

Spectrum Markets Department

Solaris Mobile LTD,
registered no 426976
30 Pembroke Street Upper
Dublin 2
Ireland

The issue

License to use radio frequencies in accordance with the Electronic Communications Act (2003:389)

Decision by the Swedish Post and Telecom Agency

The Swedish Post and Telecom Agency grants to Solaris Mobile Ltd a license to use the radio transmitters - complementary ground components - of a mobile satellite system in Sweden.

The license is valid up to and including 14 May 2027.

The license is combined with the following conditions:

Frequency assignment

1. The frequency range comprises 1995-2010 MHz earth-to-space (uplink) and 2185-2200 MHz space-to-earth (downlink).
2. The Licensee shall use the assigned radio spectrum, according to condition 1, for the provision of mobile satellite services.

Complementary ground components

3. The complementary ground components shall constitute an integral part of the Licensee's mobile satellite system that uses the frequency ranges stated in condition 1.
4. The complementary ground components
 - a. shall be controlled by the satellite resource and network management mechanism,
 - b. use the same direction of transmission and
 - c. the same frequency ranges as stated in condition 1.

Milestones

5. The Licensee shall meet milestones six to nine set out in Appendix 1 on 14 May 2011 at the latest.

Coverage, services and capacity

6. The services provided by the Licensee shall cover at least 95 percent of the land area of Sweden.
7. The Licensee shall, within the whole coverage area, provide via satellite voice and data services, mobile broadband, mobile TV and public interest services for the protection of safety, security and health.
8. The services according to condition 7 shall be provided with effect levels as demonstrated in Appendix 2 and in a 5 MHz channel in the forward link with data rates as demonstrated in the table below and in a 5 MHz channel in the return link with modulation 8PSK and FEC 5/6¹.

	QPSK	8PSK	16APSK
FEC 1/3	2.6 Mbps	3.9 Mbps	5.2 Mbps
FEC 2/3	3.9 Mbps	7.8 Mbps	10.5 Mbps

9. The conditions 6-8 may be fulfilled either with the Licensee's mobile satellite system that uses the frequency ranges stated in condition 1, including at least one (1) space station, or with complementary ground components.

Integrity and security

10. The Licensee shall ensure that the satellite system has sufficient redundancy in all its active components.

Annual report

11. The Licensee shall by May 31 at the latest every year, provide an annual report in Swedish or English detailing the status of development of the mobile satellite system.

¹- 8PSK=8 phase-shift keying
 - FEC=forward error correction
 - QPSK=quadrature phase-shift keying
 - 16PSK=16 phase-shift keying
 - 16APSK=16 amplitude and phase-shift keying

Independent operation

12. The independent operation of complementary ground components according to condition 3-4 shall, in case of failure of the satellite component of the mobile satellite system, not exceed eighteen (18) months.

The use of individual radio transmitters

A license to use individual radio transmitters, combined with inter alia the relevant technical conditions, will be granted upon application.

Other

The Licensee has priority in terms of the frequencies assigned, but another party may possibly use radio equipment with, for example, dynamic spectrum access.

Reservations

The validity of this license is dependant on the Decision of the European parliament and of the Council of 30 June 2008 (626/2008/EC) on the selection and authorisation of systems providing mobile satellite services (MSS) and the European Commission selection decision of 13 May 2009 (2009/449/EC) being in force.

Background

The European Commission decided on 13 May 2009 (2009/449/EC) to select two operators, Inmarsat Ventures Ltd (United Kingdom) and Solaris Mobile Ltd (Ireland), to provide mobile satellite services across Europe. The selection took place in accordance with the procedure set out in the Decision by the European Parliament and the Council of 30 June 2008 (626/2008/EC). The purpose of the procedure was to facilitate the development of a competitive internal market for mobile satellite services across the Community and to promote a good coverage in all Member States. In addition, the procedure would maximise the opportunities for a more effective spectrum use, while offering the citizens in the Community reliable and price worthy mobile TV and mobile broadband services.

The application

On 30 September 2009 Solaris Mobile Ltd has applied for authorisation to use the frequencies identified by the European Commission decision (2009/449/EC) to provide mobile satellite services within Sweden.

Reasons for the decision

Under Chapter 3, Section 1 of the Electronic Communications Act (2003:389) (LEK) a license is required in order to use a radio transmitter in Sweden.

A license to use a radio transmitter for a particular radio use and a license to use individual radio transmitters within this use may, under Chapter 3, Section 9 of LEK, be granted on separate occasions.

Under Chapter 3, Section 11 of LEK, a license may be combined with, inter alia, such matters as are in accordance with a decision on the harmonised use of radio frequencies and shall be imposed as conditions when the party to be allocated a radio frequency has been nominated in accordance with international agreements or provisions adopted in accordance with the Treaty establishing the European Community.

In accordance with the Decision No 626/3008/EC of the European Parliament and the Council on the selection and authorisations of systems providing mobile satellite services, Member States shall ensure that the selected operators have the right to use the specific radio frequency identified in the Commission Decision in accordance with the service area to which the operator has committed himself. The licensing should be in accordance with national law and Community law.

In accordance with the Decision of the European Parliament and the Council, the selected operators shall furthermore fulfil certain common conditions, for example to meet milestones six to nine set out in the Annex to the Decision within 24 months of the Commission selection decision and to honour any commitments that have been given during the procedure.

The rights of use shall, in accordance with the Decision of the European Parliament and the Council, be granted for a duration of eighteen years from the date of the Commission selection decision.

Solaris Limited Ltd was selected in accordance with the Commission Decision of 13 May 2009 to provide mobile satellite services in the 2 GHz band and the frequency range was identified to 1995-2010 MHz (earth to space) and 2185-2200 MHz (space to earth).

The Swedish Post and Telecom Agency (PTS) makes the following assessment:

Taking into account the European Commission Decision, Solaris Limited Ltd shall be granted a license to use radio transmitters to provide mobile satellite services within Sweden. The license shall be combined with conditions regarding coverage, capacity, integrity and security and the services to which Solaris Limited Ltd has committed itself to in its application dated 7 October 2008 and submitted to the European Commission.

Information

Satellite terminals in the 1980-2010 MHz band that are controlled by a network management mechanism are license exempted.

Public communications networks of such a kind as are normally provided for payment or public electronic communications services may only be provided following notification to the PTS.

This license is charged with an annual fee.

This license takes immediate effect in accordance with Chapter 8, Section 22 of the Electronic Communications Act (2003:389).

Information about appeals

An appeal may be made against this decision to the Administrative Court of Stockholm; see [Appendix 3](#).

[signature]

Jonas Wessel
Head of unit

INFORMATION CONCERNING APPEALS

If you wish to appeal against this decision, you should write to the Administrative Court of Stockholm. However, the letter should be sent to the The Swedish National Post and Telecom Agency, Box 5398, 102 49 Stockholm.

Explain in the letter which decision you appeal against by stating the number of the decision. Also explain the change that you wish to be made to the decision. The letter must be signed.

The Swedish National Post and Telecom Agency (PTS) must have received your appeal within three weeks from the date you received the decision. Otherwise, the appeal cannot be considered.

PTS will forward the appeal to the Administrative Court for consideration, unless PTS itself alters the decision in the manner requested by you.

If something is unclear, you may refer to PTS.

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