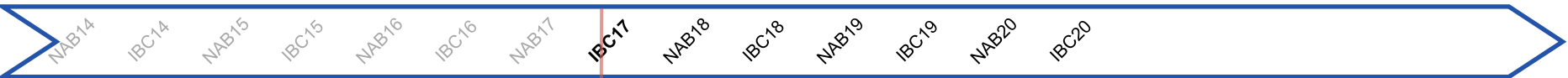


The JT-NM Roadmap and what it shows

- **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*



LEGEND:

- Standard / Specification (arrow with dot)
 - Published (arrow with dot)
 - Widely available (arrow with dot)
- Study / Activity or other. (rectangle)

IV. Dematerialized facilities**

EBU R146 → *Cloud Security for Media Companies*

JT-NM Activity → e.g. *Identify Best Practices*

EBU - Investigating models/workflows → e.g. *reports and best-practices*

AMWA Labs Findings → e.g. *AMWA Specs/Best Practices*

Cloud-fit
Open, secure, public/private cloud solutions

Non-media-specific IT
Self-describing, open APIs suitable for virtualization

III. Auto-Provisioning

AMWA IS-06 → *Network Control*

AMWA IS-05 → *Connection management*

AMWA IS-04 → *Discovery & Registration*

Automated resource management for more flexible and sharable infrastructure at scale

II. Elementary flows

VSF TR-03 →

ST 2110 → *Transport of uncompressed essence*

SMPTE ST 2059 →

AES67 → *Audio*

SMPTE ST 2022-6 →

I. SDI over IP

More flexible and efficient workflows
New formats supported like UHD and mezzanine compression

0. Current SDI

Current and mature technology



**See Dematerialized Facilities FAQ at JT-NM.org for more information. * JT-NM assumption as of August 2017 and will evolve over time. Visit JT-NM.org for the latest update. Feedback to jt-nm-info@videoseervicesforum.org

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

Changes since previous version (April 2017)

- Expanded section IV. Dematerialized facilities & added Cloud-fit & Non-media-specific 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