



ISED News

Update on ISED's Regulatory Standards Activities – RSS

RABC Meeting -
Ottawa, ON
December 2016

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Innovation, Science and Economic Development



Update on RSS Standards (1)

PUBLISHED

September 2016:

- ❖ **SPR-002 (Issue 1)** – *Supplementary Procedure for Assessing Compliance with RSS-102 Nerve Stimulation Exposure Limits*

August 2016:

- ❖ **RSS-210 (Issue 9)** – *Licence-exempt Radio Apparatus: Category I Equipment*

February 2016:

- ❖ **RSS-134 (Issue 2)** – *900 MHz Narrowband Personal Communication Service*

January 2016:

- ❖ **RSP-100 (Issue 11)** – *Certification of Radio Apparatus*
- ❖ **RSS-117 (Issue 3)** – *Land and Coast Station Transmitters Operating in the Band 200-535 kHz*
- ❖ **RSS-216 (Issue 2)** – *Wireless Power Transfer Devices*

Update on RSS Standards (2)

SOON TO BE PUBLISHED

- ❖ **RSS-199 (Issue 3) – Broadband Radio Service (BRS) Equipment Operating in the Band 2500–2690 MHz**
 - harmonize with FCC on measurement method for out put power
 - To be published in December 2016

- ❖ **RSS-131 (Issue 3) – Zone Enhancers for the Land Mobile Service**
 - Harmonize with FCC requirements
 - To be published in January 2017

Update on RSS Standards (3)

IN CONSULTATION:

❖ **RSS-247 (Issue 2) – Digital Transmission Systems (DTS) & Frequency Hopping Spread Spectrum Systems (FHSS)**

- clarify rules for equipment with overlapping bandwidth between two different Wi-Fi bands
- clarify and specify measurement methods for Wi-Fi devices to harmonize with FCC
- allow devices installed in vehicles, operating in the band 5150-5250 MHz, with e.i.r.p limit of 50 mW.
- harmonize with recent FCC rules on emission limits and transition period for devices operating in the band 5725-5850 MHz
- [revise unwanted emission limits at the 5725 MHz edge for devices operating in the band 5470-5725 MHz]

5250-5350 MHz:

- apply e.i.r.p elevation mask only to outdoor fixed devices having e.i.r.p > 200 mW
- devices installed in vehicles shall comply with a maximum e.i.r.p limit of 50 mW.
- devices, other than outdoor fixed devices, having e.i.r.p > 200 mW shall either comply with the e.i.r.p elevation mask or to include a firmware feature to enable it to reduce its e.i.r.p in the event that the Department requires it.

Update on RSS Standards (4)

REVISIONS IN PROGRESS:

- ❖ **RSS-Gen (Issue 5) – General Requirements for Compliance of Radio Apparatus**
 - under internal review
 - review and clarification on requirements and term definitions such as user notification for modules
 - add provisions for home build devices, devices used for demonstration purposes
 - Certification procedure to follow for transition period

- ❖ **RSS-125 (Issue 3) – Land Mobile and Fixed Radio Transmitters and Receivers 1.705 to 50.0 MHz, Primarily Amplitude Modulated**
 - modernized to reflect the current RSS structure since its last publication in 2000
 - update technical requirements to harmonize with international standards

- ❖ **RSS-220 (Issue 2) – Ultra-Wideband (UWB) Devices**
 - under internal review
 - Harmonise requirements with FCC, where possible

Update on RSS Standards (5)

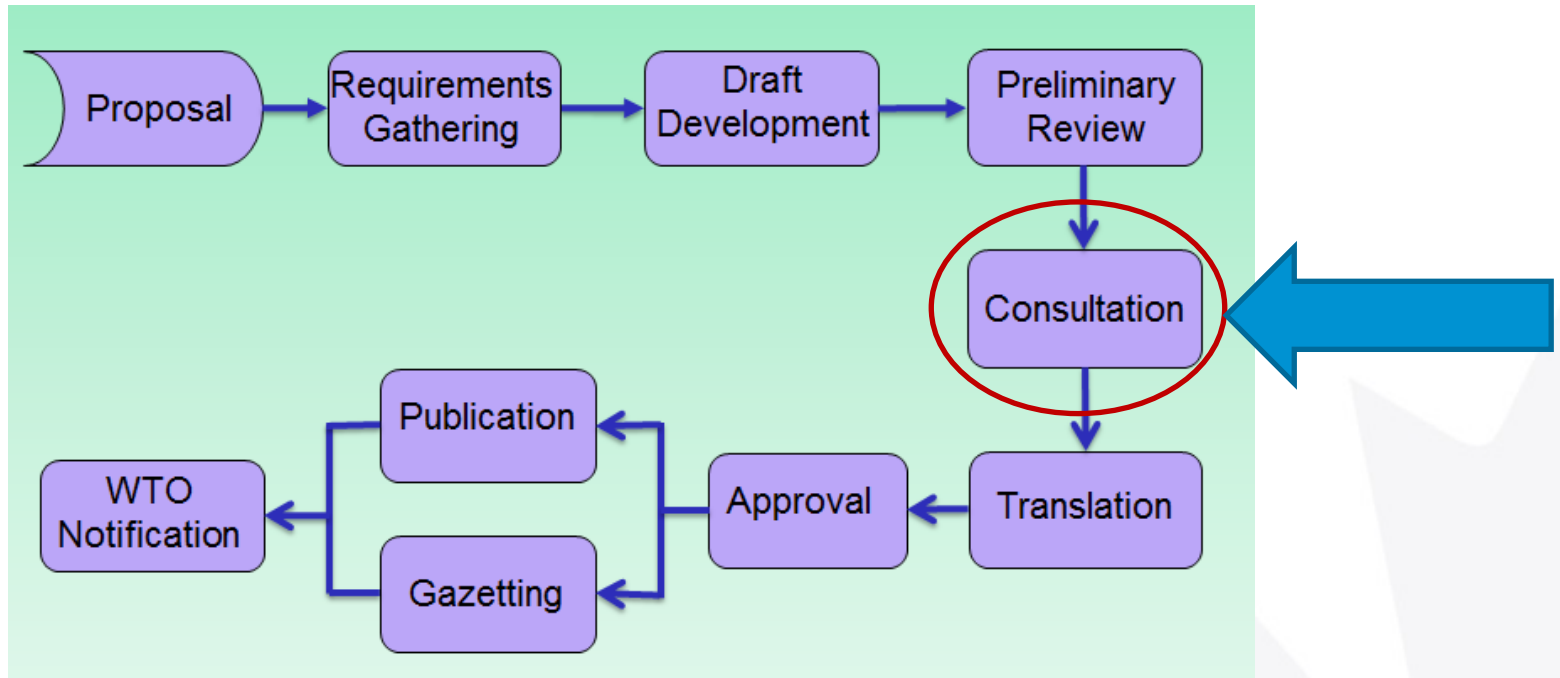
IN DEVELOPMENT AND FUTURE WORK:

- ❖ **RSS-181 (Issue 2) – Land Mobile and Fixed Radio Transmitters and Receivers 1.705 to 50.0 MHz, Primarily Amplitude Modulated**
 - modernized to reflect the current RSS structure since its last publication in 1971
 - update technical requirements to harmonize with international standards

- ❖ **RSS-YYY (Issue 1) – Dedicated Short-Range Communication (DSRC) Radio Equipment Operating in the band 5850-5925 MHz**
 - In development
 - To address DSRC equipment, pending Department's decision, with a view to harmonize with FCC

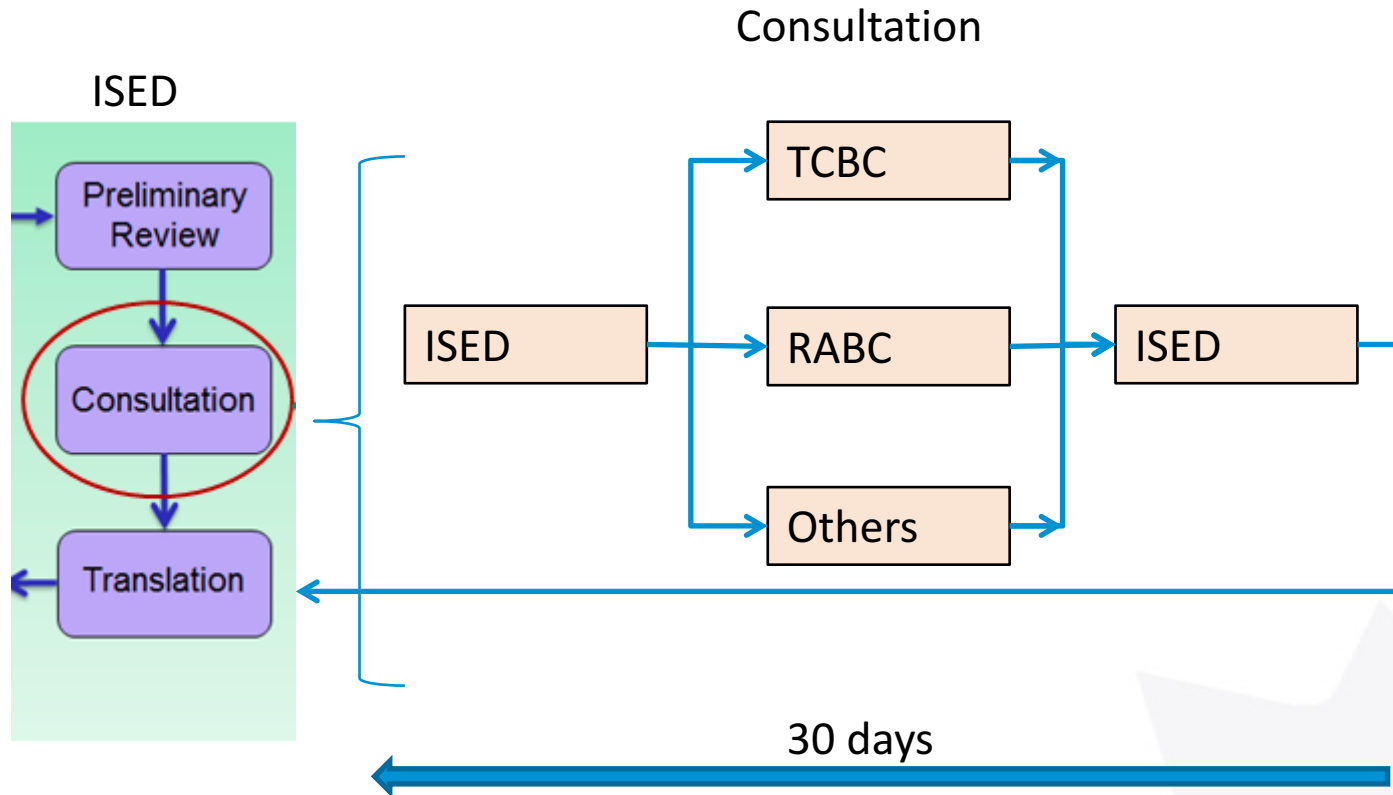
- ❖ **RSS-251 (Issue 2) – Field Disturbance Sensors in the Bands 46.7-46.9 GHz (Vehicular Radar) and 76-77 GHz (Vehicular and Airport Fixed Radar)**
 - Under internal review
 - Update to harmonise with FCC requirements, pending FCC final rules
 - Update to potentially allow vehicular radar in the 76-81 GHz.

ISED - Standards/Procedures Development Process



ISED – Consultation Process

Old Process



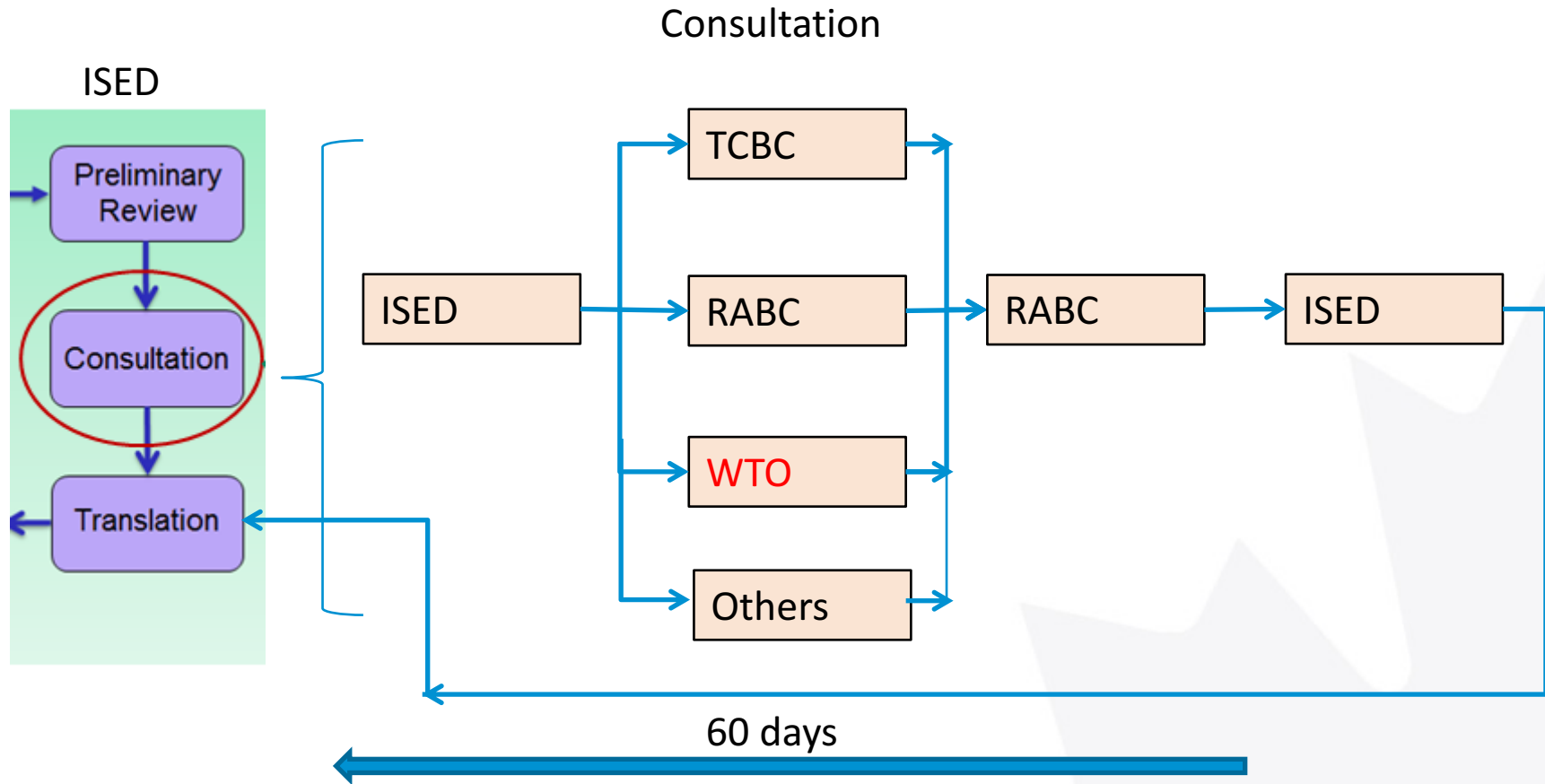
Legend:

TCBC = Telecommunication Certification Body Council

RABC = Radio Advisory Board of Canada

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New Process



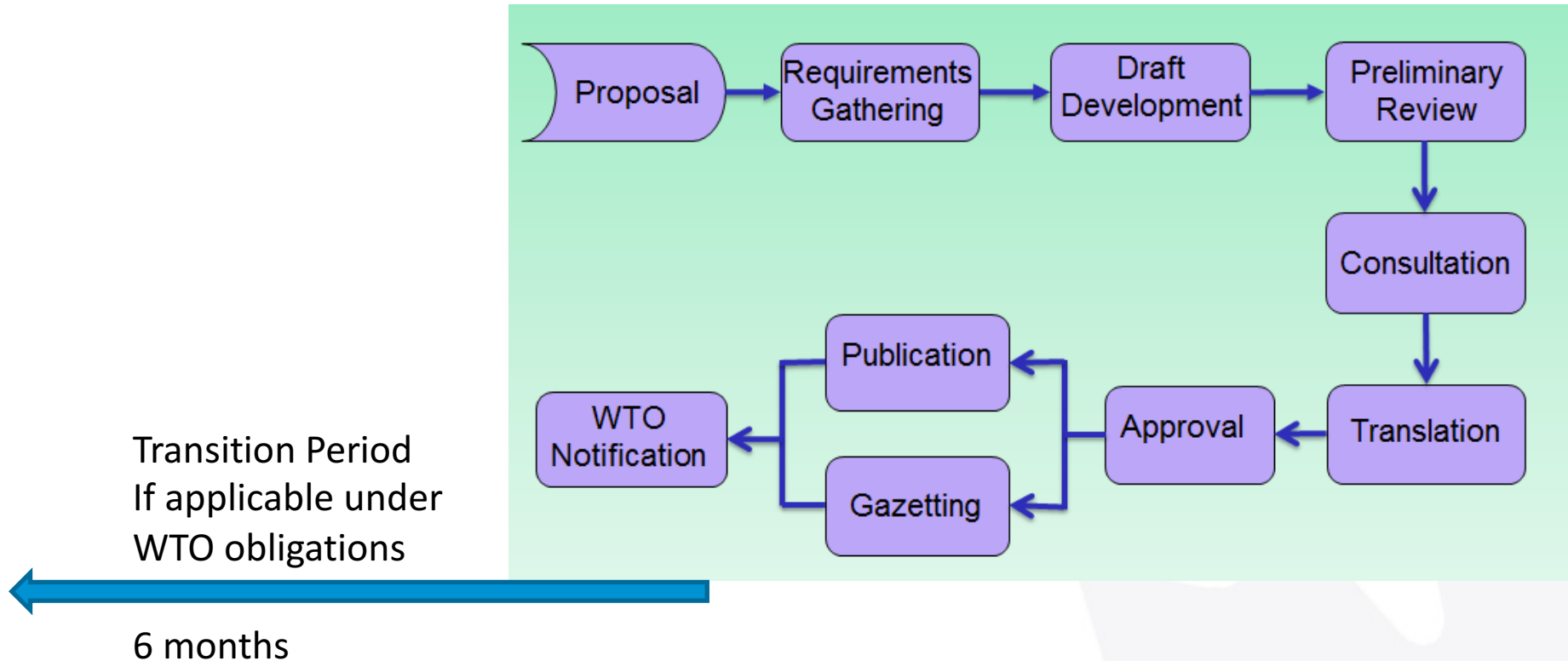
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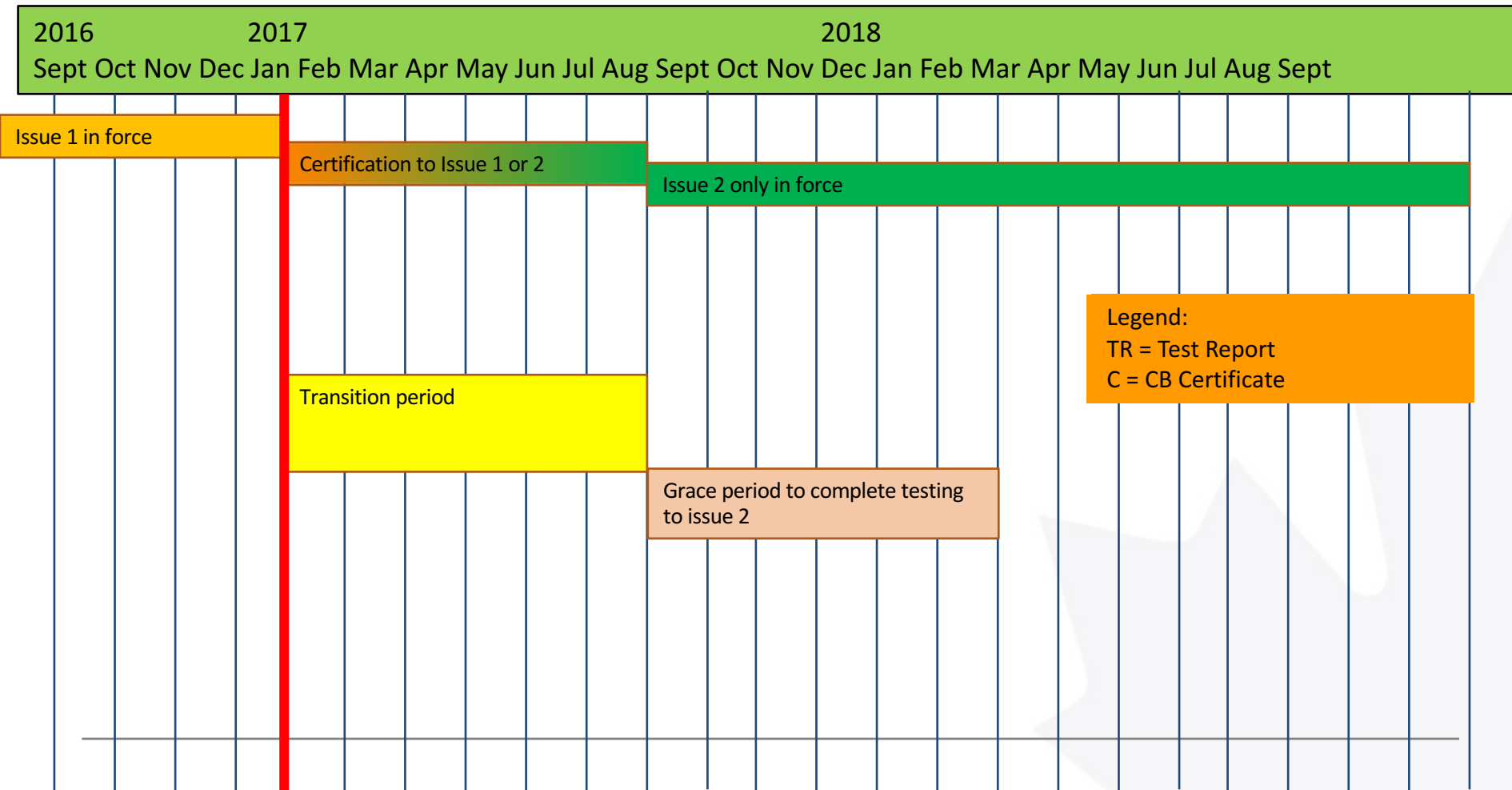
WTO = World Trade Organization

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Eg. Publication of RSS-XXX Issue 2 on January 1, 2017, Issue 1 was in 2010



Inquiries Regarding RSS Standards

- A **General Inquiries Form** for equipment standards or certification issues is now available at www.ic.gc.ca/res_general
- A **Standard Change Request Form** is seeking a change to standard is now available at www.ic.gc.ca/res_change
- ISED documents including RSS's and ICES standards are available on the Spectrum Management and Telecommunications website at: <http://www.ic.gc.ca/spectrum>, under Official Publications.

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