

## Configuring System Area Manager with Intel® vPro™ technology-based computers

### Requirements

- SyAM System Area Manager version 4.34 or above
- vPro technology-based computer with Intel Q57 based chipset (Running Intel AMT firmware 6.0 or above) with an i5 or i7 processor with integrated graphics
- SyAM System Client version 4.34 or above

### 6 Simple Steps to Full Manageability

1. Configure the Management Engine on the vPro computer
2. Install SyAM System Client on the vPro computer
3. Install SyAM System Area Manager on a system (Server or Desktop) of your choice.
4. Add the System Client to System Area Manager
5. Configure AMT Remote Control IP / Username / Password
6. Configure AMT KVM Settings

### Step 1 - Configuring the Management Engine on the vPro computer

For large environments you can configure the Management Engine (ME) settings automatically using a vPro Provisioning Server. The SyAM System Client will unattendedly have the vPro computer communicate with the vPro Provisioning server if not configured, and this will then get the defined settings applied directly to the ME. For smaller environments you can manually configure the Management Engine. (Depending upon your vendors BIOS you can access the ME by entering into the BIOS and choosing the ME menu option, or you will be presented during boot up a CTRL P option to enter the ME).

The first time you configure the ME it will use a factory default password of “**admin**”. It will then prompt you to enter a new password that contains upper and lower case letters, digits and special characters. example “**P@ssw0rd**”

Once you have saved the password you will be presented with the ME Menu

```
Intel(R) Management Engine BIOS Extension v6.0.3.0019/Intel(R) ME v6.0.30.1203
Copyright(C) 2003-09 Intel Corporation. All Rights Reserved.
-----[ MAIN MENU ]-----
Intel(R) ME General Settings      ▶
Intel(R) AMT Configuration       ▶
Intel(R) Quiet System Technology Configuration ▶
Exit
```

Choose the Intel(r) ME General Settings, then choose Network Setup and configure the Machine name, Domain Name if required, and IPV4 TCP/IP Configuration either as DHCP enabled or with Static IP network setting information and set to enable.

```
[ INTEL(R) NETWORK SETUP ]
Intel(R) ME Network Name Settings ▶
TCP/IP Settings ▶
Previous Menu
```

From the Intel(r) ME Platform Configuration menu choose Power Control and set the Intel(r) ME ON in Host Sleep States to Desktop ON in S0, ME Wake in S3, S4-5

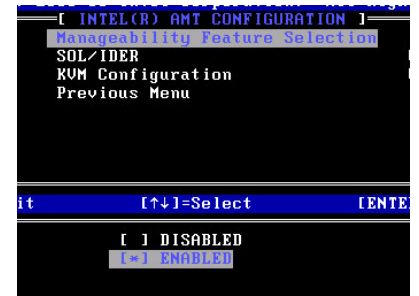
```
[ ] Desktop: ON in S0
[*] Desktop: ON in S0, ME Wake in S3, S4-5
```

### Benefits

- Full KVM Control of your computer at any time, boot, pre-operating system, interactive with user in Operating System
- Optional User Approval security settings
- Full Power Management independent of system state
- Secure Power On / Off / Reset commands
- Image redirection
- System Defense physical layer network policy controls
- Hardware System Event log

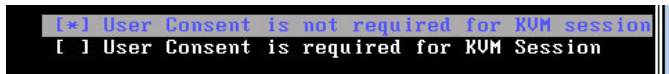
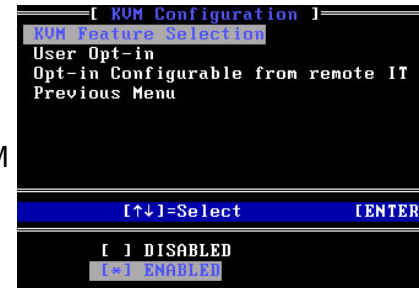
## Configuring the Management Engine on the vPro computer continued...

Choose Intel(r) AMT Configuration, then from the next menu choose Manageability Feature Selection and set to Enabled



Choose SOL/IDER, then from the next menu choose Legacy Redirection Mode and set to enable.  
(This will give you the Serial Over LAN option in addition to KVM)

Choose the KVM Configuration option and Enable KVM, Set User Consent for Opt in Session to Not Required  
(This will keep you from having to always enter the user code to gain KVM access) and Enable Remote Control of Opt in Policy  
(This will give you the option to configure having the user code approval to get KVM)



Now press Escape and Y to save your settings and exit BIOS.

To confirm that your ME settings have been correctly programmed open up a web browser on another machine and browse to the embedded web server using the ip address you set for the ME and port 16992

**example- <http://192.168.100.29:16992>**

If you do not get the AMT Logon screen go back into the ME and check the settings.

## Step 2 - Install SyAM System Client on the vPro computer

Once you have loaded a supported operating system and the Intel Management Engine drivers, you can load the SyAM System Client software.

The software will automatically discover the physical and logical sensors on the computer and start real-time monitoring without any user intervention.

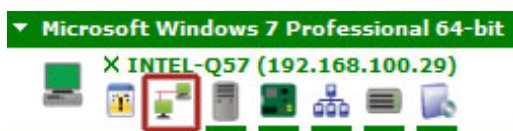
## Step 3 - Install SyAM System Area Manager on a different system

Please load the SyAM System Area Manager software onto the computer you have designated to be the system to manage all of your systems from.

This system must have a static IP on your LAN.

## Step 4 - Add the System Client to System Area Manager

Log into System Area Manager using your Windows credentials, from the drop down menu choose Add Managed Systems, enter the IP address of the vPro system and press Apply. Once the System Client has been discovered, it will be added to the Management tree. Now click on the system in the tree to expand and show the icons, and click on the second icon to choose Remote Management.



## Compatibility

### System Client

- Windows XP Pro
- Windows Vista Business
- Windows 7 Professional
- Windows 7 Ultimate

### System Area Manager

- Windows XP Pro
- Windows Vista Business
- Windows 7 Professional
- Windows 7 Ultimate
- Windows 2003 Server
- Windows 2008 Server

## Step 5 - Configure AMT Remote Control IP / Username /Password

On the Remote Management page choose the AMT Tab, this will bring you to the AMT Configuration screen.

On this screen enter the IP Address, Username (**admin** which is the default AMT username) and Password that you configured in the ME for the AMT connection and click Apply.

If you have the ME set to DHCP do not edit the IP Address field, so it will change the IP Address to communicate with the AMT system as the DHCP server provides a new IP Address.

If you edit the IP Address field it will set the IP address as a static IP and will not change.

Remote Management : INTEL-Q57 (192.168.100.29)

AMT Configuration | AMT Remote Control | AMT System Defense | AMT KVM

### AMT Connection Information

Hostname / IP Address:

Username:

Password:

## Step 6 - Configure AMT KVM Settings

Click on the AMT KVM Tab, then click on Establish AMT Connection

- If your KVM is enabled and configured in the ME you will be presented the AMT KVM screen

- If your KVM is not configured or enabled in the ME you will get an error message *KVM must be enabled in your management engine.*

Remote Management : GIGAQ57 (192.168.100.28)

AMT Configuration | AMT Remote Control | AMT System Defense | AMT KVM

### AMT KVM

Local user approval required

Timeout (seconds) 60

KVM Password  Monitor 0  Monitor 1

KVM Inactivity Timeout (minutes) 5

KVM Status: Running

By checking off Local User Approval Required you will require the user to provide you with the pass-code presented on their screen and enter this onto your interface before you can take remote control of their system.

The timeout is the number of seconds you have to enter this code before the remote connection is closed.

The KVM Password is the password programmed into the ME, this is required to log into the Remote system's KVM. The password must be 8 characters and contain upper and lower case, numbers and characters. example: **P@ssw0rd**

The KVM Inactivity Timeout is the number of minutes the remote KVM connection will disconnect with the remote system when there has been no mouse or keyboard activity to the remote system through the browser.

After you have applied the password and settings, you must start the KVM before you can Launch the KVM. You can stop the KVM after it has been used for additional security.

When you click the Launch KVM button you will be presented with the KVM Authentication screen.

**KVM Authentication**

Password

The end user at the remote system will know when you have the AMT KVM functioning by a flashing monitor symbol in the top right hand corner of their window



## Terms Used

**AMT** - Active Management Technology

**KVM** - Keyboard Video Mouse

**ME** - Management Engine

**SOL** - Serial Over LAN

**SyAM** - System Area Manager

**System Defense** - Network port / protocol restrictions set at the AMT physical layer