Amphion v2

The Amphion v2 update eliminates and alleviates obsolescence by replacing outdated hardware, firmware, and software. Each component included in the update is fully approved for use on NOV Amphion™ control systems and provides the latest functionality and security. Components have been carefully selected to ensure seamless integration with other NOV control products.

Security Updates

System Hardening:

- **USB Media Control:** Auto-mounting of USB media is disabled; access is restricted to administrator accounts.

- **Network Segregation:** Enhanced isolation of critical system components.

- **Whitelisting:** Applied where applicable for added protection.

- **Anti-malware:** Active protection on DMZ-facing Windows nodes.

- **User Management:** Improved via HMI upgrades.

- **Access Control:** Privileged accounts with enforced password policies and auto-logout after inactivity.

- **Auto-login Disabled:** For SBCs, HMIs, DataVault, eHawk, and Saga.

MOXA Networking

- Gigabit speed with 10x throughput.

- Supports Ethernet/IP, Modbus TCP, and PROFINET protocols.

- Enables data mirroring and aggregation for network monitoring.

- Features physical port locking and MAC address-based access control.

HMI Update

- Replaces obsolete, outdated, and smaller HMIs.

- Supports privilege-based access: login banner and individual accounts for Operator, Engineering, and Administrator roles.

- Incorporates the latest NOV Amphion standardized operator screens.

SBCs

- Upgraded to the latest Amphion SBC with multiple communication platform support.

NOV Data Center Enhancements

- Supports hardware for eHawk and DataVault.
- NOV DataVault is a purpose-built, engineered solution for data logging and delivery in drilling rigs and NOV control systems.

- Provides both historical and real-time data across multiple sources.
- Scalable for high-volume logging and future data expansion.

Optional: Hardware upgrades available to support added services, such as:

- Security services
- Rig data sharing services

- NOV Automation services

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