AMS Asset Monitor Asset Source Interface

- Provide sitewide visibility of health status of all AMS Asset Monitor units

- Unlock predictive analytics results allowing relevant personnel to collaboratively work on preventing unexpected failures / downtime

- Create work notifications based on results of edge analytics to implement closed loop work processes with CMMS (SAP or IBM Maximo)

AMS Asset Monitor ASI provides timely notifications to respond to alerts quickly and achieve maximum productivity.

Introduction

Knowing the health of your important assets is critical to achieving production and business goals. Emerson's new AMS Asset Monitor provides up to the moment process and condition monitoring results with automated analytics and actionable alerts.

The AMS Asset Monitor Asset Source Interface provides the health of the AMS Asset Monitor unit, the connected CHARMs and the assets each unit is monitoring. Results of embedded process and vibration analysis is available to the users every hour, allowing ample time to plan maintenance activities thereby reducing costs and maximizing production.

Embedded Analytics

The AMS Asset Monitor ASI sends overall asset health status and alerts to Plantweb Optics. There is no need for manual analysis by trained experts to identify potential issues. Alerts include results of internal logic applications, as listed below.

- Balance – detects imbalance

- Alignment – detects misalignment

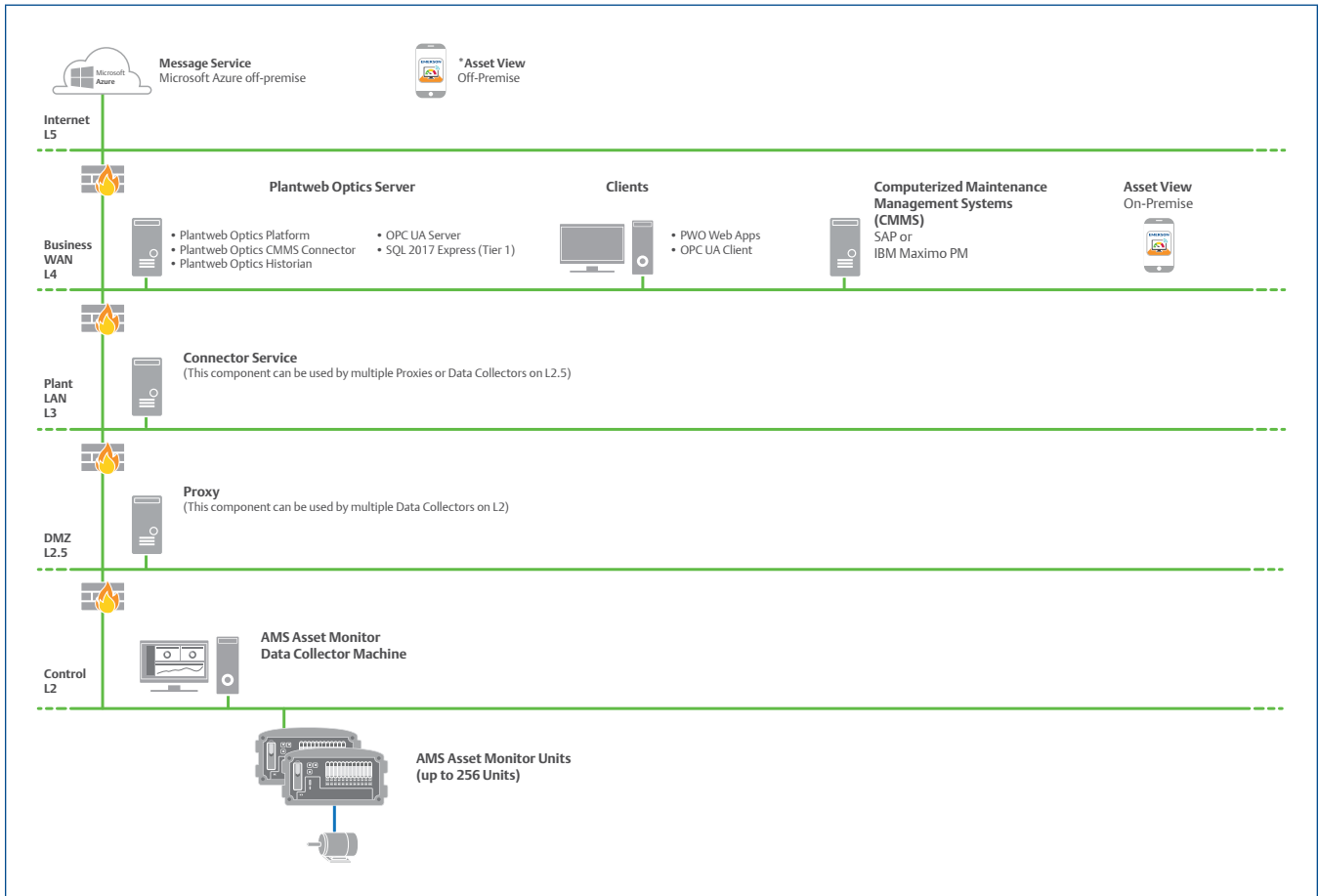- Looseness – detects mechanical looseness

- Vane/Blade Pass – detects bladed component issues

- Flow Turbulence – detects pump cavitation or fan rotating stall

- Gear Faults – detects defective gears

- Ratio – computes gear Hunting Tooth ratio matching issues

- Rolling Element Bearing Defects – detects failing antifriction bearings

- Lubrication – detects antifriction lubrication issues

- Electric Motor Problems – detects basic electric motor faults

Sitewide Visibility

AMS Asset Monitor information can be viewed one at a time from the Asset Studio thin client. With Plantweb Optics, users can monitor and view the status of all the AMS Asset Monitor on one screen, delivering increased efficiency and awareness.

PLANTWEB optics

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Layered Security Keeps Networks Safe

The AMS Asset Monitor ASI allows flexible installation for complex network architectures. Depending on the network architecture, AMS Asset Monitor ASI may require three components – AMS Asset Monitor Data Collector, Proxy, and Connector Service. Multiple proxies can be installed in between network levels to connect the AMS Asset Monitor Data Collector to the Plantweb Optics server, allowing for layered network deployment.

System/Device	Supported Maximum	Remarks
AMS Asset Monitor units	256 AMS Asset Monitor units per AMS Asset Monitor Data Collector	Total Asset Count is limited by Plantweb Optics. Plantweb Optics v1.5.1 has a limit of 20,000 assets, which can be distributed in any way across multiple Asset Source Interfaces.

AMS Asset Monitor Machine, Proxy or Connector Service Hardware Requirements

Item	Supported
Processor	2.4 GHz, 4-core processor Intel Core i5 or better
Architecture	64-bit
Memory	8 GB RAM
Hard Drive	SAS Hard Drive (10K RPM)
Disk Space (minimum)	100 GB
Network	1 x 1GB NIC

AMS Asset Monitor Machine, Proxy or Connector Service Software Requirements

Item	Supported
Operating System	Windows Server 2016 Datacenter Windows Server 2016 Standard Windows Server 2012 R2 Datacenter Windows Server 2012 R2 Standard Windows 10 Pro Windows 10 Enterprise Windows 10 IoT Enterprise 2016 LTSB
Architecture	64-bit
Internet Information Services (IIS)	v8.5, v10 (supplied with OS)

Additional Specifications

Item	Supported
Software	Microsoft .NET Framework 4.7.1
Virtualization	VMWare v6.0 up to v6.7 HyperV 2012, 2016
Antivirus Software	McAfee Endpoint Symantec EndPoint Protection Norton Security with Back-up

Order Information

- Part Number: A488500-DS AMS Asset Monitor ASI

  NOTE: Each ASI license allows connection to 8 AMS Asset Monitor units

Plantweb Optics Version Supported

- v1.5.1 and later

Related Products

- A48OPTICS Plantweb Optics

- SE8701T01-IM AMS Asset Monitor

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Emerson
Reliability Solutions
835 Innovation Drive
Knoxville, TN 37932 USA
☎ +1 865 675 2400

🌐 **www.emerson.com/PlantwebOptics**