

Magyar Telekom Plc.'s general terms of interconnection and call termination to its mobile radio telephone network*

Published in accordance with the disclosure obligation set forth in Resolution DH-25712-48/2008 of the Board of the National Communications Authority

The detailed terms and conditions of network interconnection shall be stipulated in contract following the bilateral negotiations and agreement between the parties.

Below are the main considerations and conditions serving as the basis of negotiations.

a) General Terms of Interconnection

- Magyar Telekom Plc. offers default (one or more) network interconnection points [see listed under point c)] for the provision of call termination service to its mobile radio telephone network.
- Network interconnection may be established based on the effective Network Interface Notification submitted by Magyar Telekom Plc. to the Authority (NRA).
- Traffic shall be handed over together with the calling party number ('A' number) in accordance with the applied signaling system and effective legal provisions.
- The traffic handed over for termination is measured and billed monthly by Magyar Telekom Plc.; the invoice is issued and sent to the IC partner directly after the subject month. Payment is due within 20 days.
- If the IC partner is a so-called 'net paying party' it shall provide a bank guarantee in order to limit the financial risk of Magyar Telekom Plc. Initial amount of the Bank Guarantee shall equal the average amount of 3 (three) month's traffic undertaken by IC partner.
- Partners shall strive to enter into a technically and economically justified and reasonable agreement for the provision of reciprocal services.

b) Detailed Rules on Request for Proposals and Contracting

The rules applicable for request for proposals and contracting shall comply with the provisions set forth in Articles 4 - 10 of Government Decree 277/2003. (XII. 24.)

c) Geographical Points of Interconnection

Traffic exchange/takeover by Magyar Telekom Plc. takes place at one of the points of interconnection at the mobile radio telephone network exchange level.

The Party originating the traffic shall be responsible for traffic forwarding to the point of interconnection and all costs incurred in relation thereto.

The point of interconnection is the point of the provision of traffic services and also the point of taking over liability.

Multiple interconnection points may be utilized for the interconnection of networks if justified by traffic or technical reasons. The parties shall designate the adequate IC points in the network based on technical, traffic, and economical considerations.

The default point of connection shall be the transmission technology side of Magyar Telekom Plc.'s Digital Distribution Frame (DDF).

Magyar Telekom Plc.'s default interconnection locations:

- MSC1: 1107 Budapest, Száva u. 3.
- MSC5: 1033 Budapest, Huszti u. 32.

d) Potential Technical Solutions for Interconnection

Networks may be connected by circuits as per the definition in the Network Interface Notification referred to under Point a).

Traffic capacity of circuits required for network interconnection and necessary interconnection capacities shall be specified by the parties on the basis of the forecast provided by the traffic originating IC partner.

Parties shall harmonize the volume of necessary interfaces and links with due consideration to actual traffic in accordance with the relevant provisions of the contract, and may modify them if technically justified (measurements) in accordance with quality parameters.

Parties shall use the SS7 CCS signaling system on the interconnection interface. The signaling point codes shall be established by the parties in accordance with the provisions of Government Decree No. 164/2005 (VIII. 16.) on the National Table of Identifier Allocations for electronic communications networks.

Parties shall exchange the called number in their networks in accordance with effective regulations and with consideration to the specifications of the contract; default values are network identification code (SHS) + subscriber number (ES), Nature of Address= NAT. Parties shall handover traffic generated in their own network together with the calling party's number ('A' number). Parties shall strive to display the 'A' number during the phase of transited traffic also. Parties agree not to alter the 'A number' during the routing of their inter-

*The English translation is for information purposes only.

In case of formal inquiries the official terms published in Hungarian under the following link shall be applicable:

http://www.t-mobile.hu/lakossagi/ugyintezes/garanciak/tanusitvanyok/halozat_osszekapcs

network traffic irrespective of traffic direction and shall not replace the 'A number' with a fictive number. Parties shall endeavor, in respect of traffic originated or terminating in the other Party's network, to enforce this obligation towards other contracting parties. If echo problems are incurred during calls echo cancellation shall be applied. The traffic originating Party shall be responsible for echo cancellation and the related costs.

e) Interconnection Traffic Service

Call termination – and other related services based on separate (ad-hoc) agreement – into Magyar Telekom Plc.'s mobile radio telephone network.

f) Quality of Service, including terms and conditions of operations and maintenance

Detailed terms and conditions agreed during negotiations and stipulated in contract.
Default service available via IC link; service availability min. 99.75% p.a. per point of interconnection.
Default size of IC links is determined according to the Erlang formula when GoS equals 1%.
Parties shall monitor and maintain their deployed equipment and services.
Parties guarantee the standard operability of their networks and fulfill the quality specifications stipulated in their Concession Contracts or Service Licenses.

g) Interconnection Interfaces

In accordance with the effective Network Interface Notification referred to under Point a).
Excerpts and main elements:
1. Interface and Service:
Mobile radio telephone network, SS7, CCS, 2 048 kbit/s speed network exchange interface.
2. Access point:
Physical connection:
At the specified access point of the DDF in the mobile network exchange.
3. Electrical specifications: Layer 1.
120-Ohm symmetric pair acc. to ITU-T G 703 and ITU-T G 704 electrical specifications.
3. Signaling system: Layer 2-3.
Data Link Layer, Network Layer
SS7 MTP.
Default higher level signaling system in accordance with the relevant provisions of the HIF 004/2003 (C7 ISUP V2) Signaling System Recommendation.

h) Operator-assisted and emergency services

Magyar Telekom Plc. does not operate operator-assisted services in its mobile radio telephone network.
Mobile subscribers' emergency calls are handled with the support of its fixed network.

i) Cooperation obligations and applicable rules

Cooperation between the parties shall be established with consideration to effective regulatory provisions, based on negotiations, and in accordance with the provisions laid down in contract. Main areas of cooperation:

Cooperation in relation to handling subscriber data

Parties shall exchange subscriber personal data only if mandated by legal provisions or upon the prior written (or documented) consent of the subscriber. The Parties shall be subject to the applicable legal provisions concerning protection of personal data, particularly the provisions Act LXIII of 1992 on the protection of personal data and the disclosure of data of public interest, the Act on Electronic Communications and the implementation decrees issued thereunder.

Cooperation in relation to the introduction of new services

If one Party introduces a new telecommunications service whose provision to the other Party is not mandated by effective legal provisions or the agreement between the Parties, the other Party may initiate negotiations to access the new service.

Cooperation in connection with the handling of confidential information

Parties may use confidential information for purposes outside the scope of performing their services only in cases justified and upon the other Party's prior written consent. Parties shall deny such prior consent only on well-founded basis.

Cooperation in the event of a state of emergency or force majeure

In the event of a state of emergency or force majeure the parties shall – in accordance with regulatory provisions – cooperate in the elaboration and implementation of an action plan with other telecommunications service providers and telecommunications network operators in accordance with the instructions of the responsible minister(s). In the event of a state of emergency or force majeure or for reasons of public safety, the Parties shall, within the framework of legal provisions, act and operate upon the orders of the Government of the Hungarian Republic and/or the Minister.

***The English translation is for information purposes only.**

In case of formal inquiries the official terms published in Hungarian under the following link shall be applicable:

http://www.t-mobile.hu/lakossagi/ugyintezes/garanciak/tanusitvanyok/halozat_osszekapcs

