

The DVB-RCS MIB

draft-combes-ipdvb-mib-rcs-00.doc

IETF meeting #68

ipdvb WG

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SatLabs Group basics

- **Association set up to bring the DVB-RCS (EN 301 790) standard to large-scale adoption**
 - Foster availability of interoperable products
 - Ensure availability of solutions for interoperability testing and certification

- **Membership open to all organizations worldwide interested in the DVB-RCS standard**
 - Network/Service providers
 - Satellite operators
 - Satellite manufacturers
 - DVB-RCS system suppliers
 - Equipment/technology suppliers

- **Main emphasis on interoperability but addressing other aspects related to DVB-RCS implementation**

- **Creation: October 2001.**
 - EEIG (European Economic Interest Grouping) status since 2005.

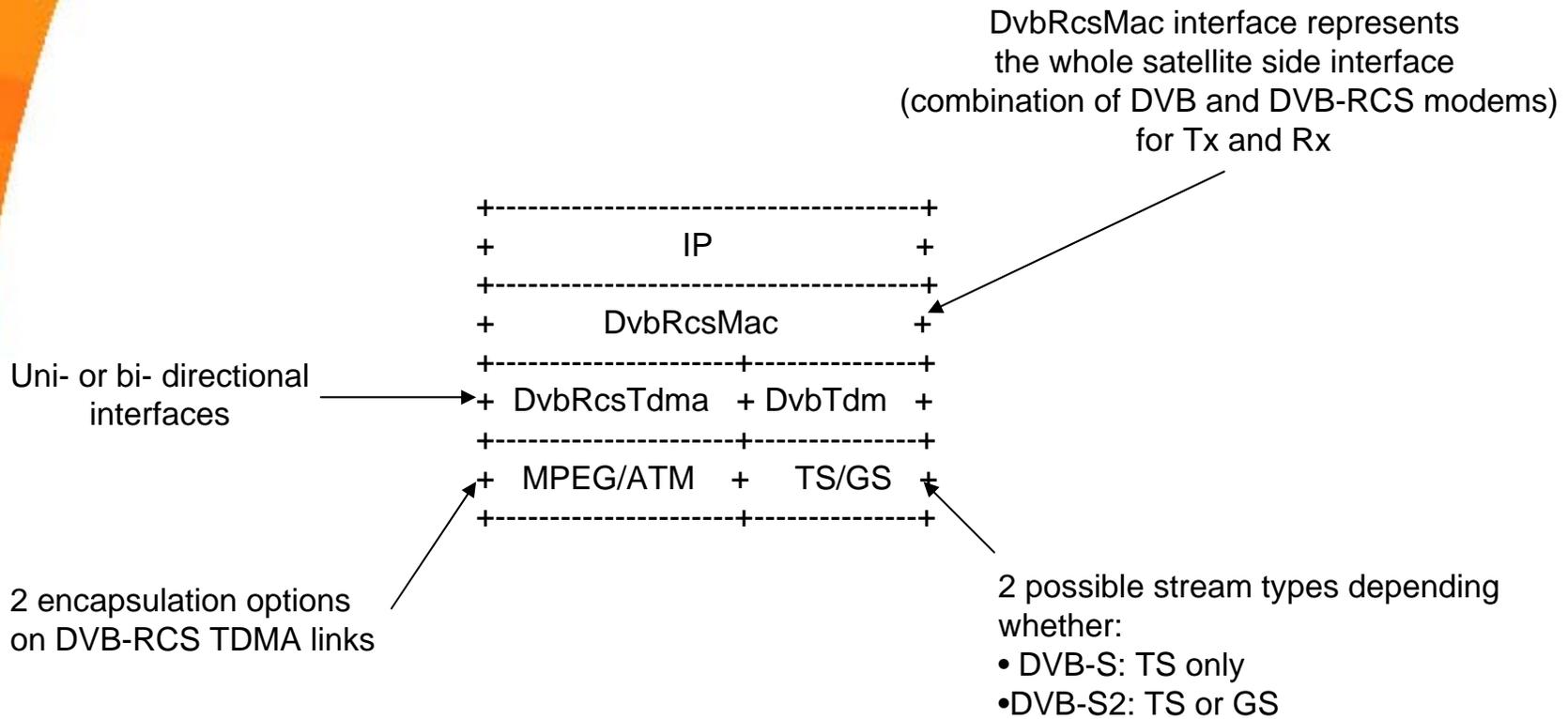
SatLabs Group Interoperability activity

- **Objective**
 - complement the DVB-RCS standard with recommendations and guidelines to facilitate DVB-RCS terminal interoperability, and to provide a mechanism for formal DVB-RCS interoperability certification.

- **Interoperability Phase 1 (2005-2006)**
 - Basic interoperability: DVB-RCS specification
 - Phy+MAC layer compatibility

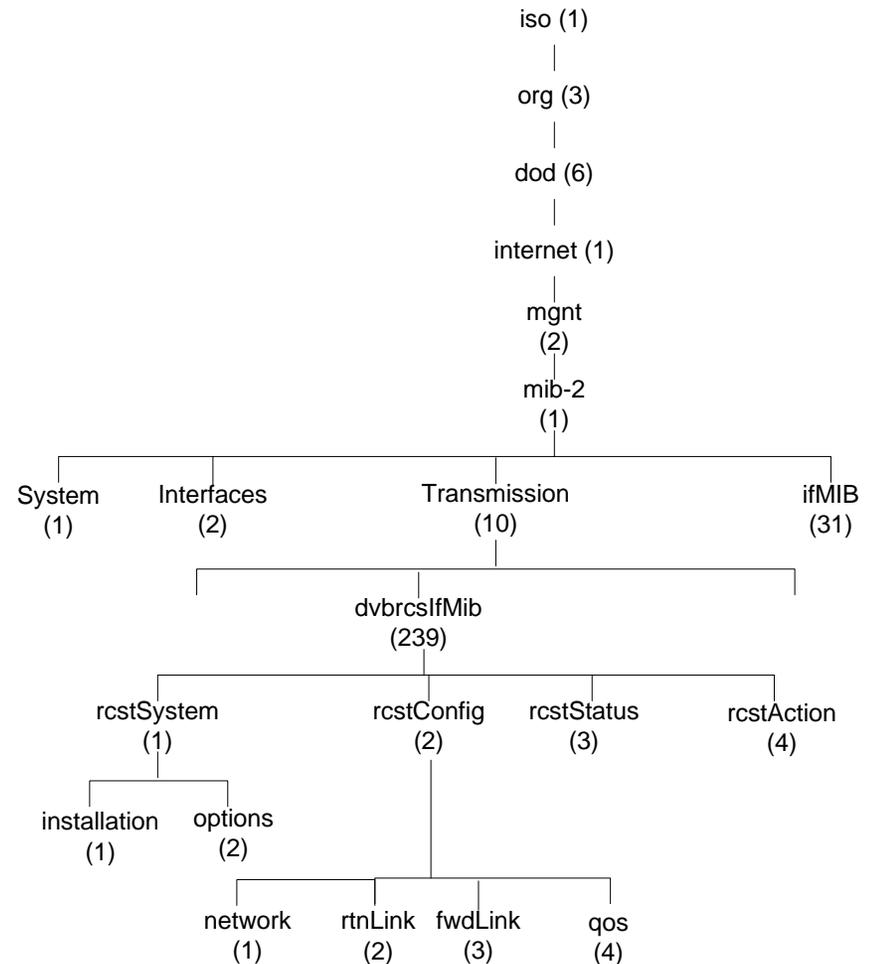
- **Interoperability Phase 2 (2007-)**
 - Extend the level of interoperability beyond the DVB-RCS specification to cover areas such as:
 - Management & control (including MIB)
 - Quality of Service
 - TCP/IP – HTTP acceleration
 - Recommendations published as “SatLabs System Recommendations, version 2”, publicly available at www.satlabs.org

DVB-RCS protocol stack



The DVB-RCS MIB

- The DVB-RCS MIB is located under **iso.org.dod.internet.mgmt.mib-2.transmission**.
 - It holds information which is useful for the satellite interface as a whole (in DVB-RCS, DvbRcsTdma is very much dependent on DvbTdm and cannot exist alone).
 - It includes four sub-groups: rcstSystem, rcstConfig, rcstStatus and rcstAction.



IANA assigned number for DVB-RCS

- The following ifType values have been assigned:
 - **239 dvbRcsMacLayer DVB-RCS MAC Layer**
[ETSI EN 301 790, SatLabs]
 - **240 dvbTdm DVB Satellite TDM**
[ETSI EN 300 421, ETSI EN 302 307, SatLabs]
 - **241 dvbRcsTdma DVB-RCS TDMA**
[ETSI EN 301 790, ETSI EN 300 421, SatLabs]

- The following transmission number has also been assigned:
 - **239 dvbRcsMacLayer DVB-RCS MAC Layer**
[ETSI EN 301 790, SatLabs]

- See the following registries:
 - <http://www.iana.org/assignments/smi-numbers>
 - <http://www.iana.org/assignments/ianaiftype-mib>

DVB-RCS MIB and ipdvb WG

- **This MIB was produced by an industry consortium**
- **It does not require that change control be ceded to the IETF**
 - Maintenance will be done by SatLabs
- **It conveys information for the Internet community**
 - It should aimed at becoming an Informational RFC
- **The draft will be posted when the I-D archives re-open**