AGWInterface User's Guide
3.0b01

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Section 1 - Introduction

AGWInterface was written to provide an interface between javAPRSIGate and AGWPE (developed by George Rossopoulos, SV2AGW).

The AGWInterface source code is published for use by other developers to work with the javAPRSIGate TNCInterface 2.0.

Section 2 - Program Requirements and Description

AGWInterface is designed to run on any OS with any recent Java Virtual Machine. It has been successfully tested with the Microsoft JVM for Windows and with the Sun 1.1.8 JDK for Windows.

AGWInterface is comprised of a number of classes which Java looks at as objects. The main class is AGWInterface. This class is called at startup, sets parameters, and begins execution of the different support threads.

AGWInterface works in conjunction with the javAPRSIGate TNCInterface to provide full, bidirectional communication with AGW. All IGate logic is handled at in javAPRSIGate which leaves the AGWInterface to concentrate on formatting and sending packets to the TNC log ports.

Section 3 - Configuration Parameters

The configuration parameters reside in a configuration file which, by default, is called javaprssrvr.cfg. You can use any text file if you pass the name into javAPRSSrvr as a command line parameter.

The parameters are CASE SENSITIVE. Defaults are shown below.

NOTE: UNLESS YOU REQUIRE A SETTING OTHER THAN THE DEFAULT, DO NOT INCLUDE ANY PARAMETERS WITH DEFAULT SETTINGS.

List parameters may be defined on the line or may be defined in a text file. If defined on the line, each entry is separated by a semicolon. If defined in a file, each entry is put on a separate line. Do not put blank lines in the file. The file must have the extension .lst For instance, this would be the definition for hubs where you want to connect to first.aprs.net and second.aprs.net port 1313:

hubs=first.aprs.net:1313;second.aprs.net:1313

Or you could have the following 2 lines in hubs.lst:
first.aprs.net:1313
second.aprs.net:1313

You would then put the following line in your configuration file:
hubs=hubs.lst

(R) at the beginning of the parameter description means that the parameter can be changed on-the-fly from the console with either the S or R commands.

javAPRSIGate Parameters

TNCModule=

This must be set to AGWInterface.
Set to TNCModule=AGWInterface

TNCIFieldMax=256

This sets the maximum information field length for packets gated to RF.
Modify this only if there is an absolute requirement. Some TNC's "break" if they send or receive packets with more than 256 octets in the information field.

TNC General Parameters

TNCSpeed=1200

This sets pacing for the TNC interface.
Set this to the RF speed of the TNC. This reduces the possibility of TNC overruns in KISS mode.

TNCMaxVias=7

This sets the maximum number of digipeaters in the path.
Modify this only if there is an absolute requirement. Some TNC's "break" if they send or receive packets with more than 7 digipeaters in the path.

TNCPortInit=

This defines a command line to be run before opening the TNC port.
This may be a single command or a batch/script file. In Linux, be sure to prefix a script file with ./ so the file is executed. Also be sure to have execute rights for the desired script and programs.

TNCPortInitWait=true

This determines whether the interface should wait for the TNCPortInit command to complete before continuing.
Set this to false if you are running a program which will remain operational after TNC initialization.

AGW General Parameters

AGWTNCPortNumber=1

(R)This is the TNC port number that the IGate transmits on.
TNC port 1 is translated to AGW port 0.

AGWAddress=

(R)This is the DNS name or IP address of the AGW program.
The format is address:port. This does not currently support IPv6 raw definitions although localhost may normally be used. The default port for AGW is 8000.

AGWUserName=

(R)This is the User ID you define in AGWPE. If blank, no login is sent.

AGWPassword=

(R)This is the password you define in AGWPE. This may be blank.

Section 4 - Recommended Configurations

I recommend using matching the settings to your installation of AGWPE.

Section 5 - Installation Instructions

AGWInterface is included in all of the combined jar and exe files. Simply add TNCModule=AGWInterface to activate it.

Section 6 – Status Page

TNC Port Number	1	AGWPE port number + 1