



FCC Roundtable General Discussion

TCB Workshop
October 19, 2010

Federal Communications Commission
Office of Engineering and Technology
Laboratory Division



Agenda

- Updated Guidance
 - Modular Approval
 - Permissive Change
 - Part 90Z devices
- New and Updated Rules
 - Part 24, 27, 80, 90, 95, 101
 - Parts 25 and 27
- Revised Guidance
 - Software Configuration Control
 - UNII devices with DFS capabilities
 - Permit-but-Ask List



Draft Updates for Modules KDB 996369

- Answer to Question 1 B has been changed - Change in ID Certification (Section 2.933) - to clarify that an applicant can only file for a change in ID for a certified module if they have written permission from the original grantee
- Question 10 has been added - Must the shield enclose the entire module?
- Question 11 has been added – Can a module use a micro-strip trace in the antenna design? Provide guidelines for allowing this option
- Minor editorial changes have been made to correct spelling and grammar



Draft Updates for Permissive Change – KDB 178919

- Clarified restrictions on third party (including users and OEMs) changes to radio parameters through country code selection or other software changes
- Clarified that maximum power increase allowed under certain circumstances where a new band which is subject to technical rules is added
 - For example, UNII DFS band added to approved device in UNII band 1. The UNII DFS bands allow higher power.



Draft Updates for 3650 MHz (Part 90Z) Devices – KDB 552295

- Updated list of conditions for mobile and fixed mobile CPE devices operating at power levels above mobile limits pursuant to a limited waiver (DA 10-676).
- Devices must register in the ULS database
- Device must not be sold to the general public
- Device must operate using technical parameters as listed in the waiver.
- Refer to the KDB and the waiver for more details



Updates (Part 80, 90, 95, 101) & Corrections (Part 24 & 27)



Part 90 Narrowbanding Extension

- Public Notice DA 10-119 (Published June 30, 2010) – New transition date

http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-10-119A1.pdf

- Updated KDB 579009 (Also see attached FAQ) – both documents dated 7/22/2010
- Jan 1, 2013 – Equipment Authorization deadline (Extension)
- Jan 1, 2013 – Licensing deadline



Parts 80, 95, & 101 Update

- Part 80: FCC 10-110 (Released June 10, 2010):
http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-10-110A1.pdf
 - USCG Notice
http://www.navcen.uscg.gov/pdf/gmdss/DSC_Notice.pdf
 - New Standards (IEC 62238)
 - Improve detection, reduce false alarms, and improve GPS interconnection alarms
- Part 87: FCC 10-103 (Released June 15, 2010):
http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-10-103A1.pdf
 - ELTs no longer permitted at 121.5 MHz
 - Channel Spacing of 8.33 kHz permitted (Waiver no longer required)



Parts 80, 95, & 101 (cont.)

- Part 101: FCC 10-109 (Released June 11, 2010)
http://www.fcc.gov/Daily_Releases/Daily_Business/2010/db0722/FCC-10-109A1.pdf
 - 30 MHz channels permitted in 6525-6875 MHz Band
 - Additional channels in 21.8-22 MHz and 23.0-23.2 MHz bands

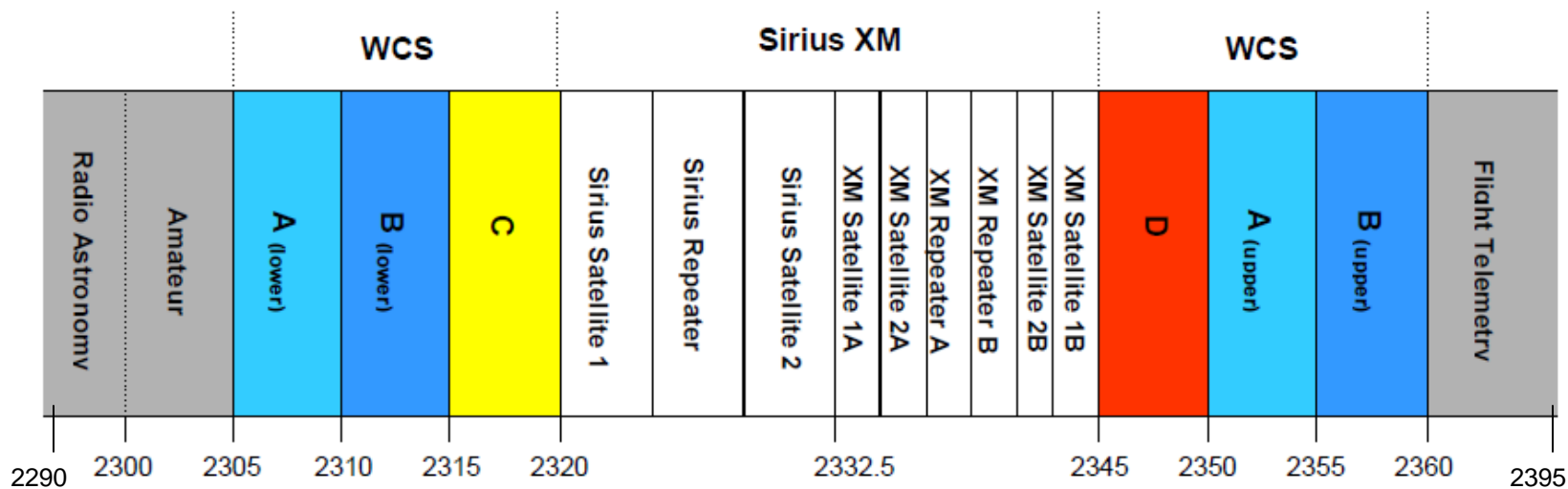
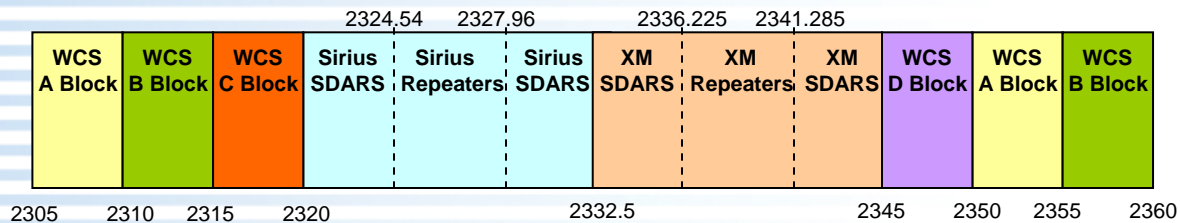
- Correction to CFR (Part 24 & 27)
 - Corrections in 47CFR 2009 edition for Sections 24.232 & 57.50(d)
 - Correction published in Federal Register:
<http://edocket.access.gpo.gov/2010/pdf/2010-21011.pdf>



**Revisions to Part 27 (WCS)
and
Part 25 (SDARS)
rules for equipment operating in
2.3 GHz band**



2.3 GHz Band Plan (Frequencies in MHz)





WCS and SDARS Equipment Performance Requirements

- In R&O (FCC 10-82) FCC modified the technical operating parameters for WCS fixed and mobile stations operating in the 2305-2320 MHz and 2345-2360 MHz bands and established technical operating parameters for SDARS terrestrial repeaters operating in the 2320-2345 MHz band, respectively.
- The performance requirements (i.e., power, duty cycle, and out-of-band emissions limits) for WCS Base and Fixed Stations, Customer Premises Equipment, and Mobile and Portable Stations can be found in Sections 27.50 and 27.53 of the Commission's Rules.
- The performance requirements (i.e., power and out-of-band emissions limits) for SDARS Terrestrial Repeater can be found in Sections 25.202 and 25.214 of the Commission's Rules.
- Applications for equipment authorization under these rules are subject to PBA procedures for the labs and TCBs.



Draft Updates for Software Configuration Control – KDB 594280

- Clarified Non-SDR Part 15 devices must not allow third parties (users, OEMs, software providers) ability to radio parameters through such features as Country Code selection or configuration control.
- Devices approved as Part 15.202 master in some bands and client in others must not have software features to allow third parties to change conditions under which equipment was authorized
- Require attestation from the applicant that software control will not allow the device to operate outside the authorized parameters when operating in US.



Guidance for UNII Devices with DFS – KDB 443999

- Interim plans to approve UNII devices operating in the 5470 - 5725 MHz band with radar detection and DFS capabilities – subject to certain conditions:
 - Devices must not transmit in 5600 – 5650 MHz
 - Outdoor devices must be professionally installed
 - Outdoor devices installed within 35 km radius of TDWR must operate at least 30 MHz from TDWR frequency
 - Voluntary registration in WISPA sponsored database
- Current test procedures will continue to apply
 - Plans are underway to develop alternative test procedures
- Devices with radar detection capabilities must be submitted to the FCC for certification



Changes to Permit-but-ask List

- Clarified conditions for devices subject to SAR evaluation where test procedures are not well defined
- Added devices subject to the revised WCS (Part 27) and SDARS (Part 25) rules operating in the 2.3 GHz band



Questions and Answers

Thanks!