Preface

This document provides details and defines the requirements needed on the customer side prior and during a Power Manage III server installation and configuration.

The installation will be performed by a technical support engineer.

The customer is required to read the relevant sections throughout the entire document and to verify to the point of contact at Tyco/Visonic that all of the requirements will be met on the installation date. A moderate level of server-based knowledge and experience is assumed.

Supported Hardware

**HP ProLiant DL360p G8 Server [670634-S01]**

- Form Factor: 1U Rack Server
- Dimensions: 4.32 x 42.62 x 69.22 [HxWxD, cm]
- Processor: (2) Intel Xeon E5-2640 (6 core, 2.5 GHz, 15Mb, 95W)
- Memory: 32GB (4 x 8GB) Registered DIMMs PC3-12800R (1600MHz)
- Storage Controller: Smart Array P420i/1GB FBWC with Battery
- Hard Drives: HP 2 x 600 GB SAS 10k 2,5” SFF
- Power Supply: Redundant
- ILO: Advanced

more details:

**HP ProLiant DL360p G8 High Performance Server [646904-001]**

- Form Factor: 1U Rack Server
- Dimensions: 4.32 x 42.62 x 69.22 [HxWxD, cm]
- Processor: (2) Intel Xeon E5-2650 (8 core, 2 GHz, 20 Mb, 95W)
- Memory: 64GB (8 x 8GB) Registered DIMMs PC3-12800R (1600MHz)
- Storage Controller: Smart Array P420i/1GB FBWC with Battery
- Hard Drives: HP 2 x 600 GB SAS 10k 2,5” SFF
- Power Supply: Redundant
- ILO: Advanced

more details:
General

Power Manage III is a highly efficient web based host application for provisioning and management of the home
security and automation services provided by company. Power Manage III elaborates the usage of open
standard technologies and open source OS. More info about Power Manage III refer to Power Manage III Use
Guide.

The following diagrams show the various configuration on customer sites:

- GEO redundancy diagram
- **Local redundancy diagram**

- **Stand Alone diagram**
Rack & Power outlet
Make sure you have enough room in your designated server rack for a 1U sized server and at least one free power outlet. A second power outlet is recommended as the server has two redundant power supplies. More outlets may be required according to the server configuration that is explained in this document.

Network & Firewall
Power Manage III should be connected behind a firewall or a NAT device and using a restrictive policy for access.
- One fixed IP address allocation.
- The DNS host-name with A and PTR records for the allocated IP address.
- A symmetric down-link and up-link connection of 1 Mbit is required at all times.
- No blocking of outbound server connections to the Internet

The whole list of inbound ports which should be opened:

<table>
<thead>
<tr>
<th>Port</th>
<th>Protocol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panels connections</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5001</td>
<td>TCP/UDP</td>
<td>Alarm signals/Resolve</td>
</tr>
<tr>
<td>8080</td>
<td>TCP/UDP</td>
<td>Alarm images</td>
</tr>
<tr>
<td>Web interface</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>HTTP</td>
<td>Resolve Web interface</td>
</tr>
<tr>
<td>80</td>
<td>HTTP</td>
<td>Customer Web Interface</td>
</tr>
<tr>
<td>443</td>
<td>HTTPS</td>
<td>Secure Customer Web interface</td>
</tr>
<tr>
<td>Power Manage API</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4444 [configurable]</td>
<td>V-DCP</td>
<td>Scripts access</td>
</tr>
<tr>
<td>Support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>TCP</td>
<td>SSH</td>
</tr>
<tr>
<td>161</td>
<td>SNMP</td>
<td>Nagios or other platforms</td>
</tr>
<tr>
<td>162</td>
<td>SNMP</td>
<td>Nagios or other platforms</td>
</tr>
<tr>
<td>Extended support [iLO]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>443</td>
<td>HTTPS</td>
<td>iLO Web interface</td>
</tr>
<tr>
<td>17990</td>
<td>TCP/UDP</td>
<td>iLO</td>
</tr>
<tr>
<td>17988</td>
<td>TCP/UDP</td>
<td>iLO</td>
</tr>
<tr>
<td>Messaging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>SMTP</td>
<td>Email or Email relay</td>
</tr>
<tr>
<td>465/587</td>
<td>SMTP</td>
<td>Email or Email relay</td>
</tr>
</tbody>
</table>
HP Lights-Out Management System

The HP iLO (Integrated Lights-out) management system provides a better type of access and control of the server from a remote machine making server administration and support easier and more reliable. For more details about iLO:


The iLO interface uses a separate Ethernet port and thus it needs a separate IP address.

Client machine requirements

Suggested minimum hardware requirements:

- Processor: Intel core i3/AMD single core or faster
- Memory: 2GB RAM
- Networking: Ethernet connectivity

Suggested minimum software requirements:

- Operation system:
  - Windows 7, Windows Vista, Windows XP, etc
  - Red Hat Linux, Ubuntu Linux, etc.
  - Mac OS
- Browsers:
  - Google Chrome 14+
  - Firefox 6+
  - Safari S5+
  - Internet Explorer 8+ [limiter support]
- SSH agent
  - PyTTY
  - OpenSSH agent
  - ssh-agent for MAC

During the installation

A local network engineer/administrator must be available at the time of installation.

In most cases, the following equipment will be on site during the installation:

- USB keyboard
- Console or Monitor
- Power Master 10/30 panels.
Installation guide

The installation system is easy to use and consists of only a few steps.

There are two installation methods possible when installing Power Manage III. The first is to install from DVD. The second is to install from USB stick.

Installing from DVD

1. Obtain DVD media from Tyco technical support team.
2. Place DVD into DVD drive and boot the server.
3. Define right boot order in your server's BIOS to activate booting from DVD ROM.
4. The system should boot up and you should be presented with the following screen:

   ![Visonic — PowerManage Master Disk](image)

5. Type “HP” to choose installation for HP server
6. Type “Yes” if the system request to format Hard drive
7. When installation done the server automatically rebooted
8. Once your system boots, you'll be presented with the log in prompt.
9. Log in using the root login and default password.

Installing from USB stick

1. Obtain DVD media from Tyco technical support team.
2. Plug your USB stick into some free USB connector and reboot the server.
3. Next steps are the same as for DVD