

Application Management of Mobile Radio Sites

PreHCM EMF Toolsuite for the site certification procedure

Parameter	Vodafone (MBOF_VF)			Vodafone (MBOF_VF)			Vodafone (MBOF_VF)		
	A	B	C	A	B	C	A	B	C
Systemkennung	8 * 120 *	240 *	0 *	120 *	240 *	0 *	120 *	240 *	0 *
Hauptstrahlrichtung (HSR) N über O	778,0 MHz	778,0 MHz	778,0 MHz	801,0 MHz	801,0 MHz	801,0 MHz	801,0 MHz	801,0 MHz	801,0 MHz
Betriebsfrequenz	Kathrein	Kathrein	Kathrein	Kathrein	Kathrein	Kathrein	Kathrein	Kathrein	Kathrein
Hersteller	80011898	80011898	80011898	80011898	80011898	80011898	80011898	80011898	80011898
Antennentyp	15,6	15,6	15,6	15,8	15,8	15,8	16,3	16,3	16,3
Max. Antennengewinn	69,0 *	69,0 *	69,0 *	66,0 *	66,0 *	66,0 *	69,0 *	69,0 *	69,0 *
3dB Öffnungswinkel horizontal	12,8 dB	12,8 dB	12,8 dB	12,8 dB	12,8 dB	12,8 dB	12,8 dB	12,8 dB	12,8 dB
Winkeldämpfung vertikal	0,0 * - 0,0 *	0,0 * - 0,0 *	0,0 * - 0,0 *	0,0 * - 0,0 *	0,0 * - 0,0 *	0,0 * - 0,0 *	0,0 * - 0,0 *	0,0 * - 0,0 *	0,0 * - 0,0 *
Mech. Til	2,0 * - 12,0 *	2,0 * - 12,0 *	2,0 * - 12,0 *	2,0 * - 12,0 *	2,0 * - 12,0 *	2,0 * - 12,0 *	2,0 * - 12,0 *	2,0 * - 12,0 *	2,0 * - 12,0 *
Elek. Til	46,0 W	46,0 W	46,0 W	46,0 W	46,0 W	46,0 W	184,0 W	184,0 W	184,0 W
Systemleistung pro Kanal	1	1	1	1	1	1	1	1	1
Kanalanzahl	0,0 dB	0,0 dB	0,0 dB	0,0 dB	0,0 dB	0,0 dB	0,0 dB	0,0 dB	0,0 dB
Verluste zu - Senderausg. u. Antenneneing.	5,84 m	5,84 m	5,84 m	5,91 m	5,91 m	5,91 m	11,54 m	11,54 m	11,54 m
Sicherheitsabst. der Sendeantenn (hor)	1,37 m	1,37 m	1,37 m	1,35 m	1,35 m	1,35 m	2,64 m	2,64 m	2,64 m
Sicherheitsabst. der Sendeantenn (ver)	12,8 dB	12,8 dB	12,8 dB	12,8 dB	12,8 dB	12,8 dB	12,8 dB	12,8 dB	12,8 dB
Winkeldämpfung vertikal (berechnet)	0,0 dB	0,0 dB	0,0 dB	0,0 dB	0,0 dB	0,0 dB	0,0 dB	0,0 dB	0,0 dB
Materialdämpfung	1,044	1,044	1,044	1,044	1,044	1,044	1,044	1,044	1,044
Wiesbeckfaktor horizontal	6,10 m	6,10 m	6,10 m	6,17 m	6,17 m	6,17 m	12,05 m	12,05 m	12,05 m
Wiesbeckfaktor vertikal	1,43 m	1,43 m	1,43 m	1,41 m	1,41 m	1,41 m	2,79 m	2,79 m	2,79 m
Sicherheitsabst. (hor)									
Sicherheitsabst. (ver)									
Bemerkung zur Sektoranordnung									
Gesamtsicherheitsabst. (hor)	19,32 m								

Registration of mobile phone sites in accordance with the decree on the procedure of providing evidence for the limitation of electromagnetic fields (BEMFV)

To guarantee that cell phones, smartphones or tablet computers can be used at all times without health hazards, the legislator has set binding health protection limits for the operation of radio systems.

The exposure limits are based on the current state of research and determine the limit of permitted loads that should not be exceeded.

If the Federal Network Agency (BNetzA) has issued a site certificate in accordance with the decree on the procedure of providing evidence for the limitation of electromagnetic fields (BEMFV), it confirms that the planned radio system complies with the legal limits in the vicinity where people may be present.

The PreHCM EMF Toolsuite covers the complete lifecycle of the site certification procedure from pre-evaluation, application preparation and receipt of approval, commissioning and occupational health and safety assessment to decommissioning of sites.

Overview of sites

Contains a list of all sites represented in the system with their specific information after synchronization of the sites. Switch to additional sites that are linked to the currently selected site via the context menu.

Overview of Applications

Overview of all applications created and processed in PreHCM EMF, including their application-specific data. Limitation of individual applications to those of interest to the user is possible by using the filters displayed above the application table.

Assessment

Using the estimation functionality, a forecast of the safety distances to be maintained can be generated in the planning process of a radio system. The distances in vertical and horizontal direction obtained in this way help planners and site managers to dimension and position the antenna masts.

Commissioning

List of radio equipment approved by the BNetzA for a commissioning notification according to BEMFV for electronic transmission.

Decommissioning

List of the radio equipment out of service at the network operator for a decommissioning notification according to BEMFV for electronic transmission.

BNetzA Transfer Management

Listing of all transfers made via the system, including their basic data. Download of the documents associated with the transfer is possible as a zip archive.

Parameters

Master data (antennas, hardware, radio systems, technologies, frequency bands) including technical specifications.

Occupational safety

Module for the evaluation of antenna labeling according to DGUV regulation 15 (BGV B11).

Configuration

General user settings and user group management to ensure high-performance multi-user capability.