

## Software Solution for the Lifecycle Management of Microwave Transmission Links

Electronic and automated Applications for Microwave Transmission Links with PreHCM Microwave

Operator Id	Region	Reference No	Operation No.	Request Type	Progress	Progress at
CARD000001	Hesse-Ost	10000001	10000001	License	Completed	2014-04-10 10:00
CARD000002	Hesse-Ost	10000002	10000002	New application	Accepted	2014-04-10 10:00
CARD000003	Hesse-Ost	10000003	10000003	New application	Accepted	2014-04-10 10:00
CARD000004	Hesse-Ost	10000004	10000004	Planer	Completed	2014-04-10 10:00
CARD000005	Hesse-Ost	10000005	10000005	License	Completed	2014-04-10 10:00
CARD000006	Hesse-Ost	10000006	10000006	License	Completed	2014-04-10 10:00
CARD000007	Hesse-Ost	10000007	10000007	License	Completed	2014-04-10 10:00
CARD000008	Hesse-Ost	10000008	10000008	License	Completed	2014-04-10 10:00
CARD000009	Hesse-Ost	10000009	10000009	License	Completed	2014-04-10 10:00
CARD000010	Hesse-Ost	10000010	10000010	License	Completed	2014-04-10 10:00
CARD000011	Hesse-Ost	10000011	10000011	License	Completed	2014-04-10 10:00
CARD000012	Hesse-Ost	10000012	10000012	License	Completed	2014-04-10 10:00
CARD000013	Hesse-Ost	10000013	10000013	License	Completed	2014-04-10 10:00
CARD000014	Hesse-Ost	10000014	10000014	License	Completed	2014-04-10 10:00
CARD000015	Hesse-Ost	10000015	10000015	License	Completed	2014-04-10 10:00

### Flexible standardization of your application process for microwave transmission links

Frequency allocation by the respective national government authority is a licensing procedure under licensing law for the installation and operation of a mobile communications network. In order to ensure the most interference-free and efficient use of the frequencies allocated to microwave transmission links, these frequencies are usually allocated one-by-one by the administration for microwave applications.

As a result of the use of new broadband communication technologies, the demand for radio relay connections is also increasing. This leads to a large number of applications for microwave transmission links in a short period of time and thus to longer waiting periods until licensing.

PreHCM Microwave supports the complete lifecycle of the regulation management of frequency allocation for microwave transmission links with the responsible national institution in an electronic and standardized way. This leads to a reduction of waiting and processing times until the requested license is delivered.

Furthermore, PreHCM Microwave supports network operators in all typical processes before, during and after the application for authorization of microwave transmission links, taking into account existing internal workflows and system architectures.



### Individual and flexible planning of networks with microwave transmission links

For mobile network operators, processes and necessary interfaces are connected to existing system environments and workflows, including the network planning tools in use, according to the customer's individual needs. Already existing modules for common planning tools such as iO.Link, APT or Inventory facilitate the integration.

### Standardized registration process with the responsible regulatory authority

The registration process and the associated data exchange between PreHCM Microwave and the respective regulatory authority is standardized.

Process flows and formal requirements for the application (e.g. XML format) or master data registration (sites) specified by the authorities are met.

#### Reduction of effort compared to manual applications

Reduced effort by using automated processes and existing infrastructures, especially when deadlines are extended.

#### Relevant contact persons and master data always available

The contact details (name, telephone number and e-mail) of both the planner of the application and the person responsible in the national authority are available in the application details in addition to the master data of the application.

#### Time saving due to automated reading of responses from authorities

Direct processing of the received administration responses. Status changes are immediately available in the program. Direct processing of the answers towards third party systems possible.

#### Compliance with BNETZA requirements in Germany

Check of mandatory fields before sending an application, use of the desired XML application structure, master data registration according to specifications.

#### Status transparency and process documentation

All documents, master data, contact persons, status changes can be found in the application details as an application history. Additionally, all documents sent/received by the program can be downloaded in the document overview.

#### Reports adapted to user needs are provided

Examples: Overview of locations, status, expiration of radio relay licenses, percentage of modified attributes, number of waivers in a selected period, number of licenses in a selected period, and a lot more.