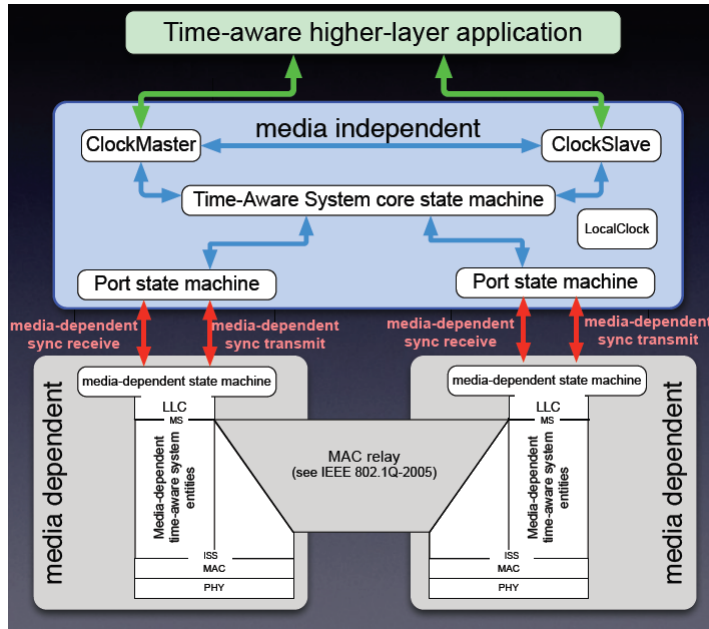


IEEE 1588 and 802 Coordination

Rodney Cummings

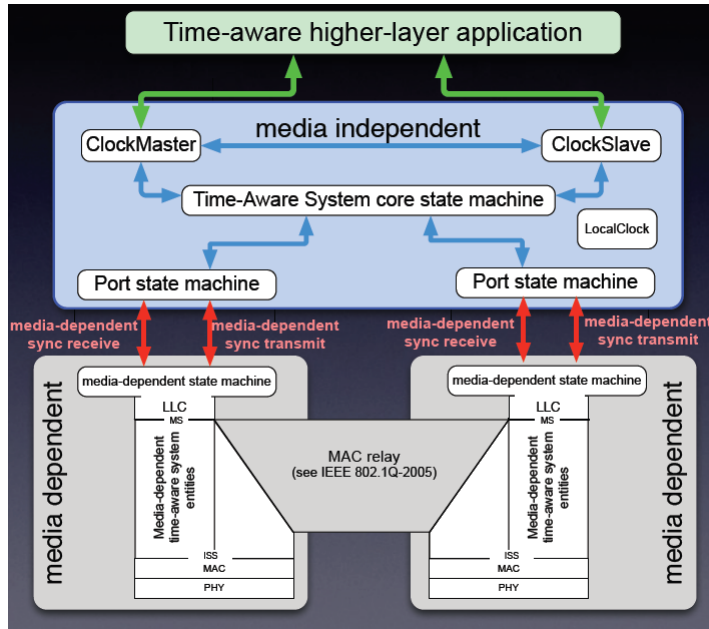
National Instruments

Future Vision for 1588 and 802



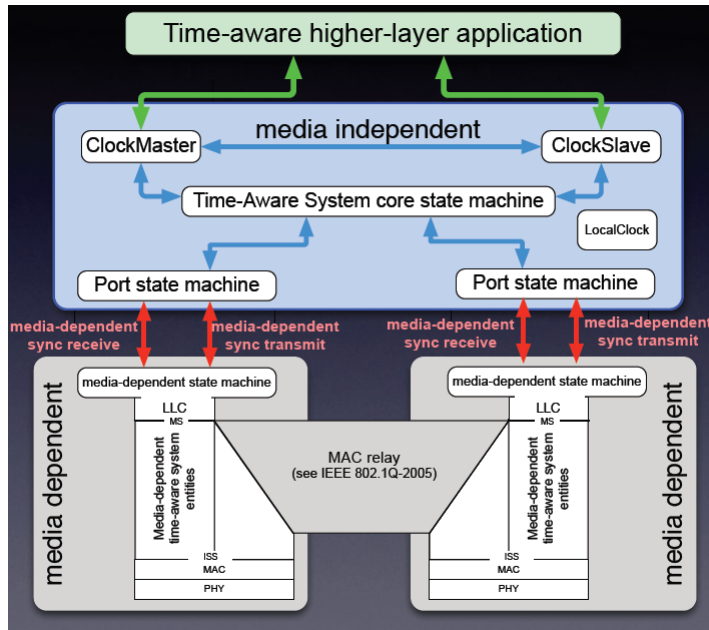
{ 1588 specifies Media Independent / Media Dependent Interface (MIMDI)

Future Vision for 1588 and 802



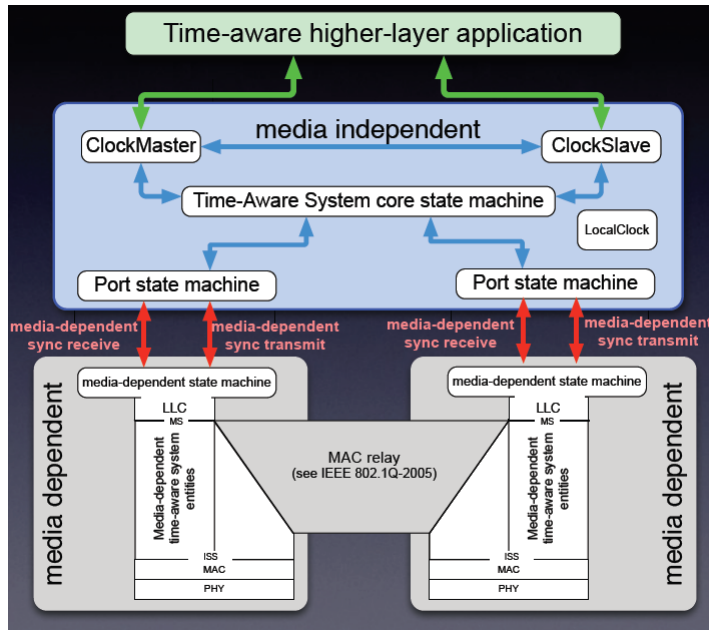
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Future Vision for 1588 and 802



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Future Vision for 1588 and 802



- 802.1AS references 1588 MI
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- Ongoing revisions of 1588 and 802.1AS do not plan to address all of this vision
 - Nevertheless, we should align ongoing work toward that goal

Where We Are So Far

- 1588-Rev is working on the MIMDI
 - Partition of existing 1588-2008 content
- 802.1AS MI has features not in 1588-2008
 - MIB for management
 - Profile identification and isolation
 - Correction for rate offset
 - Use of domainNumber for redundancy (AS-Rev)
 - Static sync tree without BMCA (AS-Rev)
- These features are proposed for 1588-Rev as well

Recommendation for 802.1

1. Communicate support to 1588 for these MI features
 2. Work with 1588-Rev to align MI features to 802.1AS
- Idea: Liaison letter from 802.1 plenary in March

Straw Poll in 802.1 TSN Task Group

- 802.1 requests addition of the following features to the IEEE P1588 Media Independent layer
 - MIB for management
 - Profile identification and isolation
 - Correction for rate offset
 - Use of domainNumber for redundancy (AS-Rev)
 - Static sync tree without BMCA (AS-Rev)
 - Explicit port state configuration
- Yes: 15 No: 0 Abstain: 2

Thank You