



HiMoNN BASIS 3.10

RELEASE NOTES



The HiMoNN Release Basis 3.10 enhances the features of HiMoNN Basis 3.9 and incorporates the following modifications and new features.

Mobility of end user client devices in the mobile ad-hoc network

(Client Mobility)

This function allows the operation of end user client devices with a constant IP address in the HiMoNN network – independent of the HiMoNN node, connected to. The client devices are accessible constantly over the same IP address - without the need to know the direct point of access (HiMoNN and interface).

This function is useful for client devices, which are needed to be addressed explicit – like IP network cameras, dedicated servers and VoIP phones.

By using the supervision tool “HiMoNNitor” you can observe, at which HiMoNN node a client device is bound.

To allow a client device to be handled as a mobile device, the device has to be registered at each HiMoNN node to be bound to.

Alternative gateway accesses of a HiMoNN node to remote networks

(WAN Mobility)

The provision of gateway accesses of the HiMoNN network to other remote networks has been extended significantly in comparison to Release 3.9.

Now it is possible by using the new WAN mobility function, to administrate and to control multiple gateway accesses to a WAN (wide area network) at one HiMoNN node.

The HiMoNN node uses the best available gateway access for passing user data to a remote network – according to a behavior specified by the administrator.

So, an optimized used of WAN accesses is possible, i.e. according availability, cost efficiency and performance.

This function is useful if several WAN accesses can be used by a HiMoNN node, such as for example via satellite connection, mobile radio (UMTS / LTE) and DSL, and if their availability possibly changes.

The supervision tool "HiMoNNitor" informs about the currently used WAN access as well as - in an extended display - the availability and use of all configured WAN accesses.

To use this function, the individual WAN access points are configured with regard to their interface, priority and possibilities for testing the availability at the HiMoNN node.

Transparent network linkage

This function offers the opportunity to establish a transparent direct connection between the user interfaces of two HiMoNN nodes without additional routes (Layer 2, comparable to Ethernet). As a result, 2 subnetworks can be linked to one IP network - network services such as DHCP, broadcast and VLAN, which are provided in a subnetwork, are thus available in the respective other subnet without further configuration steps.

This feature is useful for temporarily extending a network with a complex infrastructure to a remote point in the operation area.

For this purpose, a "network linkage" is configured by declaring the interface used for connecting the subnetwork to a HiMoNN node as a "network linkage" and the IP address of the interface of the remote HiMoNN node which is directly connected to the second, remote link Subnetwork.

The monitoring tool "HiMoNNitor" shows the use as a network linkage for such an interface.

Further innovations of HiMoNN software

Improved administration of IP multicast

The multicast data streams are now secured by an IPSec encryption - integrated directly into the HiMoNN system. This drastically reduces the administrative effort, required to provide encrypted multicast streams.

This feature uses the same security parameters (PSK) as the regular IPSec-based protection of the unicast data streams in HiMoNN.

Information field for HiMoNN configuration

In order to provide the operator with information about the configuration of the respective node, a freely definable text field was introduced, into which corresponding short information on the configuration can be entered.

Updated system software

The core system of the HiMoNN node and the general system software have been revised. Thus, the path becomes free for future hardware and software extensions.

Revision of HiMoNN Basis 3 hardware

The HiMoNN nodes were subjected to an internal revision in parallel with software release 3.10. The goal was to further improve the system's maintainability and robustness, and to keep it technologically up-to-date.

In particular, HiMoNN new devices - equipped with a mobile radio option - can now also use the LTE standard, additionally to the existing HSPA / UMTS function.

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