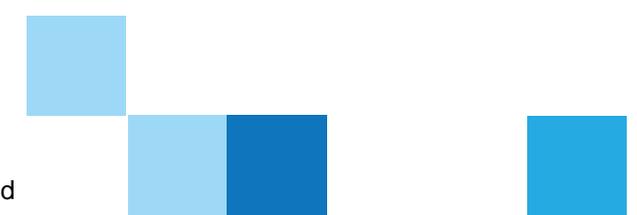
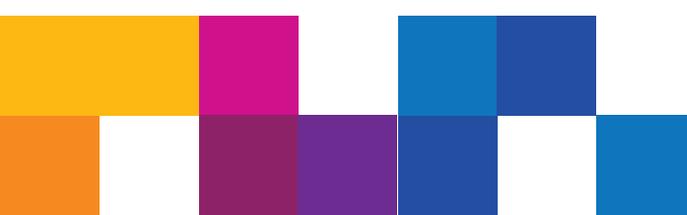




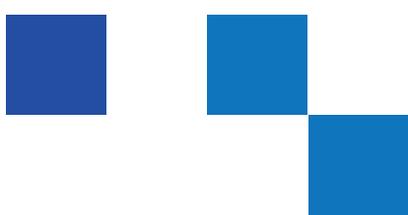
LNI 4.0 TSN Testbed

Update of Stream Reservation Approach

05.11.2019



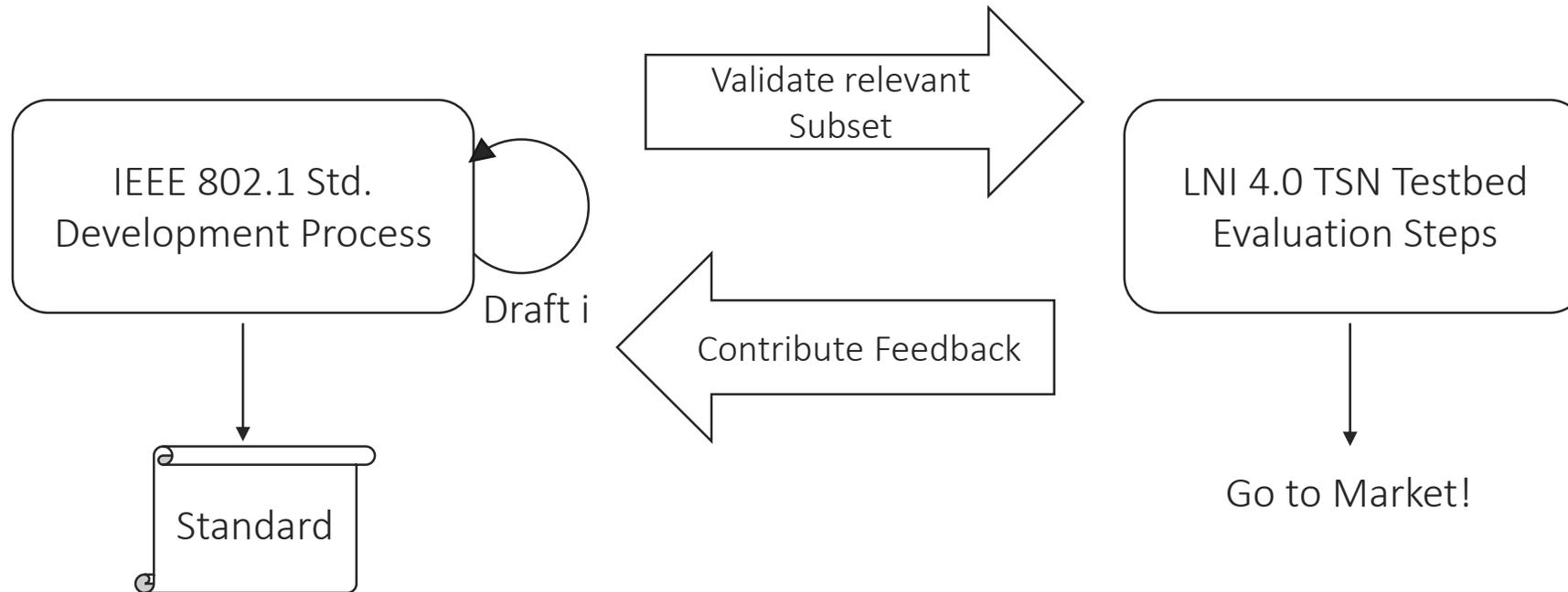
unrestricted



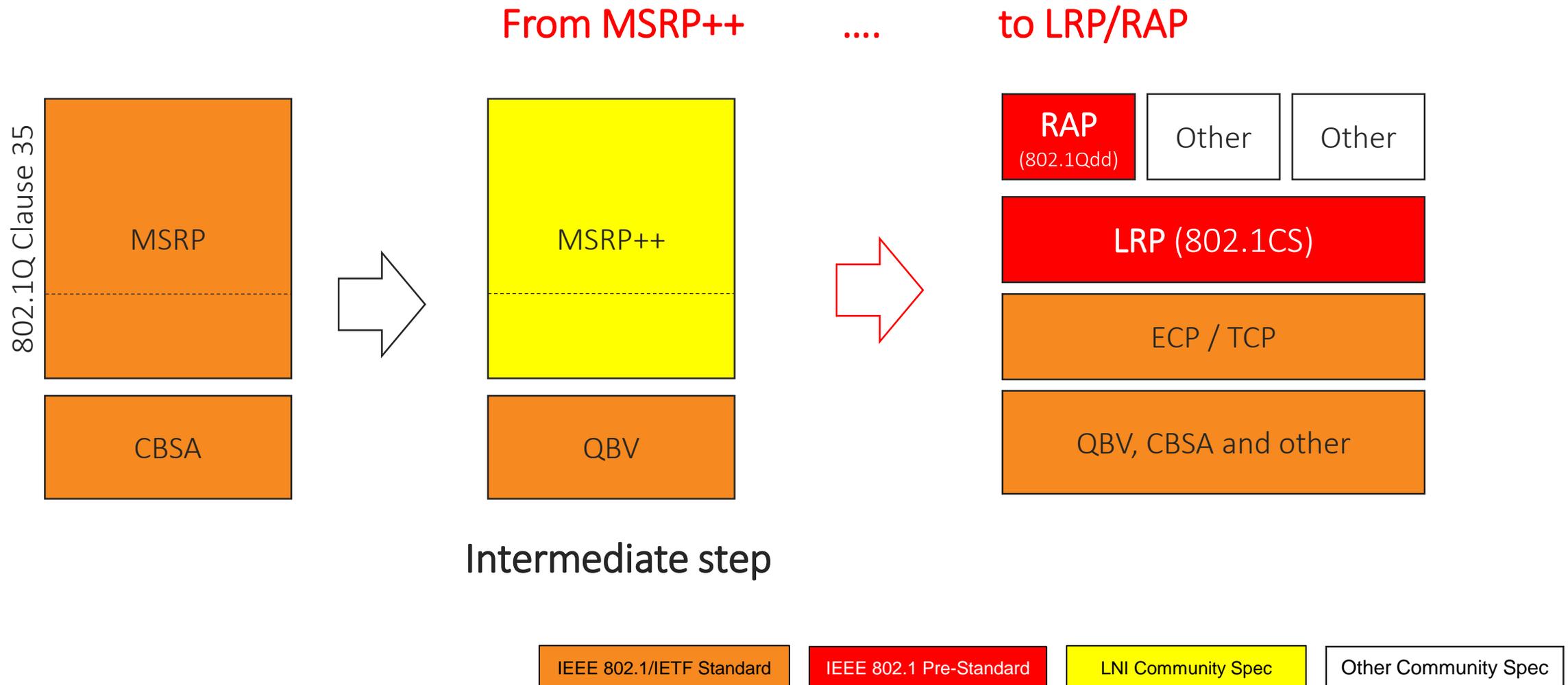
LNI 4.0 Goals

Drive solution for dynamic Industry 4.0 M2M use-cases:

- Provide Proof of concept for distributed stream configuration model
- Contribute feedback to standardization (Liaison with IEEE 802.1)
- Perform plug-fests to achieve cross-vendor interoperability



LNI 4.0 Approach to Distributed Stream Reservation

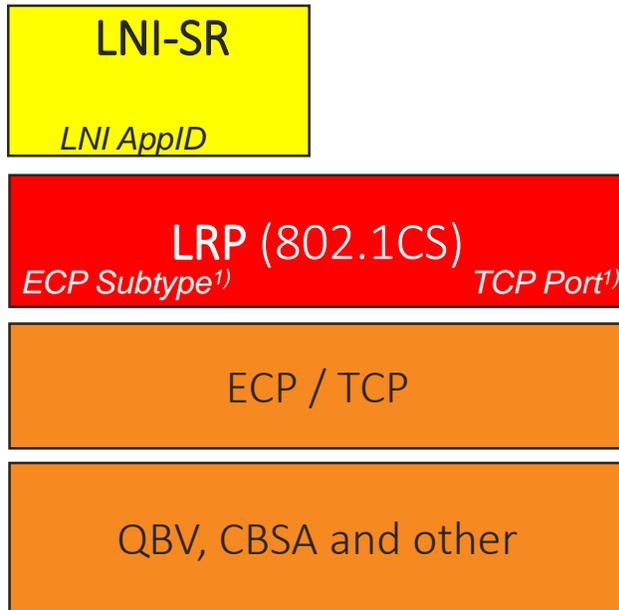


LNI 4.0 Expectations

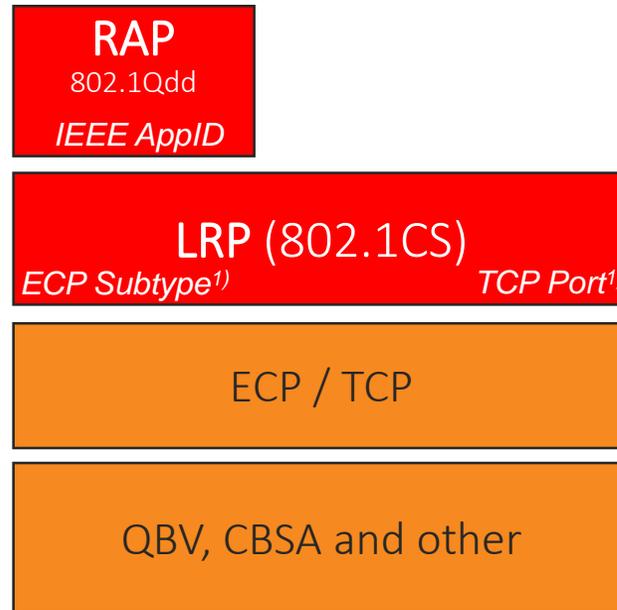
- The LRP/ RAP standards will provide a flexible and generic framework of resource allocation models for distributed stream reservation:
 - Enhanced for arbitrary shapers / resource models,
 - Open for vendor / organization specific enhancements,
 - With proxy support to add “centralized” RAP stream reservation entities.
- The LRP/ RAP standards will be referenced by IEC/IEEE 60802

LNI 4.0: Options for “fast go to market”

LNI Stream Reservation Application



RAP Pre-Standard



Discussion

The LNI-SR Application is an organization specific LRP Application, identified by an LNI CID based AppID.

The LNI-SR Application implements a subset of the RAP draft functionality.

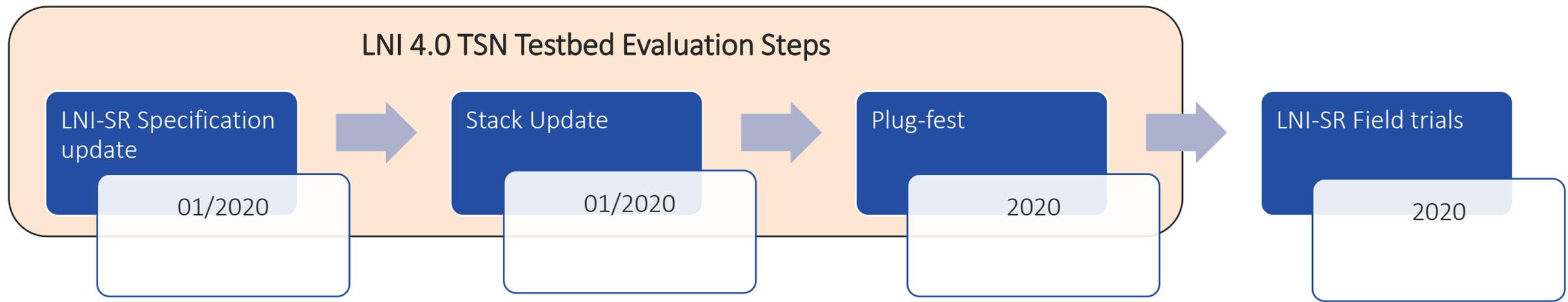
LNI required enhancements are contributed to RAP.

Goal is easy migration from LNI-SR Application to IEEE Std 802.1Qdd.

¹⁾ will be specified just before Sponsor Ballot commences

LNI 4.0: Next steps

- Transfer MSRP++ Specification into LNI-SR Application Specification for LRP based Stream Reservation
- Deliver new stack for LNI members
- Plugging the next generation stack
- Deliver feedback to IEEE





Questions ?

