Update from AMWA
NMOS Steering Committee

Félix Poulin, CBC / Radio-Canada (user-chair)
Gareth Sylvester-Bradley, Sony (vendor-chair)

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What is NMOS Steering

- Governance of Network Media Open Specifications (NMOS)
- Oversee strategy, roadmap and architecture for NMOS
- Recommend the Board of Directors to start, extend NMOS Activities and elevate publication of Specifications
- Establish a Communication Plan with AMWA Marketing

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Criteria for Quality and Adoption

- New Activity proposals - e.g. new or updated Specifications - go through a set of criteria:
  - ✓ Part of the NMOS roadmap
  - ✓ Compatible with NMOS architecture
  - ✓ Verified that no existing solution is suitable
  - ✓ Wide support, engaged participation, good representation of users
  - ✓ Definition of Done: proven by code and test suite coverage
  - ✓ Target timeline
  - ✓ Clear IPR policy

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Fast and Agile Specification Development

Work In Progress

- Belongs to a well-scoped and time-bounded AMWA Activity Group
- Business owner represents the users
- Technical lead reports to Steering
- Engaged participants contribute, review, prototype and feedback
- Usually publicly available

Specification

- Evidence of business value
- Sufficiently mature, ready for product development
  - Proved in multi-vendor workshops
  - Good test coverage in the NMOS Testing Tool
- Reviewed in Steering
- Approved by AMWA Board
- Published, immutable, with editorial and bug fixes as vX.Y.1, etc.

Stable Specification

- Track record of implementation into shipping products from multiple vendors
- Assurance that no major technical changes are anticipated
- Reviewed in Steering
- Approved by AMWA Board

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Published Specifications

IS-04	Discovery & Registration Node API, Registration API, Query API	Stable Specification v1.3 @ 6 September 2019
IS-05	Device Connection Management Connection API	Stable Specification v1.1 @ 6 September 2019
IS-06	Network Control Network Control API	Specification v1.0.1 @ 30 March 2020
IS-07	Event & Tally Events API	Specification v1.0.1 @ 6 September 2019
IS-08	Audio Channel Mapping Channel Mapping API	Stable Specification v1.0.1 @ 22 July 2020
IS-09	System Parameters System API	Specification v1.0 @ 16 June 2020
BCP-003-01	Secure Communication in NMOS Systems	Specification Released @ February 2019

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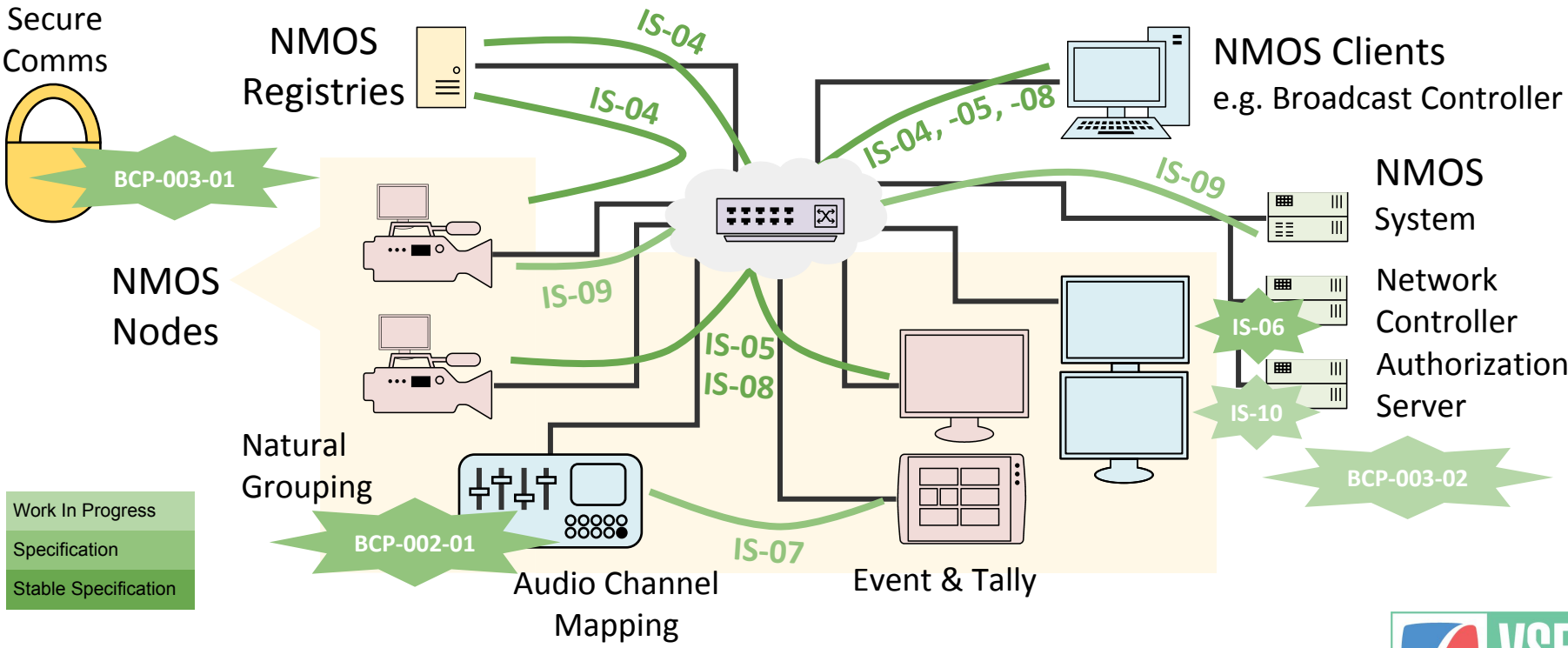
AMWA NMOS in use



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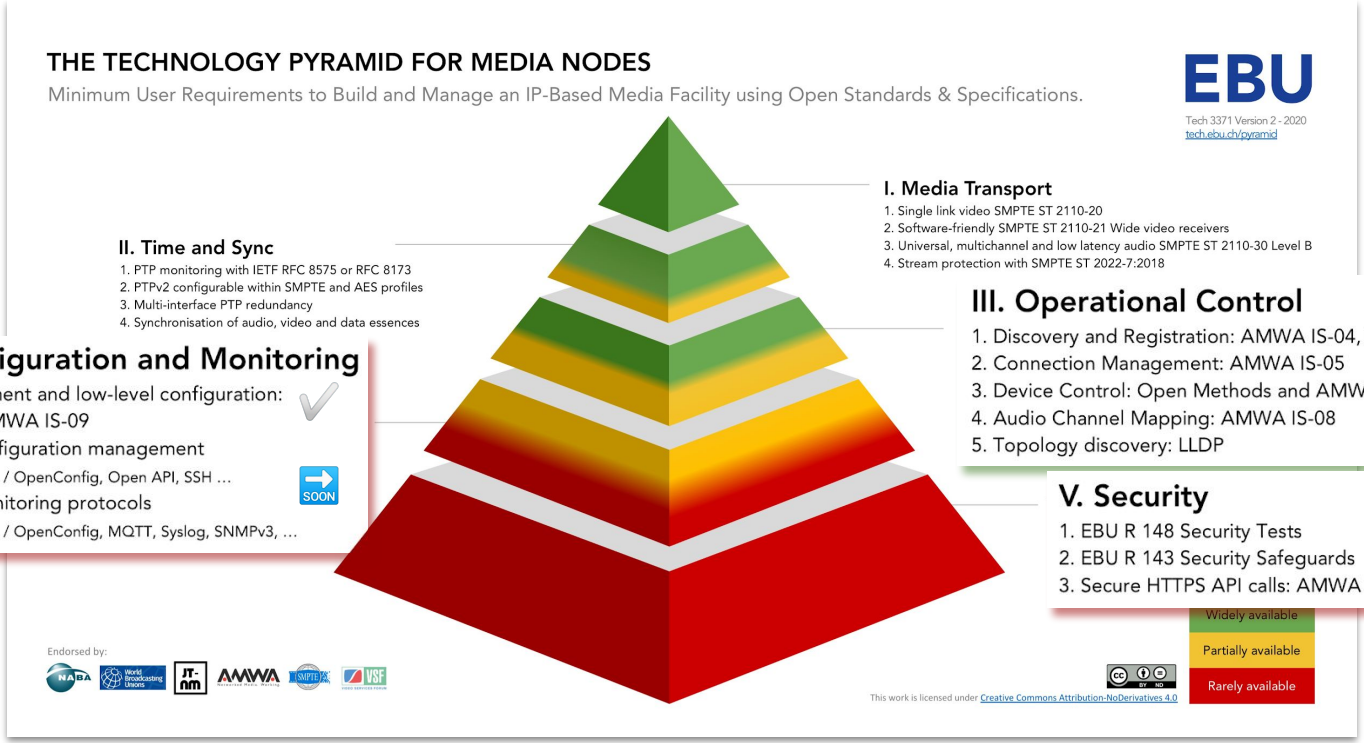
Fills and Gaps in the control plane



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Ongoing Activities

Security	IS-10 Authorization BCP-003-02 Authorization Practice BCP-003-03 Certification Provisioning	Target September 2020 Target September 2020 Target October 2020
Receiver Capabilities	BCP that builds on IS-04	Target October 2020
EDID Connection Management	Phase 1 on Architecture & design To support IPMX requirements	Target October 2020
Device Control Modelling	Phase 1 studied existing device control models.	Phase 2 proposal in preparation

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Fostering adoption: it is not enough to make good technology!

AMWA Marketing implementation of the NMOS Communication Plan

- Refresh of NMOS website
- Refresh of technical documentation
- Coordinated messaging in all communication opportunities
  1. Proven benefits of the open control API
  2. NMOS is easy to implement
  3. NMOS is key to a complete solution

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Easy-NMOS – How to get started

- Starter kit for users and implementers
- Incorporating Docker containers for NVIDIA/Sony nmos-js **Controller**, Sony nmos-cpp **Registry** and a virtual **Node**, AMWA NMOS **Testing Tool**, and supporting services
  - OSS contributions from CBC and other AMWA members
  - Containers proven in the JT-NM Tested programme
- Launch easy-nmos with one **`docker-compose`** command
- Stay tuned for Richard Hastie's (NVIDIA) presentation at ipoktoberfest.com and release to GitHub, end of September

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Thanks

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