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SYMPHONY® AUTOMATED COMMUNICATIONS MANAGER

Automating Communications and Network Management to Enhance System Performance, Reduce Manpower

PRODUCT DESCRIPTION

Symphony automates communication systems and network functions for unmanned radio room operation. A remote operator uses a familiar, user-friendly browser to activate a communications plan. Symphony takes over and sets up the switch/router connections for voice/data terminals, cryptography, radios, baseband routing and RF distribution. Equipment modes and frequencies are set. Symphony can be integrated with an electronics management system to report equipment faults or status to a technician's handheld digital device or computer after automatically placing the backup equipment in service. This achieves unprecedented levels of communications system availability and platform mission performance with fewer personnel. Symphony is operational at-sea on naval and coast guard platforms worldwide.

APPLICATIONS

> Shipboard/land-based automated systems and networks

> Shore-based communications stations

Successful application depends upon systems integration based on detailed understanding of the operations, mission, protocols, organization and technical details of the system.

SERVICES AND FUNCTIONS

> Remote control of communications and network equipment and circuits

> Manages the configuration of communication circuits to execute mission-specific communication plans

> Automatic and rapid fault detection, isolation and reporting

> Enables robust dependable emission control approaches

> Detailed logging and auditing functions

BENEFITS

> Elimination of operator errors inherent in manual circuit switching/patching and control

> Nearly instant changes in circuits using pre-defined communication plans to support missions/evolutions

> No need for personnel to understand details of communication circuit setup

> Expandable for offboard communications control with addition of an orderwire

> Significant reduction in platform manpower, training and experience requirements with dramatically lower costs

As part of L3Harris MarCom Integrated Communications System, Symphony transforms the effectiveness of the entire platform.
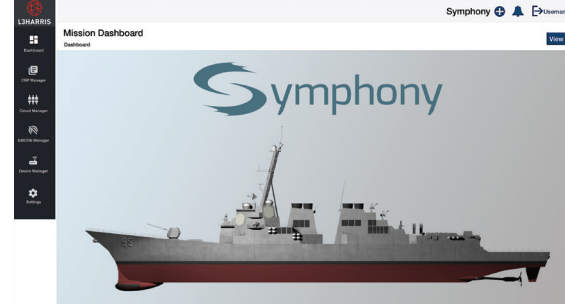
FEATURES

> Modern secure, open-architecture, Windows-based

> XML messaging scalable from one to hundreds of managed devices

> Graphical circuit view for operators and separate equipment-oriented view for maintainers

> Distributed and redundant architecture for survivability and availability

> Compatible with secure boundary devices for integration with classified systems

> Operation possible from any authorized workstation

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Improving Accuracy and Response Times While Saving Manpower

ARCHITECTURAL COMPONENTS

> Communications Service Package (CSP) software runs on a high-availability COTS server providing mission planning and execution

> Device Control Package (DCP) - software runs on a high-availability COTS server interfacing with equipment under control of Symphony

> Client LAN - Network interfaces with operators and maintainers

> Device Control LAN - Network interfaces with equipment under control of Symphony

> Client access is via Firefox web browser

> Depending on platform and system size, servers and LANs may be discrete or combined

> SECURITY

> Built-in password/authentication using standard Windows password management

> Selective network access uses router configurations, VPNs and access control lists

> Secure boundary devices used for integration of classified networks

> Optional multifactor/biometric authentication using Windows-compatible MFA products

> Configurable user role privileges to restrict access to certain functionality

> Information Assurance hardened and methodically assessed

OPERATIONS

> Mission Planning
  - Circuit Management
  - COMMPLAN Management

> Operations
  - Circuit Activation
  - Validation
  - Circuit Reconfiguration
  - User Accounts
  - COMMPLAN Activation
  - Export and Import
  - EMCON

> System Maintenance

Typical Equipment String Graphics

Equipment String with all Equipment Functioning Normally

Equipment String with Some Equipment in Failed State

Different Graphics for Other Equipment Status

Symphony® Automated Communications Manager

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This document consists of L3Harris general capabilities information that does not contain controlled technical data.

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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