



Regulation

ON SYNCHRONIZATION OF DIGITAL TELEPHONE NETWORKS

Issued in Helsinki on 26 June 2008

The Finnish Communications Regulatory Authority (FICORA) has, under section 129 of the Communications Market Act of 23 May 2003 (393/2003), prescribed as follows:

Section 1

Scope of application

This regulation applies to public digital telephone networks and authorities' networks.

Section 2

General technical requirements

A telephone network shall be synchronized in such a way that the quality of connections and services meets the requirements specified in standards for wander limits and slip rates.

Section 3

Implementation of synchronization

A telephone network shall be synchronized with the primary reference clock (PRC) system by means of a synchronization network.

The synchronization network structure shall comply with the relevant standards and its performance shall meet the values specified in standards.

The hierarchical master-slave method shall be used as the synchronization method.

Either the synchronous or the pseudosynchronous method shall be used between the telephone networks.

In the case of the synchronous method the telephone network shall be synchronized with the national PRC system which shall meet the requirements referred to in section 4.

In the case of the pseudosynchronous method the highest level of the telephone network synchronization hierarchy shall meet the requirements for the national PRC system referred to in section 4. The PRC system shall be located in Finland.

The synchronization connections between the network nodes shall be secured. The primary and the secondary synchronization connections shall be chosen in such a way that the synchronization will not form a loop in any situation.

The operator implementing the synchronization shall provide relevant documentation of the transmission chain from the primary source to the receiving operator.

Section 4

Requirements for synchronization clocks

The PRC system with which the telephone network is synchronized shall meet the requirements specified in the standards for PRC.

Other synchronization clocks shall meet the requirements for the clocks on the hierarchical level in question and specified in standards.

The clocks of the synchronization network nodes shall be doubled.

Section 5
Entry into force

This regulation enters into force on 1 July 2008 and will remain in force until further notice.

Section 6
Information and publication

This Regulation is included in the Series of Regulations issued by the Finnish Communications Regulatory Authority and it can be obtained from the FICORA Customer Service Office:

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