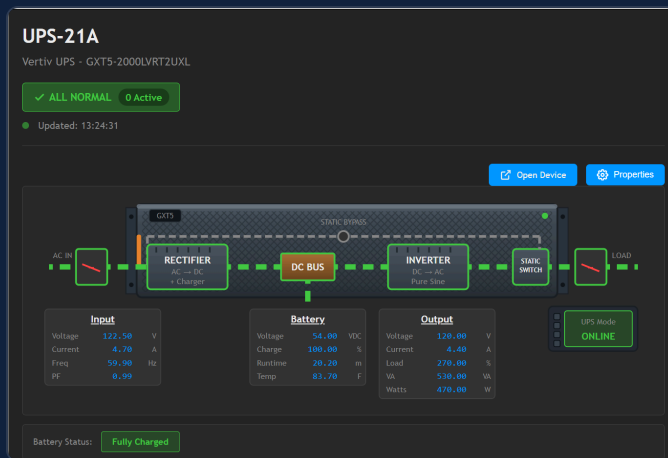


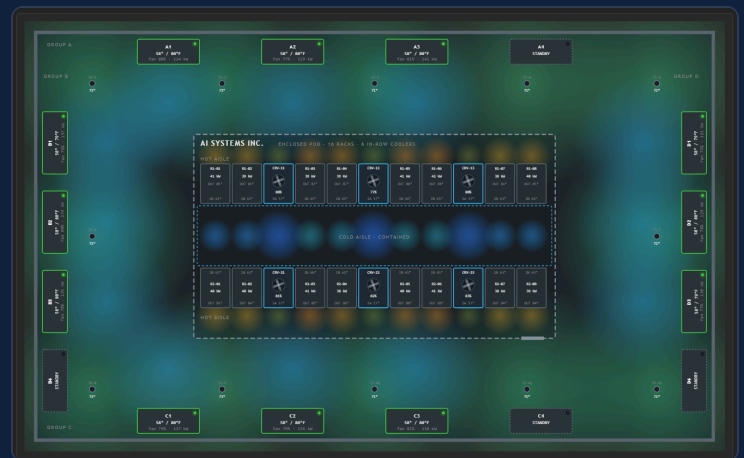
DM PLATFORM

See every critical system. Know the moment something changes.

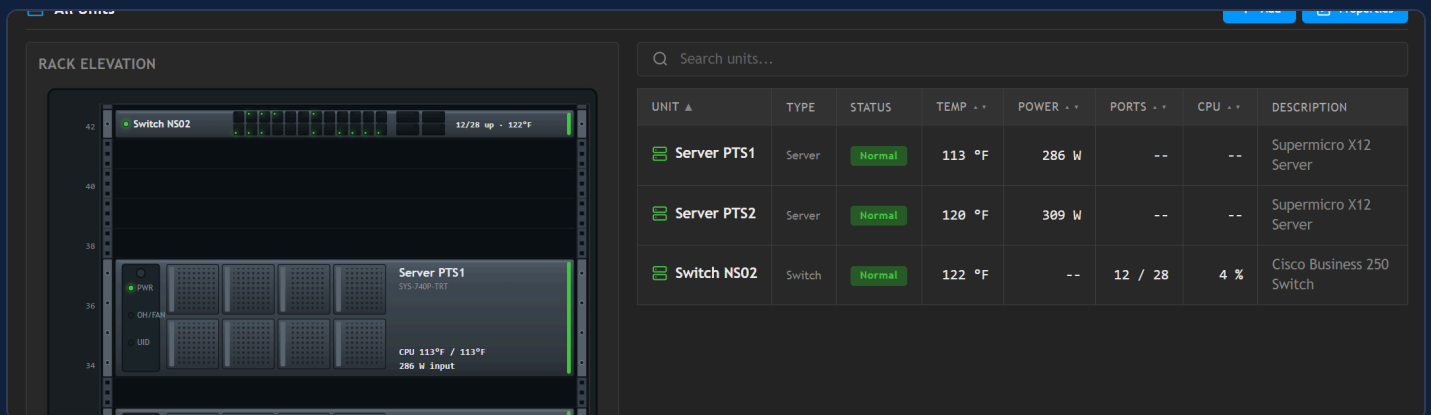
The Pythia DM monitors the power, cooling and environmental equipment that keeps your site running, in one browser console with alarms, trends and live equipment dashboards. It shares that data with your BMS and NMS, and with the AI assistants your team already uses.



UPS equipment dashboard: live power path, input, battery and output



Floor-plan heat map custom page (simulated facility)



Rack view: rack elevation and unit list with live temperature and power

DM AI CONNECTOR

Ask your site anything.

Connect Claude, ChatGPT or any assistant that speaks MCP. It answers from the DM's live data: what's in alarm, what changed and how a load trended last week. It can make changes only where you allow it.

Is anything in alarm in IT Rack 1?

No. All 3 units are normal. UPS-21A is online with the battery fully charged and about 20 minutes of runtime.

Illustrative example

WHAT THE DM DOES

One platform for the equipment that keeps your site running.

UPS systems, generators, power distribution, cooling, leak and environmental sensors, servers and switches usually report to separate screens, if at all. The DM polls each one in its own protocol, shows all of it live in one console, and tells the right people when something needs attention.

1

Connect

Each piece of equipment is polled by a driver for its make and model. No equipment is replaced.

2

Organize

Every point lands in one structure (Locations, Groups and Units) with the same alarms, trends and units of measure.

3

Operate

Facilities and IT work from one browser console and a full-screen Alarm View. Nothing to install on any PC.

4

Extend

The same points are published to your BMS or NMS automatically. Add the AI Connector when you're ready.

Live monitoring with status roll-up

A unit in alarm turns its group, location and the site tree red, so a problem anywhere is visible everywhere. Disabled items are greyed out and raise no alarms.

Alarms you can act on

Alarm settings per unit, with a fail count so a single bad reading doesn't raise an alarm. Alarms can be acknowledged and cleared, and every occurrence is kept in history. The Alarm View drives a wall display.

Notifications by category

Email and SNMP traps are routed by alarm category, with quiet-time exceptions. Heartbeat messages confirm the DM is alive, so silence is never mistaken for "all normal".

Equipment dashboards

Live diagrams for supported UPS, cooling, power, generator, server and switch models, showing power paths, operating mode, faults and loss of communication.

Trends and history

Five trend buckets, from five-minute to long-term, with zoomable charts. Any list, alarm set or point map can be exported to PDF or Excel on demand.

Publishes to your other systems

Everything the DM monitors is published at once as an SNMP agent, a Modbus/TCP server and a BACnet/IP device. The maps are built and kept current automatically.

Custom pages for your building

Floor plans with live conditions, heat maps, one-line diagrams and rack elevations, attached to any location or group in the console.

Many sites, one console

A head-end DM consolidates many site DMs into one view. Admin and View accounts, HTTPS throughout, and updates supplied by Pythia and applied from the console.

TALKS TO YOUR EQUIPMENT IN ITS OWN PROTOCOL

BACnet/IP

Modbus/TCP

Modbus RTU

SNMP

HTTP

XML

Liebert IGM

Drivers for other equipment on request

PUBLISHES TO YOUR BMS, SCADA AND NMS

SNMP v1/v2c agent

Modbus/TCP server

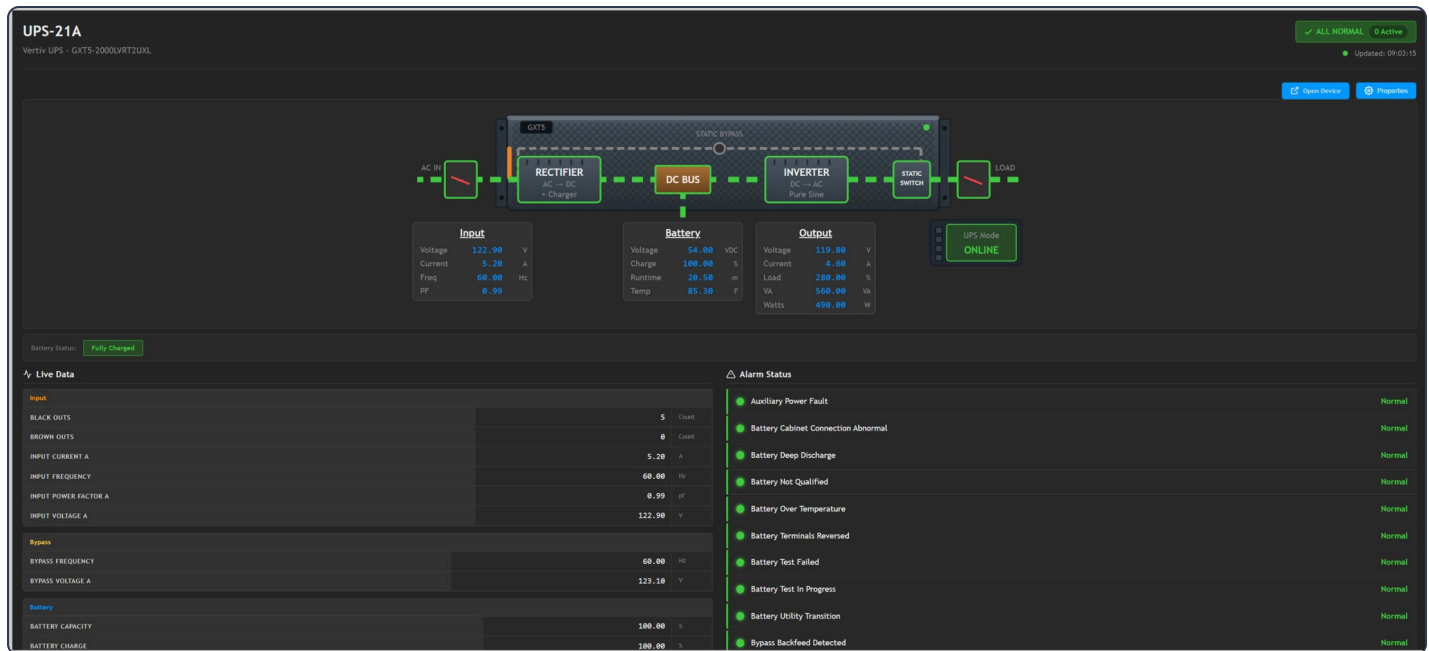
BACnet/IP device

Email and SNMP traps

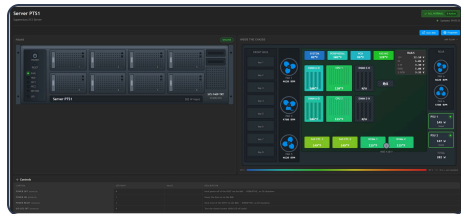
IN THE CONSOLE

Equipment dashboards that look like the equipment.

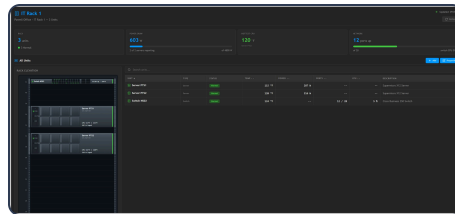
Supported equipment opens a live dashboard as soon as it's added: power paths that follow the real flow, the unit's own operating mode, fault highlighting, and a clear state when the equipment stops answering. Every point opens a live chart.



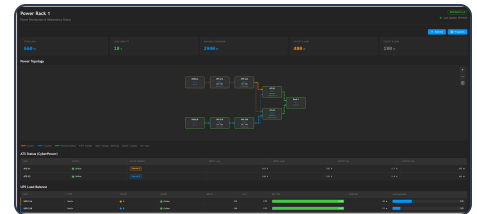
UPS power path. Input, rectifier, battery, inverter and output with live values, alongside the unit's data list and alarm status.



Server health. Fans, temperatures, power supplies and drives, read from the server's management controller.



Rack elevation. Every device in the rack, with its status and key readings.



Power rack one-line. Power topology with ATS status and UPS load balance.



Network switch. A live faceplate view of the switch, alongside its data and alarms.

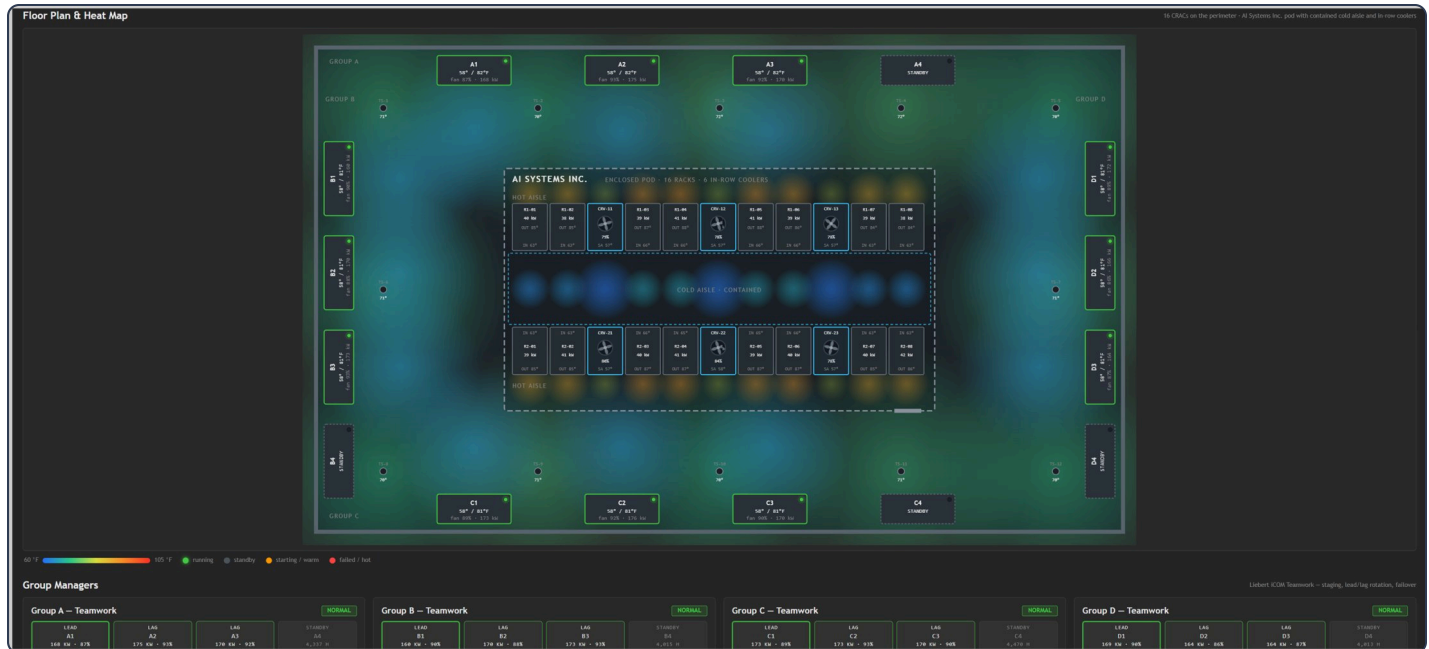


Trend chart. Zoomable history for any trended point, with export.

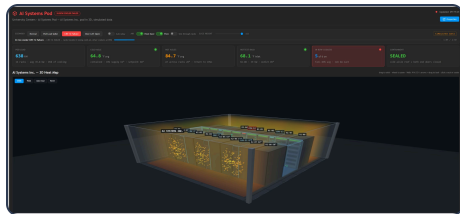
CUSTOM PAGES

Your building, live, the way your team thinks about it.

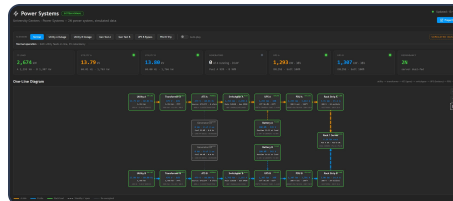
Custom pages place live readings on a picture of your facility: floor plans, heat maps, one-line diagrams and mechanical schematics. Pythia builds them to order from drawings you supply. They're served by the DM itself and need nothing from the internet.



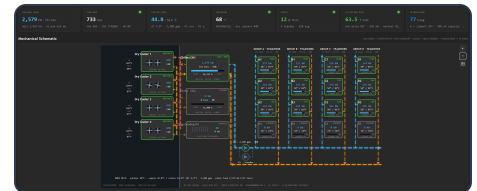
Floor-plan heat map. Live temperatures from every sensor, blended into a heat map of the room.



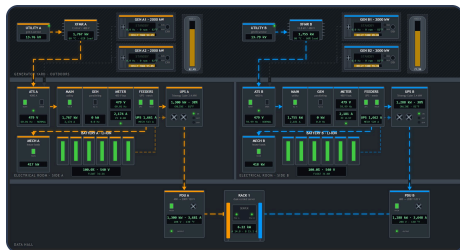
3D heat map. A cooling unit failure shows as a hot zone in the pod.



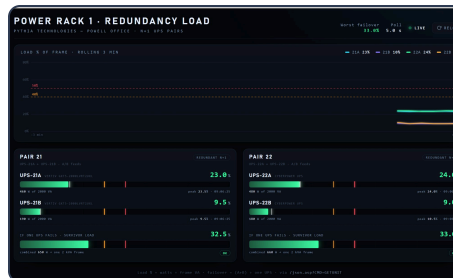
2N one-line. Both power paths of a 2N system, with live state.



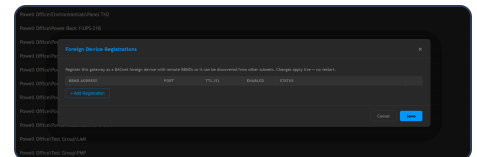
Mechanical schematic. The site's mechanical systems in one live drawing.



Power plant layout. Generator yard, electrical rooms and data hall, with live readings.



UPS redundancy. Load on each redundant UPS pair.

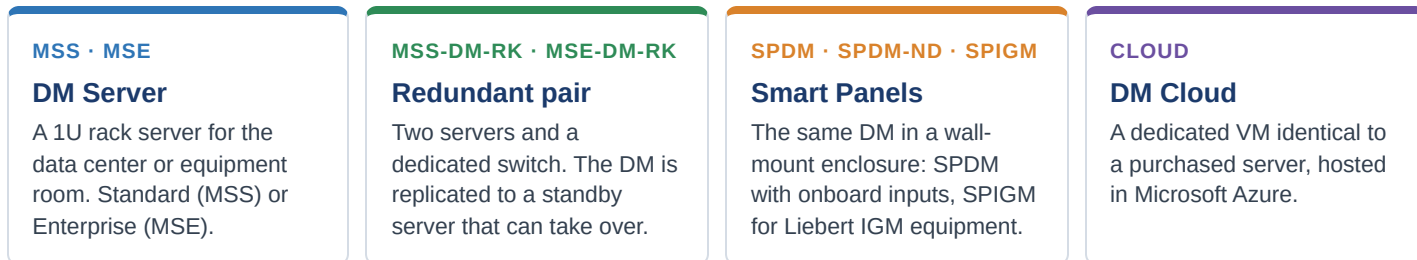


BACnet/IP publishing. The device list the DM builds automatically for your BMS, with foreign-device registration for other subnets.

DEPLOYMENT

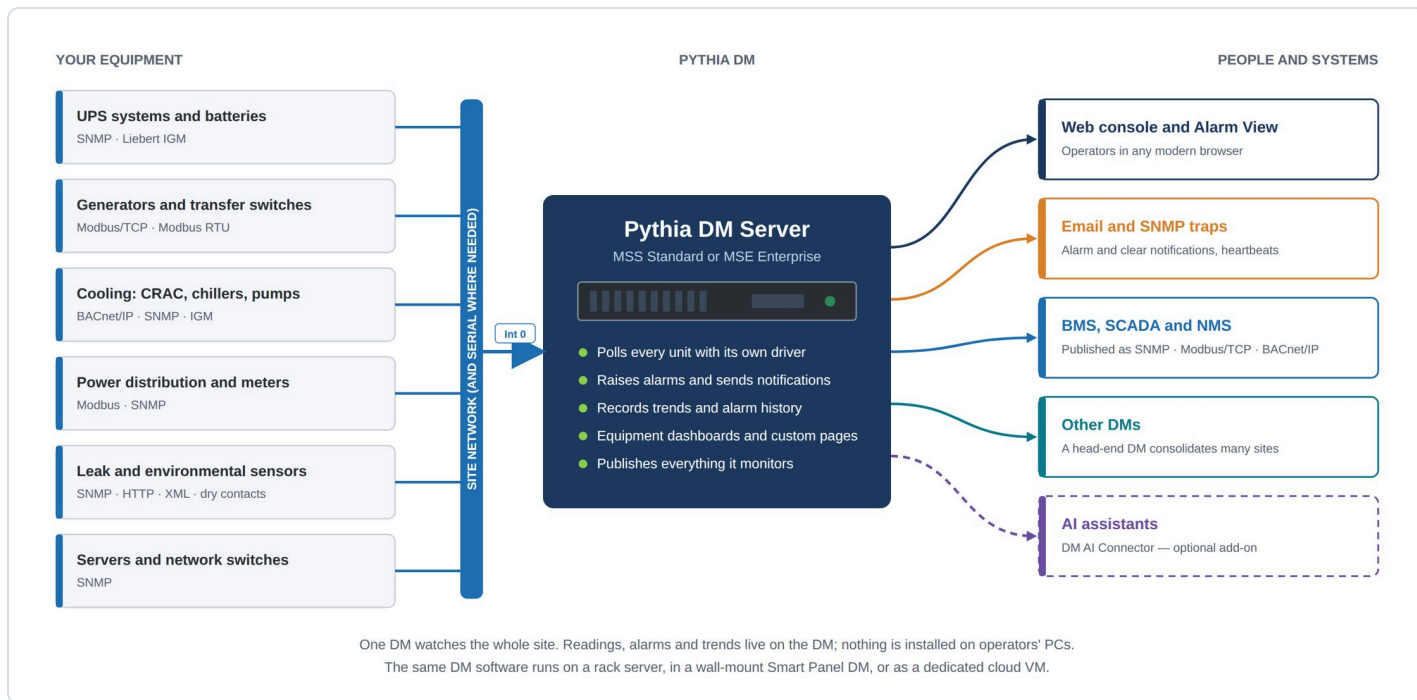
One DM, four ways to run it.

The DM software is the same everywhere. Choose the platform that suits the space and the level of resilience the site needs. The DM is delivered preconfigured, on Pythia hardware or as a dedicated cloud VM.



A typical single-server site

Equipment reaches the DM over the site network, or over serial where older equipment needs it. People and systems reach the DM's data through the console, notifications and standard protocols.

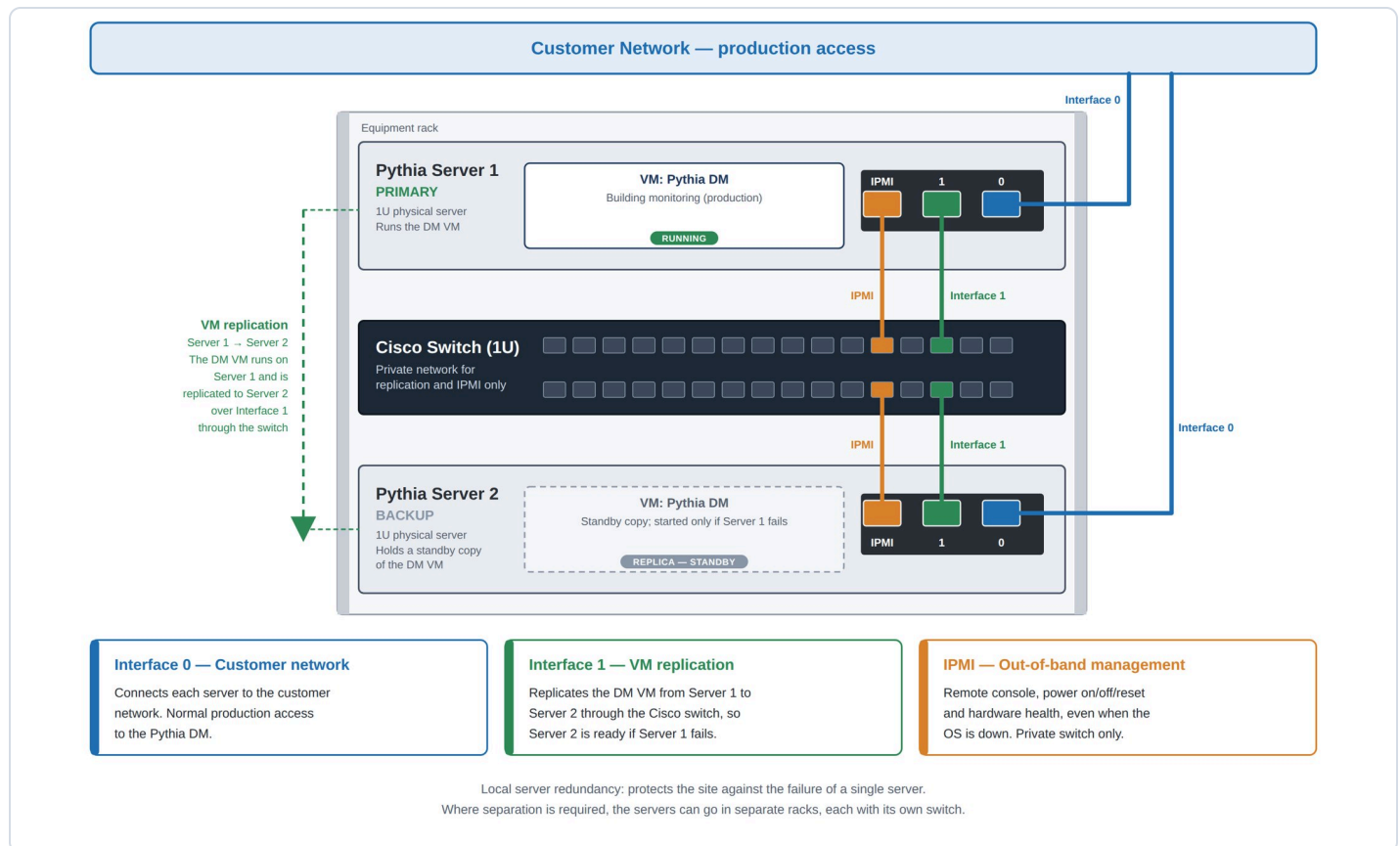


Older serial equipment? A Smart Panel DM lets a site with older serial equipment be monitored on the wiring already in place, without waiting for a capital refresh.

REDUNDANCY

When monitoring can't stop: the redundant pair.

A second server keeps monitoring running through the failure of a single server, on your own site, without waiting for a replacement to ship.



Normal operation

Server 1 is the primary. It runs the DM and handles all monitoring. Users and equipment reach it over your network through Interface 0.

Replication

While Server 1 runs, the DM virtual machine is continuously replicated to Server 2 over Interface 1 and the dedicated switch. This traffic stays off your network.

If the primary fails

The standby copy on Server 2 is brought online and monitoring continues. Server 2 has its own connection to your network. Once Server 1 is repaired, the DM moves back.

IPMI out-of-band management. Each server's built-in management controller provides a remote console, remote power on, off and reset, and hardware health, even when the operating system is down. It is kept on the private switch, not on your network.

Separate racks: where the site requires it, each server goes in its own rack with its own switch, joined by one inter-switch cable.

HARDWARE

DM servers: Standard and Enterprise.

Both run identical DM software under the same licensing. Choose by the size of the fleet and the resilience the site needs.



MSS — MicroServer Standard



MSE — MicroServer Enterprise

	MSS — DM Standard MSS-DM · redundant kit MSS-DM-RK	MSE — DM Enterprise MSE-DM · redundant kit MSE-DM-RK
Built for	A single site or a modest fleet	Larger fleets, and sites that require redundancy
Form factor	1U short-depth rack mount; cabled from the rear	1U rack mount; front access, cabled from the front
Power	Single power supply	Dual redundant, hot-swap power supplies
Storage	Single data drive	Dual mirrored data drives plus a separate boot drive
Network	Dual 1 GbE, plus dedicated IPMI port	Dual 10 GbE, plus dedicated IPMI port
Polling	Standard parallelism	Around double the parallelism of Standard
Capacity	Comfortable to around half the Enterprise ceiling	Roughly twice the monitored units of Standard
Trend history	Limited by database size	Unlimited, retained at full resolution
Redundant pair	Redundant pair with cross-server replication	Redundant pair with cross-server replication

Specifications describe each server's capability class. Components may be substituted with parts of equal or greater capability. Server hardware carries the manufacturer's own warranty.

SMART PANELS · THE DM ON THE WALL

A Smart Panel is a DM. It runs the same software as a DM server, built into a wall- or panel-mounted enclosure. It is not a gateway or a device that reports to a server. Mechanical rooms, electrical rooms and closets without a rack take a panel. Everything in this brochure applies: console, alarms, notifications, trends, dashboards, publishing and the AI Connector.



SPDM · SPDM-ND Smart Panel DM

- Eight onboard inputs, each a dry contact or a thermistor. Common local points need no extra I/O module.
- With an integrated display (SPDM) or without (SPDM-ND). Both are functionally identical.
- Monitors older serial equipment on the wiring already in place.



SPIGM Smart Panel IGM

- Built for Liebert equipment with IGM interfaces.
- Connects up to 12 IGM devices over the existing RS-422 wiring. No rewiring.
- A drop-in replacement for Liebert SiteLink.
- Built-in Ethernet switch, so one network connection serves the panel.
- Liebert cooling, UPS, power and leak-detection units get equipment dashboards.

DM AI CONNECTOR

Ask your site a question. Get an answer from live data.

Connect Claude, ChatGPT or any assistant that speaks MCP or HTTPS. It reads what your operators see: live values, alarms and history, controls, trends and the DM's protocol maps. Ask "Is anything in alarm right now?" or "Chart the UPS load for the last week" and the answer comes from the site itself. When you allow it, the assistant can make a few tightly limited changes, such as changing an enabled control's setpoint or acknowledging an alarm.

- Each assistant has its own API account and token, and can be revoked at any time.
- Every write policy is off until an administrator turns it on.
- Values outside a control's limits are refused, never adjusted.
- New accounts are Read Only. Only an administrator can allow writes.
- An operator must enable each control before any assistant can change it.
- Credentials and user accounts are never visible to the assistant.

Available for the DM server, SPDM, SPIGM and SPAC4.

LICENSING

Sized by what you monitor.

The DM is licensed by the **monitored unit**: each piece of equipment that appears as a unit in the DM. You and Pythia count the same number on screen and reach the same answer.

- Each DM is licensed on its own, whether it runs on a server, a Smart Panel or a cloud VM.
- Capacity comes in packs, and the cost per unit falls as you grow.
- Step-ups are priced at the difference.

SERVICES AND SUPPORT

From order to handover, and after.

- Deployment:** turn-up and unit commissioning, remote or on site.
- Custom graphic pages:** floor plans, heat maps and one-lines, priced per page.
- Software Assurance:** first year included. Covers priority support, automatic DM upgrades and device template updates, automatic encrypted configuration backups and a block of remote engineering hours. The automatic backups and updates are optional.
- Warranty:** one year standard, with extended hardware warranty available.

WHO IT'S FOR

IT and OT teams

Building infrastructure under a management model IT recognizes: centrally monitored, HTTPS throughout, kept current by a vendor accountable for it.

Facilities managers

Real-time visibility and alerting across every connected system, without becoming an IT specialist to get it.

Teams adopting AI

A reliable, structured feed of operational data from physical infrastructure, read-only until you decide otherwise.

See the DM running on equipment like yours.

Ask for a demo, or tell us how many pieces of equipment you need to watch and we'll size the platform and the license.

Pythia Technologies Inc.

740.363.2272

sales@pythiatech.com

pythiatech.com