Grid Solutions

DEVICE MANAGEMENT (DvM) SOLUTION

Over the past few decades, the power systems have witnessed an exponential growth in the number of electronic and intelligent devices. This surge has significantly enhanced flexibility and reliability. However, it has also introduced new challenges in terms of cybersecurity, maintenance, and management, thereby leading to increased operational costs.

GE Vernova Device Management (DvM) is a robust software suite designed to enable remote supervision and management of grid monitoring, protection, and control devices, applicable to distribution and transmission utilities, renewable operators, industrial facilities, municipalities and co-ops. It offers a range of powerful features to effectively manage the lifecycle of your IED fleet and assets, while ensuring top-notch cybersecurity and resilience.

DvM's architecture is multi-layered and vendor neutral, allowing seamless integration with other enterprise management systems. It ensures comprehensive device management by offering features such as automated event file retrieval, storage, and analysis, as well as the ability to manage various settings, configurations, firmware, passwords, and non-operational data.

DvM enables remote access to your devices from any location. Therefore, whether you are managing a small-scale operation or a large, complex grid infrastructure, it streamlines your device management processes and ensures optimal performance and reliability.

Key Benefits

- OPEX reduction with more operational efficiency and less truck rolls
- Remote secure access to devices at field level
- Single Device Management system that eliminates the use of multiple device-specific tools
- Eliminates human error through automated tasks and analysis
- Regulatory compliance supported

Secure Access to Field Level

GE Vernova Device Management enables secure access to non-operational data from the field to the enterprise level. This capability is made possible through a multilayered software-based solution. Each device has a dedicated adaptor, deployed at the Field Level which communicates using OT protocols (standard or proprietary) downstream and securely translates the information upstream to the Enterprise Level. At the Enterprise Level, the interaction with devices or information is standard, regardless of the device model or vendor, simplifying the management of field devices.

Simplified Management

- Asset inventory for fleets
- Vendor agnostic device support
- Supports devices for multiple areas: PAC, Networking, Monitoring and Diagnostics

Enhanced Productivity

- Fault data (COMTRADE and SOE) collection and visualization
- Configuration and settings management
- Firmware management and remote upgrade
- Enterprise integration services

Cybersecurity

- Device credentials and password management
- Monitoring and logging device activities
- Secure remote CLI for device-specific commands

Scalable and Flexible Deployment

- Solution for scaling up from a single Facility to over 200,000 connected devices
- Hardware agnostic deployable in any server, gateway or radio with enough computing power

Network Protocol Support

- Standard protocols such as DNP3 and SNMP
- Vendor-specific proprietary protocols
- Ethernet/IP and serial-based protocols

Regulatory Compliance

- Multiple aspects of NERC-CIP standards
- ISO 27001 annex A8
- Support to internal policies and regulations

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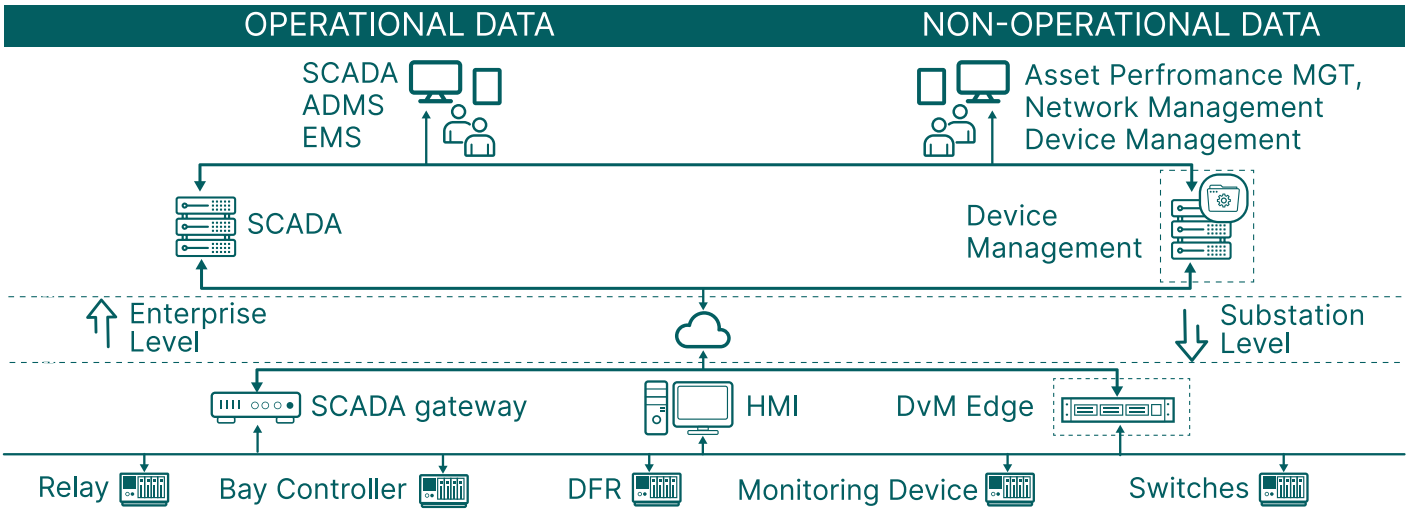

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