

SPECTRUM SHARING COMMITTEE RELEASE SCHEDULE

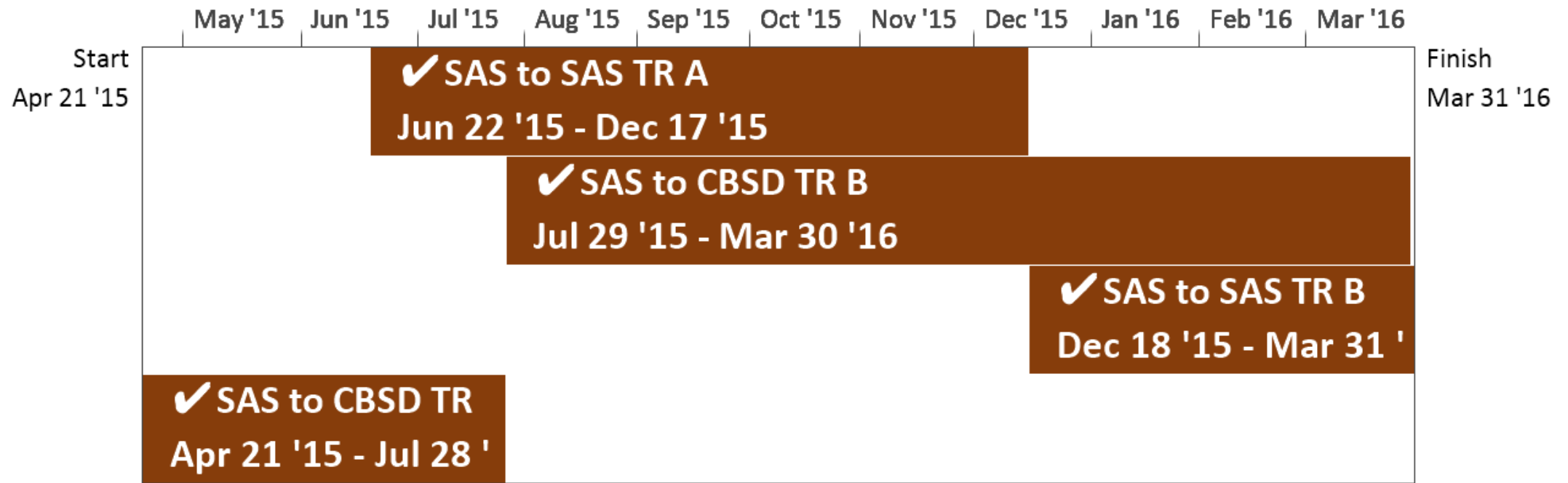
**Approved by the Spectrum Sharing Committee Steering Group
24 May 2017**



Slide #1



Early Release (Release 0) Publication Timeline



Release 1 Commercialization Milestones

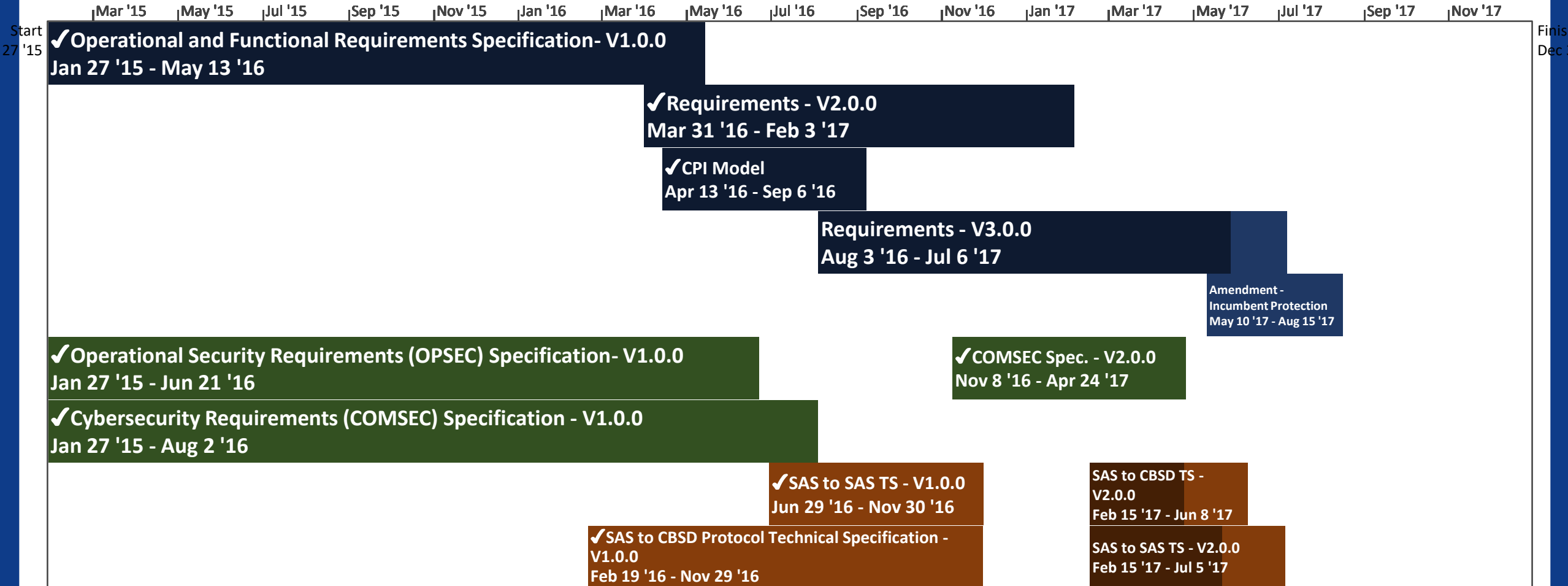
Q4 2017

- SAS Certification Complete
- ESC Certification Complete
- CBSD Certification Complete
- Band in service

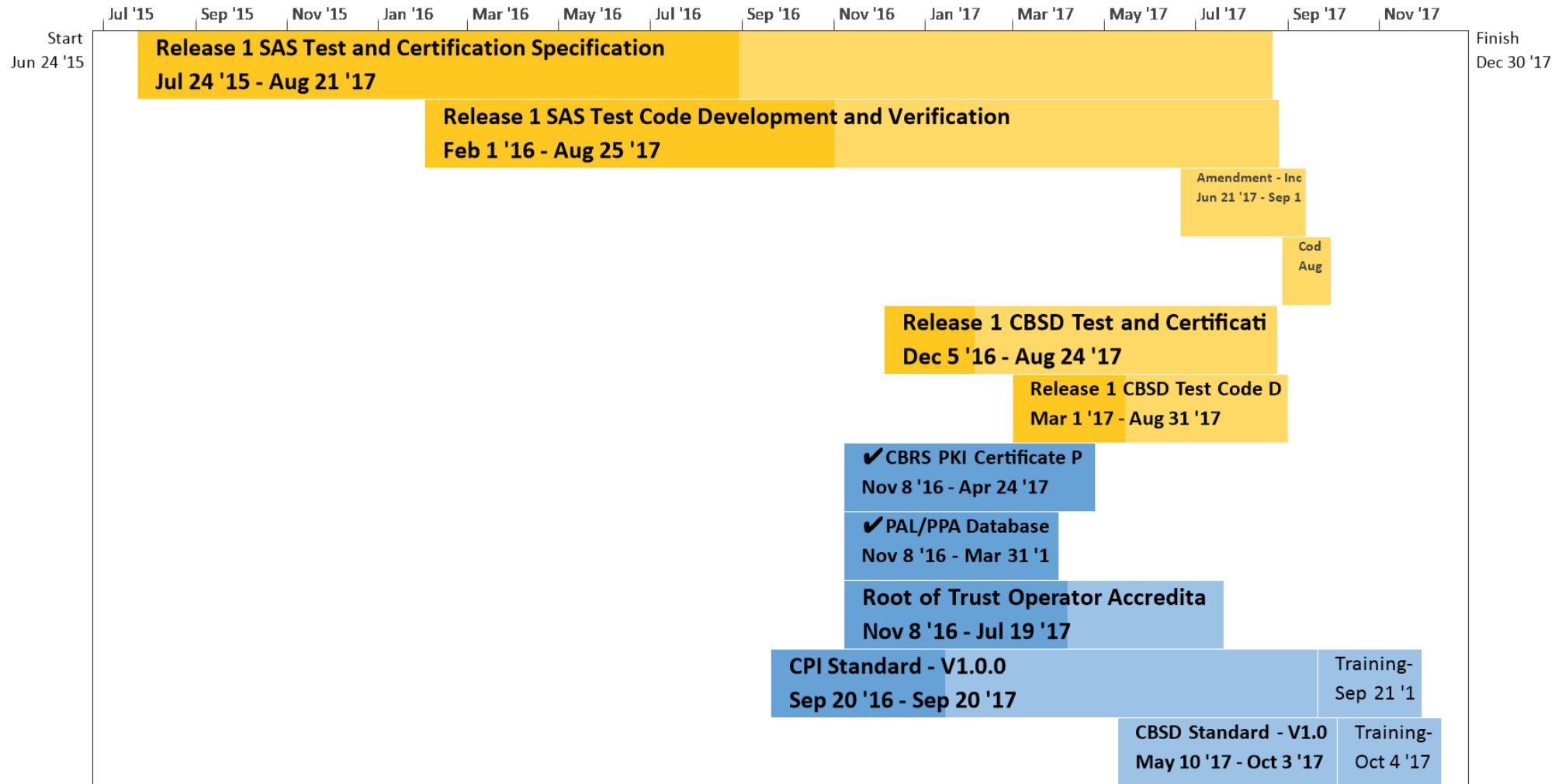
January 2018

- Category A and Category B CBSD Commercial Roll Out Begins

Release 1 Publication Timeline (Requirements and Protocols)

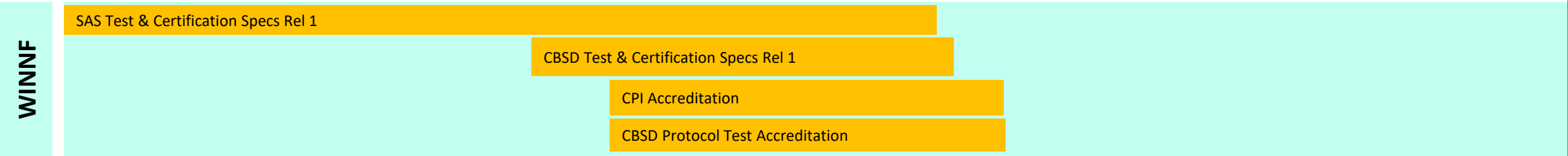


Release 1 Publication Timeline (Commercialization)



Commercialization Milestones

2016 Q1	Q2	Q3	Q4	2017 Q1	Q2	Q3	Q4	2018 Q1	Q2	Q3	Q4
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- * Start SAS product Certification
- * First SAS products Certified (Oct '17)

- * Start ESC product Approval
- * First ESC products Approved (Nov '17)

- * Start CBSD product Certification
- * First CBSD products Certified (Nov '17)



Standards That Comprise Release 1 (New Items in Red)

WINNF-15-S-0112-V3.0.0 Operational and Functional Requirements

WINNF-17-S-XXXX-V1.0.0 Incumbent Protection Amendment for WINNF-15-S-0112-V3.0.0

WINNF-15-S-0065-V2.0.0 CBRS Communications Security Technical Specification

WINNF-15-S-0071-V1.0.0 CBRS Operational Security Technical Specification

WINNF-16-S-0016-V2.0.0 SAS to CBSD Protocol Specification

WINNF-16-S-0096-V2.0.0 SAS to SAS Protocol Specification

WINNF-16-S-0061-V1.0.0 SAS Test and Certification Specification

WINNF-17-S-XXXX-V1.0.0 Incumbent Protection Amendment for WINNF-17-S-0061-V1.0.0

WINNF-17-S-0122-V1.0.0 CBSD Test and Certification Specification

WINNF-16-S-0245-V1.0.0 PAL Database Specification

WINNF-17-S-0022-V1.0.0 CBRS PKI Certificate Policy

WINNF-16-S-0247-V1.0.0 CPI Accreditation Standard

WINNF-17-S-XXXX-V1.0.0 CBSD Protocol Test Accreditation Standard



What is addressed in the Release 1 (1 of 3)

Border Area Management

- Requirements on Implementing international agreements to protect Canada and Mexico

CBSD Measurement Reporting

- Initial requirements for CBSD measurements of their local interference environment, and reporting those data back to the SAS.

CBSD Registration Processing

- The requirements for how a CBSD registers with a SAS, including owner registration, professional installer registration and CBSD registration.

CBSD Protocol Test Accreditation Standard (NEW)

Communications Security

- The communications security policies governing SAS and CBSD communications interfaces.

Certificate Authority Accreditation Standard

Certified Professional Installer Accreditation Standard

- Guidelines for adoption of uniform industry working standards and curriculum required to be consistent with the protection of spectrum, both licensed and GAA, for sharing in the 3550-3700 MHz band.

Note: Detailed feature list associated with each release is captured in the SSC CBRS Requirements Traceability Matrix (WINNF-17-SSC-0003)

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What is addressed in the Release 1 (2 of 3)

Domain Proxy

- The baseline Operational and Functional Requirements of the CBRS Domain Proxy for initial testing and trials.

Dynamic Protection Zones

Environmental Sensing Capability (ESC)

- The requirements for implementation of an Environment Sensing Capability, and protecting federal incumbents.

Exception Management

- The requirements for how trouble tickets or exceptions are managed, including from FCC input, reports from incumbents, and reports from PAL.

FSS Protection

Grandfathered Wireless Device Protection

Operations Security

- The overall system operational security requirements to include handling of incumbent data, obfuscation of spectrum data, and processes associated with auditing and governance of the SAS infrastructure.



What is addressed in the Release 1 (3 of 3)

PAL Protection Area Definition

- Requirements on how PALs reports their coverage area to the SAS for end-to-end use of the licenses. This includes how PAL licensees define PAL Protection Areas (PPAs), request to operate in a particular geographic area within their license boundary (PPA), how PPA credentials and IDs are defined, conveyed and managed, and how the SAS accomplishes such protections.

Protocol Support for Priority Access Licensing

Propagation Modeling

- Identify appropriate 3.5 GHz propagation models for Incumbent and PAL protection and PPA definition, determine relative benefits and limitations, develop agreement on baseline needs such as underlying data, and define standardized interference aggregation methodologies.

SAS to SAS Information Sharing

- Initial support for SAS-SAS Synchronization and Information exchange.

Spectrum Grant Request Processing

- The requirements for how a CBSD requests and relinquish grants, and how grants are reassigned or terminated.

Issue Management and Change Requests

Following the release of revision 1 specifications, change requests will be collected from the Forum's [public issues management portal](#)

Wireless Innovation Forum Issue Specification Issue Reporting Form

This form enables submission of issues identified in Specifications developed under policy WINNF Policy 001 (http://www.wirelessinnovation.org/policies_and_procedures/). It supports the Forum's members and other stakeholders in providing continuous improvement in the Specifications issued.

Please feel free to consolidate issues if appropriate, but do not combine issues that are unrelated. Instead, please submit a separate form for each.

Upon completing this form, you will be issued a unique Issue Number. Please reference that number in all future correspondence.

Submitted issues may be made public, however contact information on the submitted issues will not be disclosed.

Contact Information

Contact Name Organization Name

Email

Issue/Suggestion Details

Please select the specification from the following categories (select 1)

SDR Specifications:

Other Specifications:

Page Section and Paragraph

Issue One Line Description

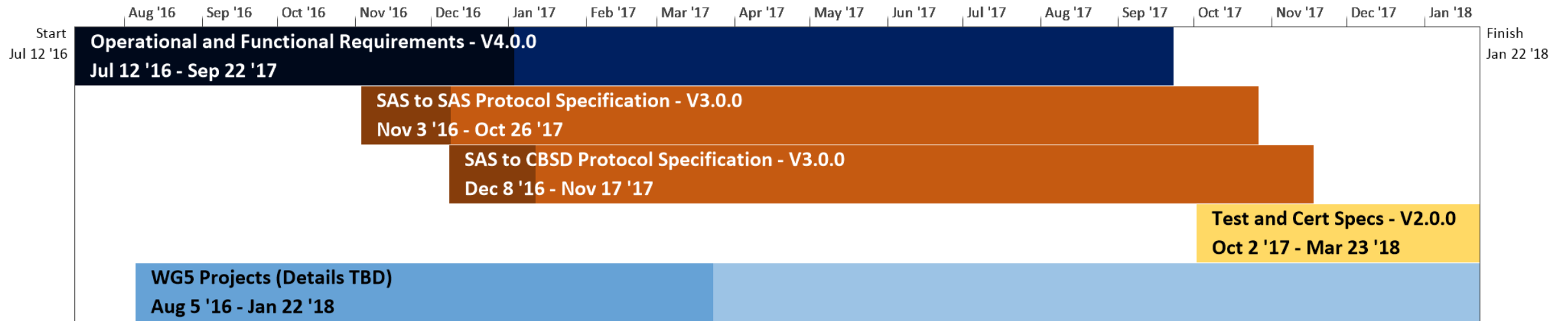
Issue Full Description (1000 Char Max)

Issue Severity Critical
 Major
 Minor

Proposed Resolution (Optional, 1000 Char Max)

If you need more space or wish to provide an attachment, please send to SCA-Standards@wirelessinnovation.org. Only attachments in PDF format will be accepted.

Release 2 Publication Timeline



What will be addressed in Release 2

CBSD to CBSD Operation

Channel Assignment Optimization

- Full support of WInnForum requirements on how spectrum is assigned across SASs, including PAL.

GAA Coexistence

- A framework for providing fair shared access to CBRS radio resources while mitigating the negative impacts from multiple signals, possibly across multiple air interface technologies, utilizing overlapping and/or neighboring radio resources. This can be used by other organizations in establishing technology specific coexistence agreements.

PAL Leasing

Standardized Non-protocol Procedures (e.g., owner registration)

Enhancements from Release 1

