Measurement methods for RDS receiver products

This presentation introduces you to the IEC 62634:2014

Development history



- 1996:First RDS measurement specification IEC 60315-9
- 2007:RDS Forum members question the relevance of the current IEC 60315-9
- 2007:RDS Forum informs the IEC of the need to update or to replace the current outdated IEC 60315-9
- 2008:Experts from the RDS Forum draft a replacement specification
- RDS Forum 2008 reviewed and approved replacement proposal
- In 2011 this became the new standard IEC 62634
- In 2014 ed2 with a number of small corrections will be issued

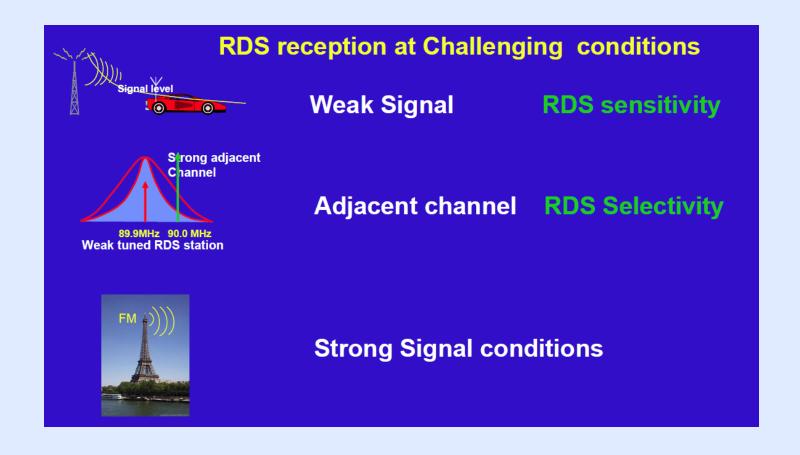
- ARI is no longer used
- Now fully integrated FM/RDS receiver chips are used
 - These are made in very large quantities
 - Over one billion RDS chips sold in 2012
 - There was a clear need for a well agreed description of RDS measuring methods and a minimum set of basic requirements

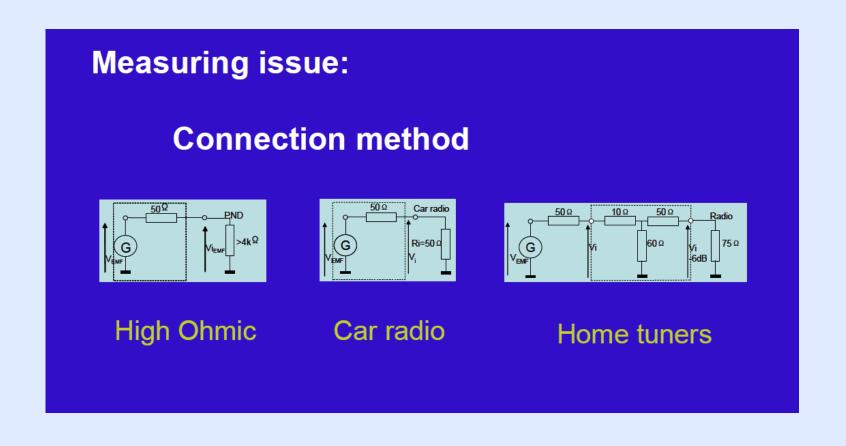
Distinguish three receiver product categories:

- Small portable devices (hi-ohmic)
- Car radios (50 or 75 Ohm)
- Home receivers (75 Ohm)

- All-in-one document
- State of the art measuring method based on today's RDS products
- Realistic targets agreed by RDS Forum members
- Complementary to
 - RDS standard IEC 62106 Ed.3: 2014
 - RDS Forum guidelines for implementation were adapted

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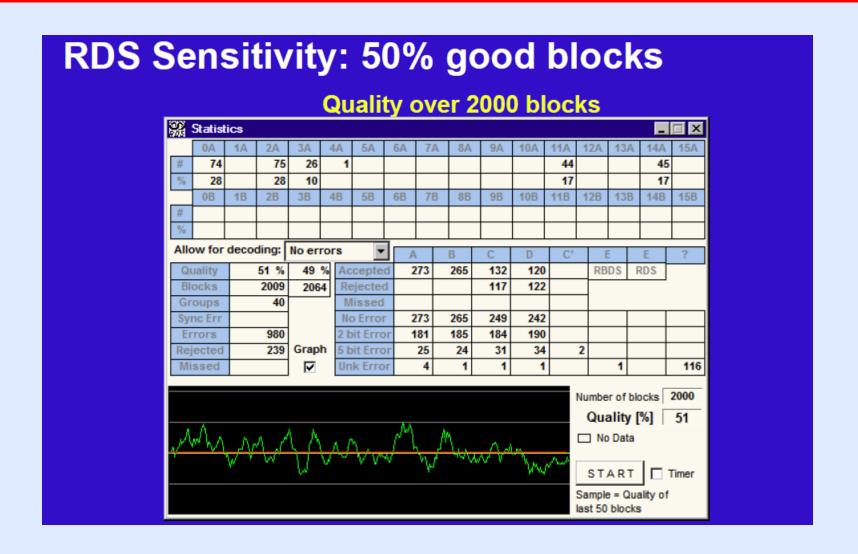




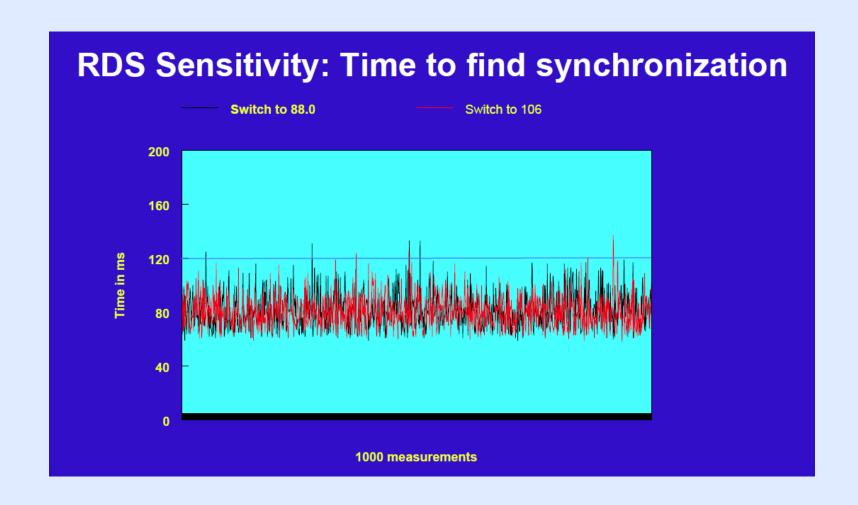
RDS Sensitivity

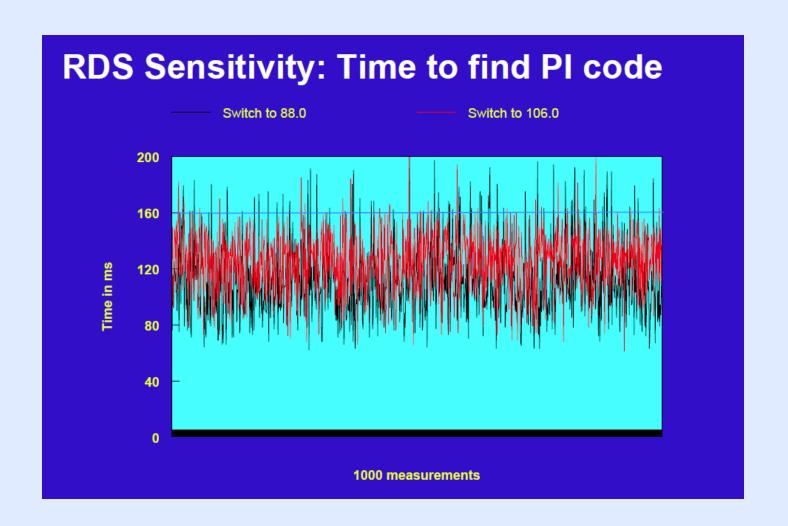
Categories:

- 50% good blocks
- Time to find synchronization
- Time to find PI code



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RDS Sensitivity: Test setup / Method 1. Adjust RF level for 50 % good blocks 2. Let the PC make 1000 tuning switches and record times

A corrected version was formally submitted in 2012 to IEC TC 100 and accepted in 2013

Is now published as

R12/017_1 on the RDS Forum web site

The RDS Forum invites the RDS receiver industry to provide feedback