Honeywell

Technical Information

# Experion EHM Specification

## EP03-070-520, Rev 2.0

**Release 110**

**September 2024**

## Revision History

| Revision | Date | Description |
|---|---|---|
| 1.0 | February 2023 | Initial Release of Experion EHM |
| 2.0 | September 2024 | R110 release of Experion EHM |

## Reference Documents

| Document Name | Document Number |
|---|---|
| Experion EHM User's Guide | 34-VT-25-05 |
| Honeywell Versatilis Transmitter User's Guide | 34-VT-25-01 |

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# 1. Experion EHM Overview

Experion® Equipment Health Monitoring (EHM) solution is based on proven Experion HS platform and can be used by plant managers and reliability engineers in process manufacturing facilities to monitor the health of rotating equipment. This enables maximizing equipment availability and reliability. Built on the proven Experion HS platform, it is reliable, flexible, easy to use, and scalable for any plant setup. Honeywell EHM solution enables collection, contextualization, and visualization of health-related parameters of industrial equipment.

Key features of Experion EHM solution include-

- Secure connectivity to Honeywell Versatilis Transmitters over MQTT.
- Supports LoRaWAN® communication technology through Industrial standard Gateways.
- Configure sensor devices with corresponding Assets in a Plant hierarchy.
- Sensor parameters data visualization using Summary view and Drilldown device dashboards.
- Live and historical trends of Sensor parameters to troubleshoot issues.
- Displays equipment health alarms/ events when an alert is received.
- Quick deployment and requires minimal engineering efforts.
- ISO 10816-3 standard based Vibration alarm indications.
- Secure solution including User and Asset based Security.

# 2. Architecture Overview

Experion EHM solution uses proven Experion HS SCADA functionality to store and organize the data received from Honeywell Versatilis™ Transmitters. Experion EHM connects to the LoRaWAN provider's application server using secure MQTT interface. EHM uses web-clients for visualization of health data where the collected data is represented in the context of industrial equipment it is connected to. Web-clients ensure zero client deployment cost where any existing nodes within the network on customer's enterprise or OEM system can be used to access data on the go.

The collected Equipment health data can also be shared with existing supervisory control system and other enterprise level Management Information System (MIS) for improved decision making via OPC, thanks to open yet secure interfaces supported by Experion platform.

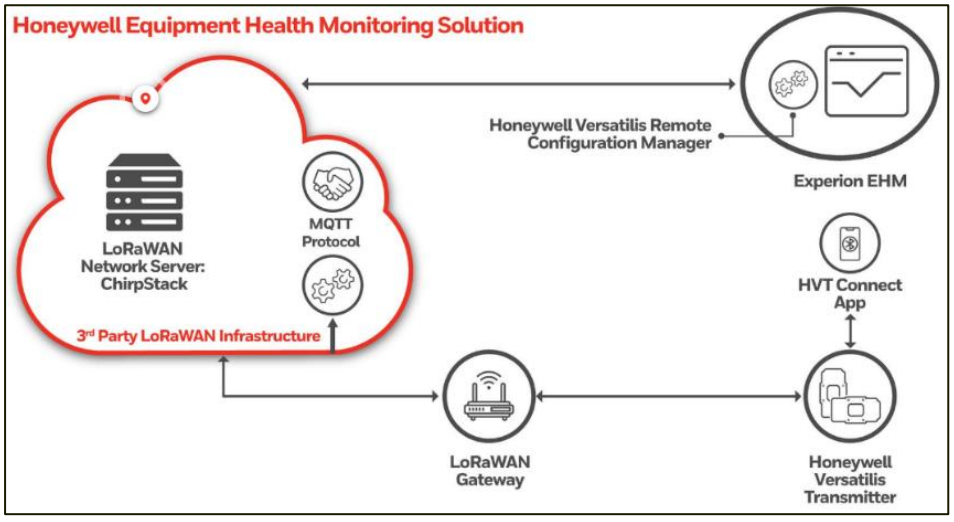



**Figure 1 – Honeywell Versatilis Equipment Health Monitoring Solution Architecture**

For information on HVT EHM integration with other SCADA systems, see *Integration with other Systems*.

## 2.1. Solution Components

The Experion EHM solution has three major solution components:

1. Honeywell Versatilis Transmitter measures Surface temperature, Humidity, Ambient Pressure, Ambient Temperature, 3 Axis Vibration, and Acoustics of the equipment.
   Honeywell Versatilis™ transmitter incorporates algorithms to infer the speed of rotating machines and can be viewed in the Experion EHM dashboard. It is also capable of calculating and transmitting statistical parameters which are very valuable for reliability engineers.
2. Secure communication gateway provider supporting LoRa wireless technology & LoRaWAN stack, connecting Versatilis Transmitters to Honeywell Versatilis™ Experion EHM.
3. The Honeywell Versatilis Remote Configuration Manager application allows the user to configure the measurement parameters, retrieve data, and visually display the data on the Experion EHM dashboard.
4. Experion EHM for visualization, web-based clients with intuitive visualization of equipment health parameters, live and historical health trends.

### 2.1.1. Honeywell Versatilis™ Transmitter (HVT)

Honeywell Versatilis™ Transmitter is a multi-variant sensing offering based on the latest LoRaWAN® protocol communication technology. Its inherently low-power compact design coupled with quick and easy installation and commissioning help manufacturers to deploy them at scale with the lowest CAPEX and negligible OPEX.

The Honeywell Versatilis Transmitter offers multiple mounting options such as Screw, Magnetic, Epoxy, and Adhesive mount to suit the mounting surface of the target machine. Following measurement types are supported in the current R110 HVT release:


- Equipment – Vibration 3 axis, Audio Acoustics, and Surface Temperature.
- Environment – Ambient Temperature, Humidity, and Ambient Pressure.

Find more information, see *Honeywell Versatilis™ Transmitter Technical Specification, 34-VT-03-01*.

### 2.1.2. Industrial LoRaWAN Gateways and Service Provider

Honeywell EHM solution uses certified LoRaWAN gateways which wirelessly receive data from the battery-operated Honeywell Versatilis Transmitters. The gateways support both OTAA and ABP activation modes for connecting with devices, thereby providing the required security and flexibility for project deployments. The gateways manage the device communications, aggregate the device data, and provide data to the LoRaWAN server.

Alongside the LoRaWAN certified gateways, the Experion EHM solution requires a LoRaWAN server that includes a Network Server and an Application Server. The network server would transmit data to Experion EHM via the MQTT protocol.

The LoRaWAN server can be provided in a Virtual machine running on VMWare virtualization environment or installed directly in a PC on the network. The use of LoRaWAN and MQTT protocols greatly enhances communication security and data integrity.

#### 2.1.3. Honeywell Versatilis Remote Configuration Manager

The Honeywell Versatilis Remote Configuration Manager helps users create, modify, and add sites, assets, and transmitter details.

For more information, see Remote Configuration.

#### 2.1.4. Experion EHM

Experion EHM solution uses the proven Experion HS platform to store and organize the data received from HVT devices through the LoRaWAN provider using a secure MQTT interface. The collected Equipment health data is arranged and presented using EHM web clients for visualization and represented in the context of the connected industrial equipment. Web clients ensure zero client deployment cost where any existing nodes on the customer's enterprise or OEM system can be used to access data on the go.

# 3. Features

## 3.1. Plant Hierarchy

The Honeywell Experion EHM plant hierarchy allows users to monitor the Sites > Assets > Devices (Versatilis Transmitter) in an Enterprise to assess the performance and conditions of the target machines to ensure that they are operating at maximum efficiency and detect any possible problems.

The below figure shows the sites, assets, and transmitters within an Enterprise level.

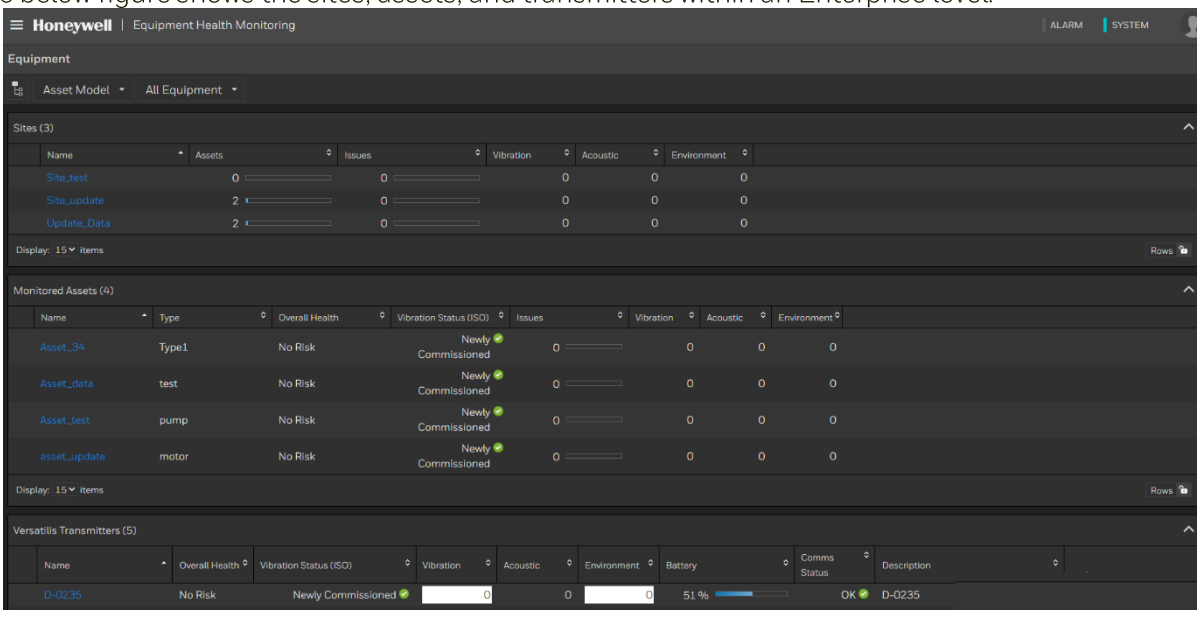



**Figure 2 – Plant Hierarchy**

## 3.2. Monitoring

### 3.2.1. Summary View

The Summary view provides an enterprise-wide summary of equipment, covering equipment health, and communication status.

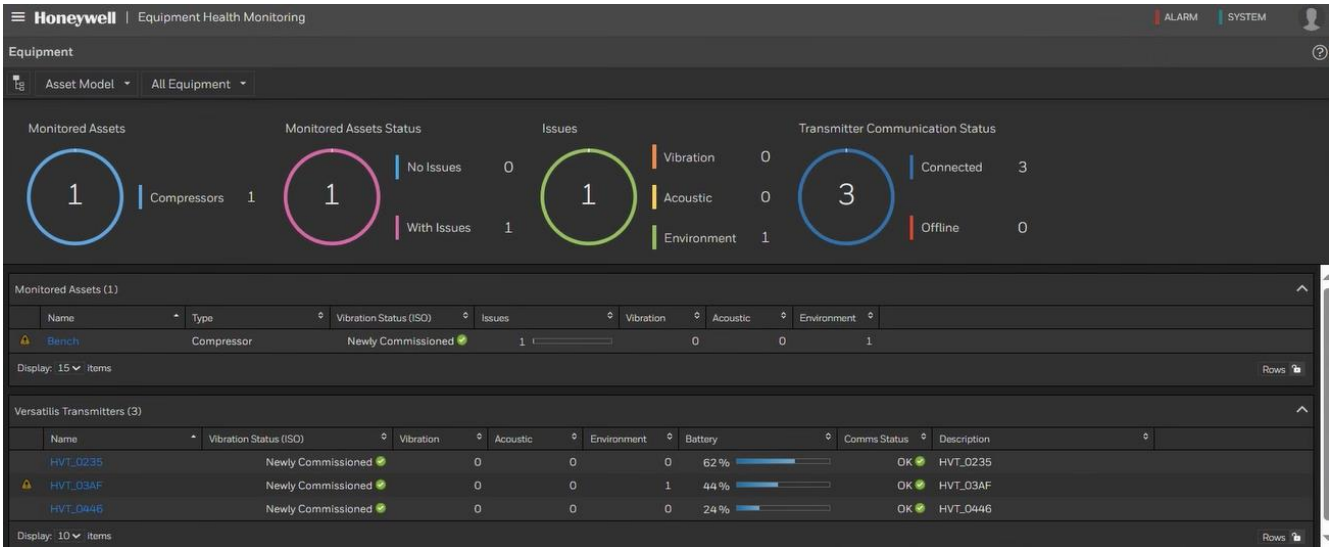
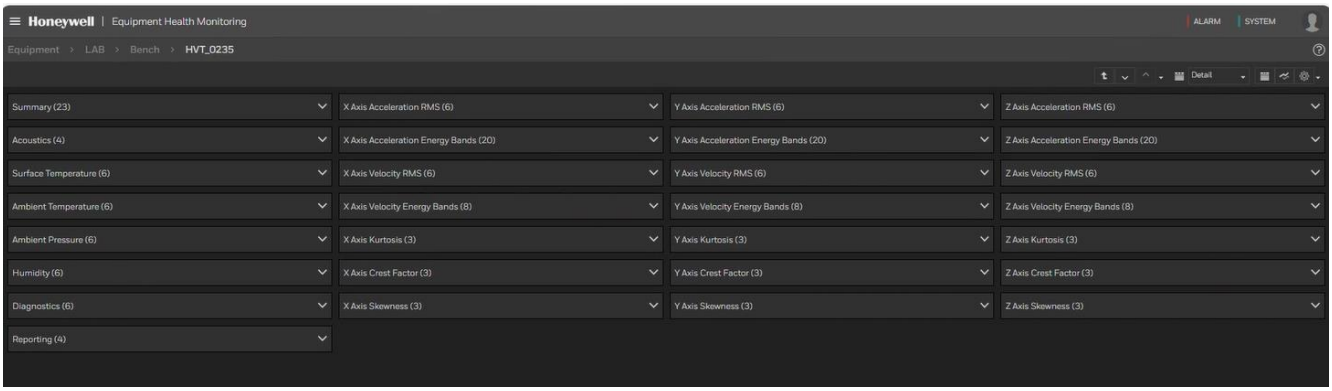



**Figure 3 – Summary view dashboard**

Select individual equipment assets for a detailed view and monitor the health of the target equipment.

### 3.2.2. Detailed View

The detailed view dashboards provide an elaborate view of the sensor parameters for an individual asset in a site.



Drill down at individual parameters to view detailed measurements.

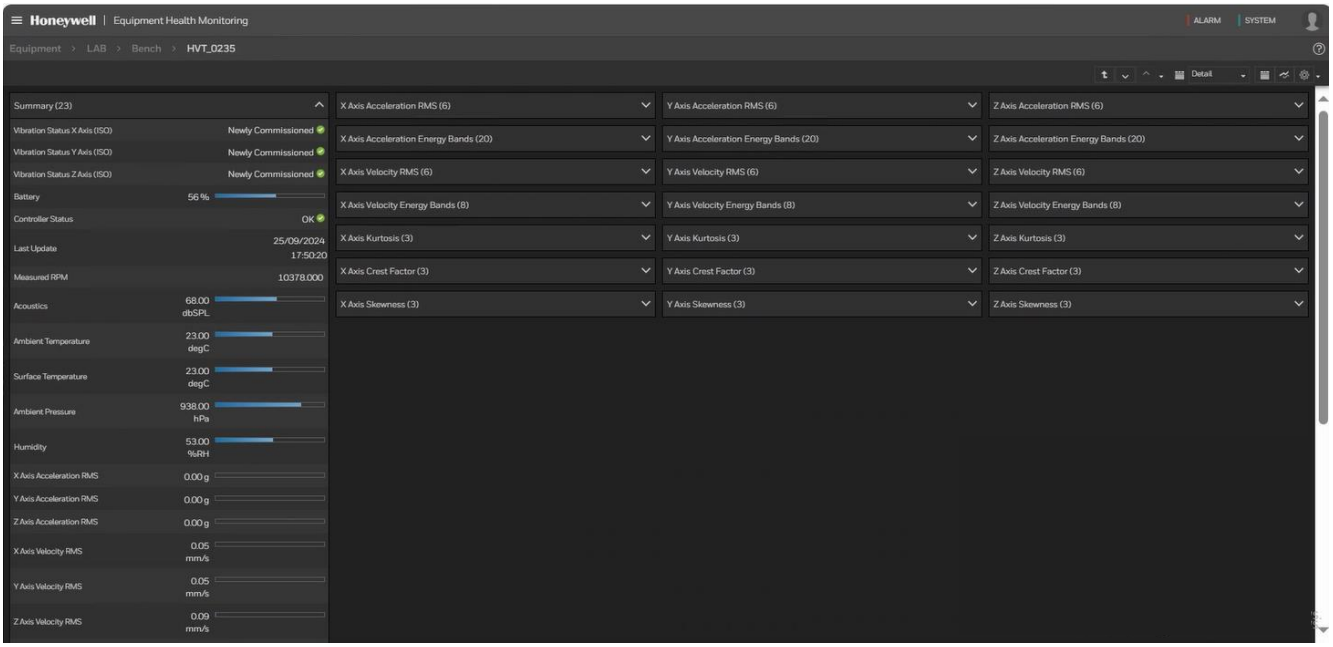



**Figure 4 – Detailed view dashboard**

## 3.3. FFT Visualization

The Experion EHM solution's axis-based high-energy FFT spectrum (Top 36 peaks) provides an ability to users where they can analyze frequency components and related amplitudes.


**Figure 5 – High Energy FFT X-axis plot**

Experion EHM offers markers that help reliability engineers quickly assess the presence of peaks at various harmonics of fundamental frequencies of the machine for quick diagnostics of rotating assets.

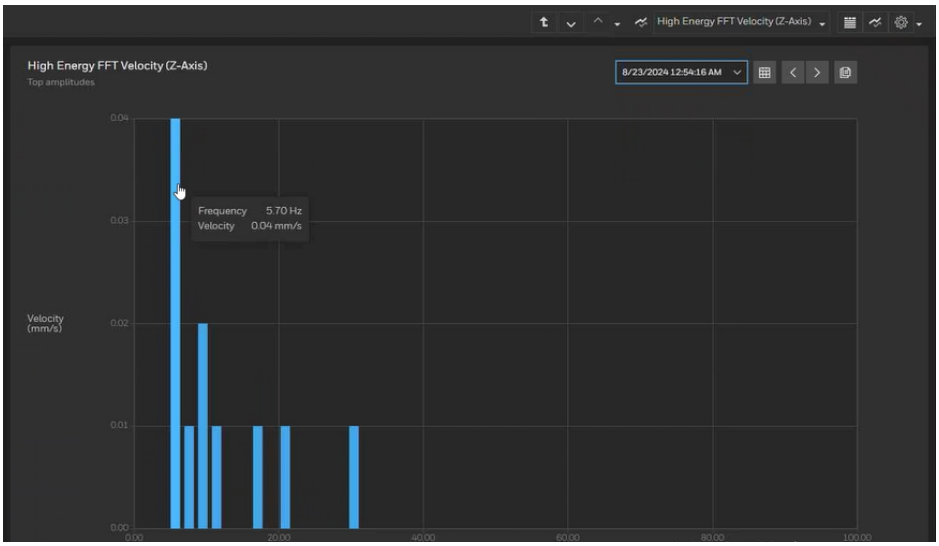



**Figure 6 – Hairline function within the FFT spectrum**

Experion EHM also allows you to compare the High Energy FFT plots at different points of time, select one of the Compare FFT options for X/Y/Z axes.

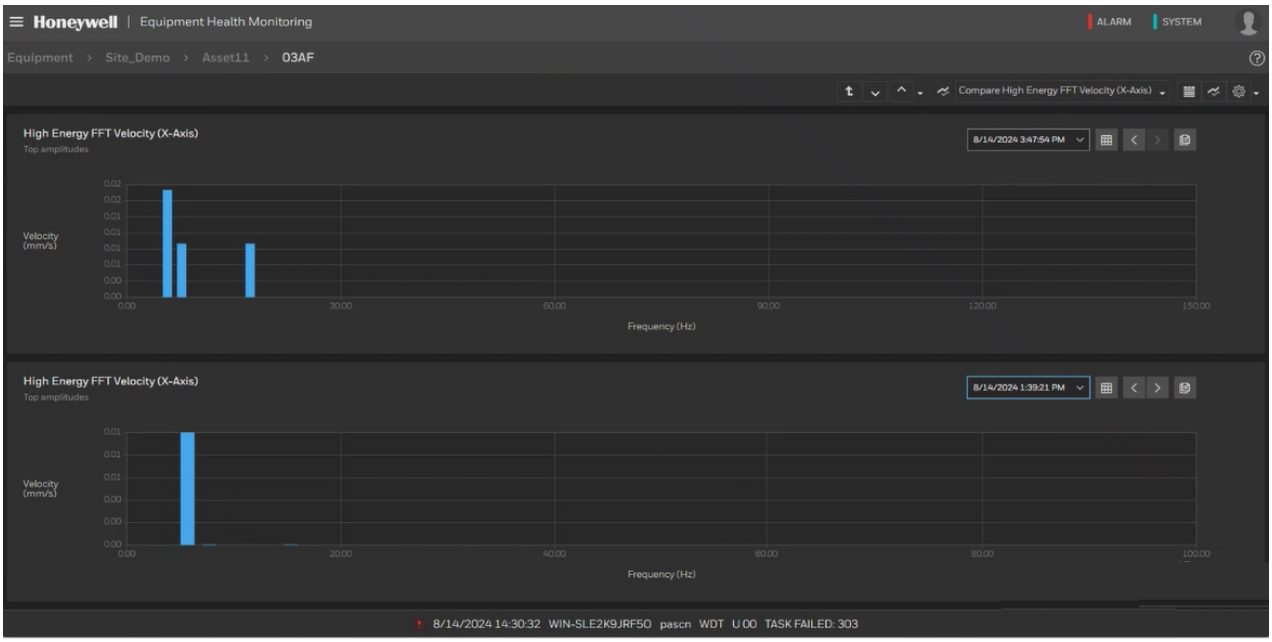



**Figure 7 – Compare High Energy FFT X-axis**

Similarly, you can view and compare High Energy FFT over the Y and Z peaks across different time frames.

## 3.4. Historization

The Experion EHM solution allows users to view and copy the sensor values and history plots of a transmitter as per the selected period (in hours/days/weeks/months) with the required reporting interval.

The following figure shows the history plots of a transmitter (4-hour period and 8-minute average interval).

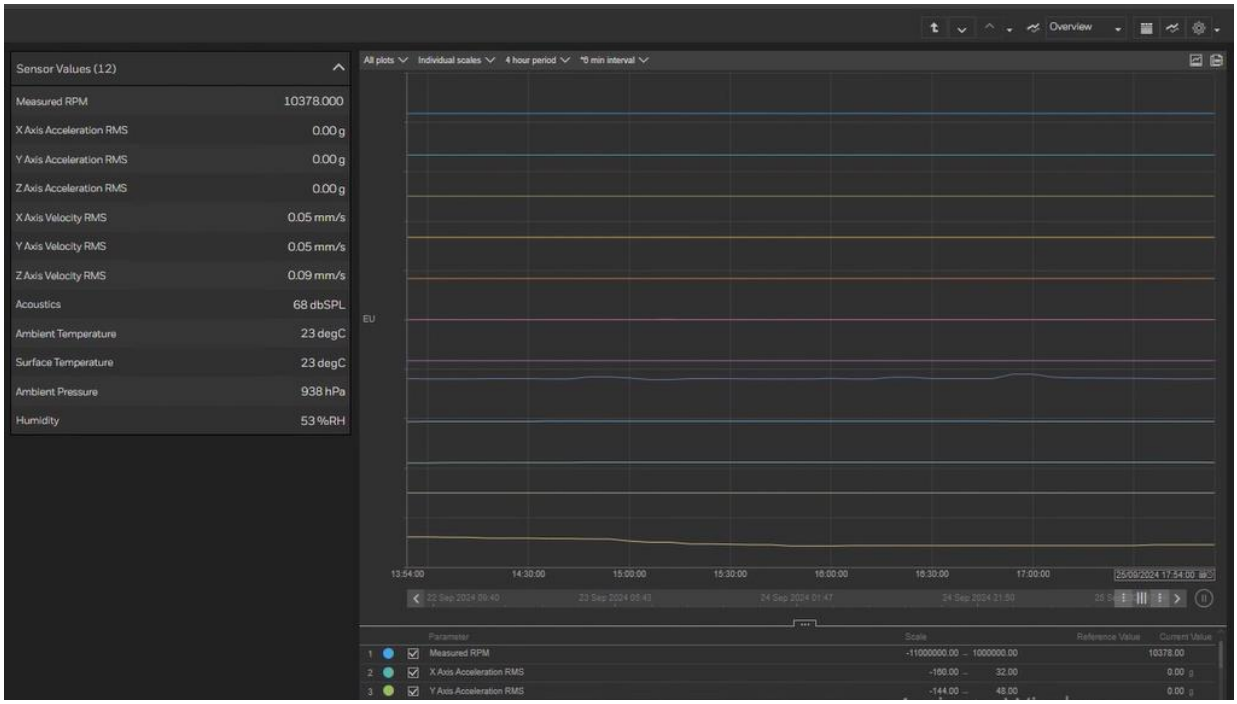



**Figure 8 – History Plot of a transmitter**

## 3.5. Reports

Reports in the Experion EHM system are generated automatically based on predefined schedules or triggered events. These reports can be viewed within the Experion EHM dashboards or exported in PDF format for further analysis and sharing across the organization.

From the web browser, open the Honeywell Experion EHM dashboard > click ☰ > Reports to view the type of reports. The two types of reports are:

1. Detailed Asset Report
2. Site Summary Report

### Detailed Asset Report

A detailed asset report provides the details of parameter values and diagnostics status of each/ individual equipment within that specific site.

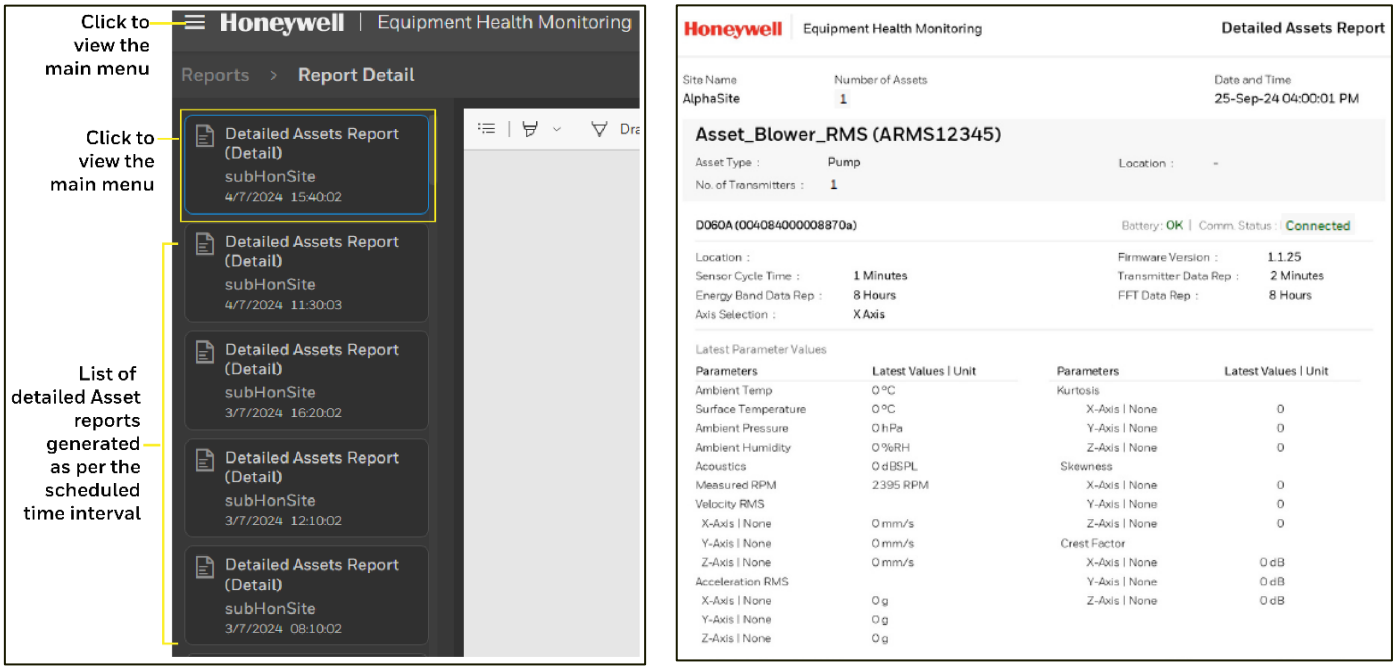



**Figure 9 – Detailed Asset reports of an asset**

## Site Summary Report

The site summary report provides a high-level summary of the current state of the asset(s) and transmitter(s) within that specific site.

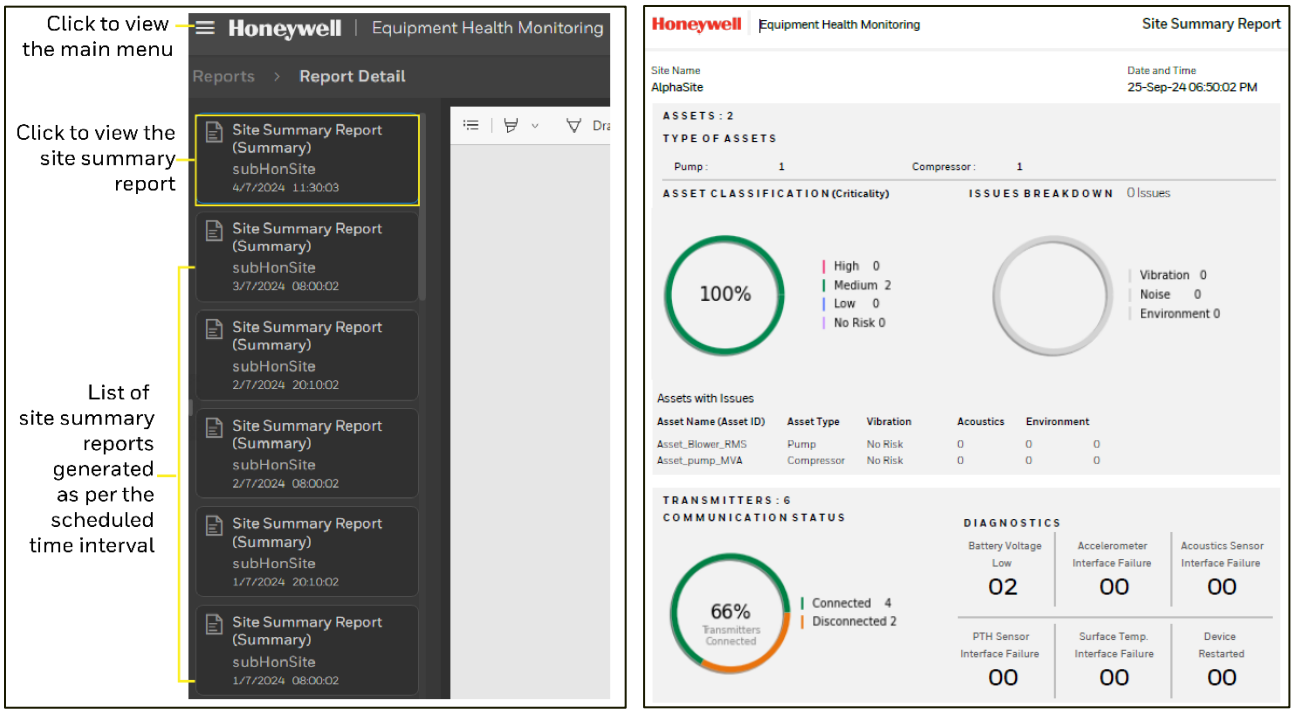



**Figure 10 - Detailed Site Summary reports**

## 3.6. Alarms

Alarms indicate unusual conditions in the system that require the user's attention. Alarms remain in the default view of the summary until the condition that triggered the alarm is acknowledged and returned to normal.

The following figure is an instance that shows triggered alarms of an asset.

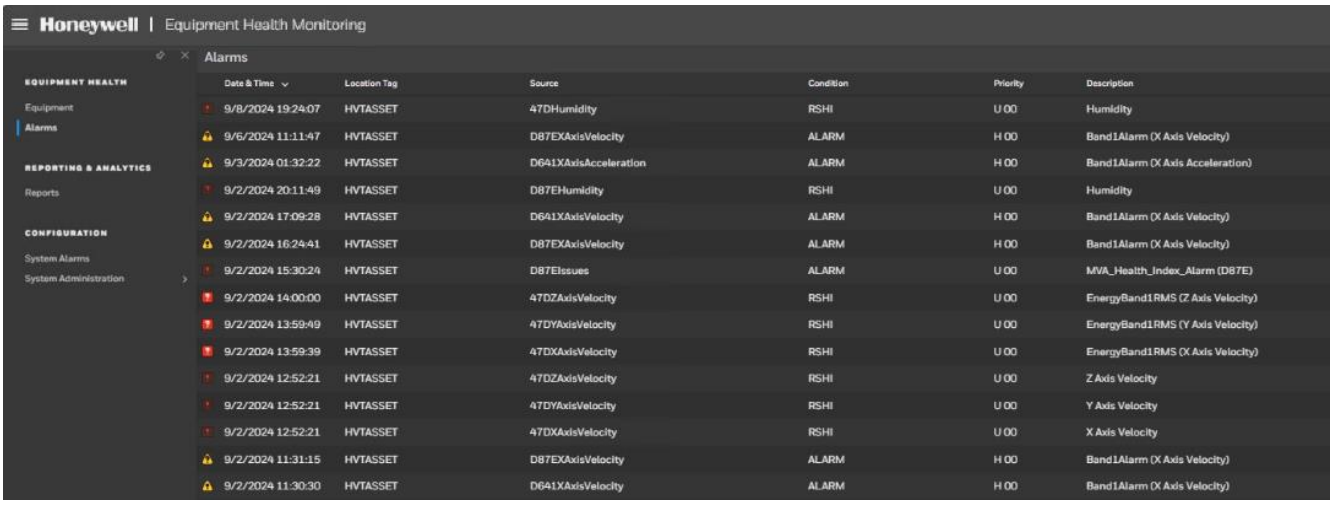



**Figure 11 – Alarms of an Asset**

The generated alarms can be configured to be received as emails to alert the site engineers even when the system is unmanned.

## 3.7. Integration with other Systems

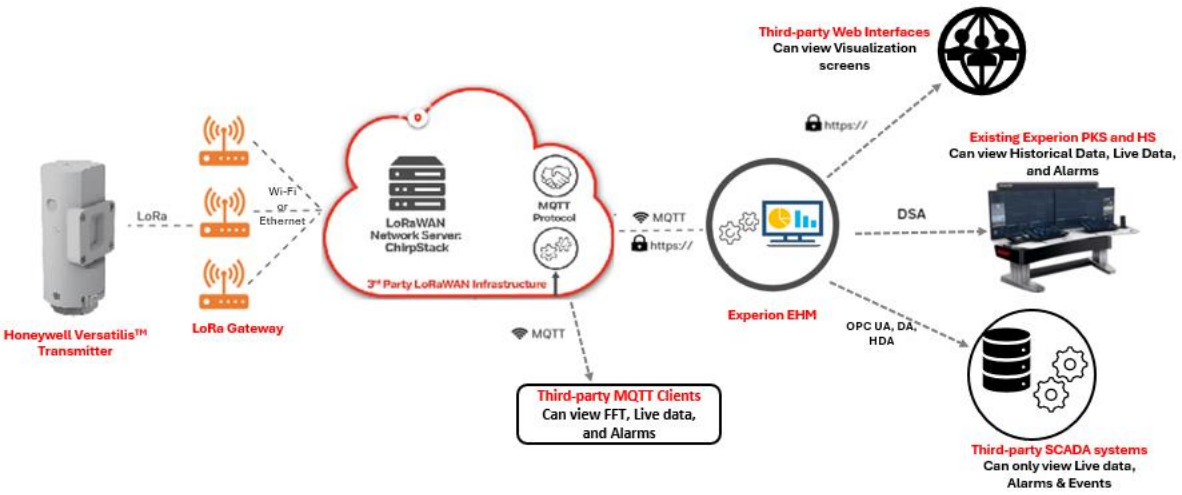



**Figure 12 – Experion EHM Integration with other Systems**

### 3.7.1. Existing Experion PKS and HS systems

DSA (Experion Distributed Server Architecture) provides a low-configuration tight integration option between Experion Systems, providing direct access from a Station connected to a Subscribing DSA Server to the current parameter values, historical parameter values, and alarms on a Publishing DSA Server.

In all cases below the EHM Server is an Experion HS R520 Server.

1. Access equipment display (EHM displays) on the Station connected to the external Experion Server
2. EHM Equipment HMI will NOT show correctly in the Station on the subscribing (external) server.
3. Access current parameter values on the external Experion Server
   a. Parameter values could be put on custom graphics on external Servers and will work.
   b. As above the EHM Equipment HMI will NOT show correctly in Station on subscribing (external) server.
4. Access historical parameter values on the external Experion Server
   a. EHM point parameters that are historized could be added to System Trends on the subscribing Server.
   b. The EHM Equipment HMI will NOT show correctly in Station on the subscribing (external) server so the pre-configured equipment trends may not be available.
5. Access alarms on the external Experion Server
   a. EHM alarms would be present in the Station Alarm Summary on the external Experion Server. Point detail on the alarms would be expected to bring up the default SCADA Point detail displays.
6. Use points configured on external Experion Server directly in Experion EHM displays
7. This will ONLY work if the external Experion Server is an Experion HS Server, as HS cannot subscribe to Experion PKS Server points.

### 3.7.2. Integration with other systems

Integrating the Experion EHM system with OPC to other SCADA systems can significantly enhance the system's interoperability and flexibility.

| EHM (Experion) Server Interface | Current Parameter Value | Historical Parameter Value | EHM Alarms | FFT (historical data) |
|---|---|---|---|---|
| OPC Classic | Yes | Yes | Yes | No |
| OPC UA | Yes | Yes | No | No |

- EHM Browser HMI can be called on the 3rd Party Console.
- Showing/processing/historizing/alerting/alarming in the 3rd Party System based on current and history parameter values in EHM.
    - OPC UA Server on EHM Experion Server exposes current, history parameter values, and alarms to 3rd Party OPC UA Client.
    - OPC Classic Data Access Server on EHM Experion Server exposes current parameter values to 3rd Party OPC Classic Data Access (DA) Client.
    - OPC Classic HDA (Historical Data Access) Server on EHM Experion Server exposes historical parameter values to 3rd Party OPC Classic HDA Client.
    - OPC Classic Alarm and Event (A&E) Server is the only Experion Server interface that exposes the current Experion Alarms, to a 3rd Party OPC Classic A&E Client.

For more information on how to integrate Experion EHM with other systems, contact Honeywell Technical Assistance at https://process.honeywell.com/us/en/contact-us.

# 4. Compatibility

## 4.1. Hardware Vs Software

| Sensor Level (Hardware) | Experion EHM (Software) |
|---|---|
| 1. Measurement parameters – Vibration, Audio Acoustics, Surface Temperature, Ambient Temperature, Humidity, and Ambient Pressure.<br>2. Processes Raw waveform data, Frequency Spectrum, Statistical Parameters, and Static Alarms.<br>3. Transfers statistical parameters (Skewness, Kurtosis, Crest Factor), Vibration frequency domain parameters, FFT High Energy samples, and RMS values. | 1. Trends of time domain parameters.<br>2. Static threshold alarms.<br>3. FFT visualization and comparison between selected devices.<br>4. Sub-band Energy trends.<br>5. Diagnosis of Battery life, connection issues/sensor diagnostics. |

## 4.2. R100 vs R110 Features

| | R100 | R110 |
|---|---|---|
| **Deployment Mode** | 2 Desktop virtual machines (Experion and LoRaWAN) in VMWare Workstation 17 Pro. | Installed directly on PC via Installer. |
| **Hardware Specs** | Server grade PC | Workstation grade PC |
| **Operating System** | Windows Server 2019<br>Windows OS license for host PC | Windows 10 client PC |
| **Number of HVT devices supported** | 250 | 4000 |
| **Deployment Complexity** | High (Need to handle USB Pen drives and bigger size VMs) | Medium (Need to perform Experion installation manually) |
| **Visualization** | Summary and Detailed Views | Summary, Detailed, High Energy FFT plots, and Reports. |
| **Alarms** | ISO 10816-3 limit-based alarms | • ISO 10816-3 limit-based alarms.<br>• Sub-band Energy Accel/Velocity values & Alarms. |
| **Data** | Collect HVT data via MQTT | Collect, store, and historize FFT data. |

## 4.3. Migration and Interoperability

Configuration of existing HVT R100 devices can be migrated from Experion EHM R100 to Experion EHM R110. The R100 devices can co-exist with new HVT R110 devices in the site.

| HVT Device | Experion EHM | Interoperability | Remarks |
|---|---|---|---|
| R100 | R100 | Supported | Supported |
| R100 | R110 | Supported | Experion EHM R110 would show the HVT R100 monitoring and configuration data. |
| R110 | R110 | Supported | Supported |
| R110 | R100 | Not Available | Experion EHM R100 does not support the HVT R110 interfaces. |

# 5. Remote Configuration

The Honeywell Versatilis Remote Configuration Manager helps users create, modify, and add sites, assets, and transmitter details. The Honeywell Versatilis Remote Configuration Manager tool is installed as one of the solution components from the ESIS or DVD/media.

The hierarchy of adding and configuring a transmitter on an asset within a site is as follows:


The below figure shows the Enterprise level dashboard in Honeywell Versatilis™ Remote Configuration Manager tool:

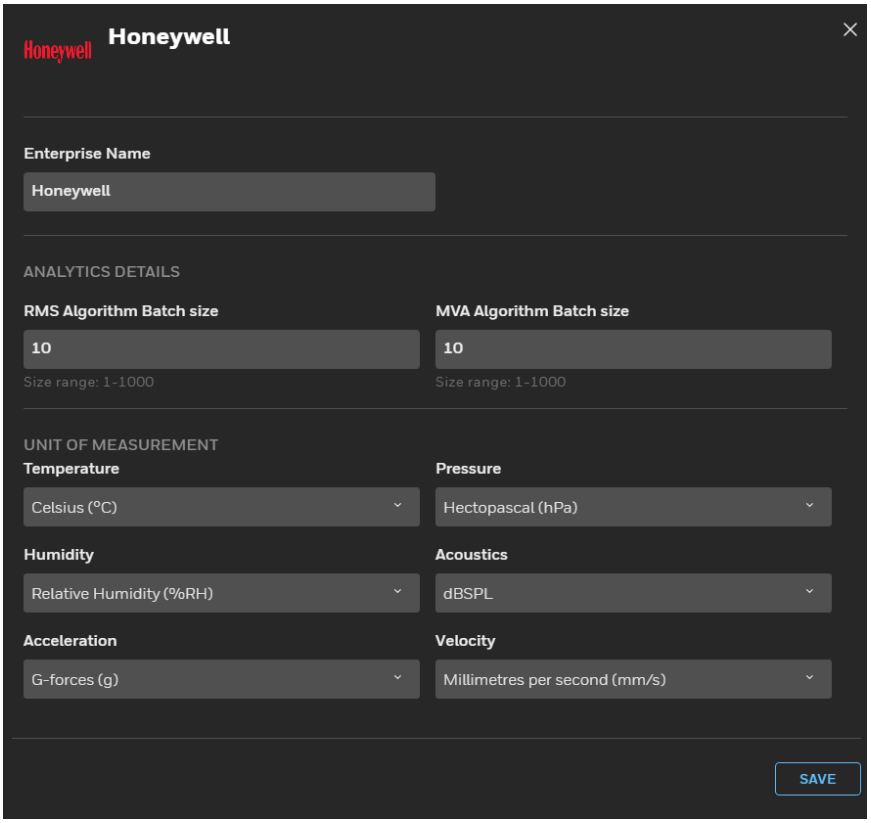



**Figure 13 - Creating an Enterprise**

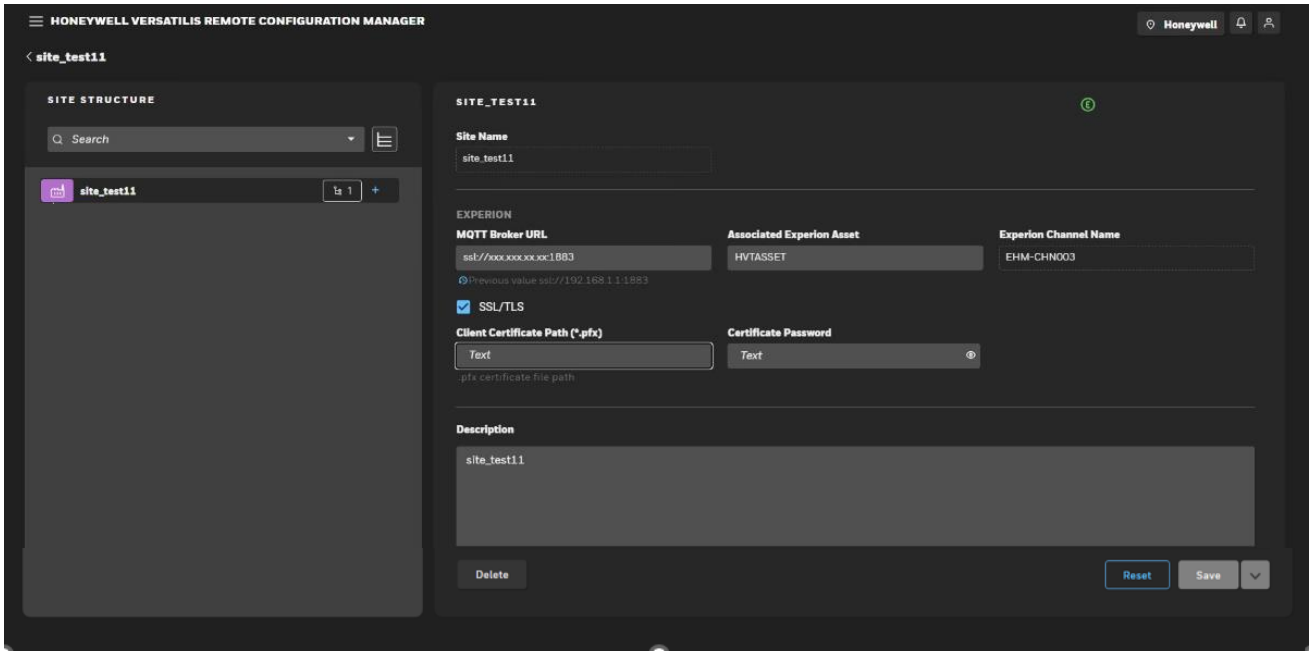



Figure 14 – Creating a Site

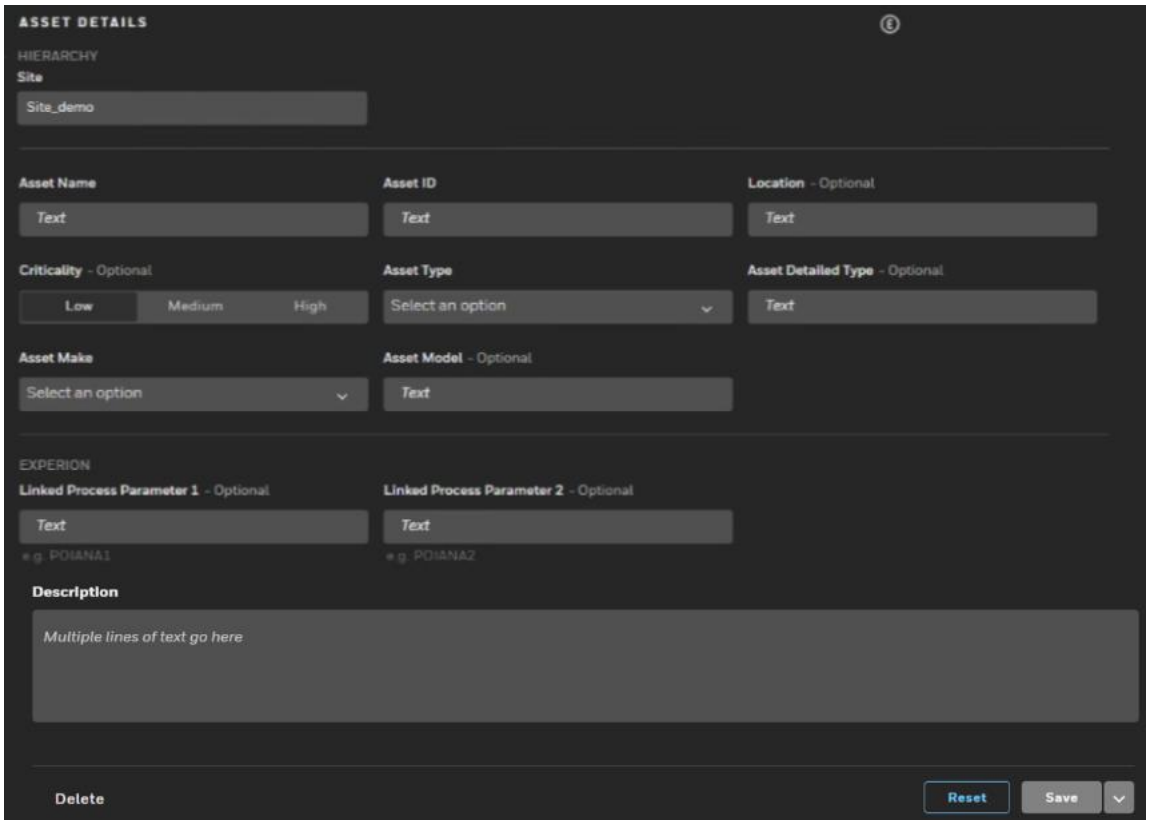



Figure 15 – Adding an Asset

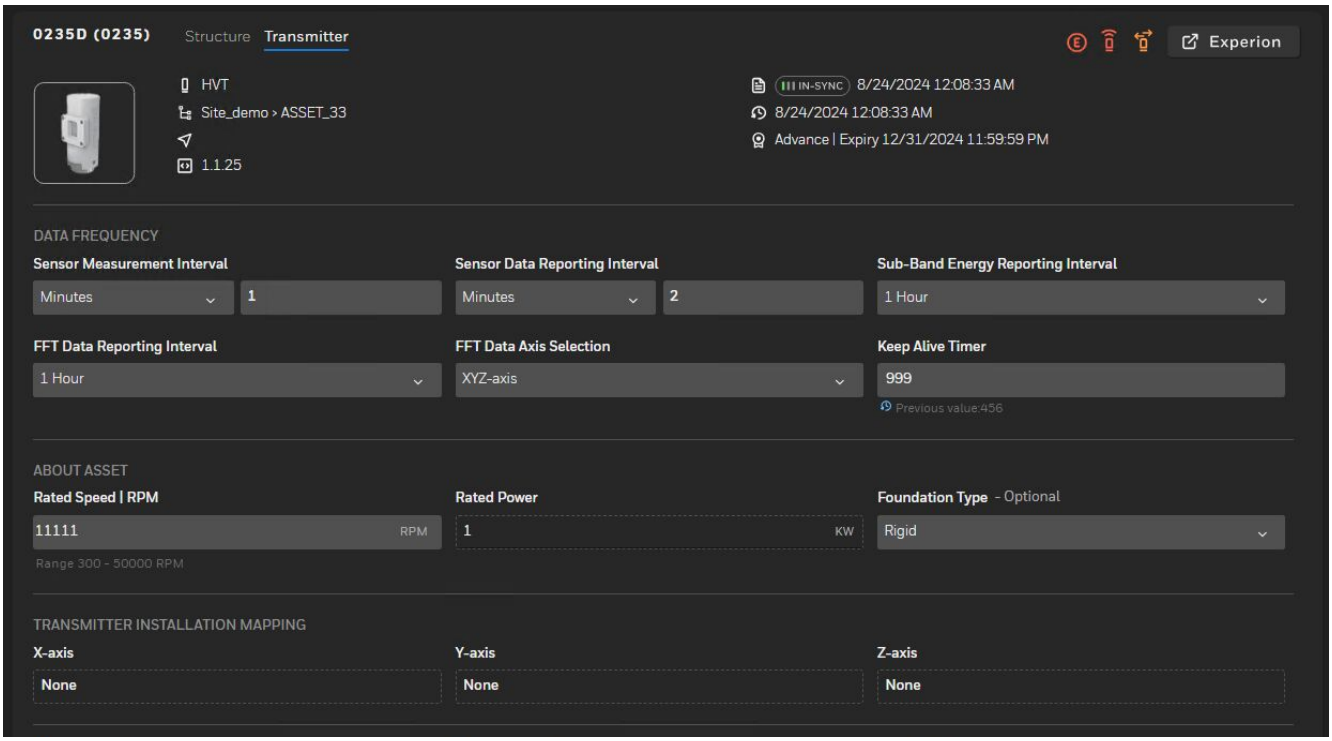



**Figure 16 – Adding a transmitter**

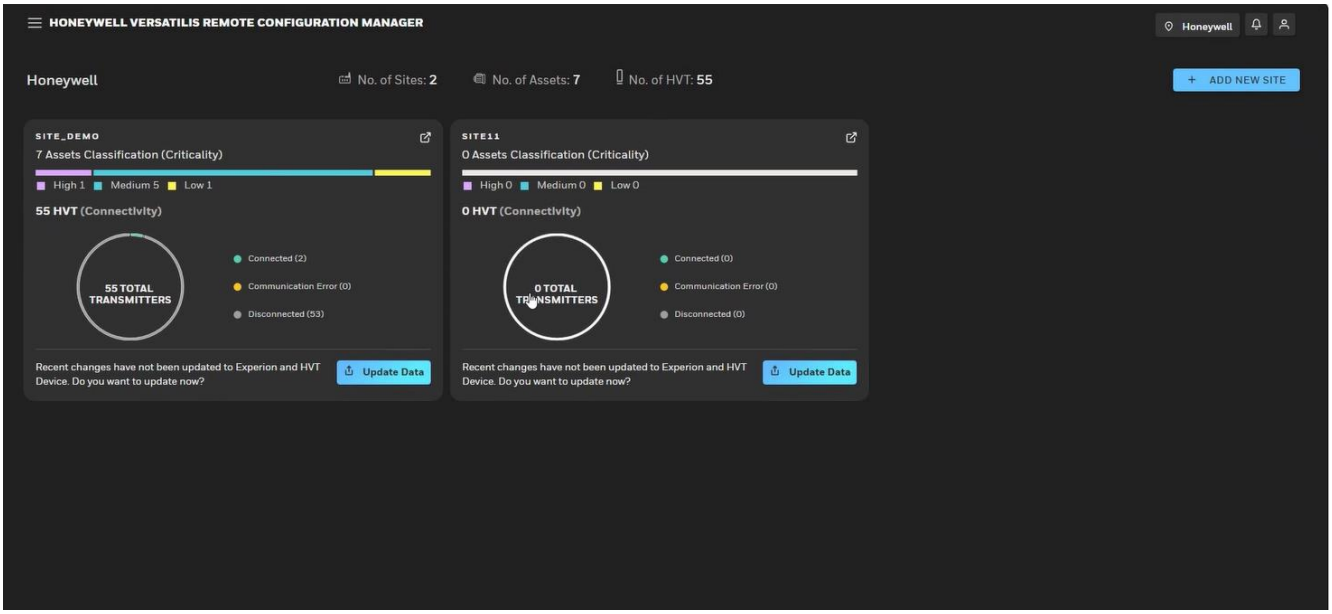



**Figure 17 – Enterprise level dashboard**

For more information on how to create enterprise, sites, assets, and transmitters, see the "*Remote Configuration*" chapter in the *Experion EHM User's Guide, #34-VT-25-05*.

# 6. Experion EHM Server Machine Requirements

Experion EHM SCADA server node is distributed as ready to deploy virtual machine compatible with VMWare Workstation Pro. Below are the key resource requirements for the Experion EHM SCADA server machine.

## 6.1. Experion EHM Host Machine

| System Configuration | Experion EHM Host Machine Specs | |
|---|---|---|
| | **For Smaller Systems (up to 500 devices)** | **For Larger Systems (500 to 4000 devices)** |
| **Operating System** | Windows 10 Enterprise LTSC 2019 Edition | Windows Server 2019 64-bit |
| **Storage Space** | 250 GB SSD/HDD | 500 GB SSD/HDD |
| **RAM** | 16 GB | 32 GB |
| **Processor** | 2.5GHz Hexa core or greater | 2.5 GHz Octa-core or greater |
| **Networking** | 1GBps or 100 MBPS Ethernet | 1GBps or 100 MBPS Ethernet |

## 6.2. LoRaWAN Gateway and Provider

Experion EHM uses industrial grade LoRaWAN Gateway & Provider that are commercially available. The below specification covers the minimum specification. End users can procure commercially off-the-shelf (COTS) available certified LoRaWAN Gateway & Provider and deploy.

| **System Configuration** | **LoRaWAN Gateway** |
|---|---|
| Purpose | Bridge between HVT devices and LoRaWAN provider |
| Example Hardware | Multitech MTCDTIP-L4G1, Cisco Wireless Gateway for LoRaWAN. For more information, see *Recommended Gateways*. |

| **System Configuration** | **LoRaWAN Provider** |
|---|---|
| **Purpose** | Enabling management for gateways, applications, devices, users, and then providing the HVT device data to Experion EHM SCADA. Supports LoRaWAN Network server and Application server. |
| **Supported Interface with Experion EHM SCADA** | MQTT |
| **Example Software** | ChirpStack |
| **Example resource requirements when deployed** | 2 CPU cores<br>6 GB RAM<br>60 GB Hard disk |

## 6.3. Experion EHM Web Client

Below are the key requirements for the Experion EHM Web Client:

| System Configuration | Experion EHM Web Client Specs |
|---|---|
| Purpose | To visualize the Experion EHM displays connecting to the Experion EHM PC. |
| Web browsers supported | Google Chrome version 110.0.5464.0 or later<br>Microsoft Edge version 108.0.1462.15 or later |
| Minimum Recommended Display resolution | 1280 x 1024 |

For more information on configuring the LoRaWAN Gateway and service provider, see the "*Configuration*" chapter in the *Experion EHM User's Guide, #34-VT-25-05.*

## 6.4. Recommended Gateways

| Gateway Provider | Gateway Model | Region | Description |
|---|---|---|---|
| Multitech (Indoor) | MTCDT-L4G1-247A-868.R3-WW | Global | LTE Cat 4 mPower Programmable Gateway 8-channel, 868 MHz, Global GNSS+Wi-Fi/BT w/MTAC-003E00 mCard and Accessory Kit[1] |
| | MTCDT-L4G1-247A-915.R3-WW | Global | LTE Cat 4 mPower Programmable Gateway 8-channel, 915 MHz, Global GNSS+Wi-Fi/BT w/MTAC-003U00 mCard and Accessory Kit[1] |
| Multitech (Outdoor) | MTCDTIP-L4G1-267A-868.R3 | Global | LTE Cat 4 mPower Conduit IP67 Base Station 8-channel, 868 MHz, GNSS+Wi-Fi/BT with MTAC-003E00 and Accessory Kit[2] |
| | MTCDTIP-L4G1-267A-915.R3 | Global | LTE Cat 4 mPower Conduit IP67 Base Station 8-channel, 915 MHz, GNSS+Wi-Fi/BT with MTAC-003U00 and Accessory Kit[2] |
| Dragino (Indoor) | LG3081520638 (Testing in progress) | China | Quectel EC25 LTE module<br>Micro SIM Slot<br>Internal 4G Antenna + External 4G Sticker Antenna.<br>Up to 100Mbps downlink and 50Mbps uplink data rates<br>Worldwide LTE,UMTS/HSPA+ and GSM/GPRS/EDGE coverage<br>MIMO technology meets demands for data rate and link reliability in modem wireless communication systems. |
| | LPS8-868 | India | 10M/100M RJ45 Ports x 1<br>1 x 2.4G WiFi (802.11 bgn)<br>1 x USB host port<br>Power Input via USB Type-C: 5V, 2A |

| | | | |
|---|---|---|---|
| Tektelic (Outdoor) | KONA-ENTERPRISE (MOEN1LEU868)* | India | Time Duplex 8 Rx / 1 Tx<br>3G/4G Cat-6 Modem<br>-48v/802.3af POE Power<br>IP67 Outdoor Design<br>Built-in LoRaWAN, 3G/4G & GPS Antennas<br>Optional external LoRaWAN and 3G/4G Antennas<br>Pole, Wall, Tower, Building DIN Rail Mounting Options. |
| [1] Kit includes a Power supply with regional-specific blades (US, EU, GB, AU/NZ), appropriate antennas, an Ethernet cable, a USB cable, and a quick-start guide. GNSS Antenna is sold separately.<br>[2] Kit Includes Mounting bracket kit, 1 LoRa antenna, 2 cellular antennas, GNSS antenna, Wi-Fi/BT antenna.<br>* Validated for ONGC but not qualified completely. | | | |

# 7. Model Numbers

## 7.1. Model Selection Guide

Honeywell

**Section 1**
**Page: XX-XX**
**Effective Date: XXXX 1, 2024**

Honeywell Proprietary

### Experion EHM

Model Selection Guide
34-VT-16-02, Issue 1

**Instructions**

- Select the desired key number. The arrow to the right marks the selection available.
- Make the desired selections from Tables I through VI using the column below the proper arrow. A dot (•) denotes availability.

List price equals the sum of prices for all selections made.

| Key Number | I | II | III | IV | V | VI | VII |
|---|---|---|---|---|---|---|---|
| EHM100 - | _ | - _ _ _ _ | - _ _ | - _ _ _ | - _ _ , _ | - _ , _ | - _ _ |

**KEY NUMBER - Experion EHM**

| Description | Selection | Availability |
|---|---|---|
| Experion Equipment Health Monitoring System Software Incl….. | EHM100 | ↓ |

| TABLE I - Media Kit | | | |
|---|---|---|---|
| R520 Media kit, Electronic download | 0 | * | |
| R520 Media kit, Physical Delivery | 1 | * | |

| TABLE II - Number of Devices | | | |
|---|---|---|---|
| Up to 50 HVT Devices | 0050 | * | b |
| 51 to 100 HVT Devices | 0100 | * | |
| 101 to 300 HVT Devices | 0300 | * | |
| 301 to 1000 HVT Devices | 1000 | * | |
| 1001 to 2000 HVT Devices | 2000 | * | |
| 2001 to 4000 HVT Devices | 4000 | * | |

| TABLE III - App support - Number of Users | | | |
|---|---|---|---|
| Web client Users - 1 | 01 | * | b |
| Web client Users - 3 | 03 | * | |
| Web client Users - 5 | 05 | * | |
| Web client Users - 10 | 10 | * | |

| TABLE IV - System Functionality | | | |
|---|---|---|---|
| Trend and Alarm Visualization and Equipment Reporting (*see notes) - Default selected | VRA | * | b |

| TABLE V - Microsoft Software Licenses | | | |
|---|---|---|---|
| SQL CAL 2019 STD RUNTIME, EMB (Mandatory for every installation) | 1_ | * | |
| **Windows Operating system** | | | |
| NO | _0 | d | c |
| Windows 10 COA license (Optional) | _1 | * | |
| Windows Server 2019 OS (Optional) | _2 | * | |

| TABLE VI - 3rd Party Integration | | | |
|---|---|---|---|
| Nil | N | e | |
| OPC, UA - Get Sensor measurement data from Experion EHM via OPC Unified Architecture (per connection) | A | * | c |
| SCADA Interfaces for access to machine process data (e.g. speeds, pressures) | B | * | |

| TABLE VII - Experion System Integration | | | |
|---|---|---|---|
| Nil | 00 | * | b |
| Integration with Experion - DSA | 01 | * | |

| Restriction Letter | Available Only with | | Not Available with | |
|---|---|---|---|---|
| | Table | Selection | Table | Selection |
| b | Selection only one option from this group | | | |
| c | Selection one or more option from this group | | | |
| d | | | V.b | 1,2 |
| e | | | VI | A,B |

## 7.2. Experion EHM

Experion EHM R100 is provided as a Virtual Machine and can be easily deployed on the VMWare hypervisor platform. The details below cover the procedure for ordering Experion EHM.

### 7.2.1. Select Experion EHM Bundle

The EHM bundles can be selected depending on the quantity of the Honeywell Versatilis Transmitters (HVTs). Refer to the Honeywell Marketing channel or contact your local Honeywell regional sales manager or refer to the Model Selection Guide.

**For More Information**

Learn more about how Honeywell's Experion HS can improve your HMI and SCADA experience, visit process.honeywell.com > Products > Field Instruments > Honeywell Versatilis Transmitter or contact your Honeywell Account Manager, Distributor or System Integrator.

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