

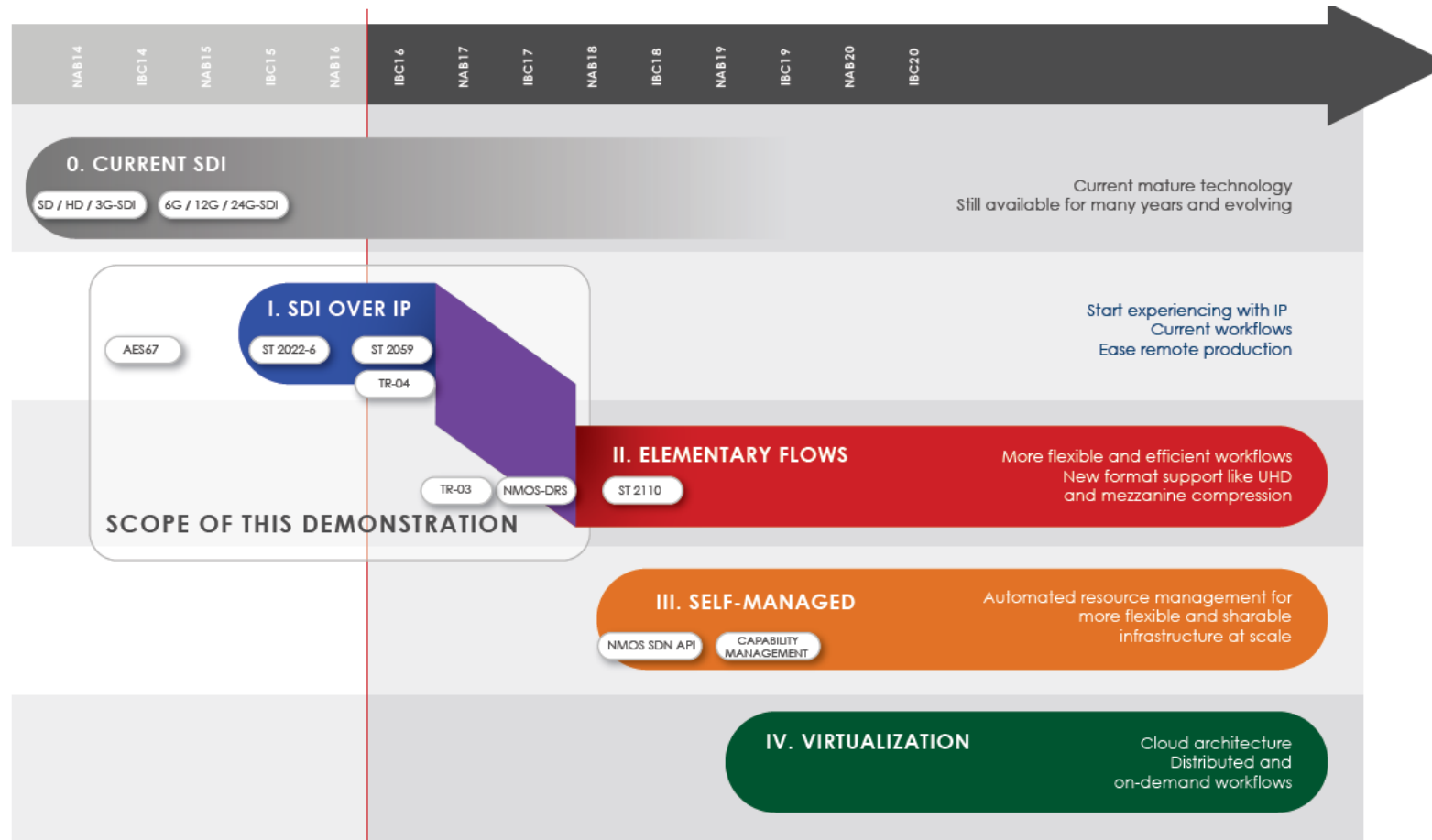


Introducing The JT-NM Roadmap

JOINT | INTEROPERABILITY
D E M O N S T R A T I O N

Align 2016

JT-NM NETWORKED MEDIA ROADMAP OF OPEN INTEROPERABILITY



Roadmap is the current projection as of June 2016 and will evolve over time. Visit JT-NM.org for the latest update.

WHAT DOES THIS ROADMAP SHOW?

Which standards and specifications enable the developing architectures

How the range of underlying technologies is expected to evolve

When it is expected that an interoperable multi-vendor system can be built around a standard / specification
(Interoperable + Available + Mature)

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

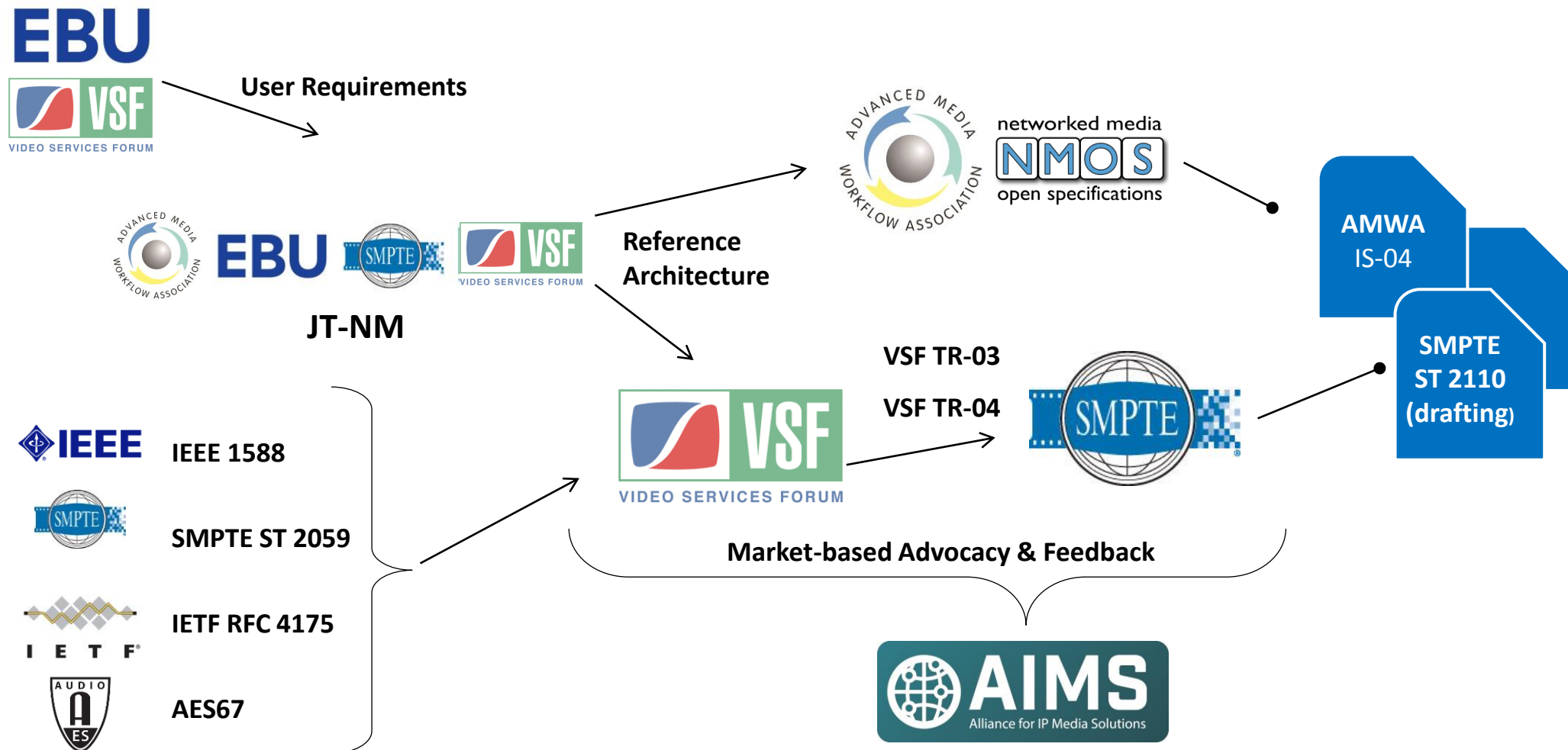
HOW DOES THIS HELP MY BUSINESS?

- It supports the **logical development** of new technologies, standards and specifications
- It helps our industry move forwards in a well planned, **reliable** way
- It helps **planning** of new infrastructures and products
- The changes in underlying technologies will enable **greater flexibility** in system architectures
- Systems and workflows will be **quickly and easily adaptable** to respond to consumer demand

WHO IS DRIVING THIS PLAN?

- The roadmap is supported and driven by **leading industry associations**
- Each provides a **specialist contribution** to ensure that **end users and suppliers needs** and input is considered
- A large number of **suppliers support the plan** and are implementing the technologies.
- The **demonstrations here** show the work by some of these suppliers.

CONVERGENCE OF STANDARDS



THE STANDARDS AND SPECIFICATIONS

SMPTE ST 2022-6

- Originally designed for transport of video and audio between facilities
- Audio, video and data are bundled
- Great for applications where video and audio need to be bound together

VSF TR-04

- Created to increase usability and functionality of 2022-6 inside facilities
- Functionality is restricted, implementation cost is reduced and interoperability is improved
- TR-04 adds AES-67 audio

THE STANDARDS AND SPECIFICATIONS

VSF TR-03

- Essence based transport, for use inside facilities
- Video, audio and data are broken into separate IP flows
- These flows need to be managed for content type and timing
- Devices need to be recognised
- Supports broadcast workflows where audio and video are manipulated separately

AMWA NMOS

- Software-based specifications to provide discovery, registration, and connection management capabilities
- Designed for use within and between facilities in IP systems

THE STANDARDS AND SPECIFICATIONS

AES-67

- Audio-over-IP Standard
- Well established in the audio Industry

SMPTE ST 2110

- Development work is in hand to create ST 2110
- Based on VSF Technical Recommendations TR-03 and TR-04