



Networked Media at the AMWA

NMOS

What are the Networked Media Open Specifications?

They are a growing family of specifications which are available to both suppliers and end users, at no cost, to support the development of products and services which work within an open industry framework.

Wherever possible, the specifications are being developed using Internet standards or Internet-friendly techniques. They are complementary to and co-exist with industry specifications and standards; for example, VSF TR-03, SMPTE ST-2110 and AES67.

The AMWA specifications are open to everyone, even while they are works-in-progress, and are hosted on GitHub, a popular open development platform. This means anyone can read our specifications, even as they are taking shape.

What is AMWA IS-04?

IS-04 is the first in the series of specifications and relates to Discovery & Registration.

Are Open Specifications for Networked Media needed?

Media companies are currently planning to purchase IP-based professional media solutions and have been faced with a range of non-convergent solutions, particularly for functionality beyond the 'wire-for-wire' replacement for SDI that is specified in SMPTE ST 2022.

If this trend continues, interoperability between products from different suppliers would be very limited - and end users' ability to build best of breed systems would be severely restricted.

As a consequence, the industry would face a painful 'rationalization' as systems which have been relatively recently purchased, would either have to be retrofitted or replaced entirely by a future generation of more interoperable software and hardware.

The goal for this initiative and the Open Specifications is to deliver interoperability and increase the choice of products across a wide range of suppliers, allowing flexible, cost-effective system designs.

How does the Networked Media Incubator project help?

The project seeks to maximize early interoperability by adopting an open, iterative approach. For each phase, the group picks a technical area of focus, agrees to the design approach, implements independently and tests interoperation at a physical workshop.

Early phases focused on the foundational frameworks identified in the JT-NM RA. Within the Networked Media Incubator project there are a number of different but related pieces of work. These include:-

- Discovery & Registration
- Connection Management API
- Network Controller
- Automated Testing Framework
- NMOS Content Model
- RTP mapping of the identity and timing information of the Content Model

Over 50 organizations are participating in the AMWA's Networked Media initiatives

AJA	ALC NetworX	Aperi
Arista	Atos	Avid
Axon Digital Design	Barco Silex	BBC
Calrec Audio Ltd	CBC Radio Canada	Cinegy
Cisco	Coveloz	Dalet
dB Broadcast	DELTACAST	DirectOut
EBU	Embrionix Design	Ericsson
Evertz	EVS	Fox
Glitch Digital	Grass Valley	Harmonic
Imagine Communications	IML Co. Ltd.	Lawo / LSB
Macnica Americas	Matrox	Mellanox Technologies
MNC Software	MOG Solutions	Nevion
NHK Japan	Origami Tech	Panasonic
PBS	Riedel	Ross Video
RTI	Snell Advanced Media	Sohonet
Sony	STORDIS	Streampunk Media
Suitcase TV	Tektronix	Telestream
The Telos Alliance		

To join or for further information

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Apr 2017