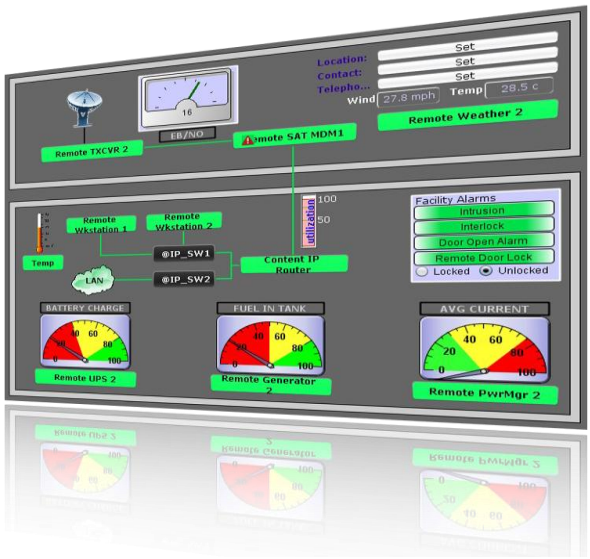
Halston SOFTWARES

"The most extensive and exhaustive suite of software modules with robust automation, built exclusively for the telecommunication and broadcasting industry."



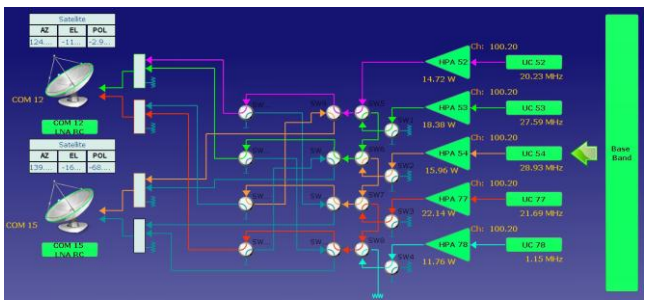
voyager

Manage, Monitor and Control Mission Critical Networks

Halston's VOYAGER is an advanced Monitor and Control System that has been developed exclusively for the telecommunications and broadcasting industry. VOYAGER ensures network operators stay out of downtime as their operations success, whether business or mission oriented depends on the communication infrastructure. Built upon Kratos' award winning and globally acclaimed COMPASS platform- VOYAGER ensures that network managers are able to take control of their diverse set of multi vendor devices using state of the art device drivers and custom automation modules developed and integrated into the NMS server system.

World-Class Monitor and Control Suite

- VOYAGER NMS System reduces costs and increases Quality of Service (QoS) by automating manual tasks and recovery from network failures.
- Decrease staff workloads and streamline operations.
- Lower operational costs and raise levels of customer satisfaction .



A snippet of VOYAGER NMS System managing a Satellite Earth Station.

Ensure Health and Uptime

- The VOYAGER NMS System monitors and manages faults and failures on devices to reduce costly downtime.
- Its real-time database engine ensures alarm and event management.
- It identifies root causes and prevents network issues by filtering, suppressing, correlating, historical logging and trending techniques thus delivering significant reduction into MTTR.

Connect to Any Device and Manage Any Network

- VOYAGER is user configurable, provides real time status and alarming, and manages all types of network element types such as RF, microwave, compression, facility alarms, security gear and much more.
- Easily communicates with Ethernet, SNMP, Serial, TL-1 devices.

End-to-End management Across Satellite and Terrestrial Networks

- Achieve a complete view of operations with a unified management dashboard for performance monitoring and reporting to enhance decision-making capabilities.
- Expand monitoring capabilities and increase situational awareness to meet evolving demands using a single and highly scalable solution.

Centralize Management of Remote Sites

- The VOYAGER operator GUI screen delivers a complete view of operations by using a compact, efficient and cost-effective mechanism for monitoring disparate equipment at a single or multiple remote sites.

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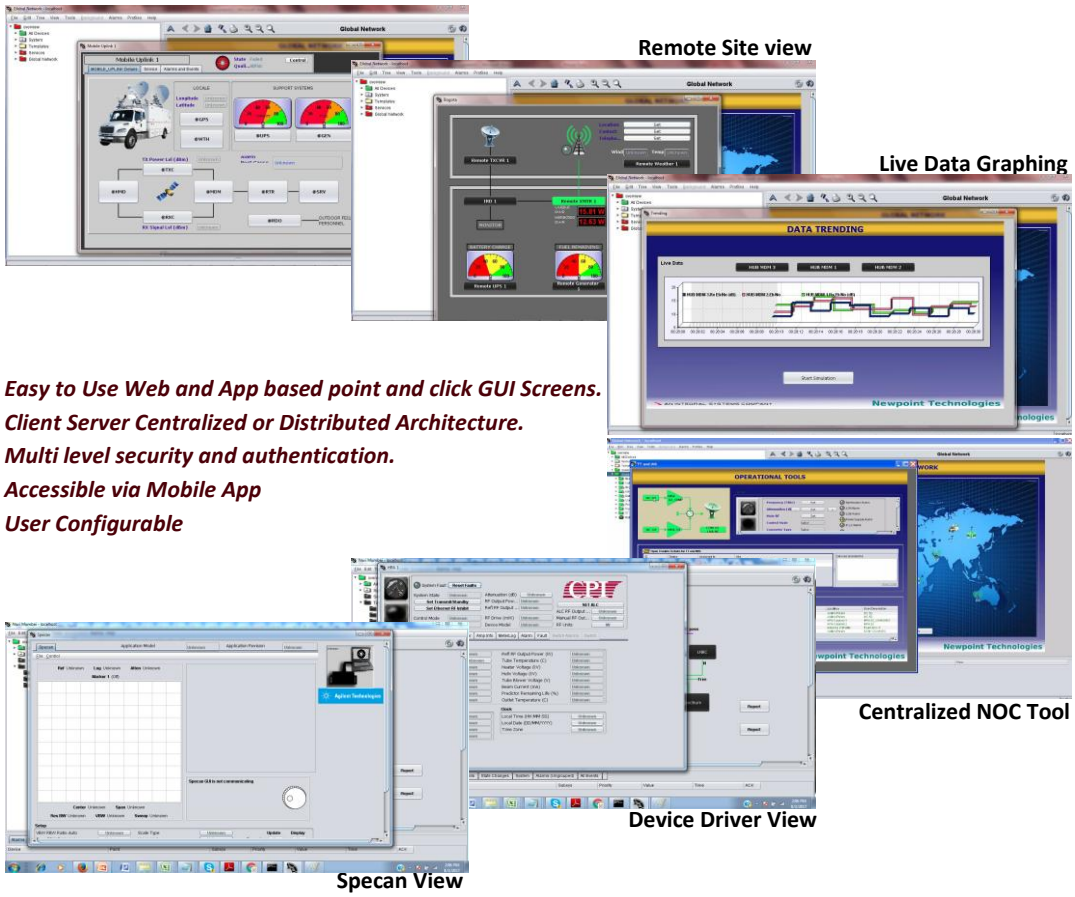
VOYAGER NMS System GUI Screens

DSNG View

Remote Site view

Live Data Graphing



Centralized NOC Tool

Device Driver View

Specan View

> Easy to Use Web and App based point and click GUI Screens.
> Client Server Centralized or Distributed Architecture.
> Multi level security and authentication.
> Accessible via Mobile App
> User Configurable

A typical 4U rack mountable VOYAGER NMS System operating in near zero downtime scenario.

Minimum System Requirements*

- 1.6 GHz Dual Core Processor
- 4 GB RAM
- 500 GB HDD
- MS WIN 7 32 bit or Ubuntu 12.04 64 bit

**For an entry level NMS system*

About Halston

For more than 15 years Halston has been providing complete satellite and terrestrial ground segment solutions. Our expert teams combine commercial-based products and services that can be customized to address the specific needs of defense, intelligence, and other government and non-government customers. Our dedication to customer service has solidified long-term relationships with Kratos products and services used by more than 75 percent of the world's satellite operators and 85 percent of U.S.-based space missions. Our wide gamut of software solutions include: Custom Automation Modules, Device Driver, GUI Screens, reporting tool, spectrum management and finally configuring and integrating these software modules into the Server hardware to deliver the robust and fault tolerant **VOYAGER NMS System.**

Robust automation modules to extend core capabilities of VOYAGER NMS System

- *Service Manager – manage services on the network*
- *Inventory Management System – manage large volumes of network assets.*
- *Trouble Ticketing System – track issues from problem to resolution.*
- *Profile Manager – create and manage device profiles*
- *Router Configuration Manager – capture, download, and restore router configuration files.*
- *Redundancy Manager & Switching Client – configure redundant systems and recover traffic automatically when failures occur.*
- *Site Diversity Manager – enable system administration to occur without downtime*
- *SNMP Manager – monitor and control SNMP devices seamlessly*
- *Spectrum Analyzer Interface – perform spectrum analysis from anywhere in the network*
- *Performance Monitoring and Reporting gain complete situational awareness from terrestrial to satellite networks*
- *SMS and Email notifications.*

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