

The JT-NM Roadmap and what it shows

- Which standards and specifications enable the JT-NM Reference Architecture
- How the range of underlying technologies is expected to evolve
- When it is expected that those standards and specifications be widely available to build interoperable multi-vendor systems

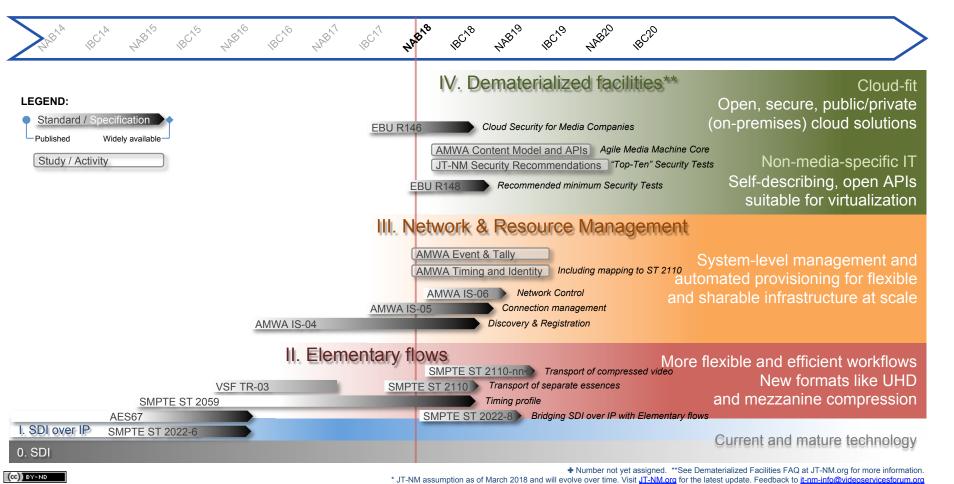
Note that timescales shown are approximate and may vary depending on the speed of industry developments.







JT-NM Roadmap of Networked Media Open Interoperability*



Dematerialized Facilities

Two main sub-categories

Cloud-fit – suitable for use in a cloud-based environment

- On Demand scalable, elastic, meterable
- Security from the outset Internet best-of-breed
- Generic cloud infrastructure ubiquitous/resilient/public API
- Self-describing APIs well documented, fully functional
- Multi-cloud private/public/multi-cloud vendor

Non-media specific IT

- Software-only
- Virtualizable runs on virtual machines
- COTS Hardware entirely COTS or COTS w/specialised boards
- Layered & open architecture follows current best practices

New Activities

- AMWA Event & Tally
 A simple protocol for signaling and/or becoming aware of time-critical events
- AMWA Identity & Timing
 Support user requirement to identify and synchronise separate but related content throughout a workflow ("end-to-end")
- AMWA Content API
 In a Dematerialised facility, allows access to read, write and make grains on-the-fly. Provide a RESTful mapping to HTTPS and other protocols
- JT-NM Security Recommendations
 A "Top Ten" list of basic security recommendations that may be verified during upcoming JT-NM Interop events

Changes since previous version (September 2017)

- Refreshed "Dematerialized facilities" layer with:
 - EBU R148 Recommended minimum set of security tests
 - AMWA "Content API"
 - JT-NM Security Recommendations
- Updated "wide availability" dates to latest market information:
 - IS-04, IS-05, IS-06
 - SMPTE ST 2110, SMPTE ST 2059
- Changed name of Auto-Provisioning layer to Network & Resource Management
 - Changed descriptive text at far right on Network & Resource Management to, "system level management and automated provisioning for flexible and sharable infrastructure at scale"
- Refreshed "Network and resource management" layer with:
 - AMWA "Identity and Timing"
 - AMWA "Event and Tally"
- Refreshed "Elementary Flows" layer with:
 - SMPTE ST 2022-8 (Bridging SDI over IP with Elementary flows)
 - SMPTE ST 2110-nn* (Transport of compressed video)
 - * number not yet assigned (← added this text to the legend at the bottom)
- Moved the red line to NAB 2018
- Updated date to March 2018
- Small cosmetic and editorial changes

Changes since previous version (April 2017)

- Expanded section IV. Dematerialized facilities & added Cloud-fit & Non-mediaspecific IT sub-categories
- Added short description and other items to Dematerialized facilities lane
- Added JT-NM Activity (e.g. Identify Best Practices) to Dematerialized facilities
- Added reference (**) to Dematerialized Facilities FAQ
- Decreased size of 0. Current SDI & I. SDI over IP lanes & reduced detail
- Added 'Study/Activity or other.' to "LEGEND"
- Added AMWA and EBU document numbers & titles for IS-05/6 & R146.
- Removed AMWA NMOS generic arrow
- Combined discrete elements of ST 2110 into a single arrow
- Move the red line to IBC 2017
- Updated date to August 2017
- Small cosmetic changes