Update from AMWA
NMOS Steering Committee

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

<table>
<thead>
<tr>
<th>IS-04</th>
<th>Discovery &amp; Registration</th>
<th>Stable Specification v1.3 @ 6 September 2019</th>
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<tbody>
<tr>
<td></td>
<td>Node API, Registration API, Query API</td>
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<tr>
<td>IS-05</td>
<td>Device Connection Management</td>
<td>Stable Specification v1.1 @ 6 September 2019</td>
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<td>Connection API</td>
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<td>IS-06</td>
<td>Network Control</td>
<td>Specification v1.0.1 @ 30 March 2020</td>
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<td>Network Control API</td>
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<td>IS-07</td>
<td>Event &amp; Tally</td>
<td>Specification v1.0.1 @ 6 September 2019</td>
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<td>Events API</td>
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<td>IS-08</td>
<td>Audio Channel Mapping</td>
<td>Stable Specification v1.0.1 @ 22 July 2020</td>
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<td>Channel Mapping API</td>
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<td>IS-09</td>
<td>System Parameters</td>
<td>Specification v1.0 @ 16 June 2020</td>
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<td>System API</td>
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<tr>
<td>BCP-003-01</td>
<td>Secure Communication in NMOS Systems</td>
<td>Specification Released @ February 2019</td>
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Fills and Gaps in the control plane
# 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 |
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<tbody>
<tr>
<td>Receiver Capabilities</td>
<td>BCP that builds on IS-04</td>
<td>Target October 2020</td>
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| 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 |
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
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](http://ipoktoberfest.com) and release to GitHub, end of September
Thanks

felix.poulin@cbc.ca
gareth.sylvester-bradley@sony.com