

## Schedule 1 – Technical requirements

14 December, 2006

Vers. 1.1

### Requirements for the SSU data

The OAD SSU service shall be in accordance with ETSI TS 102 006, "Specification for System Software Update in DVB Systems". Only Simple profile is supported. The data carriage can be proprietary format streams or standard update carousels.

The live DVB service in the network may contain several SSU elementary streams from different manufacturers, all in one Service. Multiple updates may be transmitted as groups in a two-layered Data Carousel.

SSU data provided by the IRD manufacturer must be delivered in one MPEG-2 transport stream file with a full continuity counter run through. The stream may or may not comprise PAT and PMT.

The NIT in the live broadcast will in the first loop carry a linkage descriptor of type 0x09 (system software update service linkage) according to the description in section 6.1 of TS 102 006. The manufacturer must supply information for this linkage descriptor in the Information Form. The linkage descriptor is not removed from the NIT in case of temporary absence of the system software update service (e.g. if scheduled play out is employed or if the update for technical reasons is off-air).

The DVB-T network does not carry BAT information.

The PMT for the system software update service shall for each stream contain a data\_broadcast\_id descriptor with the data broadcast id of 0x000A, according to the description in section 7.1 of TS 102 006. The manufacturer must supply information for this in the Information Form. The descriptor is not removed from the PMT in case of temporary absence of a system software update service from the manufacturer.

### Requirements for the Interoperability Test (IOT)

The IOT takes place in a test network technically equivalent to the actual broadcast. The manufacturer must for the test provide (i) the data according to the specification given above, (ii) a STB accompanied by a manual describing the operation of the box.

The manufacturer may be present during the test. For a first time test, this is recommended.

The IOT can only pass or fail. DIGI-TV shall solely state when the IOT for transmission has passed. BSD shall not report anything about the performance of the receiver regarding the SSU.

Clients should note that failure in IOT effectively prevents use of the updates as such in the DVB network. Should the IOT fail with any unsupported or conflicting SSU deliverable, DIGI-TV is not obliged to provide any solution beyond the point of failure. The possible additional IOT will be charged separately.

The SSU is put into transmission only after the IOT has been passed successfully. DIGI-TV always contacts the client and notes if the IOT has passed or failed.