



**Integrated Project 26950 : SatSix  
D3000-6**



*Live trials definition (intermediate)*

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**Abstract:**

This report covers the tests that will be carried out over four real Satellite Systems: the Regenerative AMERHIS system of HSA and the Transparent DVB-RCS systems of HSA, HDT and AASF. The document defines the tests procedures for validating each key SATSIX feature selected, the subsequent recording of results and the methods of evaluating the results, as well as the implementation plan and overall integration tests. All the above tasks will be carried out for each of the following trial scenario:

- \* Scenario 1: Corporate applications on DVB-RCS transparent access platform
- \* Scenario 2: Collective Access Terminal on DVB-RCS transparent access platform
- \* Scenario 3: Corporate applications on DVB-RCS regenerative access platform
- \* Scenario 4: Residential applications on DVB-RCS transparent access platform

**Keyword list:** IPv6, Trials, DVB-RCS, applications, Satellite

## **Executive Summary**

SATSIX contributes to enhance the positioning of satellite access systems in the Broadband Access Market and capitalises on the development and deployment of NGN and IPv6 through satellite. Through live demonstrators, SATSIX will prove the capability of the satellite to provide affordable services to a large customer range. Work package/Activity 32000 aims at validating this concept, demonstrating its feasibility by means of demonstration scenarios. This report provides guidelines for the implementation of the trials.

The first section of the document consists of the plan itself: list of functions to be demonstrated, validation scenarios featuring these functions and the systems characteristics; finally a compliance matrix specifying which functions are demonstrated by which scenario.

The main hypotheses are:

- DVB-S signal format on the downlink, DVB-RCS on the uplink
- Transparent and Regenerative payload on the satellite able to convert the signal formats
- Star and Mesh connectivity
- IPv6/DVB-S or RCS protocol stack

The functions cover all the levels of the protocol stack from the physical up to the application level.

The second section addresses implementation issues.

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