



Electronic Communications Committee (ECC)
within the European Conference of Postal and Telecommunications Administrations (CEPT)

ECC RECOMMENDATION (06)05

ON THE PROVISION OF INFORMATION ON THE PROGRESS OF IMPLEMENTATION OF THE MOBILE SATELLITE SYSTEMS WHICH ARE CANDIDATES TO USE THE 1980-2010 MHz and 2170-2200 MHz MSS FREQUENCY BANDS

Recommendation approved by the Electronic Communications Committee (ECC)

INTRODUCTION

The ECC has adopted the ECC Decision (06)09 on “*the Designation of the bands 1980-2010 MHz and 2170-2200 MHz for use by systems in the Mobile-Satellite Service (MSS) including those supplemented by a Complementary Ground Component (CGC)*” so as to facilitate the introduction of mobile satellite systems in the 2 GHz MSS bands.

It was considered useful for the CEPT administrations, and also other interested parties, to have information on the progress made in the development of the candidate mobile satellite systems in the perspective of the provision of authorisations to the latter.

This ECC Recommendation provides the relevant framework to enable the availability of such information on the basis of progress against milestones by those mobile satellite systems.

“The European Conference of Postal and Telecommunications Administrations,

considering

- a) that the ECC has adopted the ECC Decision (06)09 on “*the Designation of the bands 1980-2010 MHz and 2170-2200 MHz for use by systems in the Mobile-Satellite Service (MSS) including those supplemented by a Complementary Ground Component (CGC)*”;
- b) that there is a need for administrations to gather information on the planned dates of completion by candidate systems of identified milestones, and later on, on the progress of the candidate systems against each planned milestone;
- c) that additional information to that already provided under *recommends 1*, can be provided, to the benefit of the administrations, after the 30 June 2007;
- d) that a common approach for the authorisation process is considered necessary for which the information gathered *via* this Recommendation could be useful;

recommends

- 1) that the list of candidate mobile satellite systems intending to operate in the bands designated in ECC/DEC (06)09 be in Annex 1 of this Recommendation, and that the requirements for inclusion in Annex 1 be as follows:
 - a. submission of the request for ITU coordination for the mobile satellite system under consideration;
 - b. submission of a description of the system under consideration by the relevant¹ CEPT Administration , including the number of satellite(s) necessary to provide commercial service, the planned dates for completing each of the milestones identified in Annex 2 ;
- 2) that, taking into account *considering c)*, the information in Recommends 1 be provided to the ECC by 30 June 2007 by the relevant CEPT administration;
- 3) that relevant CEPT administrations provide information to the Office regarding the development of the candidate MSS systems in respect of the milestones. The Office will inform the ECC accordingly and the ECC will record in Annex 1 the progress of each MSS system against the declared milestone dates for each system;
- 4) that the Office should include in Annex 3 a reference to the relevant ECC documentation where agreed conclusions on adjacent band compatibility issues mentioned in *Decides 5* of ECC/DEC(06)09 are available;
- 5) that the information in Annexes 1 and 3, as well as the outcome of the process referred to in *considering d)*, be taken into account by the CEPT administrations in their frequency authorisation process;”

¹ A relevant CEPT administration is either the notifying administration when the latter is a Member of CEPT or the supporting CEPT administration otherwise.

Annex 1

List of Candidate systems:

For each candidate system:

Milestone	Planned date for completion	Actual date of completion
1		
2		
3		
4		
5		
6		
7		
8		
9		

Annex 2

MILESTONES FOR THE INTRODUCTION OF MSS SYSTEMS WITHIN THE BANDS 1980-2010 MHz AND 2170-2200 MHz

INTRODUCTION

The milestones information to be supplied to the ECC are listed below.

A satellite system operator may be represented by different service providers in different countries.

Information supplied to the ECC, through the relevant CEPT administration, in relation to progress against the relevant milestones below regarding a particular MSS system should relate to the MSS system described in the submission made in accordance with *Recommends 1*.

MILESTONES

1. Submission of ITU request for co-ordination

The satellite system operator shall provide clear evidence that the administration responsible for an MSS system has submitted the relevant ITU RR Appendix 4 information.

2. Satellite manufacturing

The satellite system operator shall provide clear evidence of a binding agreement for the manufacture of its satellites. The document shall identify the construction milestones leading to the completion of manufacture of satellites required for the commercial service provision. The document shall be signed by the satellite system operator and the satellite manufacturing company.

3. Completion of the Critical Design Review

The Critical Design Review is the stage in the spacecraft implementation process at which the design and development phase ends and the manufacturing phase starts.

The satellite system operator shall provide clear evidence of the completion of the Critical Design Review in accordance with the construction milestones indicated in the satellite manufacturing. The declaration shall be signed by the satellite manufacturing company and shall indicate the date of the completion of the Critical Design Review.

4. Satellite launch agreement

The satellite system operator shall provide clear evidence of a binding agreement to launch the minimum number of satellites required to provide a continuous service within the territories of CEPT countries. The document shall identify the launch dates and launch services and the indemnity contract. The document shall be signed by the satellite system operator and the satellite launching companies.

5. Gateway Earth Stations

The satellite system operator shall provide clear evidence of a binding agreement for the construction and installation of Gateway Earth Stations that will be used to provide MSS services within the territories of CEPT countries.

6. Satellite mating

The mating is the stage in the spacecraft implementation process at which the Communication Module (CM) is integrated with the Service Module (SM).

The satellite system operator shall provide clear evidence that the Test Readiness Review for SM/CM mating has taken place in accordance with the construction milestones indicated in the satellite manufacturing. The declaration shall be signed by the satellite manufacturing company and shall indicate the date of the completion of the satellite mating.

7. Launch of satellites

- (a) The satellite system operator shall provide documents confirming the first successful satellite launch and in-orbit deployment.
- (b) The satellite system operator of an NGSO system shall also provide periodic evidence of subsequent launches and successful in-orbit deployment of the necessary number of satellites in the constellation to provide commercial service.

8. Frequency co-ordination

The satellite system operator shall provide documents relating to the successful frequency co-ordination of the system with respect to other MSS systems pursuant to the relevant provisions of the Radio Regulations. However, a system which demonstrates compliance with milestones 1 to 7 inclusive is not obliged to demonstrate at this stage completion of successful frequency co-ordination with those MSS systems which fail to comply adequately and reasonably with milestones 1 to 7 inclusive.

9. Provision of satellite service within the territories of CEPT countries

The satellite system operator shall provide notification that it has launched, and has available for the provision of service, the number of satellites it previously identified under milestone 4 as necessary to provide continuous commercial service, and that it is currently or will be providing commercial service within the territories of CEPT countries using parts of the frequency bands 1980-2010 / 2170-2200 MHz.

Annex 3

**LIST OF CANDIDATE MSS SYSTEMS OF ANNEX 1 FOR WHICH AGREED CONCLUSIONS ON
ADJACENT BAND COMPATIBILITY ISSUES WITH MOBILE SYSTEMS OPERATING
BELOW 1980 MHz AND 2170 MHz AND ABOVE 2010 MHz ARE AVAILABLE**

	System name	Reference to ECC documentation providing agreed conclusions on adjacent band compatibility issue with terrestrial systems
1		
2		
3		
...		