



Site Sharing Guidelines

1. General

- 1.1. Site sharing shall be made available according to the choice of the licensed operator requesting site sharing (“Requesting Party”) in horizontal and vertical separation of antenna systems, if technically possible and commercially bearable by any other licensed operator who grants usage rights (“Granting Party”).
- 1.2. Site sharing shall be made available on masts and towers (“mast sharing,” “tower sharing”) as well as on rooftops (“rooftop sharing”).

2. Horizontal separation

- 2.1. The Granting Party is obliged to allow horizontal separation to the Requesting Party, whereby the Requesting Party shall be obliged to pay a one-time compensation for all additional costs arising for the Granting Party in the causal context of the redesign of the site, the structural amendments of the rooftop, mast or tower. Minimum open space distance between antenna systems of the Parties shall be 2-3m (for GSM900) and >1m (for GSM1800, UMTS) from each other according to international best practices.
- 2.2. The Requesting Party shall reimburse the Granting Party for these costs, whereby the Requesting Party shall be entitled to receive a binding quotation for these costs in advance. The final costs shall not deviate more than 20% from the quotation given by the Granting Party. Such quotation shall be provided by the Granting Party on a site-by-site basis within two weeks after written request of the Requesting Party.
- 2.3. The Requesting Party shall request site sharing for a maximum of 10 sites per submitted request. Any additional request may be submitted only after a grace period of two weeks. The rules as outlined in following paragraphs 6 to 14 shall apply.

3. Vertical separation

- 3.1. Under the same rights and obligations as for horizontal separation (section 2 above), the Requesting Party may request vertical separation of antenna systems. Minimum open space distance between antenna systems of the Parties shall be 0.5m, according to international best practices. The Granting Party shall grant such site sharing upon written request by the Requesting Party. The rules outlined in following paragraphs 6 to 14 shall apply. Furthermore reimbursement of costs applies as laid down in section 2.2.

4. Refusal due to compelling technical reasons

- 4.1. Horizontal and vertical separation may be refused by the Granting Party only on compelling technical reasons which jeopardize the stability and structure of the mast/tower and if these risks are justified in writing by the Granting Party to the Requesting Party. In such case, the Granting Party shall justify its refusal and shall explain why even with building and design modifications and a redesign of the site, horizontal and/or vertical separation is not possible. The Requesting Party may appeal to the TRA after the receipt of such refusal in case it deems the explanation not to be sufficiently justified.

5. Extension of masts and towers

- 5.1. In case the Requesting Party requests site sharing with respect to a mast or tower, where the capacity of the tower or the mast is already fully utilized, the mast or tower shall be extended in order to allow site sharing, provided that the mast or tower is able to take more load.
- 5.2. Static of towers shall be recalculated before installation of the planned mechanical extensions to ensure that the static and dynamic forces on the tower do not exceed the limits of its initial design. Costs of recalculation shall be born be the Granting Party and reimbursed by the Requesting Party on implementation of the site sharing arrangements.
- 5.3. In case of a dispute about the ability of the tower or the mast to support the required additional load, the Requesting Party shall be entitled to initiate static recalculation and bear costs, if the result proves to be negative .
- 5.4. Mechanical extensions to masts and towers shall be constructed in such a way that the required clearance angles and minimum separation distances between antennas systems of different operators are respected and kept clear of obstacles. Each licensed operator may decide on the antenna configuration and positioning within his allocated mast-space, as long as clearances and distances towards other licensed operator(s) are not violated.
- 5.5. In case of a dispute between the Granting Party and the Requesting Party concerning the positioning of the antennas on the extended mast or tower, the Granting Party shall have the right to choose its preferred position on the mast or tower. However, in case this leads to additional cost for the repositioning of its equipment, the Granting Party shall bear the cost of such repositioning.
- 5.6. The Requesting Party shall reimburse the Granting Party for the costs of tower or mast extension, whereby the Requesting Party shall be entitled to receive a binding quotation for these costs in advance . The final costs shall not deviate more than 20% from the quotation given by the Granting Party. Such quotation shall be provided by the Granting Party on a site-by-site basis within two weeks after written request of the Requesting Party.

6. Reduction of outages

If installation works on a site in the context of site-sharing unconditionally require downtime of the respective site or other related elements of the mobile network downtime shall be kept to a minimum and in no case exceed the duration of minutes.

7. Maximum duration for personnel working

The maximum duration for personnel working within the horizontal and vertical distances from the antennas are derived from the following information/data. If these values are exceeded, the transmitter(s) feeding the antenna shall be powered down. Such measure shall be requested in due time by the Party performing the antenna works.

Duration of stay	horizontal distance (within clearance angle of the transmitting antenna)	vertical distance (backside of antenna)
30 seconds (climbing)	0.5 meters	...
2 minutes	0.7 meters	...
eight hours (without change of location)	1.3 metres	0.2 metres

Table 1 – Maximum Working Duration for Personnel

The distances mentioned in the above table have been calculated from an international benchmark for personnel that is exposed to emissions for work reasons. For the data, the worst case information for emissions in the frequency bands of 900 and 1800 MHz has been used.

8. Qualified personnel

The Licensees will only use educated and equipped personnel which has been informed about the potential dangers in case of inappropriate course of action.

9. Timing

In order to reduce the impact on the network to a minimum, the timing for outage shall be planned for the off-peak hours, wherever applicable. The Licensees shall undertake an attempt to agree on a time window for switch off on a site-by-site basis. If an agreement cannot be reached, the time window shall by default be set from 04.00 a.m. to 07.00 a.m..

10. Information

Each Licensee has to inform the other Licensee and to transmit to it the following information at least four working days before the planned switch-off / outage in a written form (also by fax and email) to the contact point defined below (5th bullet point):

- Site name with GPS coordinate;
- Planned time of switch-off;
- Planned duration of switch-off;
- Reasons for switch-off;

- Contact points of the Licensee with name, address, telephone number, mobile number, fax number and email address.

11. Consent to switch-off

Switch-off may only take place after the written consent of the Granting Party (e.g. by fax, stamped and signed by the other party). The acknowledgment by the Requesting Party must take place within one working day.

12. Contact point

When starting and finishing working on site, the contact point of the other party has to be informed by telephone about the work going on. Thereby, the name, the company and the call back number of the caller must be given.

13. Unexpected interferences

In case of unexpected interferences, a further coordination by telephone between the contact points of the partners is necessary.

14. Points of Contact:

- Operation and maintenance centre Party A:
 - Name
 - Address
 - telephone: [■]
 - mobile number
 - fax: [■]
 - email: [■]
- Operation and maintenance centre Party B:
 - Name
 - Address
 - telephone: [■]
 - mobile number
 - fax: [■]
 - email: [■]