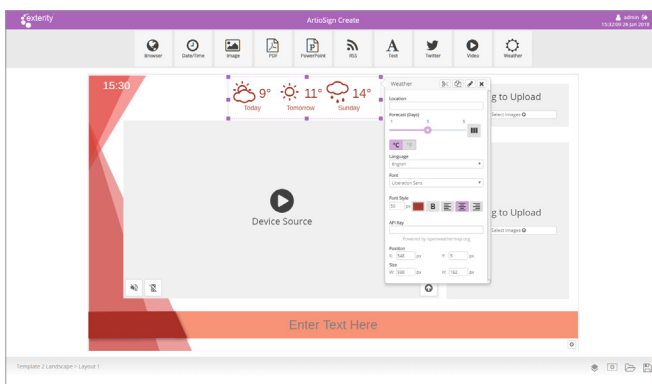


In addition to a comprehensive set of IPTV system management applications, the AvediaServer m8115 provides the ArtioSign digital signage platform with file type import conversion. ArtioSign enables the creation, management and display of digital signage on SmartTVs and AvediaPlayer Media Players as part of an Exterity IPTV system.

### AvediaServer Applications (m8115)

#### Digital Signage Applications

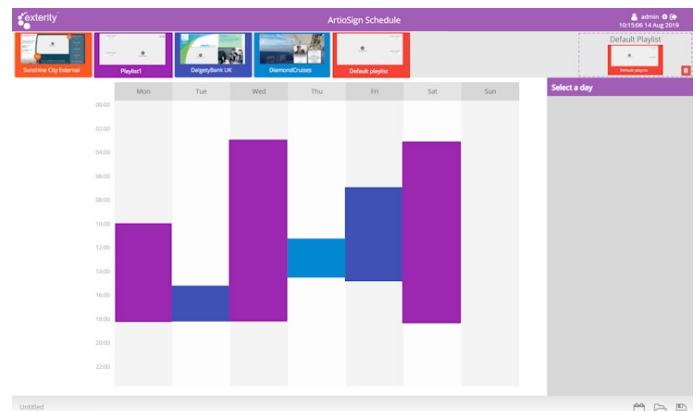


#### ArtioSign Create

- Graphical drag and drop signage creation
- Create uniquely branded, full HD digital signage layouts with drag-and-drop simplicity
- Choose from a number of different on-screen elements to build digital signage layouts:
  - Browser
  - Date/Time
  - Images
  - London Transport (licensed separately artio-lic-ldn)
  - PDF & PowerPoint import
  - Room Booking
  - RSS feeds (Scrolling)
  - Text (Static, multi-line, scrolling)
  - Twitter
  - Video (up to and including 4K)
  - Weather
- Create playlists
- Advanced user/profile permissions for multi-user access and group control
- Landscape and portrait layouts
- Configure layouts to display on certain days, dates and times

#### ArtioSign Schedule

- Schedule specific content to be displayed at certain times using ArtioSign Schedule's graphical calendar interface
- Create campaigns to combine playlists into a 24 hour/7 day repeating schedule



#### Channel Applications

##### Channels

- Reduce disruption - specify one or more alternative channels to play in the event of stream failure

#### Control and Event Applications

##### Smart Control

- Graphical control and management of viewing end points
  - Exterity 93- and 94-series Media Players
  - Samsung, LG, Sony & Philips hospitality SmartTVs (ArtioGuest)
  - Samsung & LG LFDs (ArtioSign)
- Manage guest portals and digital signage
- Grouping and drag-and-drop based management
- Initiate actions such as source change on single or groups of devices
- Send messages to selected ArtioGuest portals

## AvediaServer and System Applications

### Asset Manager

- Import and manage assets for ArtioPortal, ArtioSign and ArtioGuest

### AvediaCare

- List, order and filter the Exterity IPTV devices in your network
- Apply firmware updates, name and location changes to Exterity devices
- Download Exterity IPTV device estate details (CSV)

### Channel Monitor

- Monitor the status of IPTV channels on the network
- Automatic discovery of channels using SAP
- Real-time view of channel status
- Monitor channel performance including bitrate, uptime, continuity, TEI and sync errors

### Director

- Monitor and manage Exterity devices
- Automatic discovery of Exterity IPTV devices
- Real-time view of device status
- Configuration of individual/multiple devices
- Upgrade firmware on other devices
- Export/import configuration
- Factory reset
- TFTP Server
- Control of individual/multiple media players to:
  - Change channel
  - Change display mode
  - Change volume
- Scheduled configuration/control of the above features

### Feature Manager

- Manage and control licensing across Exterity products to enable extra features precisely as required

### Logger

- Capture historical IPTV system information for performance and event monitoring
- View detailed logs of server activity
- Control AvediaServer syslog function
- View logs from external devices

### SECUREMEDIA Link

- Link to an ARRIS SECUREMEDIA® server

### System

- Monitor and manage the core functions of the AvediaServer
- Monitor and control services running on the AvediaServer
- Configure network settings and view network statistics
- Carry out AvediaServer system maintenance such as upgrades or import/export configurations

### TFTP Server

- Store and serve files such as firmware and other resources for IPTV devices

### Users

- Create and manage AvediaServer users, configure access permissions including security and Single Sign On for AvediaServer and Active Directory users:
  - Create and edit user accounts
  - Set up profiles for groups of users
  - Configure Active Directory (LDAP) integration and Single Sign On settings
  - Set up device and user access control
  - Configure HTTPS secure server & Single Sign On (SSO) access
- Upload and host a simple website on the AvediaServer to provide information to end users

## Statistical Analysis

### ArtioInsight

- ArtioGuest - view and export ArtioGuest Video on Demand and TV channel usage statistics
- ArtioSign - view and export ArtioSign proof of play statistics

## Technical Specifications

### System

- AvediaServer software based on CentOS 7
- System access via command line only for ease of use, performance and security

### Management

- HTTP/HTTPS web interface for AvediaServer administration
- Recommended browser: Chrome®. Check with support@exterity.com for version information
- Access the Exterity Server Admin Program using SSH or serial RS232 port on c1500 series platforms
- Serial RS232 admin port on c1500 series platforms

### Network

- Linux IPv4 stack
- DHCP or Static IP addressing (recommended)
- Supports HTTP proxy
- Ethernet link aggregation
- Ethernet link redundancy
- Firewall enables separate streaming and administration/application interfaces

### Protocols

- IP (RFC 791), TCP (RFC 793), ARP (RFC 826), DNS (RFC 1035), DHCP (RFC 2131), ICMP (RFC 792), TFTP (RFC1350), HTTP (RFC 616), SYSLOG (RFC 3164), NTP (RFC1305), SAP (RFC 2974), SDP (RFC 4566), SSH (RFC 253), SNMP (v1, v2c -RFC 1901), LDAP (RFC 4511)

Applications	AvediaServer Core Software Modules				
	m8105	m8115	m7205	m7305	m8365
AvediaServer Applications	✓	✓	✓	✓	✓
Digital Signage Applications	✓	✓ <sup>1</sup>	✓ <sup>1</sup>	✓ <sup>1</sup>	✓ <sup>1</sup>
Control and Event Applications	✓ <sup>2</sup>	✓ <sup>2</sup>	✓	✓	✓
Channel Applications		✓ <sup>4</sup>	✓	✓	✓
User Experience Applications			✓	✓	✓
Property Management System Integration			✓ <sup>3</sup>	✓ <sup>3</sup>	✓
Video on Demand Applications				✓	✓
ArtioInsight		✓			✓

<sup>1</sup> Includes ArtioSign file conversion.    <sup>2</sup> Includes Smart Control application only.    <sup>3</sup> Separate license required.    <sup>4</sup> Channels application only.