

Magellan™ Control System

IP/SDI Routing, Control and Monitoring



Routing, Control and Monitoring

The *Magellan™ Control System* is a fieldproven solution that provides SDI/IP signal routing, parametric control, and equipment monitoring capabilities through operator-centric, highly configurable monitoring and control surfaces. Magellan Control is the culmination of decades of protocol integrations north-bound and south-bound, forming one of the most interoperable control systems in the industry.

Magellan Control addresses the challenges associated with the transition to IP, supporting systems of the scope and scale that media companies face today. Magellan Control supports hybrid SDI/IP migration strategies in addition to green-field, all-IP deployments.

Magellan Control unifies system management and operations for IP, SDI, and hybrid routing systems. It offers a seamless path from SDI to IP and UHD, leveraging existing infrastructure while delivering scalability with the efficiency of IP systems.

Magellan Control provides operators the flexibility to create, save and recall their own routing, parametric and monitoring workflows. Its easyto-use interface is context-aware, based on the needs of each operator role.

Magellan Control utilizes modern technologies that enables operators to view switching of routing paths in real time via PathView, and drill in with AlarmView integrated alarm monitoring.

Magellan Control is equally at home in SDI plants of today, allowing IP systems and endpoints to be incorporated over time - no need to forklift an existing SDI infrastructure. A hybrid mix of SDI and IP systems is controlled by the single, common Magellan Control System.

Magellan Control supports AMWA NMOS IS04/05, allowing straightforward integration of any device supporting the AMWA IS-04/IS-05 specifications. Magellan Control includes an registry and supports redundancy as a part of its own redundancy mechanisms.

Magellan Control also supports a variety of bespoke drivers for IP endpoints, as well as legacy routing protocol drivers for system integration.















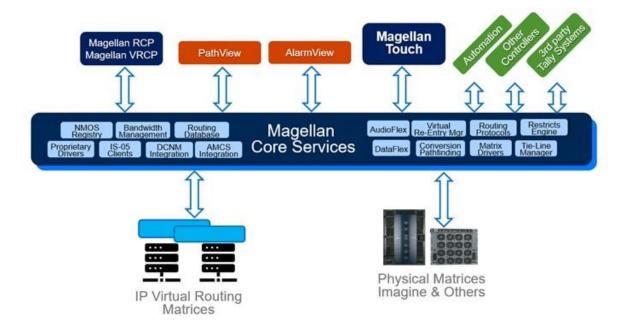








Magellan Control System



Features

Proven technology to orchestrate complete live production and playout systems
SMPTE ST 2110 and ST 2022-6
AMWA NMOS IS-04 and IS-05
Native APIs and Open Protocols
Supports SDI and IP Routing Environments
High-Availability 1+1 Redundancy

Implement a True COTS Solution Based on Open Standards

syst	ems making functionality easy and intuitive
	Dynamic Control Surfaces
R	ch Filtering and Organization
	Flexible Group Tagging
Role-	Based User Rights Management
Comp	rehensive TALLY & UMD Support
	Browser-Based Interface
densi	ve Support of Third-Party Protoco



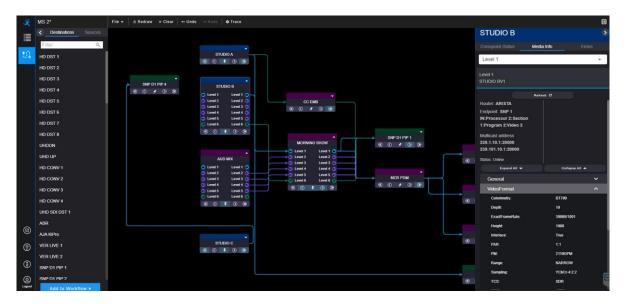
Integrated Operating and Monitoring Environment

The Magellan Control System's PathView and AlarmView features enable users to manage and monitor their IP, SDI and hybrid systems. Magellan PathView and AlarmView focus on the operator – putting the relevant controls and information in front of each user – enabling them to focus on the content, not the technology.

PathView

PathView is a live, dynamic, drag and drop organizational tool for IP and SDI routing paths.

- Live and dynamic signal-path display for SDI and IP routing environments managed by Magellan Control
- Drag and drop Source/Destination organization with paths drawn on PathView canvas
- Critical info such as signal format, SDP, audio levels/breakaway, and device alarms
- Updates instantly, providing each operator a real-time view of every route they are monitoring
- Dynamic signal-path display that integrate live telemetry and alarms user-modifiable easily on the fly



PathView User Interface

Users simply drag and drop Source(s) or Destination(s) onto the PathView canvas, where PathView graphically fills in entire path of that signal. PathView is dynamically updated, providing each operator a real-time view of every route in the part of the system they are monitoring. Multicast address, RTP information and PTP clock details allow the user to quickly identify the source and cause of any issues that may arise.

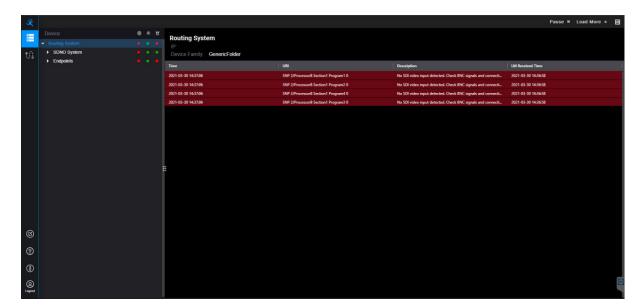
At the same time, PathView provides critical live telemetry information in the information panel related to Source or Destination being monitored, like full SDP information, audio levels/breakaway, as well as errors. Within the information panel, the user can easily see all the levels under "Crosspoint Status" section, within each level of information like router and end-point name and exact physical location of the source.



AlarmView

AlarmView monitors media network and control network connections. AlarmView provides detailed and color-coded views of active alarms.

- Tree-view of all devices being managed in the system
- Visual indicators to show IP end-points availability on the network, connections between the controller, and IP end-points, as well as alarm conditions
- · Alarm panel provides a detailed view of all active (color-coded) alarms



AlarmView User Interface

Upcoming releases will include:

- Channel-based alarms, in addition to device-based alarms
- · HTML5 web-based alarm screens, multiple concurrent users at the same time
- · Alarm management console for all devices monitored
- · Quick view for all end-point devices with active alarms
- Repository of all IP endpoints being managed in the system



Monitoring and Visualization

The monitoring and visualization solution within the Magellan Control System – Magellan Touch – provides an intuitive operational layer for production and routing control.

Magellan Touch

Magellan Touch is a production operations interface layer, designed for operators in live sports and playout environments. Magellan Touch integrates processing controls and routing in the same view, providing a highly configurable solution that can be changed on the fly by each operator.

Magellan Touch features:

- Live production operational control for media infrastructure
- · Dynamic control surfaces combine routing and parametric controls
- Rich filtering and organizing capabilities utilizing flexible grouping tags
- · Role-based user rights management
- Comprehensive TALLY & UMD
- Easy deployment, including mobile browsers

Parameter Control – In addition to routing control, parameters of supported devices can be adjusted on-the-fly without leaving the user interface. Magellan Touch can display the parameters in a contextualized way; only the currently relevant parameters are shown in the user interface. Reassigning parameters from the device's supported parameters is possible through a filterable parameter browser engine.



Magellan Touch Interface

UMD and Tally Information – An unlimited number of tallies can be calculated for all resources in the system. The majority of multiviewers and monitors can be controlled to display information like currently active source, tally signalization and other system metadata.



Magellan Touch (continued)

Integration with Vision Mixers – Magellan Touch connects to supported vision mixers to gather tally information or to remote control the mixer, integrating seamlessly with:

- · Grass Valley Karrera, Kayenne, K-Frame, Korona, Kahuna family, Kula family
- Sony MVS-series, XVS-series
- For-A HVS2000, HVS6000 and HVS6000M
- ROSS Acuity, Carbonite and Graphite platforms

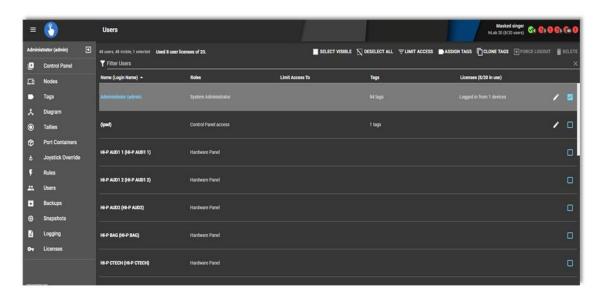
Reduced Configuration Effort – The main paradigm of Magellan Touch is to reduce configuration effort, to enable users to fully control their system and deliver a clear and simple representation of the proceedings at all times. To achieve that, Magellan Touch provides predefined user interfaces of commonly used workflows and concepts to quickly and easily create personalized user interfaces for the specific workflow tasks.

High Flexibility through Tagging – To achieve a high degree of flexibility, Magellan Touch uses a tagging mechanism. Tags describe certain attributes or properties of a resource. This can be its format, location, purpose or something completely different. Assigning multiple tags to a resource describes it in a detailed way. Magellan Touch uses this information to automatically generate control panels, to define user rights and to quickly search, filter and find desired resources.

Tagging allows for the system to reduce the configuration effort. Changes in panel assignments or user rights can be reflected in changes of tag assignments and rolled out throughout the installation in real time without any further configuration effort.

User Rights Management – The User Rights Management system allows the restriction of access to operations or resources in the system and minimizes the potential of misconfiguration or human error. Multiple administrative users can configure the system simultaneously at any time.

This way, nontechnical personal also can be given access to the system e.g., through a smartphone or a tablet without the risk of mis operation or human error.



Secure Per-Operator Access Control



Protocols and Integration

The Most Interoperable Control System in the Industry

Magellan Control System works seamlessly with all routing and end-point protocols, providing complete flexibility to customers' preferred vendor.



Magellan Control System + Selenio Network Processor =

The Perfect Combination

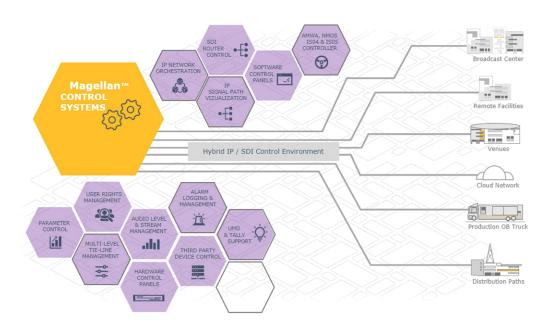


The Magellan Control System with the SNP allows media organizations to leverage existing SDI equipment in a hybrid SDI/IP environment to manage a cost-effective, self-paced transition to a full IP facility. As legacy equipment reaches its natural replacement cycle, any SNP units used as IP Gateways can be redeployed for other processing and multiviewer tasks with feature key upgrades.



Magellan Control System

Fast, Flexible, Reliable Control Solution for the Modern Facility



Embark on your facility's technology transformation from baseband to IP, meeting every investment, operational and workflow challenge along the way.

- Leverage existing SDI infrastructure investments
- · Incorporate IP at your desired pace
- · Manage hybrid environments in the transition to full IP
- Implement a true COTS solution based on open standards

YOUR PATH. YOUR PACE.

Take it on with Imagine.