



XMS Series

ConvergeMedia™ Distribution Platforms



- Adaptive Storage Technology
- Multi-Screen Support
- Unified Platform Supporting Video and Advertising Delivery
- Architectural Flexibility
- Independently Scalable Streaming & Storage
- COTS provides cost-effective solution to decouple ingest, storage & streaming
- Best Suited for:
 - Video On Demand
 - IP Video
 - Linear & Advanced Advertising
 - RS-DVR & Time Shifted Applications

As consumers demand more choice in how, when, and where they experience content and with the shift of Traditional TV viewing to alternative online services, operators need to make compelling content more readily available online and as mobile video services.

Next generation service providers will accommodate their subscribers with content anywhere, anytime, on any device not only re-engaging their subscribers with new offerings, but also treading the path for further revenue opportunities and additional market share. Beyond set top boxes, the broadband industry can leverage content relationships and control of access network to offer IP applications and content access over any of the devices that may arise in the near or later future.

The ARRIS ConvergeMedia XMS distribution platform is the foundation for such innovative media delivery. As subscribers & operators needs shift, it is imperative that distribution & management platforms provide the foundation necessary to fulfill such demands in a cost effective manner.

ARRIS' video distribution servers leverage open platforms with purpose built application software; providing the greatest flexibility and best price/performance ratios. The XMS platform utilizes a Linux based operating system with the ARRIS Streaming Media Engine (SME) application software, allowing maximum streaming efficiency and density while leveraging Ethernet interconnectivity to allow an unlimited number of servers thus offering virtually unlimited scalability.

The XMS is a major evolution of the existing VOD and Ad Insertion server family. ARRIS realizes that stability and operations predictability are major factors required to ensure success and lower operating costs. The XMS interoperable design allows side-by-side operation of the new XMS and previously deployed servers, enabling scalable solutions with lower CapEx.

Always at the forefront in standards development and compliance,, ARRIS is a valued provider of service offerings that provide a real return on infrastructure investment.

Built In Service & Platform Transition Strategy

ARRIS facilitates scalable solutions which leverage existing infrastructures to enhance features and opportunities, ensuring minimal additional capital expenses are incurred to deploy exciting new offerings. Focused on open based standards and COTS, ARRIS empowers operators to deploy a cost effective system that decouples storage from ingest and streaming. Sprawling racks are reduced through selection options of different storage sub-systems.

- Migrate deployments using n5 and n4xR3 class of servers into the Next Generation topology w/o forklift upgrades
 - Migrate existing n5 servers to a centralized library server while deploying new XMS servers at edge locations in Next Generation architectures
- Perform system upgrades without disrupting service during the same period

Active Failover Ensures Operators Retain Maximum Reliability

Using its industry acclaimed knowledge of video streaming as its base platform, ARRIS is increasing its media streaming resiliency to ensure subscriber services are not interrupted in the event of catastrophic failure. Active Failover provides operators with the tools they need to continuously produce revenue generating services, regardless of planned or unexpected changes in operations.

This new functionality enables the operators to ensure a high quality of experience to their OnDemand service subscribers, ensuring a seamless transition should a failure occur. The ARRIS XMS provides Fault Detection, Isolation, and Recovery (FDIR) from:

- Streaming engine interface failures
- Streaming engine HUB failures
- Storage cluster failures

With the introduction of active failover, ARRIS can provide operators with increased service uptime and the ability to enforce upgrades without affecting service during the same period – allowing a consistent revenue stream, even when implementing feature and product enhancements.

Independent Storage and Streaming with Adaptive Storage Technology

With the XMS platform ARRIS is introducing independent storage clusters that can be coupled with one or many streaming media engines, thus allowing operators to only grow storage arrays as content library needs grow and only grow streaming capacity as subscriber base or concurrency rates increase. Operational expenses such as power, cooling, or rack space are not wasted by adding non-essential elements.

- Deliver multiple 1 & 10 Gbps pipes of video
- Up to 192 TB of storage
 - Adaptive Flash, RAM, and SSD based storage for lowest maintenance costs and highest service availability
 - SAS & SATA based storage clusters to provide low cost storage libraries

Multi-Screen Support

In order for operators to stay in the forefront of the industry, it is imperative to support media over any distribution network. ARRIS OnDemand solutions realize these changing environments - conforming & expanding our offerings to suit the needs of the operator, as well as the end user. ConvergeMedia™ Application & Distribution Platforms offer a complete solution to manage personalized media experiences and deliver advertising revenue across all networks and devices.

- Multi-codec, resolution & encoding profile support for video delivery to STB, PC and mobile devices including seamless video playlist transitions
- Integrated Advertising support for all screens to deliver unified advertising campaigns across all media planes/devices

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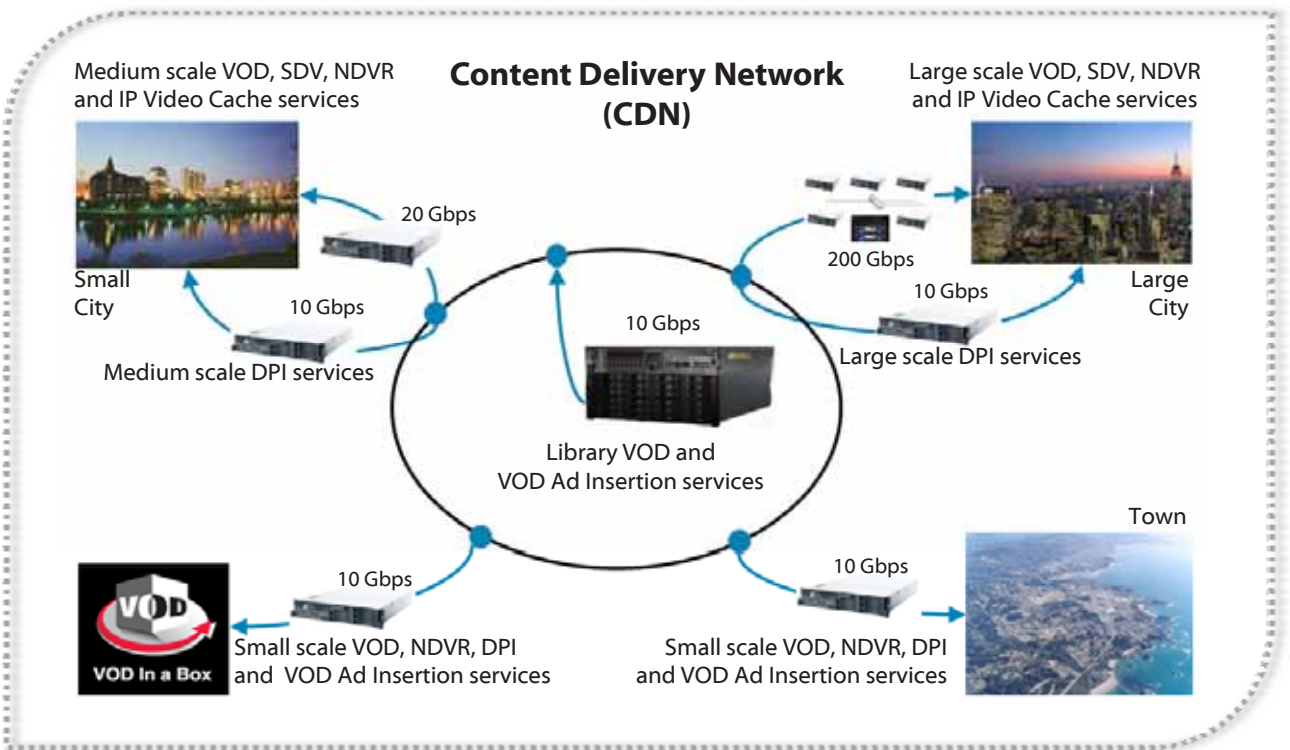
The Simplicity of a Single, Unified Platform

ARRIS recognizes that the Return on Investment (ROI) is a major focus for an operator, when determining whether a new product or feature should be implemented within their services. With this in mind, ARRIS has developed a pre-integrated solution which allows operators to implement one or many revenue generating offerings, within one common platform. With Video On Demand viewings rapidly increasing each year, it is important to have an open platform that allows for the addition of new revenue generating services.

ARRIS is the only provider to offer a single video delivery platform for VOD, Linear/OnDemand Advertising, and nDVR/Timeshifted TV - eliminating silos. The Unified Platform allows operators to grow & generate an annuity stream from linear advertising by growing their existing VOD platform to support DPI. Conversely, operators are able to reduce subscriber churn by growing their DPI platforms to support VOD using the same hardware infrastructure – also reducing operational complexity with unified management.

ARRIS Systems allow operators to manage all aspects of VOD and Advertising Insertion – the system, the content, and the business all from a single, integrated platform that provides operators with the ability to achieve maximum revenue from each market.

- Consolidate Linear Ad Insertion, Advanced Advertising, VOD, SDV, nDVR, and Timeshifted TV platforms
- Lower Operating Expenses by managing one, single platform
- Expand system effectiveness while gaining additional revenue opportunities
- Utilize existing real estate to expand offerings and preserve investments



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