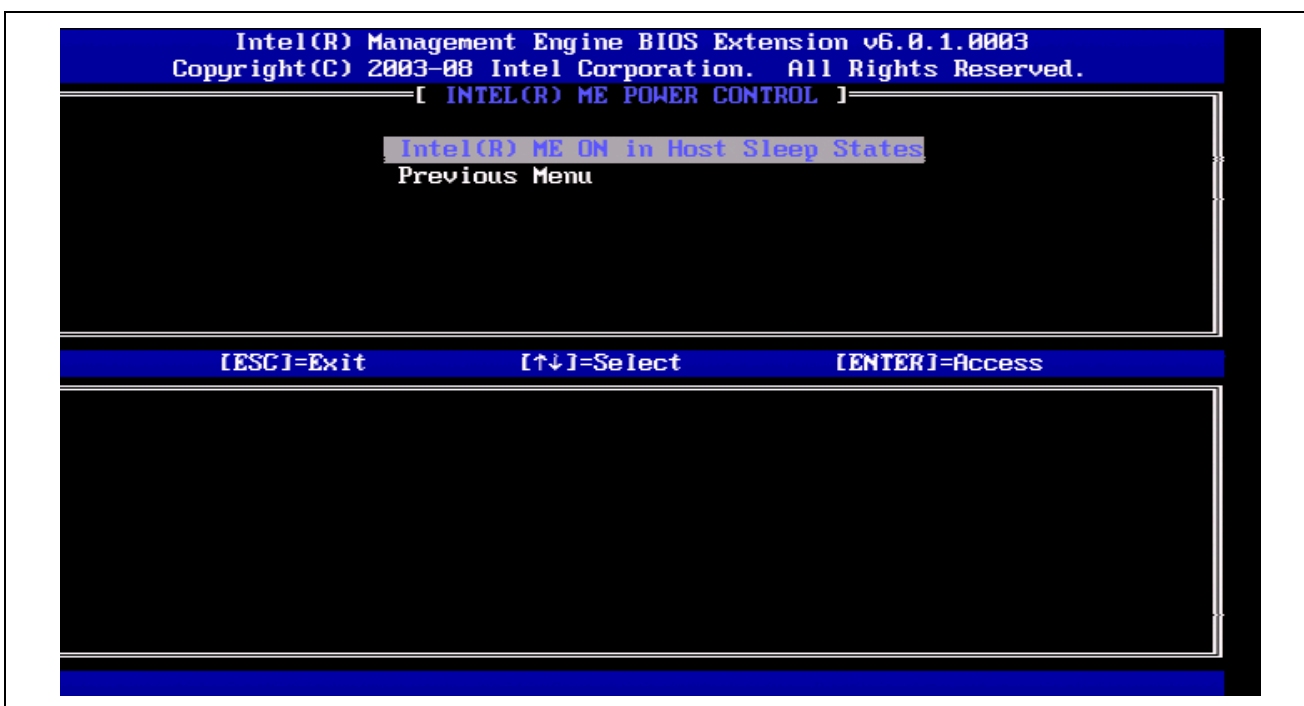
3.14 Power Control

Under Intel® ME Platform Configuration,

1. Select 'Power Control'.
2. Press Enter.

The Intel® ME Platform Configuration screen changes to the Intel® ME Power Control screen.

Figure 63: Power Control



To comply with ENERGY STAR* requirements, the Intel ME can be turned off in various sleep states. The Intel ME Power Control menu configures the Intel ME platform power related policies.

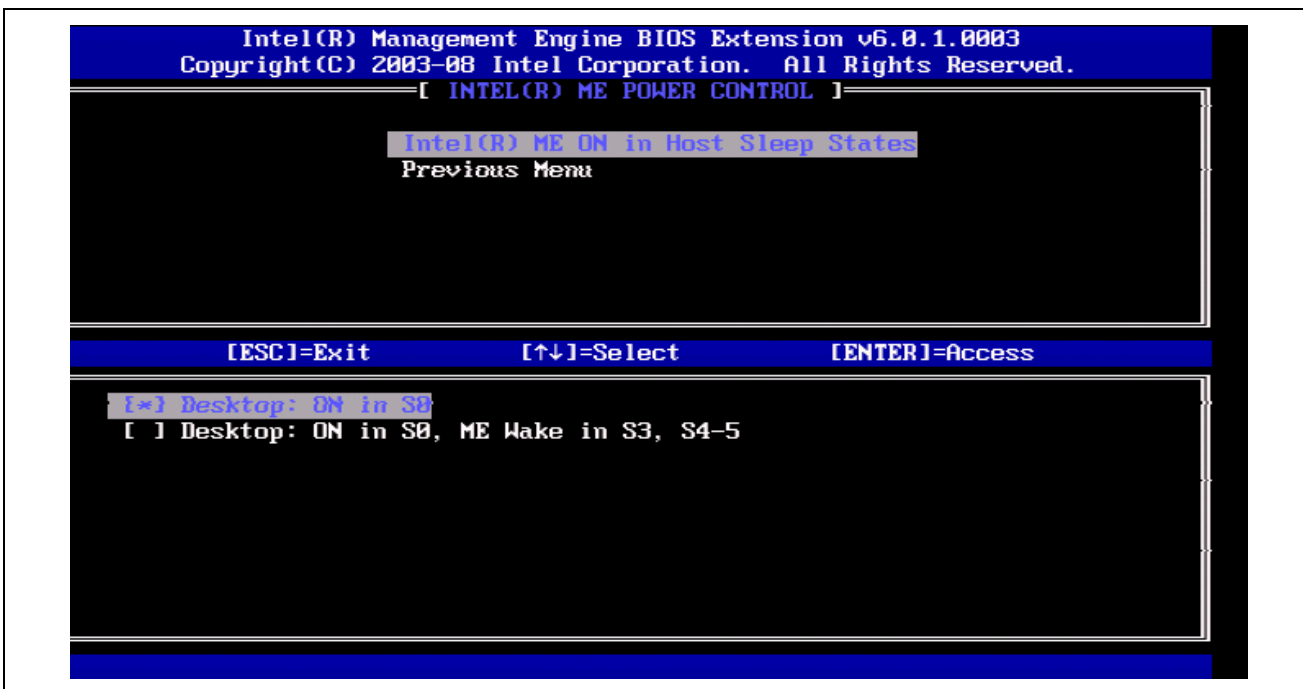


3.14.1 Intel® ME ON in Host Sleep States

Under Intel® ME Power Control,

1. Select 'Intel® ME ON in Host Sleep States'.
2. Press Enter.

Figure 64: Intel® ME ON in Host Sleep States



The selected power package determines when the Intel ME is turned ON. The default power package can be modified by using FITC or by FPT.

The end user administrator can choose which power package to use depending on the systems usage.

The table below illustrates the details of the power packages.

With Intel ME WoL, after the time-out timer expires, the Intel ME remains in the M-off state until a command is sent to the ME. After this command has been sent, the Intel ME will transition to an M0 or M3 state and will respond to the next command that is sent. A ping to the Intel ME will also cause the Intel ME to go into an M0 or M3 state.

The Intel ME takes a short time to transition from the M-off state to the M0 or M3 state. During this time, Intel AMT will not respond to any Intel ME commands. When the Intel ME has reached the M0 or M3 state, the system will respond to Intel ME commands.



Table 7: Supported Power Packages

Power Package	1	2
S0	ON	ON
S3	OFF	ME WoL
S4/S5	OFF	ME WoL

3. Select the desired Power Policy
4. Press Enter.

3.14.2 Previous Menu

Under Intel® ME Platform Configuration,

1. Select 'Previous Menu'.
2. Press Enter.

The Intel® ME Power Control screen changes to the Intel® ME Platform Configuration screen.

3.15 Previous Menu

Under Intel® ME Platform Configuration,

1. Select 'Previous Menu'.
2. Press Enter.

The Intel® ME Platform Configuration screen changes to the Main Menu.

3.16 Intel® AMT Configuration

Under the Main Menu,

1. Select 'Intel® AMT Configuration'.
2. Press Enter.

The Main Menu changes to the Intel® AMT Configuration screen.

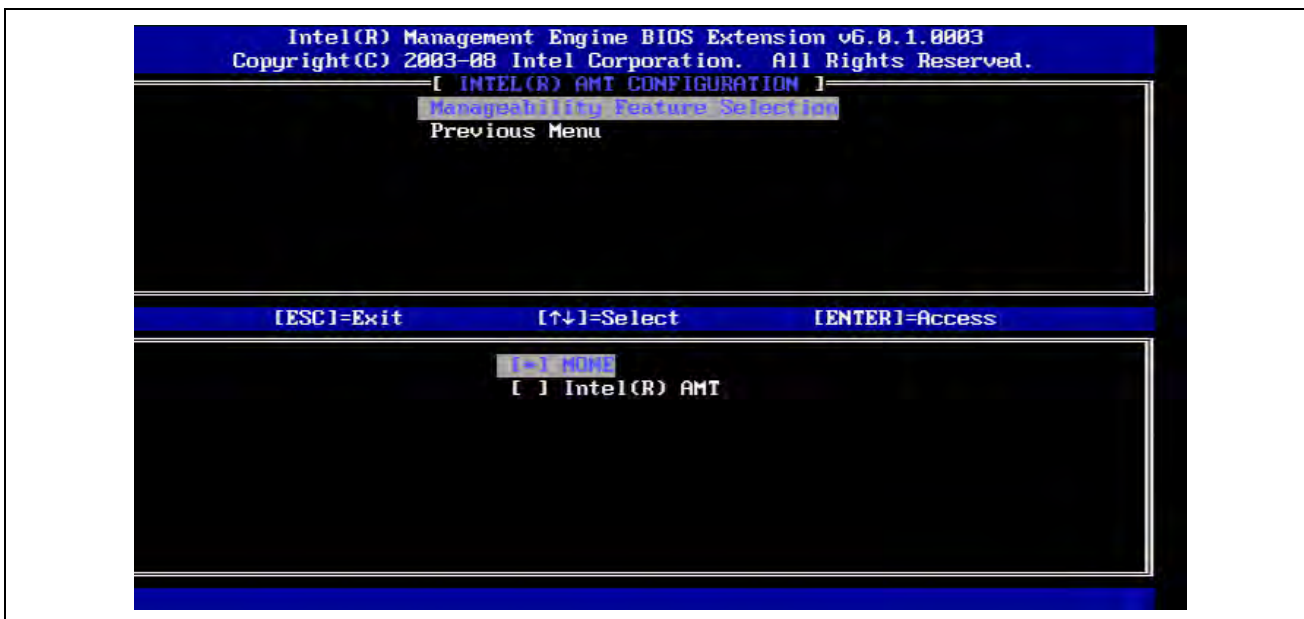


3.16.1 Manageability Feature Selection

Under the Intel® AMT Configuration screen,

1. Select 'Manageability Feature Selection'.
2. Press Enter.

Figure 65: Manageability Feature Selection



When Intel® ME Manageability Feature Selection is selected in the Intel ME Features Control menu, the Intel ME manageability feature menu will be shown.

This option can be used to choose the required manageability feature.

- Intel® AMT/Intel® Standard Manageability – Intel® Active Management Technology (Intel® AMT). If the system does not meet the minimum system requirements for Intel AMT, only Intel Standard Manageability will be selectable.
- None – Choosing this option means that manageability will not be enabled.

When the option is changed from "Intel® AMT" to "NONE", a warning message will be displayed. If the user accepts the change from "Intel® AMT" to "None", Intel AMT will go through a full un-provision. If the "None" option is selected, there is no manageability feature provided by the Intel ME system, so management applications will not be able to use the Intel ME. However, Intel ME is still enabled (the Intel ME firmware is still running).



To select None:

1. Select 'None'.
2. Press Enter.

To select Intel® AMT:

1. Select 'Intel® AMT'.
2. Press Enter.

3.16.2 SOL/IDER

Under the Intel® AMT Configuration,

1. Select 'SOL/IDER'.
2. Press Enter.

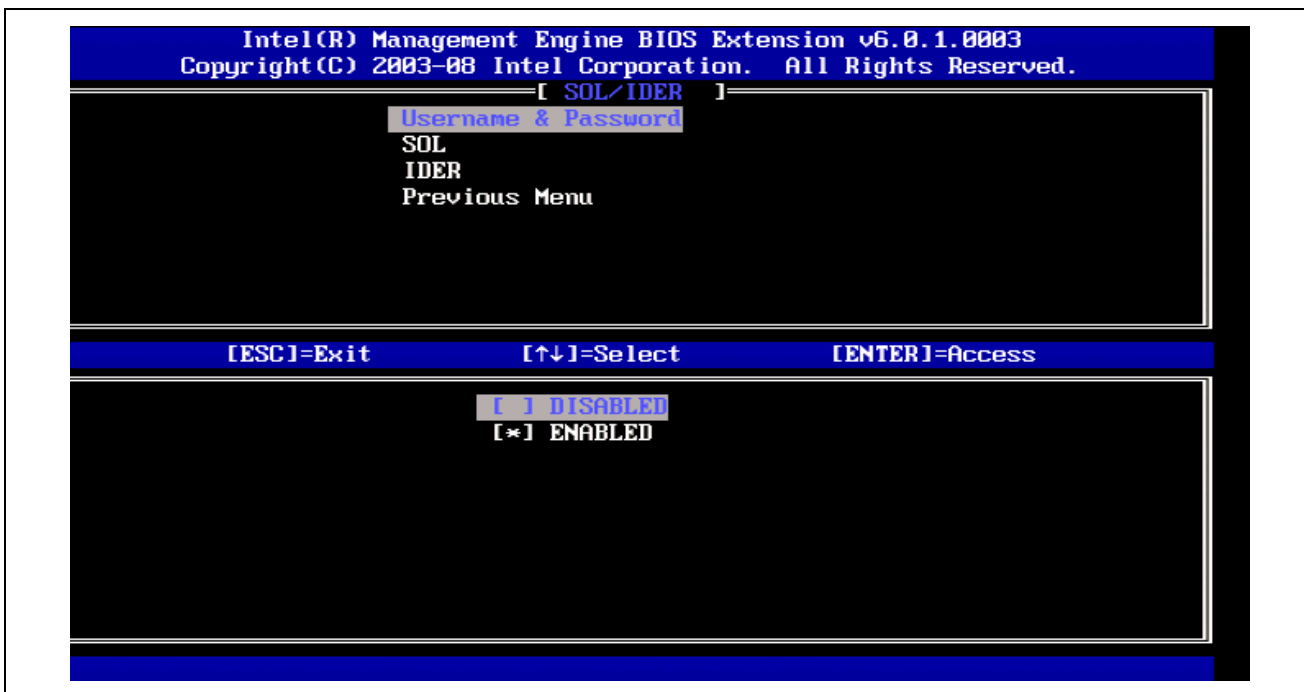
The Intel® AMT Configuration changes to the SOL/IDER screen.

3.16.2.1 Username and Password

Under the SOL/IDER screen,

1. Select 'Username and Password'.
2. Press Enter.

Figure 66: Username and Password





This option provides the user authentication for SOL/IDER session. If Kerberos* is used, this option should be set to DISABLED. The user authentication is handled through Kerberos*. If Kerberos* is not used, the IT administrator has the choice to enable or disable user authentication on SOL/IDER session.

The following options can be selected:

Disabled- Username and Password is disabled.

Enabled- Username and Password is enabled.

To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

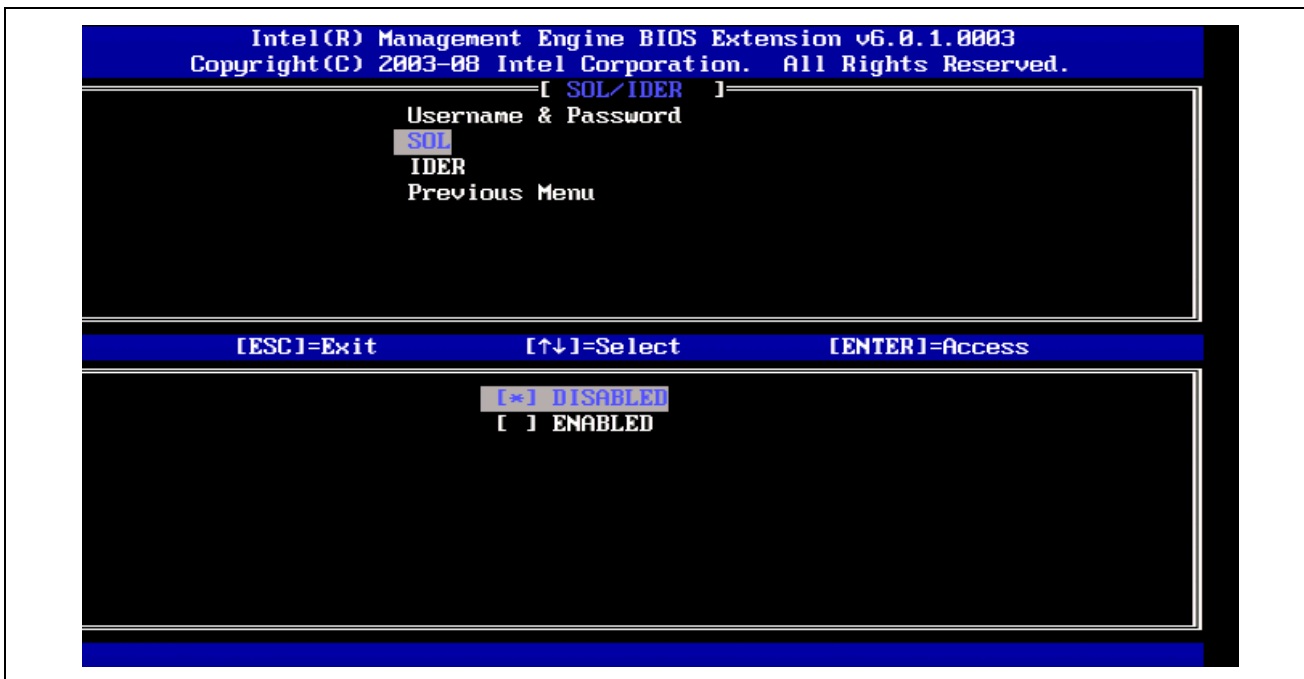
1. Select 'Enabled ID'.
2. Press Enter.

3.16.2.2 SOL

Under the SOL/IDER screen,

1. Select 'SOL'.
2. Press Enter.

Figure 67: SOL



SOL allows the console input/output of an Intel AMT-managed client to be redirected to a management server console (if the client system supports SOL). If the system does not support SOL, this value cannot enable it.



The following options can be selected:

Disabled- SOL is disabled.

Enabled- SOL is enabled.

To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

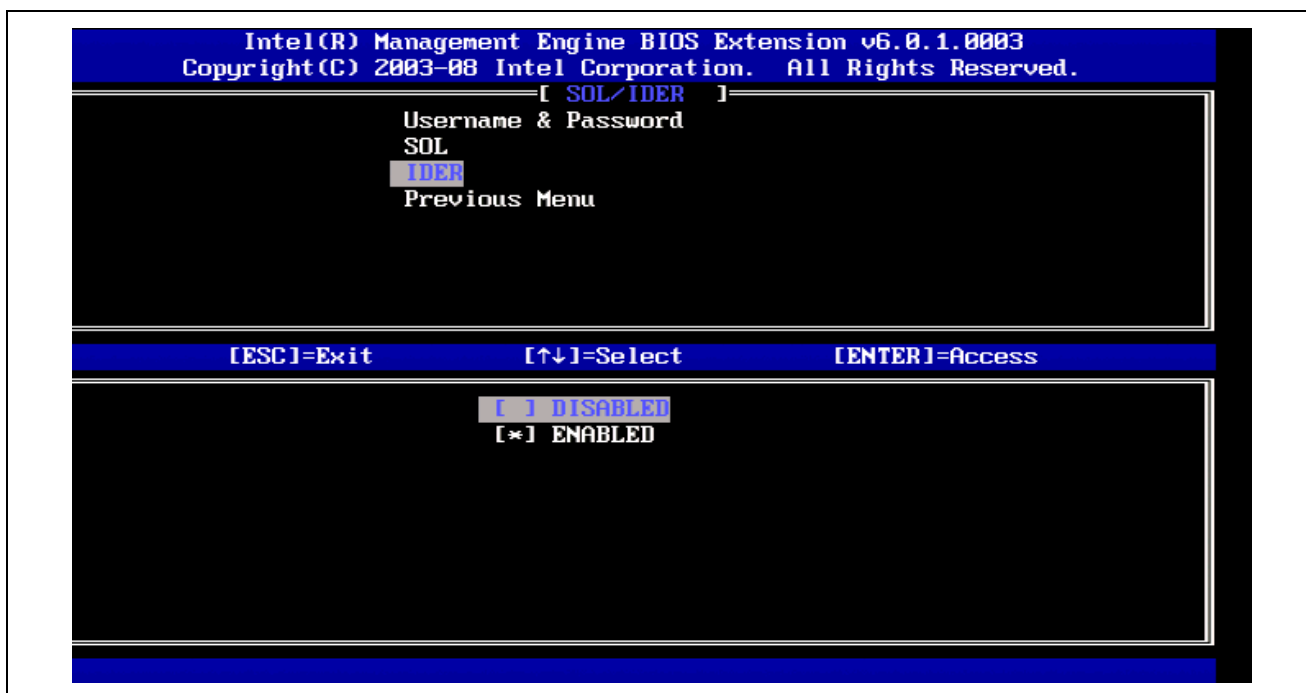
1. Select 'Enabled ID'.
2. Press Enter.

3.16.2.3 IDER

Under the SOL/IDER screen,

1. Select 'IDER'.
2. Press Enter.

Figure 68: IDER



IDE-R allows an Intel AMT-managed client to be booted by a management console from a remote disk image. If the client system does not support IDE-R, this value cannot enable it.

The following options can be selected:

Disabled- IDER is disabled.

Enabled- IDER is enabled.



To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

1. Select 'Enabled ID'.
2. Press Enter.

3.16.2.4 Previous Menu

Under the SOL/IDER screen,

1. Select 'Previous Menu'.
2. Press Enter.

The SOL/IDER screen changes to the Intel® AMT Configuration screen.

3.16.3 KVM Configuration

Under the Intel® AMT Configuration,

1. Select 'KVM Configuration'.
2. Press Enter.

The Intel® AMT Configuration changes to the KVM Configuration screen.

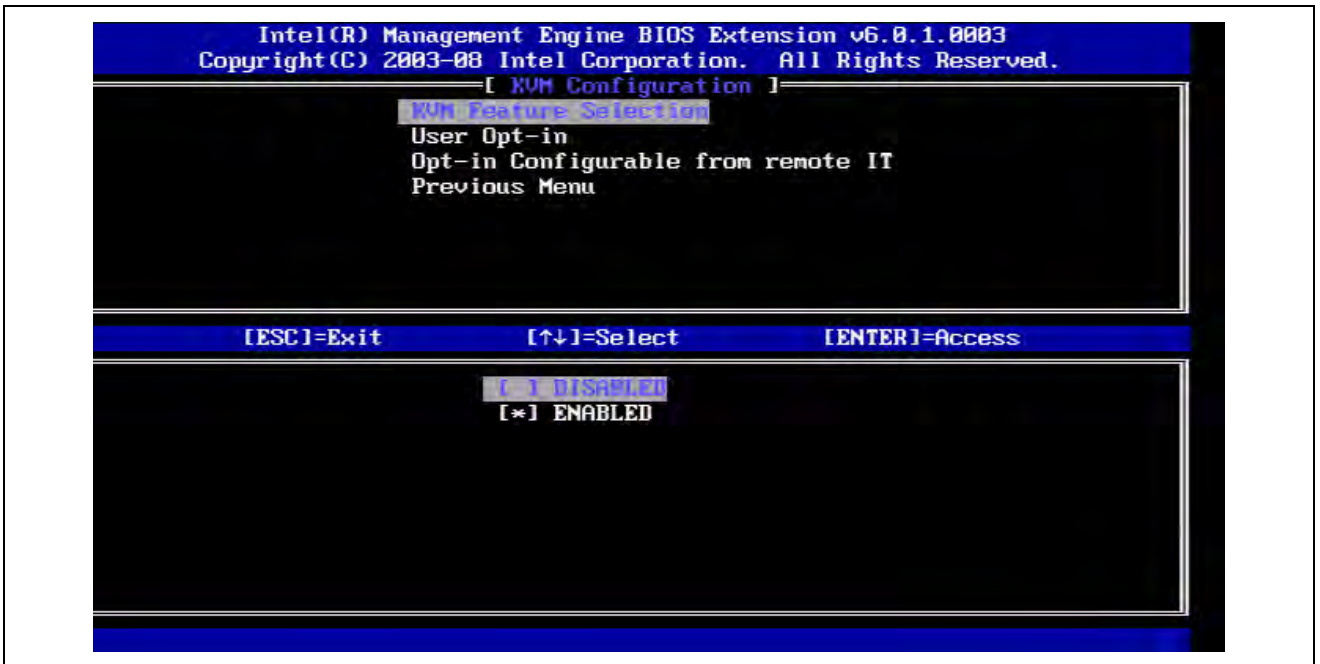


3.16.3.1 KVM Feature Selection

Under the KVM Configuration screen,

1. Select 'KVM Feature Selection'.
2. Press Enter.

Figure 69: KVM Feature Selection



The following options can be selected:

- Disabled - Disable KVM Feature.
- Enabled - Enable KVM Feature.

To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

1. Select 'Enabled'.
2. Press Enter.

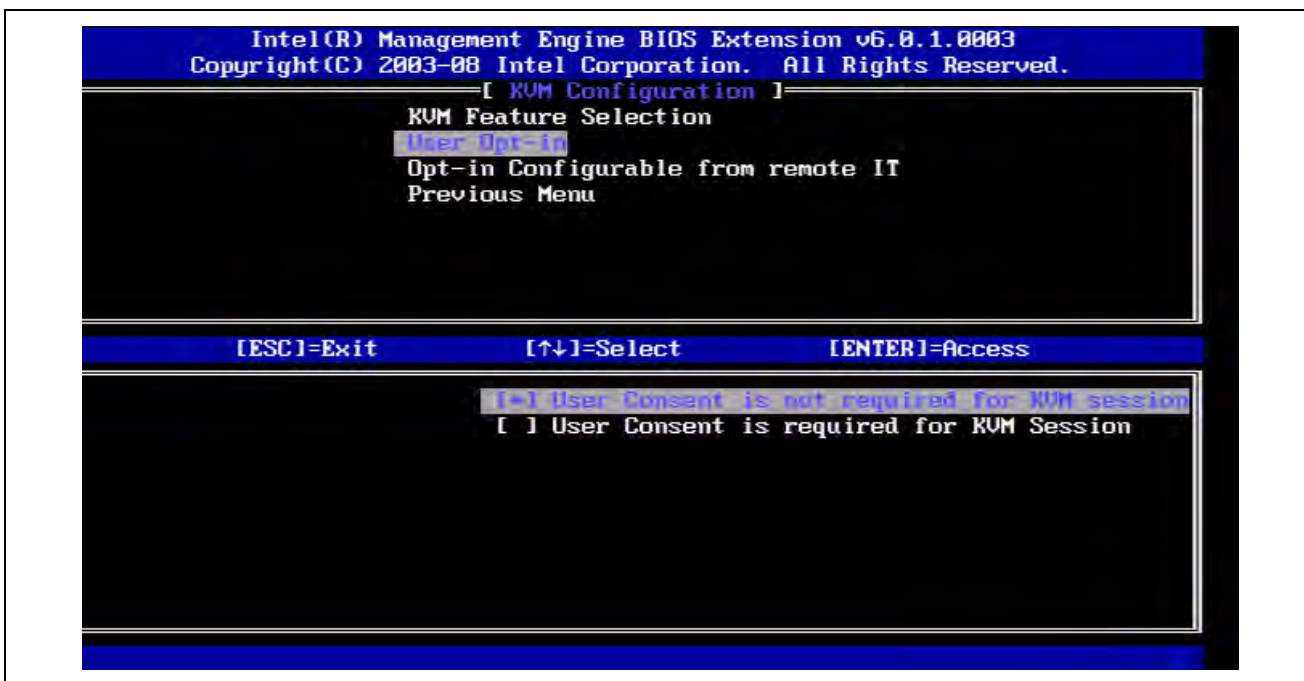


3.16.3.2 User Opt-in

Under the KVM Configuration screen,

1. Select 'User Opt-in'.
2. Press Enter.

Figure 70: User Opt-in



The following options can be selected:

- Local User Consent is not required for remote establishment of KVM session
- Local User Consent is required for remote establishment of KVM session

To select User Consent is not required for KVM session:

1. Select 'User Consent is not required for KVM session'.
2. Press Enter.

To select User Consent is required for KVM session Enabled:

1. Select 'User Consent is required for KVM session'.
2. Press Enter.

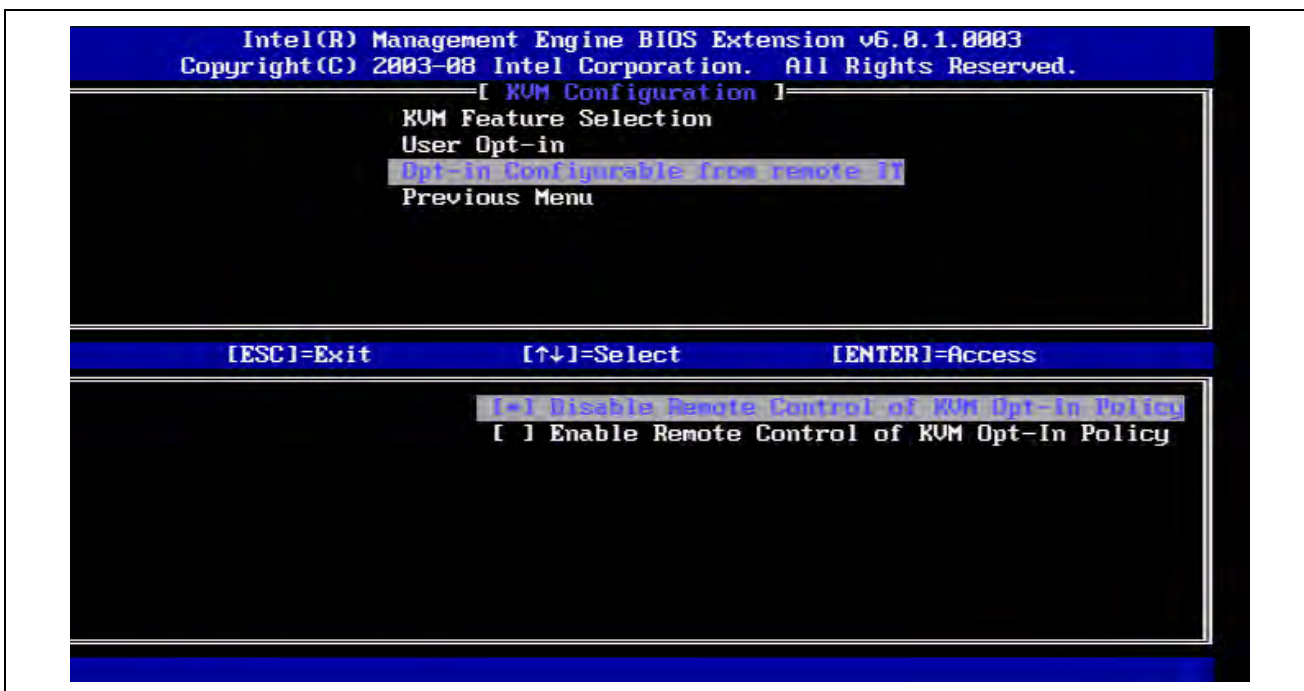


3.16.3.3 Opt-in Configurable from remote IT

Under the KVM Configuration screen,

1. Select 'Opt-in Configurable from remote IT'.
2. Press Enter.

Figure 71: Opt-in Configurable from remote IT



The following options can be selected:

Disable Remote Control of KVM Opt-in Policy - Disables Remote User's ability to select User OPT-IN Policy.

Enable Remote Control of KVM Opt-in Policy - Enables Remote User's ability to select User OPT-IN Policy.

To select Disable:

1. Select 'Disable Remote Control of KVM Opt-in Policy'.
2. Press Enter.

To select Enable:

1. Select 'Enable Remote Control of KVM Opt-in Policy'.
2. Press Enter.



3.16.3.4 Previous Menu

Under the KVM Configuration screen,

1. Select 'Previous Menu'.
2. Press Enter.

The KVM Configuration screen changes to Intel® AMT Configuration.

3.16.4 Previous Menu

Under the Intel® AMT Configuration,

1. Select 'Previous Menu'.
2. Press Enter.

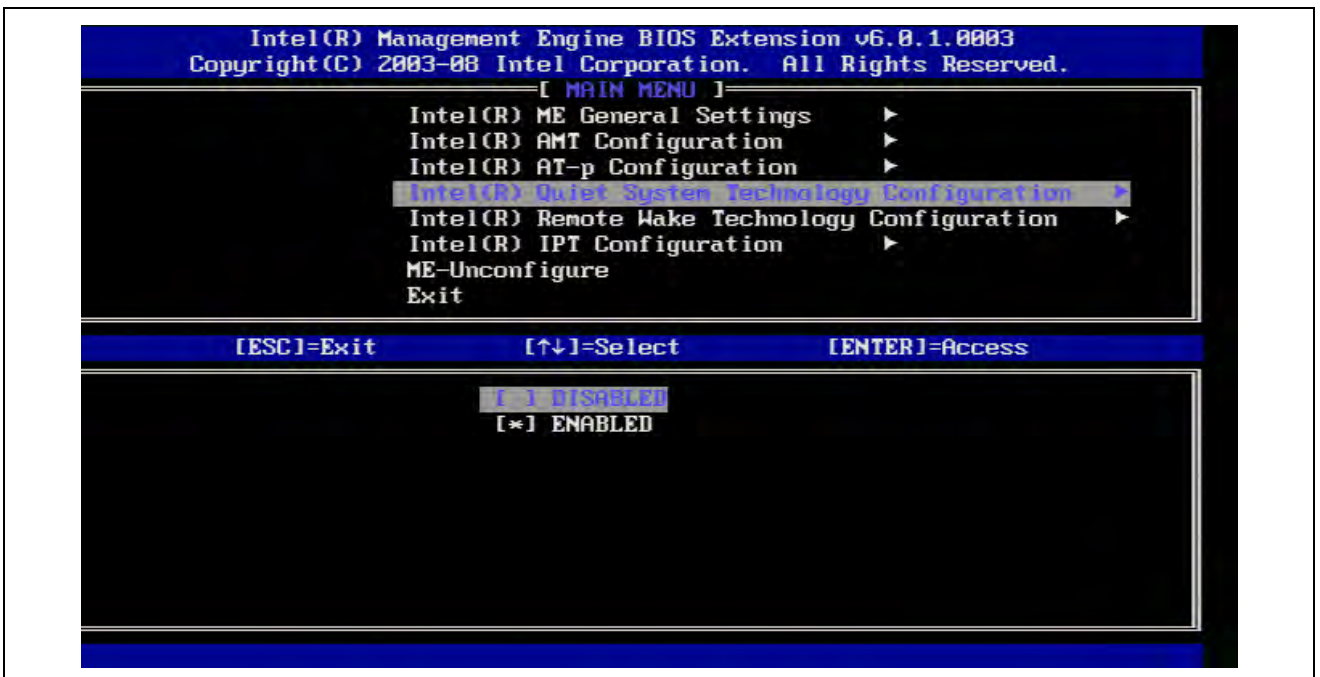
The Intel® AMT Configuration screen changes to Main Menu.

3.17 Intel® Quiet System Technology Configuration

Under the Main Menu,

1. Select 'Intel® Quiet System Technology Configuration'.
2. Press Enter.

Figure 72: Intel® Quiet System Technology Configuration





Intel® Quiet System Technology (Intel® QST) is Intel's advanced system temperature and fan speed control technology, which utilizes the internal and external thermal sensors to optimize the acoustic and thermal performance of the system in both steady state and transient power conditions.

When the Intel QST Feature Select option is selected in the Intel ME Feature Control menu, the Advanced Fan Speed Control Feature Select menu is displayed

Table 8: Advanced Fan Speed Control Feature Select Option

Option	Description
Enabled	Intel® Quiet System Technology is enabled
Disabled	Intel® Quiet System Technology is disabled

To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

1. Select 'Enabled ID'.
2. Press Enter.

3.18 Intel® Remote Wake Technology Configuration

Under the Main Menu,

1. Select 'Intel® Remote Wake Technology Configuration'.
2. Press Enter.

The Main Menu changes to the Intel® Remote Wake Technology Configuration screen.

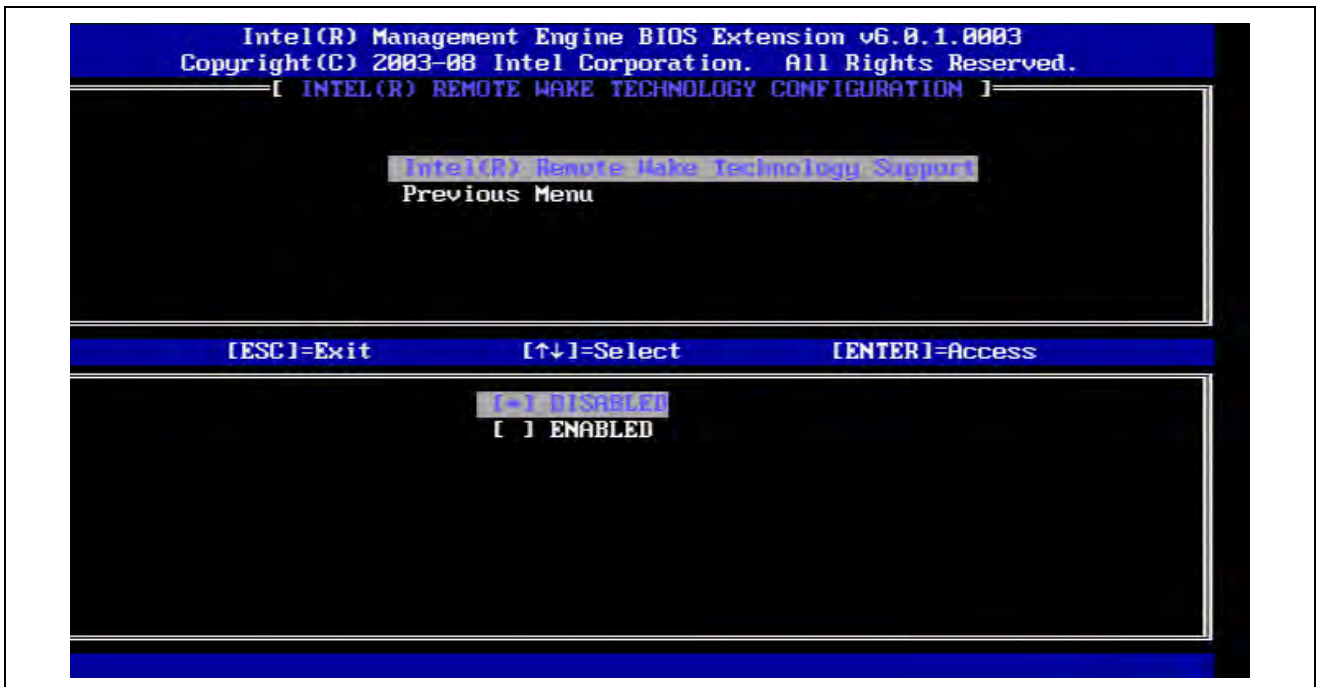


3.18.1 Intel® Remote Wake Technology Support

Under the Intel® Remote Wake Technology Configuration,

1. Select 'Intel® Remote Wake Technology Support'.
2. Press Enter.

Figure 73: Intel® Remote Wake Technology Support



This menu option allows the user to enable or disable Intel® Remote Wake Technology (Intel® RWT) settings. This option is only available on Digital Home platforms.

The following options can be selected:

Disabled- Intel® Remote Wake Technology Support is disabled.

Enabled- Intel® Remote Wake Technology Support is enabled.

To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

1. Select 'Enabled'.
2. Press Enter.

Enabling will cause a menu option to be added. (See Figure 74)



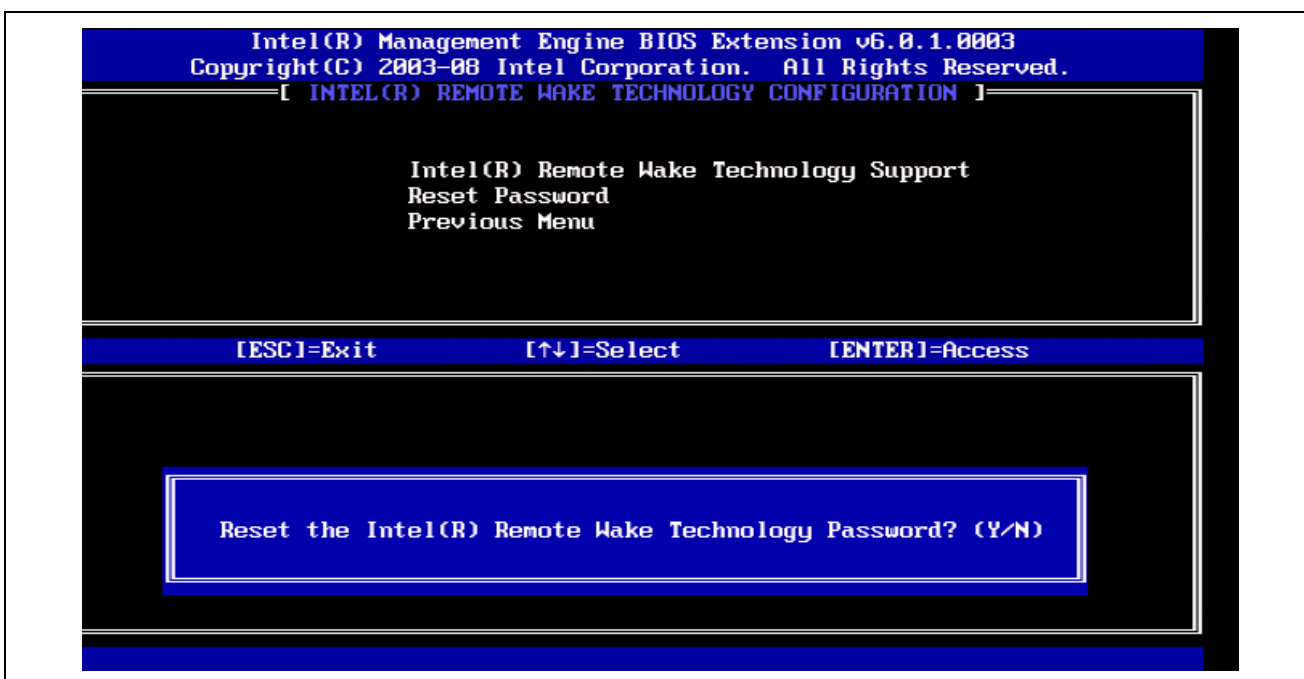
3.18.2 Reset Password

Under the Intel® Remote Wake Technology Configuration,

1. Select 'Reset Password'.
2. Press Enter.

A message will be displayed: "reset the Intel® remote Wake Technology Password? (Y/N)"

Figure 74: Reset Password



To select yes, enter 'Y'.

To select no, enter 'N'.

3.18.3 Previous Menu

Under the Intel® Remote Wake Technology Configuration,

1. Select 'Previous Menu'.
2. Press Enter.

The Intel® Remote Wake Technology Configuration screen changes to the Main Menu.

3.19 Intel® IPT Configuration

Under the Main Menu,



1. Select 'Intel® IPT Configuration'.
2. Press Enter.

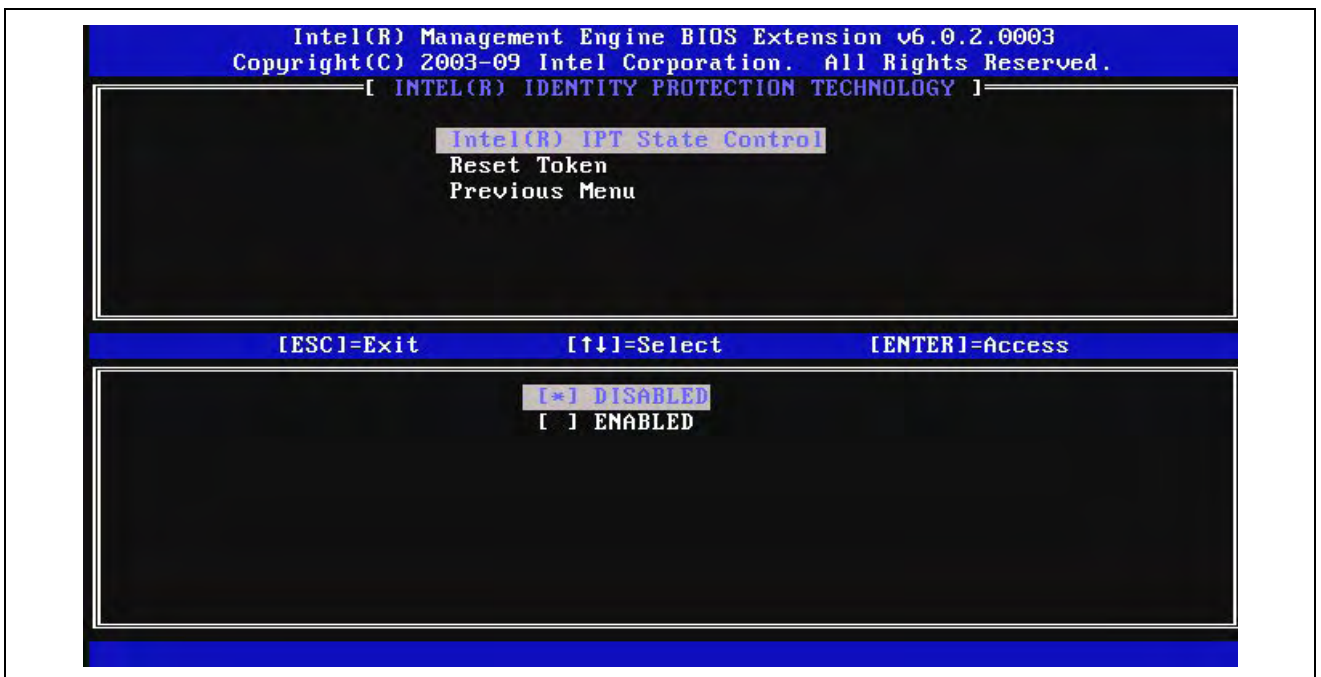
The Main Menu changes to the Intel® IPT Configuration screen.

3.19.1 Intel® IPT State Control

Under the Intel® IPT Configuration,

1. Select 'Intel® IPT State Control'.
2. Press Enter.

Figure 75: Intel® IPT State Control



The following options can be selected:

Disabled- Intel® IPT State Control is disabled.

Enabled- Intel® IPT State Control is enabled.

To select Disabled:

1. Select 'Disabled'.
2. Press Enter.

To select Enabled:

1. Select 'Enabled ID'.
2. Press Enter.

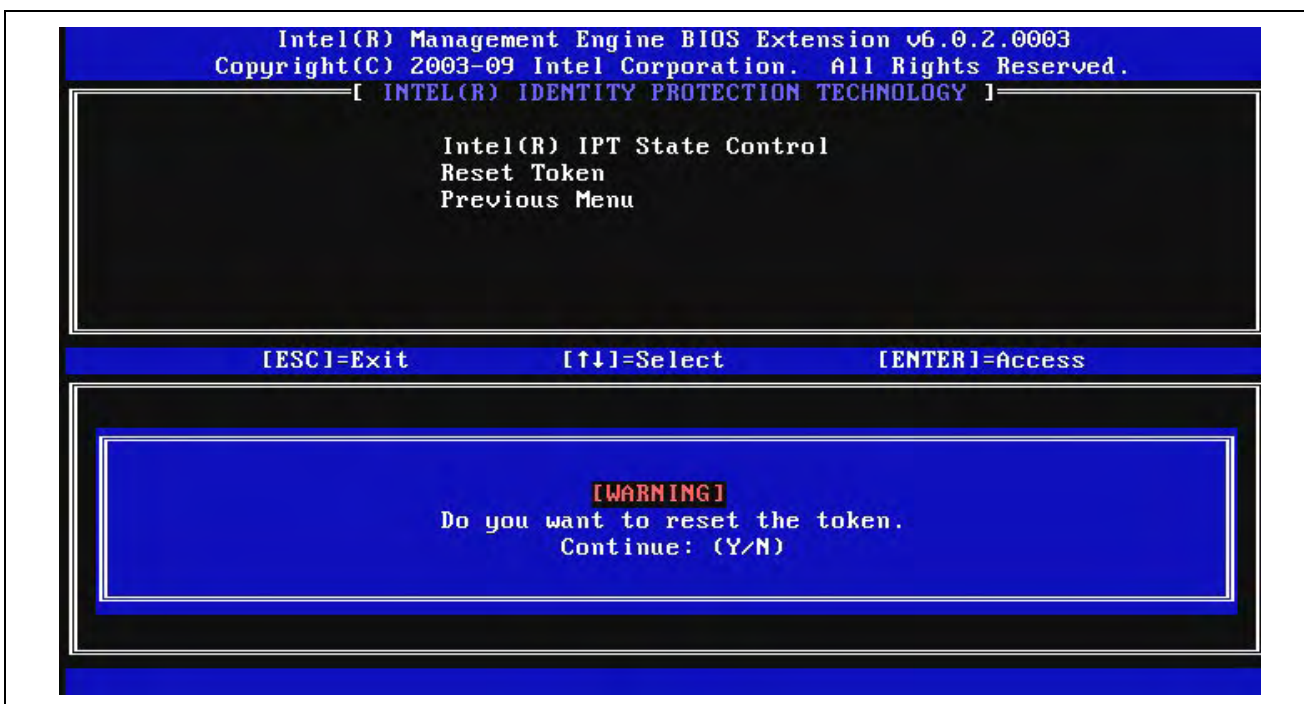


3.19.2 Reset Token

Under the Intel® IPT Configuration,

1. Select 'Reset Token'.
2. Press Enter.

Figure 76: Reset token



To select yes, enter 'Y'.

To select no, enter 'N'.

3.19.3 Previous Menu

Under the Intel® IPT Configuration,

1. Select 'Previous Menu'.
2. Press Enter.

The Intel® IPT Configuration screen changes to the Main Menu.

3.20 ME-Unconfigure

Under the main menu,



1. Select 'ME-Unconfigure'.
2. Press Enter.

3.21 Exit

Under the Main Menu,

1. Select 'Exit'.
2. Press Enter.

A message will be displayed: "Are you sure you want to exit? (Y/N)"

Enter 'Y' to exit.