



HiMoNN BASIS 3.9

RELEASE NOTES



The HiMoNN Release Basis 3.9 enhances the features of HiMoNN Basis 3.8 and incorporates the following modifications and new features.

Support of alternative accesses to the Internet and other remote networks

If there are several accesses or gateways to the Internet or to a remote network these accesses can be used in parallel now. Generally, this enhancement provides the following opportunities:

Optimum way to the network access, which is reachable best

Within the HiMoNN network, always the optimum way to the according gateway node is selected, which provides the access to the remote target network (i.e. the Internet). For the provision of multiple accesses to the same network – now HiMoNN also finds the best reachable access. This causes the data traffic between client device and the remote network to take an optimum and resource saving way.

Preference of “cost efficient” accesses

By using a new cost based specification of accesses to a certain remote network – fast and cheap accesses can be preferred – in comparison to other accesses, which are slower or more expensive. In consequence, “expensive” accesses are used only, if the “cheaper” are not or not sufficiently reachable within the HiMoNN Ad-hoc network.

HiMoNN-Sticker: Injection of configurations, together with VPN certificates

The function of “HiMoNN-Sticker” to inject configurations with the help of USB flash memory has been extended in the way, that besides the configuration files, even also certificates can be injected – to configure the HiMoNN node as a gateway.

By plugging the USB flash memory once – the complete configuration of a HiMoNN node as a certificate basing VPN gateway is applicable.

Besides this, it is possible to inject new HiMoNN certificates for the access to the HiMoNN Web Administration as well as certificates for the secured processing of HiMoNN Sticker tasks of a HiMoNN node.

QoS for HiMoNN: Processin of marked data streams

The QoS functionality (*Quality of Service*) of the HiMoNN system has been extended in a way, so that data traffic, coming over client networks of a HiMoNN node can be treated prioritized, when it is already marked according the QoS standard *DiffServ (Differentiated Services / RFC 2474)*.

This standard with *DSCP markers (Differentiated Services Codepoint)* becomes more and more dominant against other alternative mechanisms.

For HiMoNN, the user can assign specific DSCP values to the desired QoS priorities of HiMoNN system. Incoming data, which is marked accordingly, will be passed prioritized through the HiMoNN network. The DSCP markers of the data packets always remain unchanged. If the packets leave the HiMoNN network, they still can be used by other networks for their QoS functions.

Web-Administration: Distribution of Access Control Lists (ACL) to other HiMoNN nodes

If it is necessary to establish an identical list of permitted client devices (the so called “ACL” [Access Control List], i.e. for the WiFi access point) on several HiMoNN nodes, this is possible easily by using the new distribute-function within the running Ad-hoc network now.

So, the ACL of an interface for client access, administered locally at one HiMoNN node, may be distributed to all other HiMoNN nodes, which are currently reachable over the HiMoNN network.

The user may select the HiMoNN nodes, to which the ACL should be sent, and also, if the local ACL should replace the ACL at remote HiMoNN nodes completely, or, if other existing ACL entries of the specific nodes should be kept.

Further system enhancements and improvements

HiMoNNitor: adjustable size of display window

The window of the supervision tool HiMoNNitor can be adjusted in its size by dragging the window frame with the mouse pointer. The adjustment can be stored, so that the adjusted size is recovered for further starts.

Modification of the default address concept for IPv6

Since several releases, HiMoNN nodes are equipped and operated with parallel configurations for IPv4 and the newer IPv6 protocol per factory default. The address concept for IPv6 has been reworked to reach an even higher flexibility for the access of clients and client networks.

Optimization of the automatic routing

The automatic routing of the HiMoNN network has been received further optimizations. So, the communication routes will be selected optimally within complex situations with multiple opportunities for concurrent communication paths. This provides an improved data stability – especially for HiMoNN networks with communication routes over relay nodes.

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