

software release note for KUHNT configurations program

For Microsoft Windows 95/98™, NT™, 2000™, XP™

software REV 2.0 (BUILD 1.56 v. 04.03.2003)

Change of user panel of the KUHNT configuration software 2.0 (build 1.56)

This software release has a direct effect on the audio quality of connections via an AS52X interface
The managing of echo cancelling is improved to keep the audio quality.

The user panel of the KUHNT configuration program changed in the "*Radio Settings*", especially the specification of "*simplex*" and "*duplex*" is different now. .

Radio Settings:

old specification:

*operation mode
of the interface*

"*simplex*" and "*duplex*" available. "*simplex*" means echocancelling is active. "*duplex*" means no echo cancelling (echo may occur)

new specification:

Echocancelling:

Depending of type and software of the AS52X interface you can use different presets to manage how the echo cancelling works.

For AS520, AS521 and AS522 up to firmware 3.3 :

"*off*"

"*on (Simplex)*"

For AS522 with firmware 3.4 ... 4.0 :

"*off*"

"*on (Duplex)*"

For AS522 with firmware 4.1 and higher:

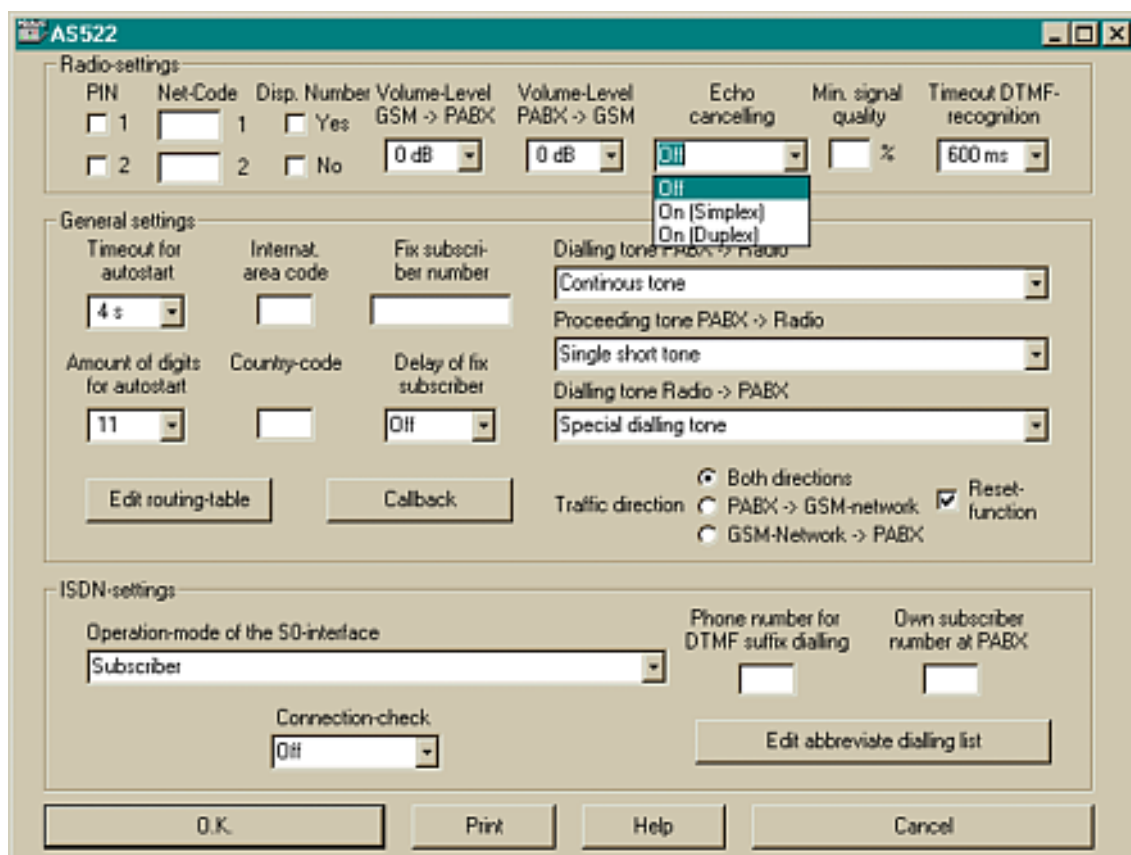
"*off*"

"*on (Duplex)*"

"*on (Simplex)*"

"*simplex*" - mode enforces a one-way operation during a connection.
Reduced speech comfort but no echo will occur.

The preset echo cancelling "*on (Duplex)*" activates a digital echocancelling
Full duplex operation with echo cancelling



General Information about echo problems:

There are various reasons which might cause an echo.

Some GSM networks operators integrates an echo cancelling some do not. The application case itself might influence echoes (e.g. if the AS52x is used for call forwarding). Even each single connection has a different delay-time characteristic.

The factory preset is "off". Usually this setting works fine with a high level of audio comfort. Change the "Echo cancelling" preset if you have problems with some echo phenomenon.