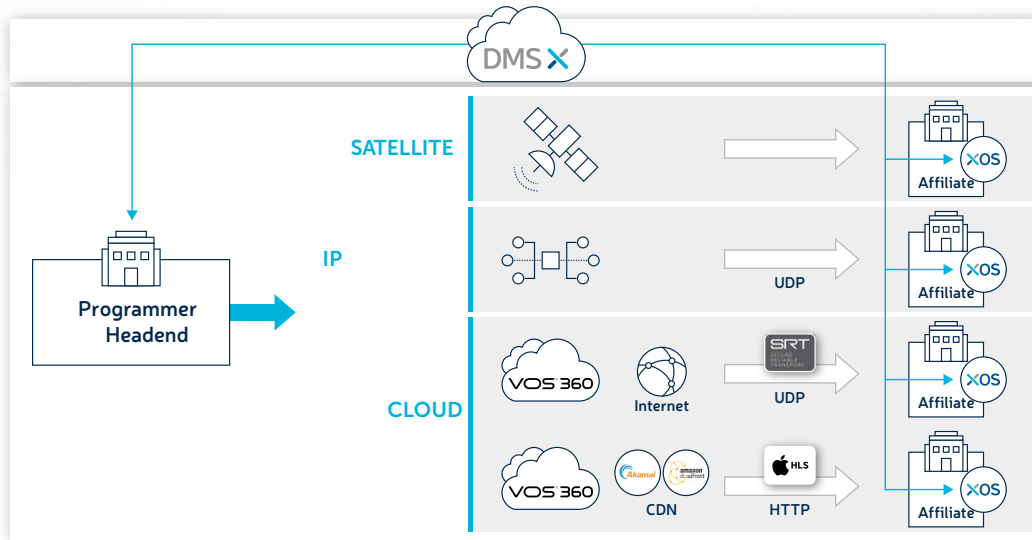


DMS X

VIDEO DISTRIBUTION MANAGEMENT SYSTEM



MediaKind Distribution Management System® (DMS X): Empowering Broadcasters with Advanced Content Distribution Solutions

In an era dominated by rapid digital transformation, the Harmonic Distribution Management System (DMS X) emerges as a pivotal solution for broadcasters and content providers navigating the complexities of content distribution. This cloud-based SaaS platform enhances operations within extensive XOS edge device networks, revolutionizing the delivery of content across Satellite, Managed IP, and Open Internet. With its robust entitlement controls and seamless integration capabilities, DMS X not only secures content delivery but also facilitates the shift from traditional satellite systems to more flexible IP-based distribution methods.

DMS X is equipped with powerful, user-friendly GUI tools that simplify the administration of vast device networks. Its customizable database along with advanced searching, filtering, and sorting tools empower broadcasters to efficiently manage and control thousands of devices. This innovative system supports the modernization of distribution networks, ensuring scalable and efficient content distribution tailored to meet the dynamic demands of the affiliates.

Backed by 24/7/365 support from dedicated DevOps teams, DMS X guarantees that your operations are always up-to-date and running smoothly. Quick and straightforward account setup provides immediate access to its comprehensive features, allowing broadcasters to enhance their operational capabilities without delay.

Customer Benefits: Enhancing Operations and Revenue Generation

Edge Device Management

- Centralizes control of large amount of devices.
- Remote updates and monitoring of devices, ensuring high service reliability and customer satisfaction.

Flexible Channel Management

- Per device Authorize and de-authorize channels
- Customize authorized channel for each remote site (codec, resolution, etc.)

Dynamic Content Customization

- Boosts viewer engagement through real-time graphic insertions.
- Includes tickers, ads, and regional program switching capabilities.

IP Distribution Efficiency

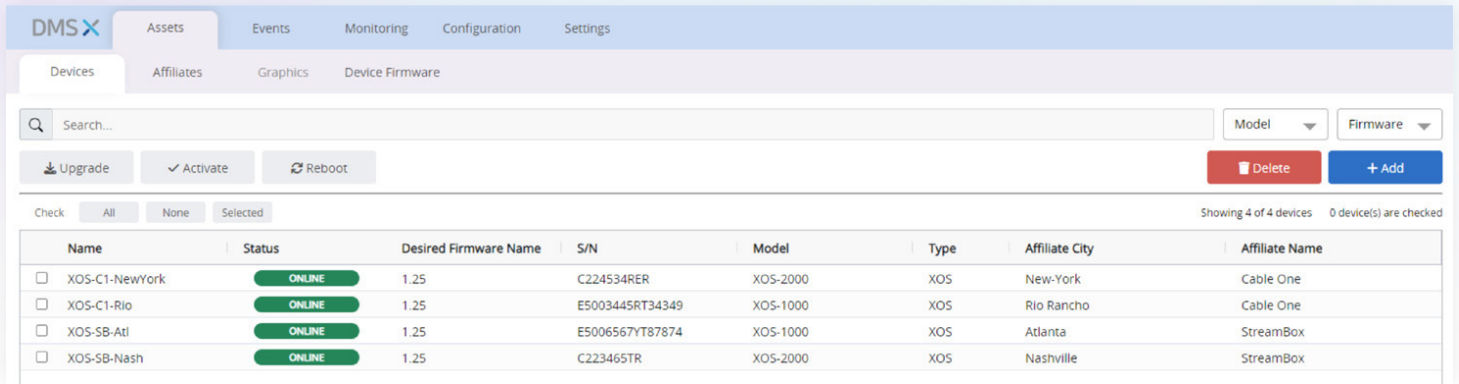
- Facilitates smooth migration from satellite to IP.
- Ensures quick global reach and significantly reduces distribution costs.

Automated Event Scheduling

- Automates operations such as regional blackouts.
- Enhances precision and reliability of content delivery across regions.

Operational efficiency

- SaaS solution, pay as you grow.
- Simple and quick activation
- Scalable from very small to multi thousand of devices / remote sites.



Supported Primary Distribution Workflows

- Satellite, IP Multicast, SRT and HLS/CDN
- Support any combination of workflow
- Convenient for migration from Satellite to IP

System control and access

- SaaS running in the public cloud.
- Multiple user levels for controlled system access
- Automatic or manual database backup

Device Configuration

- Over-the-air device management Service
- DVB-S2X and IP input configuration
- Flexible device license management
- Regional blackouts and spotlight
- Replacement / Local content
- HTML5 graphical insertion
- CA entitlements

Firmware Upgrade

- Firmware upgrade of remote receivers
- Upgrade of a single device, a group or all devices simultaneously

Supported Devices

- XOS (Small, Medium, Large, Extra Large)

Automated operation by event scheduler

- Any operation can be pre-scheduled for delayed execution
- Recurring operations – daily, weekly, monthly schedule
- Full control of command transmission period and activation time
- Active tasks snapshot view

DMS X SaaS

- Available as soon as registration is done
- Pay per usage
- 24/7/265 supported by Harmonic Devops
- Highly resilient based on Cloud Native technology

XOS Monitoring

- Heartbeat
- Alarms / Notifications
- Telemetry

User Interface

- State-of-the-art intuitive web GUI allows easy control over large device populations
- Advanced navigation, searching and filtering tools
- Customized dashboard view for system monitoring

Diagnostic tools and Auditing / Reporting

- System alarms view with sort / filter support
- Event log records every transaction in the system
- User activity log for all users
- Command history per group/device
- System generated audio-visual alerts
- Custom reports

Content Security and Authorization

- Open-system interface with all major DVB-simulcrypt CA systems
- DVB-CI compliant descrambling
- Subscriber management and CA entitlements per device or groups of devices

Device Administration and Grouping

- Central database manages all device-related information
- Customizable device group attributes
- Device grouping by applying filters on attributes
- Flexible addressability by device or group
- Flexible addressability by device or group
- Easy add / remove / edit of single or multiple devices
- Import device and affiliate information from Harmonic OneCare portal and from file

Integration with third party NMS

- API offering full access to DMS X features