



JT-NM Networked Media Roadmap of Open Interoperability

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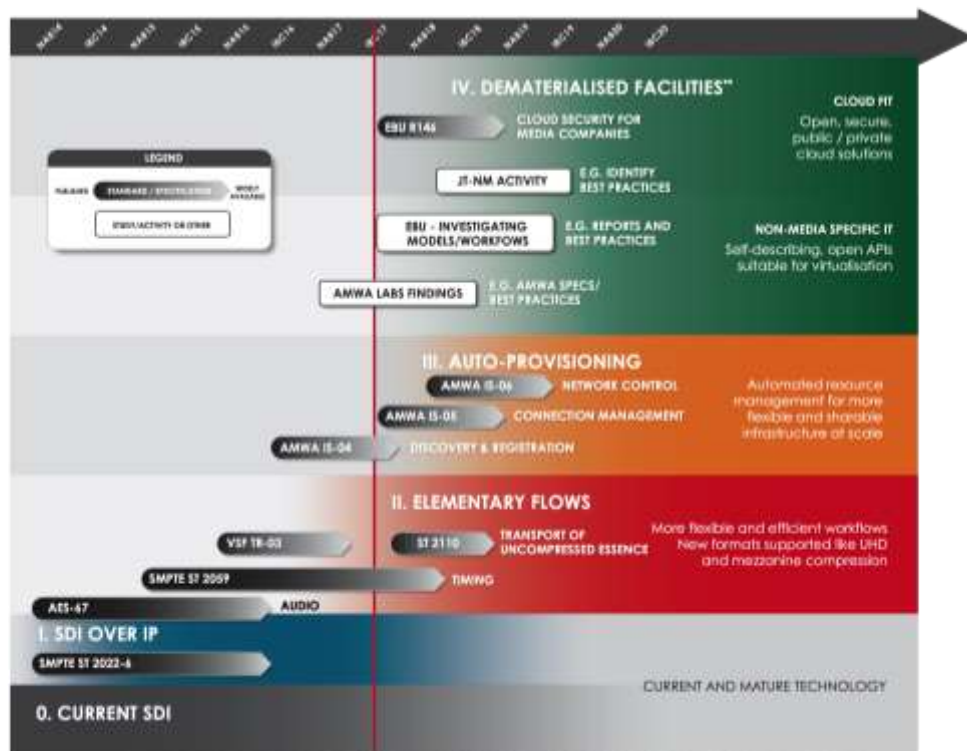
The JT-NM Roadmap and what it shows

- **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.

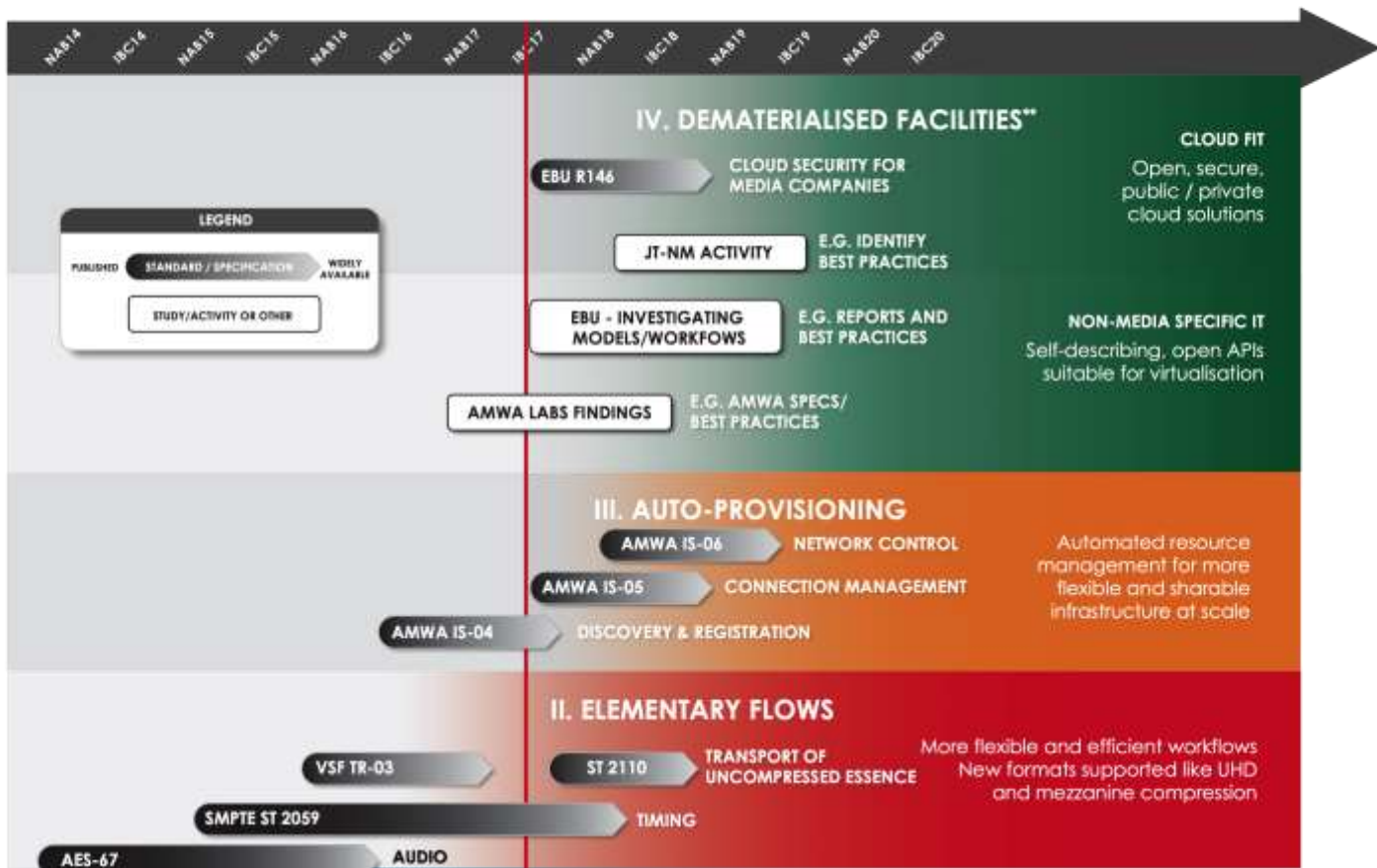
JT-NM ROADMAP

of networked media open interoperability*



*Additional formation on Dematerialized Facilities SDI coming ** JT-NM assumption as of August 2017 and will evolve over time. VSF JT-NM.org for the latest updates. Feedback to jt-nm-2016@lists.ffmpeg.org







Joint Task Force on Networked Media

Information Sheet - IBC 2017 Dematerialised Facilities

What is the Joint Task Force on Networked Media (JT-NM)?

The Joint Task Force on Networked Media is a joint effort of the

- **AMWA** (Advanced Media Workflow Association),
- **EBU** (European Broadcasting Union),
- **SMPTE**[®] (Society of Motion Picture and Television Engineers[®]) and
- **VSF** (Video Services Forum).

The mission of the JT-NM is to help to drive development of a packet-based network infrastructure, in an open, participatory environment, for the professional media industry. This is achieved by bringing together manufacturers, broadcasters and industry organisations (standards bodies and trade associations) with the objective to create, store, transfer and stream professional media.

What does the JT-NM Roadmap Show?

- **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 will be widely available to build interoperable multi-vendor systems

What is a Dematerialised Facility?

A 'dematerialised facility' is a broadcast facility operating on generic IT equipment, and in some cases, housed in remote locations operated by others. The dematerialised facility uses Internet technology, which allows the rapid scale-up and scale-down of these facilities, and has security built-in from the beginning. Users demand open facilities which are composed of any combination of private on-premises technical facilities owned by the broadcaster and multiple off-premises cloud technology providers.

Why are there sub-categories under "dematerialised facilities" in the JT-NM Roadmap?

The JT-NM felt that the category of "dematerialised facilities" could be further broken down into the sub-categories of Cloud-fit, and Non-media-specific IT. Cloud-fit applies to solutions that have been architected from the ground up to run in a cloud infrastructure. Non-media-specific IT refers to those solutions and applications that, while perhaps not 100% cloud-fit, subscribe to key principles that help support their use in dematerialised facilities.

For further information

Visit www.jt-nm.org/

Or write to jt-nm-info@videoservicesforum.org

JT-NM Information Sheet Dematerialised Facilities <http://www.jt-nm.org>



Dematerialized Facilities

Two main sub-categories

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

- On Demand – scalable, elastic, measurable
- Security from the outset – Internet best-of-breed
- Generic cloud infrastructure – ubiquitous/resilient/public APIs
- Multi-cloud – private/public/multi-cloud vendor

Non-media specific IT

- Self-describing APIs – well documented, fully functional
- Software-only
- Virtualisable – runs on virtual machines
- Security – best current practices
- COTS Hardware – entirely COTS or COTS w/specialised boards
- Layered & open architecture – follows current best practices

Conclusions

- Roadmap continues to provide industry vision
- Greatest change is Dematerialised Facilities
- Information sheet on Dematerialised Facilities available at JT-NM.org
- Roadmap shows when Standards/Specifications are published
- Roadmap also shows when facilities may be built using open industry solutions that are widely available
- Roadmap WILL change and evolve
- Industry working together to make open IT-based media facilities a reality