

Inhaltsverzeichnis

1. DXL - APRSmap operating	41
2. Benutzer:OE2WAO	15
3. DXL - APRSmap englisch	28

DXL - APRSmap operating

Versionsgeschichte interaktiv durchsuchen
VisuellWikitext

Version vom 14. August 2021, 14:42 Uhr
([Quelltext anzeigen](#))
OE2WAO ([Diskussion](#) | [Beiträge](#))
Markierung: [Visuelle Bearbeitung](#)
← [Zum vorherigen Versionsunterschied](#)

Aktuelle Version vom 14. August 2021, 14:49 Uhr
([Quelltext anzeigen](#))
OE2WAO ([Diskussion](#) | [Beiträge](#))
Markierung: 2017-Quelltext-Bearbeitung

Zeile 81:

*The "0" (zero), ESC and ":" keys often help if you want to have everything displayed again after clicking on the filter or similar.

*"TAB" key toggles between two independent displays, similar to VFO "A" and "B".

==Menus==

Zeile 254:

====Choose Maps====

Zeile 81:

*The "0" (zero), ESC and ":" keys often help if you want to have everything displayed again after clicking on the filter or similar.

*"TAB" key toggles between two independent displays, similar to VFO "A" and "B".

+

==Menus==

Zeile 255:

====Choose Maps====

+

====Reload====

+

====Download====

+

====tiles_quest====

+

====tiles_sat====

+

====tiles_cyclemap [9]====

+

====tiles_topo [8]====

====Find====

Zeile 269:

====Temp Colourmap=====

Shows a temperature distribution (similar to an isobar map). Shortcut 2x "w". Exit the Colourmap view with ESC or key w again

====Add Maptypes=====

====Find====

Zeile 284:

====Temp Colourmap=====

Shows a temperature distribution (similar to an isobar map). Shortcut 2x "w". Exit the Colourmap view with ESC or key w again

====WX Stations=====

====Show POI=====

====Show All=====

====Add Maptypes=====

Aktuelle Version vom 14. August 2021, 14:49 Uhr

Inhaltsverzeichnis

1 Program start	45
2 Operation	45
2.1 First steps	45
2.2 Shortcuts	45
2.3 Tips & tricks	46
3 Menus	47
3.1 File	47
3.1.1 Import Log	47
3.1.2 Screenshot	47
3.1.3 Make Video	47
3.1.4 Write Log	47

3.1.5 Keep Log Days	48
3.1.6 Quit	48
3.2 Config	48
3.2.1 Brightness	48
3.2.2 Online	48
3.2.2.1 My Call	48
3.2.2.2 My Symbol	49
3.2.2.3 My Position	49
3.2.2.4 Netbeacontext	49
3.2.2.5 Passcode	49
3.2.2.6 Server URL	49
3.2.2.7 Serverfilter	49
3.2.2.8 Connect Server	50
3.2.2.9 Allow TX to NET	50
3.2.2.10 Allow Gate RF>NET	50
3.2.3 RF-Ports	50
3.2.4 Timers	50
3.2.5 Map Parameter	50
3.2.5.1 Show Loc of Mouse	50
3.2.5.2 Trackfilter	50
3.2.5.3 Show Scaler	50
3.2.5.4 Show Windvane	50
3.2.5.5 Show Temp	51
3.2.5.6 Load Map Program	51
3.2.5.7 km/h Text	51
3.2.5.8 Show Altitude min m	51
3.2.5.9 Brightness Notmover	51
3.2.5.10 Reset to Default	51
3.2.6 Map Moving	51
3.2.7 Colours, Font	51
3.2.8 Callfilters	51
3.2.9 Watch Calls	51
3.2.10 Reload Config	51
3.2.11 Save Config	51
3.3 Zoom	51
3.4 Tools	51
3.4.1 Toolbar Off	51
3.4.2 On next Click	52
3.4.3 List	52
3.4.4 Choose Maps	52
3.4.4.1 Reload	52
3.4.4.2 Download	52
3.4.4.3 tiles_quest	52
3.4.4.4 tiles_sat	52

3.4.4.5 tiles_cyclemap [9]	52
3.4.4.6 tiles_topo [8]	52
3.4.4.7 tiles [7]	52
3.4.5 Find	52
3.4.6 Radiolink	52
3.4.7 Select Data	52
3.4.7.1 Symbol	52
3.4.7.2 Dimm Notmover	52
3.4.7.3 Rain Colourmap	52
3.4.7.4 Temp Colourmap	52
3.4.7.5 WX Stations	53
3.4.7.6 Show POI	53
3.4.7.7 Show All	53
3.4.8 Add Maptypes	53
3.4.9 Map directory	53
3.4.10 Send Message	53
3.4.11 Animate	53
3.5 Help	53
3.5.1 Version	53
3.5.2 Helptext	53

Program start

After downloading and saving locally, the **aprsmap.exe** program can be started. A separate installation is not required.

Operation

First steps

APRSmap 1st Start

On the first start of the program it is necessary to do some configuration. The most important things you have to adjust are in the ONLINE menu. You best configure all steps from up till down.

- First of all you put in your callsign (MY CALLSIGN) with optional SSID
- Second step is to choose your desired APRS icon (MY SYMBOL)
- Next you will zoom to your QTH as far as you can, 100% identifying your home (zoom level >16). Then open ONLINE - MY POSITION and point to your home with the cursor. While push and hold the SHIFT key click on your home. The coordinates will be copied into the MY POSITION field. Just click OK to save them.
- Now you can set the SERVER URL by just inserting your favorite APRS IS. Click ADD to save this entry.

for example:

aprs.oe2xzt.ampr.at (APRS IS connection via HAMNET)
austria.aprs2.net (APRS IS connection via Internet)

- You also need to enter a valid APRS PASSCODE to transmit packets to the APRS network (not needed in case of only RX). Just do a internet search on APRS PASSCODE to find a possibility on getting your code.
- Last but not least you have to activate CONNECT SERVER to get data from an to the APRS network.

Shortcuts

Note, shortcut keys are case sensitive!

```
: delete markers
@ reset <On Next Click> to menu mode
a Animate (Click to Map to set Parameters)
b or <Backspace> go back in position history
c Center (to last clicked Pixel)
d toggle (missing) map download
e toggle Errors only/All for stepping along a track with <>
f Junk Filter toggle on/off
h Heard (click symbol or text of igate before)
i Internal Status Listing
l toggle Labels on/off
m toggle dimm not moving since 10min
o toggle Objects/Items on/off
p toggle mouse-over Hints
q Quit Program
```

```

r  toggle Radio tracks on/off
s  toggle show only stations with a selected symbol
u  toggle tx/rx-Monitor window on/off
w  toggle WX stations and Temperature
x  set Marker 1 to mouse position
y  set Marker 2 and Line to Marker 1
B  Open Beacon editor
C  Enter Category of POI to be drawn on map
D  Digi Config open/close
F  Find Call (with wildcards * ?), Locator, Latitude/Longitude
H  Altitude Colour Map (if srtm-Data available)
M  Compose Message
R  toggle Radiorange Map on/off
T  toggle Timestamp
S  Screenshot bpm (win), png (linux)
W  Rain map (use topo or dark map)
< > Step along Beacons/Waypoints of a selected User
( )  Map Brightness +/- 5%
/    zoom to Marker 1-2 Square
\    shortcut list
~    change track colour
+    Zoom in - Zoom out
.    zoom to track and show only this (clicked before)
=    same as . but with radio tracks
0    show all (and radio tracks off)
1,2,3,4 Zoom/Pan to stored Views
7,8,9 use map type as configured
ESC  close menus
Cursor up/down/left/right move map, same as click near margin
SHIFT with up/down/left/right/[zoom+]/[zoom-] in smaller steps
DEL  delete selected (Symbol, Waypoint)
TAB  switch between two Views
ctrl-L Reset Image and Mouse parameters to default
ctrl-V Paste

```

Tips & tricks

- Animation: Click on the track of a moving object (e.g. car) and press the "a" key
- Temperature distribution: Two times "w" (w + w) shows a color distribution of the reported temperatures (sensible min. Zoom level 10 or less)
- The "0" (zero), ESC and ":" keys often help if you want to have everything displayed again after clicking on the filter or similar.
- "TAB" key toggles between two independent displays, similar to VFO "A" and "B".

Menus



In addition to the main menus explained in more detail below, the menu offers further short menus on the right.

N Display or switching of the network status, green means connected, orange means not connected or connection problems. If the mouse pointer is moved over the menu, the connection status appears in the popup
 1-4....Display or switch the UDP port connections
 L display the log file data
 M View the saved messages
 F display or switching of the track filter (incorrect or implausible position packages)
 O display or switch the display of pure objects

By the way, the mouse position display (green bar with coordinates) can be activated in the CONFIG> MAP PARAMETER> SHOW LOC OF MOUSE menu.

File

Import Log

Import a complete logfile.

Screenshot

Save a screenshot in your local user directory, e.g. map1.bmp (Win10 user directories are in the User\AppData folder e.g. C:\Users\User\AppData\Local\VirtualStore\Program Files (x86)\APRSmap)

Make Video

Save a video from e.g. a moving object in .y4m raw video format.

Write Log

Choose the logfile directory.

Keep Log Days

Define the ammount of days logs are kept.

Quit

Exit APRSmap, shortcut key is q.

Config

Brightness

Setting the respective brightness, times and colors.

```
Time Fade Out - time until the display of stations disappears after the time
for display (full brightness) has expired
Time full Bright - time to display received positions
Brightness Waypoint - Brightness of the waypoint points
Brightness Text - Brightness of the station texts
Brightness Symbol - the brightness of the symbols displayed
Gamma - Gamma value setting of the card
Brightness Track - the brightness of the route
Brightness Map - the brightness of the map
Brightness Object - the brightness of the objects displayed
```

Online

The ONLINE area is initially the most important and necessary menu item, which has to be configured individually. Basically, when the program is simply started and a data connection is established, other stations can be receive even without specifying your own callsign, position or APRS passcode (RX only mode). However, in order to act "actively" in the APRS network and to be seen and reached by other stations, this information must be entered accordingly. The *APRS PASScode* must be requested once. To do this, search for "*APRS PASSCODE Generator*" on the Internet.

My Call

Here you enter the callsign to be used, optionally with SSID.

```
(without SSID) Your primary station usually fixed and message capable
-1 generic additional station, digi, mobile, wx, etc
-2 generic additional station, digi, mobile, wx, etc
-3 generic additional station, digi, mobile, wx, etc
-4 generic additional station, digi, mobile, wx, etc
-5 Other networks (Dstar, Iphones, Androids, Blackberry's etc)
-6 Special activity, Satelllite ops, camping or 6 meters, etc
-7 walkie talkies, HT's or other human portable
-8 boats, sailboats, RV's or second main mobile
-9 Primary Mobile (usually message capable)
-10 internet, Igates, echolink, winlink, AVRS, APRN, etc
-11 balloons, aircraft, spacecraft, etc
-12 APRStt, DTMF, RFID, devices, one-way trackers*, etc
-13 Weather stations
-14 Truckers or generally full time drivers
-15 generic additional station, digi, mobile, wx, etc
```

* One-way trackers should best use the -12 one-way SSID indicator because the -9's usually mean a ham in full APRS communication both message and voice. The -9's can be contacted by APRS message or by Voice on his frequency included in his beacon, or on Voice Alert if he is in simplex range. The -12's are just moving Icons on the map and since they have no 2 way communication for ham radio they are not generally of routine interest to other operators.

My Symbol

Self-explanatory

My Position

In order to enter your own position in MY POSITION quickly and without any major search effort, simply go first with the zoom into the MAP (preferably ZOOMLEVEL 17) so that you can clearly see your own position. Then open the CONFIG - ONLINE - MY POSITION item and click the SHIFT key to determine your own position. The coordinates are automatically adopted in the context menu and only need to be confirmed with OK.

Netbeacontext

The text set here is sent as beacon text via the network connection.

Passcode

An APRS PASSCODE is not absolutely necessary for RX, but this code is essential for sending your own data. You can apply for this code online with a waiting period, simply search for APRS IS PASSCODE using the search engine.

Server URL

Any APRS server that provides the data in the correct format can be entered as the server URL.

for example:
aprs.oe2xzt.ampr.at (for connections via HAMNET)
austria.aprs2.net (for connections via Internet)

Another list can be found at <http://www.aprs2.net/serverstats.php>.

The standard port is 14580 and does not have to be specified.

Alternative ports are given after the address:
aprs.server.com:12345

Serverfilter

Suggestion: " **m / 100 p / OE -t / t** "

The position filter is structured as follows [Position] / [Radius] eg " **m / 100** " for displaying data with a radius of 100km around your own position.

" **P / OE** " is used to display all OE stations (e.g. mobile) outside the defined radius filter .

And the mostly unnecessary telemetry traffic is filtered with " **-t / t** ".

TIP

settings relating to the server are only adopted when a new connection is made, for this the server connection can either be disconnected and re-established in the menu bar under "N", or the corresponding server entry can be deactivated and activated under "Config"> "Online"> "Connect Server" .

Connect Server

Activates or deactivates the online connection.

Allow TX to NET

Activates or deactivates the sending of (own) data to the online network.

Allow Gate RF>NET

Activates or deactivates the forwarding of APRS data heard locally via HF in the online network.

RF-Ports

Timers

Map Parameter

Show Loc of Mouse

Activates / deactivates the display of the coordinates, height and distance of the mouse pointer on the map.

Trackfilter

Activates / deactivates the intelligent filter function for incorrect or implausible position data (e.g. long lines across the APRS map; chopping or zik-zak in the track as if the route was driven several times - wheel cap lost - caused by a massive delay from Digis delivered packages)

Show Scaler

Show Windvane

Activates / deactivates the display of the wind vane at weather stations if this value was supplied.

Show Temp

Activates / deactivates the display of the temperature value at weather stations if this has been delivered.

Load Map Program

Deactivates / activates the card loader. Optionally, the loading program can be selected by clicking on the menu, optionally

```
getosm (standard, activates the external program getosm.exe from OE5KRN)  *  
recommended  
start sh map.sh (loading maps in the background)  
sh gm.sh    (for map download from the Internet)  
sh gm-hamnet.sh (for map download from HAMNET)
```

km/h Text

Freely selectable text of the unit for displaying the speed of moving stations. Default "km / h", can be shortened to "km", for example, to save space.

Show Altitude min m

Brightness Notmover

Reset to Default

Map Moving

Colours, Font

Callfilters

Watch Calls

Reload Config

Save Config

Zoom

Tools

Toolbar Off

Deactivates the permanently displayed toolbar. The toolbar can then be opened dynamically with a click on the map.

On next Click

List

Choose Maps

Reload

Download

tiles_quest

tiles_sat

tiles_cyclemap [9]

tiles_topo [8]

tiles [7]

Find

Radiolink

Select Data

Symbol

When the display is activated (marked by * next to SYMBOL) only the selected symbols are displayed. These can be switched on / off by clicking on the respective symbols (multiple selection possible). The entire function can be switched on / off by clicking on the wording SYMBOL.

Dimm Notmover

With the on / off switch, it clearly dims the stationary stations and objects in relation to, for example, mobile stations.

Rain Colourmap

Temp Colourmap

Shows a temperature distribution (similar to an isobar map). Shortcut 2x "w". Exit the Colourmap view with ESC or key w again

WX Stations

Show POI

Show All

Add Maptypes

Map directory

Send Message

Opens the message context menu

Animate**Help****Version**

Shows the currently installed version of APRSmap. The letter in brackets indicates the operating system, followed by the version number of the software.

```
aprsm(w) 0.79 by OE5DXL
```

Helptext

Opens the program-internal help context.

[<< Back to DXL - APRSmap overview](#)

DXL - APRSmap operating: Unterschied zwischen den Versionen

Versionsgeschichte interaktiv durchsuchen

VisuellWikitext

Version vom 14. August 2021, 14:42 Uhr
(**Quelltext anzeigen**)

[OE2WAO](#) ([Diskussion](#) | [Beiträge](#))

Markierung: [Visuelle Bearbeitung](#)

[← Zum vorherigen Versionsunterschied](#)

Aktuelle Version vom 14. August 2021, 14:49 Uhr (**Quelltext anzeigen**)

[OE2WAO](#) ([Diskussion](#) | [Beiträge](#))

Markierung: 2017-Quelltext-Bearbeitung

Zeile 81:

*The "0" (zero), ESC and ":" keys often help if you want to have everything displayed again after clicking on the filter or similar.

*"TAB" key toggles between two independent displays, similar to VFO "A" and "B".

==Menus==

Zeile 254:

====Choose Maps====

Zeile 81:

*The "0" (zero), ESC and ":" keys often help if you want to have everything displayed again after clicking on the filter or similar.

*"TAB" key toggles between two independent displays, similar to VFO "A" and "B".

+

==Menus==

Zeile 255:

====Choose Maps====

+

====Reload====

+

====Download====

+

====tiles_quest====

+

====tiles_sat====

+

====tiles_cyclemap [9]====

+

+

=====tiles_topo [8]=====

+

+

=====tiles [7]=====

=====Find=====

Zeile 269:

=====Temp Colourmap=====

Shows a temperature distribution (similar to an isobar map). Shortcut 2x "w". Exit the Colourmap view with ESC or key w again

=====Add Maptypes=====

+

+

=====WX Stations=====

+

+

=====Show POI=====

+

+

=====Show All=====

+

=====Add Maptypes=====

Aktuelle Version vom 14. August 2021, 14:49 Uhr

Inhaltsverzeichnis

1	Program start	19
2	Operation	19
2.1	First steps	19
2.2	Shortcuts	19
2.3	Tips & tricks	20
3	Menus	21
3.1	File	21
3.1.1	Import Log	21
3.1.2	Screenshot	21
3.1.3	Make Video	21

Ausgabe: 29.04.2024

Dieses Dokument wurde erzeugt mit BlueSpice

Seite 16 von 53

3.1.4 Write Log	21
3.1.5 Keep Log Days	22
3.1.6 Quit	22
3.2 Config	22
3.2.1 Brightness	22
3.2.2 Online	22
3.2.2.1 My Call	22
3.2.2.2 My Symbol	23
3.2.2.3 My Position	23
3.2.2.4 Netbeacontext	23
3.2.2.5 Passcode	23
3.2.2.6 Server URL	23
3.2.2.7 Serverfilter	23
3.2.2.8 Connect Server	24
3.2.2.9 Allow TX to NET	24
3.2.2.10 Allow Gate RF>NET	24
3.2.3 RF-Ports	24
3.2.4 Timers	24
3.2.5 Map Parameter	24
3.2.5.1 Show Loc of Mouse	24
3.2.5.2 Trackfilter	24
3.2.5.3 Show Scaler	24
3.2.5.4 Show Windvane	24
3.2.5.5 Show Temp	25
3.2.5.6 Load Map Program	25
3.2.5.7 km/h Text	25
3.2.5.8 Show Altitude min m	25
3.2.5.9 Brightness Notmover	25
3.2.5.10 Reset to Default	25
3.2.6 Map Moving	25
3.2.7 Colours, Font	25
3.2.8 Callfilters	25
3.2.9 Watch Calls	25
3.2.10 Reload Config	25
3.2.11 Save Config	25
3.3 Zoom	25
3.4 Tools	25
3.4.1 Toolbar Off	25
3.4.2 On next Click	26
3.4.3 List	26
3.4.4 Choose Maps	26
3.4.4.1 Reload	26
3.4.4.2 Download	26
3.4.4.3 tiles_quest	26

3.4.4.4 tiles_sat	26
3.4.4.5 tiles_cyclemap [9]	26
3.4.4.6 tiles_topo [8]	26
3.4.4.7 tiles [7]	26
3.4.5 Find	26
3.4.6 Radiolink	26
3.4.7 Select Data	26
3.4.7.1 Symbol	26
3.4.7.2 Dimm Notmover	26
3.4.7.3 Rain Colourmap	26
3.4.7.4 Temp Colourmap	26
3.4.7.5 WX Stations	27
3.4.7.6 Show POI	27
3.4.7.7 Show All	27
3.4.8 Add Maptypes	27
3.4.9 Map directory	27
3.4.10 Send Message	27
3.4.11 Animate	27
3.5 Help	27
3.5.1 Version	27
3.5.2 Helptext	27

Program start

After downloading and saving locally, the **aprsmap.exe** program can be started. A separate installation is not required.

Operation

First steps

APRSmap 1st Start

On the first start of the program it is necessary to do some configuration. The most important things you have to adjust are in the ONLINE menu. You best configure all steps from up till down.

- First of all you put in your callsign (MY CALLSIGN) with optional SSID
- Second step is to choose your desired APRS icon (MY SYMBOL)
- Next you will zoom to your QTH as far as you can, 100% identifying your home (zoom level >16). Then open ONLINE - MY POSITION and point to your home with the cursor. While push and hold the SHIFT key click on your home. The coordinates will be copied into the MY POSITION field. Just click OK to save them.
- Now you can set the SERVER URL by just inserting your favorite APRS IS. Click ADD to save this entry.

for example:

aprs.oe2xzt.ampr.at (APRS IS connection via HAMNET)
austria.aprs2.net (APRS IS connection via Internet)

- You also need to enter a valid APRS PASSCODE to transmit packets to the APRS network (not needed in case of only RX). Just do a internet search on APRS PASSCODE to find a possibility on getting your code.
- Last but not least you have to activate CONNECT SERVER to get data from an to the APRS network.

Shortcuts

Note, shortcut keys are case sensitive!

```
: delete markers
@ reset <On Next Click> to menu mode
a Animate (Click to Map to set Parameters)
b or <Backspace> go back in position history
c Center (to last clicked Pixel)
d toggle (missing) map download
e toggle Errors only/All for stepping along a track with <>
f Junk Filter toggle on/off
h Heard (click symbol or text of igate before)
i Internal Status Listing
l toggle Labels on/off
m toggle dimm not moving since 10min
o toggle Objects/Items on/off
p toggle mouse-over Hints
q Quit Program
```

```

r  toggle Radio tracks on/off
s  toggle show only stations with a selected symbol
u  toggle tx/rx-Monitor window on/off
w  toggle WX stations and Temperature
x  set Marker 1 to mouse position
y  set Marker 2 and Line to Marker 1
B  Open Beacon editor
C  Enter Category of POI to be drawn on map
D  Digi Config open/close
F  Find Call (with wildcards * ?), Locator, Latitude/Longitude
H  Altitude Colour Map (if srtm-Data available)
M  Compose Message
R  toggle Radiorange Map on/off
T  toggle Timestamp
S  Screenshot bpm (win), png (linux)
W  Rain map (use topo or dark map)
< > Step along Beacons/Waypoints of a selected User
( )  Map Brightness +/- 5%
/    zoom to Marker 1-2 Square
\    shortcut list
~    change track colour
+    Zoom in - Zoom out
.    zoom to track and show only this (clicked before)
=    same as . but with radio tracks
0    show all (and radio tracks off)
1,2,3,4 Zoom/Pan to stored Views
7,8,9 use map type as configured
ESC  close menus
Cursor up/down/left/right move map, same as click near margin
SHIFT with up/down/left/right/[zoom+]/[zoom-] in smaller steps
DEL  delete selected (Symbol, Waypoint)
TAB  switch between two Views
ctrl-L Reset Image and Mouse parameters to default
ctrl-V Paste

```

Tips & tricks

- Animation: Click on the track of a moving object (e.g. car) and press the "a" key
- Temperature distribution: Two times "w" (w + w) shows a color distribution of the reported temperatures (sensible min. Zoom level 10 or less)
- The "0" (zero), ESC and ":" keys often help if you want to have everything displayed again after clicking on the filter or similar.
- "TAB" key toggles between two independent displays, similar to VFO "A" and "B".

Menus



In addition to the main menus explained in more detail below, the menu offers further short menus on the right.

N Display or switching of the network status, green means connected, orange means not connected or connection problems. If the mouse pointer is moved over the menu, the connection status appears in the popup
 1-4....Display or switch the UDP port connections
 L display the log file data
 M View the saved messages
 F display or switching of the track filter (incorrect or implausible position packages)
 O display or switch the display of pure objects

By the way, the mouse position display (green bar with coordinates) can be activated in the CONFIG> MAP PARAMETER> SHOW LOC OF MOUSE menu.

File

Import Log

Import a complete logfile.

Screenshot

Save a screenshot in your local user directory, e.g. map1.bmp (Win10 user directories are in the User\AppData folder e.g. C:\Users\User\AppData\Local\VirtualStore\Program Files (x86)\APRSmap)

Make Video

Save a video from e.g. a moving object in .y4m raw video format.

Write Log

Choose the logfile directory.

Keep Log Days

Define the ammount of days logs are kept.

Quit

Exit APRSmap, shortcut key is q.

Config

Brightness

Setting the respective brightness, times and colors.

```
Time Fade Out - time until the display of stations disappears after the time
for display (full brightness) has expired
Time full Bright - time to display received positions
Brightness Waypoint - Brightness of the waypoint points
Brightness Text - Brightness of the station texts
Brightness Symbol - the brightness of the symbols displayed
Gamma - Gamma value setting of the card
Brightness Track - the brightness of the route
Brightness Map - the brightness of the map
Brightness Object - the brightness of the objects displayed
```

Online

The ONLINE area is initially the most important and necessary menu item, which has to be configured individually. Basically, when the program is simply started and a data connection is established, other stations can be receive even without specifying your own callsign, position or APRS passcode (RX only mode). However, in order to act "actively" in the APRS network and to be seen and reached by other stations, this information must be entered accordingly. The *APRS PASScode* must be requested once. To do this, search for "*APRS PASSCODE Generator*" on the Internet.

My Call

Here you enter the callsign to be used, optionally with SSID.

```
(without SSID) Your primary station usually fixed and message capable
-1 generic additional station, digi, mobile, wx, etc
-2 generic additional station, digi, mobile, wx, etc
-3 generic additional station, digi, mobile, wx, etc
-4 generic additional station, digi, mobile, wx, etc
-5 Other networks (Dstar, Iphones, Androids, Blackberry's etc)
-6 Special activity, Satelllite ops, camping or 6 meters, etc
-7 walkie talkies, HT's or other human portable
-8 boats, sailboats, RV's or second main mobile
-9 Primary Mobile (usually message capable)
-10 internet, Igates, echolink, winlink, AVRS, APRN, etc
-11 balloons, aircraft, spacecraft, etc
-12 APRStt, DTMF, RFID, devices, one-way trackers*, etc
-13 Weather stations
-14 Truckers or generally full time drivers
-15 generic additional station, digi, mobile, wx, etc
```

* One-way trackers should best use the -12 one-way SSID indicator because the -9's usually mean a ham in full APRS communication both message and voice. The -9's can be contacted by APRS message or by Voice on his frequency included in his beacon, or on Voice Alert if he is in simplex range. The -12's are just moving Icons on the map and since they have no 2 way communication for ham radio they are not generally of routine interest to other operators.

My Symbol

Self-explanatory

My Position

In order to enter your own position in MY POSITION quickly and without any major search effort, simply go first with the zoom into the MAP (preferably ZOOMLEVEL 17) so that you can clearly see your own position. Then open the CONFIG - ONLINE - MY POSITION item and click the SHIFT key to determine your own position. The coordinates are automatically adopted in the context menu and only need to be confirmed with OK.

Netbeacontext

The text set here is sent as beacon text via the network connection.

Passcode

An APRS PASSCODE is not absolutely necessary for RX, but this code is essential for sending your own data. You can apply for this code online with a waiting period, simply search for APRS IS PASSCODE using the search engine.

Server URL

Any APRS server that provides the data in the correct format can be entered as the server URL.

for example:
aprs.oe2xzt.ampr.at (for connections via HAMNET)
austria.aprs2.net (for connections via Internet)

Another list can be found at <http://www.aprs2.net/serverstats.php>.

The standard port is 14580 and does not have to be specified.

Alternative ports are given after the address:
aprs.server.com:12345

Serverfilter

Suggestion: " **m / 100 p / OE -t / t** "

The position filter is structured as follows [Position] / [Radius] eg " **m / 100** " for displaying data with a radius of 100km around your own position.

" **P / OE** " is used to display all OE stations (e.g. mobile) outside the defined radius filter .

And the mostly unnecessary telemetry traffic is filtered with " **-t / t** ".

TIP

settings relating to the server are only adopted when a new connection is made, for this the server connection can either be disconnected and re-established in the menu bar under "N", or the corresponding server entry can be deactivated and activated under "Config"> "Online"> "Connect Server" .

Connect Server

Activates or deactivates the online connection.

Allow TX to NET

Activates or deactivates the sending of (own) data to the online network.

Allow Gate RF>NET

Activates or deactivates the forwarding of APRS data heard locally via HF in the online network.

RF-Ports

Timers

Map Parameter

Show Loc of Mouse

Activates / deactivates the display of the coordinates, height and distance of the mouse pointer on the map.

Trackfilter

Activates / deactivates the intelligent filter function for incorrect or implausible position data (e.g. long lines across the APRS map; chopping or zik-zak in the track as if the route was driven several times - wheel cap lost - caused by a massive delay from Digis delivered packages)

Show Scaler

Show Windvane

Activates / deactivates the display of the wind vane at weather stations if this value was supplied.

Show Temp

Activates / deactivates the display of the temperature value at weather stations if this has been delivered.

Load Map Program

Deactivates / activates the card loader. Optionally, the loading program can be selected by clicking on the menu, optionally

```
getosm (standard, activates the external program getosm.exe from OE5KRN)  *  
recommended  
start sh map.sh (loading maps in the background)  
sh gm.sh    (for map download from the Internet)  
sh gm-hamnet.sh (for map download from HAMNET)
```

km/h Text

Freely selectable text of the unit for displaying the speed of moving stations. Default "km / h", can be shortened to "km", for example, to save space.

Show Altitude min m

Brightness Notmover

Reset to Default

Map Moving

Colours, Font

Callfilters

Watch Calls

Reload Config

Save Config

Zoom

Tools

Toolbar Off

Deactivates the permanently displayed toolbar. The toolbar can then be opened dynamically with a click on the map.

On next Click

List

Choose Maps

Reload

Download

tiles_quest

tiles_sat

tiles_cyclemap [9]

tiles_topo [8]

tiles [7]

Find

Radiolink

Select Data

Symbol

When the display is activated (marked by * next to SYMBOL) only the selected symbols are displayed. These can be switched on / off by clicking on the respective symbols (multiple selection possible). The entire function can be switched on / off by clicking on the wording SYMBOL.

Dimm Notmover

With the on / off switch, it clearly dims the stationary stations and objects in relation to, for example, mobile stations.

Rain Colourmap

Temp Colourmap

Shows a temperature distribution (similar to an isobar map). Shortcut 2x "w". Exit the Colourmap view with ESC or key w again

WX Stations

Show POI

Show All

Add Maptypes

Map directory

Send Message

Opens the message context menu

Animate**Help****Version**

Shows the currently installed version of APRSmap. The letter in brackets indicates the operating system, followed by the version number of the software.

```
aprsm(w) 0.79 by OE5DXL
```

Helptext

Opens the program-internal help context.

[<< Back to DXL - APRSmap overview](#)

DXL - APRSmap operating: Unterschied zwischen den Versionen

Versionsgeschichte interaktiv durchsuchen
VisuellWikitext

Version vom 14. August 2021, 14:42 Uhr
(**Quelltext anzeigen**)

[OE2WAO](#) ([Diskussion](#) | [Beiträge](#))

Markierung: [Visuelle Bearbeitung](#)

[← Zum vorherigen Versionsunterschied](#)

Aktuelle Version vom 14. August 2021, 14:49 Uhr (**Quelltext anzeigen**)

[OE2WAO](#) ([Diskussion](#) | [Beiträge](#))

Markierung: 2017-Quelltext-Bearbeitung

Zeile 81:

*The "0" (zero), ESC and ":" keys often help if you want to have everything displayed again after clicking on the filter or similar.

*"TAB" key toggles between two independent displays, similar to VFO "A" and "B".

==Menus==

Zeile 254:

====Choose Maps====

Zeile 81:

*The "0" (zero), ESC and ":" keys often help if you want to have everything displayed again after clicking on the filter or similar.

*"TAB" key toggles between two independent displays, similar to VFO "A" and "B".

+

==Menus==

Zeile 255:

====Choose Maps====

+

====Reload====

+

====Download====

+

====tiles_quest====

+

====tiles_sat====

+

====tiles_cyclemap [9]====

+

+

=====tiles_topo [8]=====

+

+

=====tiles [7]=====

=====Find=====

Zeile 269:

=====Temp Colourmap=====

Shows a temperature distribution (similar to an isobar map). Shortcut 2x "w". Exit the Colourmap view with ESC or key w again

=====Add Maptypes=====

+

+

=====WX Stations=====

+

+

=====Show POI=====

+

+

=====Show All=====

+

=====Add Maptypes=====

Aktuelle Version vom 14. August 2021, 14:49 Uhr

Inhaltsverzeichnis

1 Program start 32

2 Operation 32

2.1 First steps 32

2.2 Shortcuts 32

2.3 Tips & tricks 33

3 Menus 34

3.1 File 34

3.1.1 Import Log 34

3.1.2 Screenshot 34

3.1.3 Make Video 34

3.1.4 Write Log	34
3.1.5 Keep Log Days	35
3.1.6 Quit	35
3.2 Config	35
3.2.1 Brightness	35
3.2.2 Online	35
3.2.2.1 My Call	35
3.2.2.2 My Symbol	36
3.2.2.3 My Position	36
3.2.2.4 Netbeacontext	36
3.2.2.5 Passcode	36
3.2.2.6 Server URL	36
3.2.2.7 Serverfilter	36
3.2.2.8 Connect Server	37
3.2.2.9 Allow TX to NET	37
3.2.2.10 Allow Gate RF>NET	37
3.2.3 RF-Ports	37
3.2.4 Timers	37
3.2.5 Map Parameter	37
3.2.5.1 Show Loc of Mouse	37
3.2.5.2 Trackfilter	37
3.2.5.3 Show Scaler	37
3.2.5.4 Show Windvane	37
3.2.5.5 Show Temp	38
3.2.5.6 Load Map Program	38
3.2.5.7 km/h Text	38
3.2.5.8 Show Altitude min m	38
3.2.5.9 Brightness Notmover	38
3.2.5.10 Reset to Default	38
3.2.6 Map Moving	38
3.2.7 Colours, Font	38
3.2.8 Callfilters	38
3.2.9 Watch Calls	38
3.2.10 Reload Config	38
3.2.11 Save Config	38
3.3 Zoom	38
3.4 Tools	38
3.4.1 Toolbar Off	38
3.4.2 On next Click	39
3.4.3 List	39
3.4.4 Choose Maps	39
3.4.4.1 Reload	39
3.4.4.2 Download	39
3.4.4.3 tiles_quest	39

3.4.4.4 tiles_sat	39
3.4.4.5 tiles_cyclemap [9]	39
3.4.4.6 tiles_topo [8]	39
3.4.4.7 tiles [7]	39
3.4.5 Find	39
3.4.6 Radiolink	39
3.4.7 Select Data	39
3.4.7.1 Symbol	39
3.4.7.2 Dimm Notmover	39
3.4.7.3 Rain Colourmap	39
3.4.7.4 Temp Colourmap	39
3.4.7.5 WX Stations	40
3.4.7.6 Show POI	40
3.4.7.7 Show All	40
3.4.8 Add Maptypes	40
3.4.9 Map directory	40
3.4.10 Send Message	40
3.4.11 Animate	40
3.5 Help	40
3.5.1 Version	40
3.5.2 Helptext	40

Program start

After downloading and saving locally, the **aprsmap.exe** program can be started. A separate installation is not required.

Operation

First steps

APRSmap 1st Start

On the first start of the program it is necessary to do some configuration. The most important things you have to adjust are in the ONLINE menu. You best configure all steps from up till down.

- First of all you put in your callsign (MY CALLSIGN) with optional SSID
- Second step is to choose your desired APRS icon (MY SYMBOL)
- Next you will zoom to your QTH as far as you can, 100% identifying your home (zoom level >16). Then open ONLINE - MY POSITION and point to your home with the cursor. While push and hold the SHIFT key click on your home. The coordinates will be copied into the MY POSITION field. Just click OK to save them.
- Now you can set the SERVER URL by just inserting your favorite APRS IS. Click ADD to save this entry.

for example:

aprs.oe2xzt.ampr.at (APRS IS connection via HAMNET)
austria.aprs2.net (APRS IS connection via Internet)

- You also need to enter a valid APRS PASSCODE to transmit packets to the APRS network (not needed in case of only RX). Just do a internet search on APRS PASSCODE to find a possibility on getting your code.
- Last but not least you have to activate CONNECT SERVER to get data from an to the APRS network.

Shortcuts

Note, shortcut keys are case sensitive!

```
: delete markers
@ reset <On Next Click> to menu mode
a Animate (Click to Map to set Parameters)
b or <Backspace> go back in position history
c Center (to last clicked Pixel)
d toggle (missing) map download
e toggle Errors only/All for stepping along a track with <>
f Junk Filter toggle on/off
h Heard (click symbol or text of igate before)
i Internal Status Listing
l toggle Labels on/off
m toggle dimm not moving since 10min
o toggle Objects/Items on/off
p toggle mouse-over Hints
q Quit Program
```



```

r  toggle Radio tracks on/off
s  toggle show only stations with a selected symbol
u  toggle tx/rx-Monitor window on/off
w  toggle WX stations and Temperature
x  set Marker 1 to mouse position
y  set Marker 2 and Line to Marker 1
B  Open Beacon editor
C  Enter Category of POI to be drawn on map
D  Digi Config open/close
F  Find Call (with wildcards * ?), Locator, Latitude/Longitude
H  Altitude Colour Map (if srtm-Data available)
M  Compose Message
R  toggle Radiorange Map on/off
T  toggle Timestamp
S  Screenshot bpm (win), png (linux)
W  Rain map (use topo or dark map)
< > Step along Beacons/Waypoints of a selected User
( )  Map Brightness +/- 5%
/    zoom to Marker 1-2 Square
\    shortcut list
~    change track colour
+    Zoom in - Zoom out
.    zoom to track and show only this (clicked before)
=    same as . but with radio tracks
0    show all (and radio tracks off)
1,2,3,4 Zoom/Pan to stored Views
7,8,9  use map type as configured
ESC    close menus
Cursor up/down/left/right  move map, same as click near margin
SHIFT with up/down/left/right/[zoom+]/[zoom-]  in smaller steps
DEL    delete selected (Symbol, Waypoint)
TAB    switch between two Views
ctrl-L  Reset Image and Mouse parameters to default
ctrl-V  Paste

```

Tips & tricks

- Animation: Click on the track of a moving object (e.g. car) and press the "a" key
- Temperature distribution: Two times "w" (w + w) shows a color distribution of the reported temperatures (sensible min. Zoom level 10 or less)
- The "0" (zero), ESC and ":" keys often help if you want to have everything displayed again after clicking on the filter or similar.
- "TAB" key toggles between two independent displays, similar to VFO "A" and "B".

Menus



In addition to the main menus explained in more detail below, the menu offers further short menus on the right.

N Display or switching of the network status, green means connected, orange means not connected or connection problems. If the mouse pointer is moved over the menu, the connection status appears in the popup
 1-4....Display or switch the UDP port connections
 L display the log file data
 M View the saved messages
 F display or switching of the track filter (incorrect or implausible position packages)
 O display or switch the display of pure objects

By the way, the mouse position display (green bar with coordinates) can be activated in the CONFIG> MAP PARAMETER> SHOW LOC OF MOUSE menu.

File

Import Log

Import a complete logfile.

Screenshot

Save a screenshot in your local user directory, e.g. map1.bmp (Win10 user directories are in the User\AppData folder e.g. C:\Users\User\AppData\Local\VirtualStore\Program Files (x86)\APRSmap)

Make Video

Save a video from e.g. a moving object in .y4m raw video format.

Write Log

Choose the logfile directory.

Keep Log Days

Define the ammount of days logs are kept.

Quit

Exit APRSmap, shortcut key is q.

Config

Brightness

Setting the respective brightness, times and colors.

```
Time Fade Out - time until the display of stations disappears after the time
for display (full brightness) has expired
Time full Bright - time to display received positions
Brightness Waypoint - Brightness of the waypoint points
Brightness Text - Brightness of the station texts
Brightness Symbol - the brightness of the symbols displayed
Gamma - Gamma value setting of the card
Brightness Track - the brightness of the route
Brightness Map - the brightness of the map
Brightness Object - the brightness of the objects displayed
```

Online

The ONLINE area is initially the most important and necessary menu item, which has to be configured individually. Basically, when the program is simply started and a data connection is established, other stations can be receive even without specifying your own callsign, position or APRS passcode (RX only mode). However, in order to act "actively" in the APRS network and to be seen and reached by other stations, this information must be entered accordingly. The *APRS PASScode* must be requested once. To do this, search for "*APRS PASSCODE Generator*" on the Internet.

My Call

Here you enter the callsign to be used, optionally with SSID.

```
(without SSID) Your primary station usually fixed and message capable
-1 generic additional station, digi, mobile, wx, etc
-2 generic additional station, digi, mobile, wx, etc
-3 generic additional station, digi, mobile, wx, etc
-4 generic additional station, digi, mobile, wx, etc
-5 Other networks (Dstar, Iphones, Androids, Blackberry's etc)
-6 Special activity, Satelllite ops, camping or 6 meters, etc
-7 walkie talkies, HT's or other human portable
-8 boats, sailboats, RV's or second main mobile
-9 Primary Mobile (usually message capable)
-10 internet, Igates, echolink, winlink, AVRS, APRN, etc
-11 balloons, aircraft, spacecraft, etc
-12 APRStt, DTMF, RFID, devices, one-way trackers*, etc
-13 Weather stations
-14 Truckers or generally full time drivers
-15 generic additional station, digi, mobile, wx, etc
```

* One-way trackers should best use the -12 one-way SSID indicator because the -9's usually mean a ham in full APRS communication both message and voice. The -9's can be contacted by APRS message or by Voice on his frequency included in his beacon, or on Voice Alert if he is in simplex range. The -12's are just moving Icons on the map and since they have no 2 way communication for ham radio they are not generally of routine interest to other operators.

My Symbol

Self-explanatory

My Position

In order to enter your own position in MY POSITION quickly and without any major search effort, simply go first with the zoom into the MAP (preferably ZOOMLEVEL 17) so that you can clearly see your own position. Then open the CONFIG - ONLINE - MY POSITION item and click the SHIFT key to determine your own position. The coordinates are automatically adopted in the context menu and only need to be confirmed with OK.

Netbeacontext

The text set here is sent as beacon text via the network connection.

Passcode

An APRS PASSCODE is not absolutely necessary for RX, but this code is essential for sending your own data. You can apply for this code online with a waiting period, simply search for APRS IS PASSCODE using the search engine.

Server URL

Any APRS server that provides the data in the correct format can be entered as the server URL.

for example:
aprs.oe2xzt.ampr.at (for connections via HAMNET)
austria.aprs2.net (for connections via Internet)

Another list can be found at <http://www.aprs2.net/serverstats.php>.

The standard port is 14580 and does not have to be specified.

Alternative ports are given after the address:
aprs.server.com:12345

Serverfilter

Suggestion: " **m / 100 p / OE -t / t** "

The position filter is structured as follows [Position] / [Radius] eg " **m / 100** " for displaying data with a radius of 100km around your own position.

" **P / OE** " is used to display all OE stations (e.g. mobile) outside the defined radius filter .

And the mostly unnecessary telemetry traffic is filtered with " **-t / t** ".

TIP

settings relating to the server are only adopted when a new connection is made, for this the server connection can either be disconnected and re-established in the menu bar under "N", or the corresponding server entry can be deactivated and activated under "Config"> "Online"> "Connect Server" .

Connect Server

Activates or deactivates the online connection.

Allow TX to NET

Activates or deactivates the sending of (own) data to the online network.

Allow Gate RF>NET

Activates or deactivates the forwarding of APRS data heard locally via HF in the online network.

RF-Ports

Timers

Map Parameter

Show Loc of Mouse

Activates / deactivates the display of the coordinates, height and distance of the mouse pointer on the map.

Trackfilter

Activates / deactivates the intelligent filter function for incorrect or implausible position data (e.g. long lines across the APRS map; chopping or zik-zak in the track as if the route was driven several times - wheel cap lost - caused by a massive delay from Digis delivered packages)

Show Scaler

Show Windvane

Activates / deactivates the display of the wind vane at weather stations if this value was supplied.

Show Temp

Activates / deactivates the display of the temperature value at weather stations if this has been delivered.

Load Map Program

Deactivates / activates the card loader. Optionally, the loading program can be selected by clicking on the menu, optionally

```
getosm (standard, activates the external program getosm.exe from OE5KRN)  *  
recommended  
start sh map.sh (loading maps in the background)  
sh gm.sh    (for map download from the Internet)  
sh gm-hamnet.sh (for map download from HAMNET)
```

km/h Text

Freely selectable text of the unit for displaying the speed of moving stations. Default "km / h", can be shortened to "km", for example, to save space.

Show Altitude min m

Brightness Notmover

Reset to Default

Map Moving

Colours, Font

Callfilters

Watch Calls

Reload Config

Save Config

Zoom

Tools

Toolbar Off

Deactivates the permanently displayed toolbar. The toolbar can then be opened dynamically with a click on the map.

On next Click

List

Choose Maps

Reload

Download

tiles_quest

tiles_sat

tiles_cyclemap [9]

tiles_topo [8]

tiles [7]

Find

Radiolink

Select Data

Symbol

When the display is activated (marked by * next to SYMBOL) only the selected symbols are displayed. These can be switched on / off by clicking on the respective symbols (multiple selection possible). The entire function can be switched on / off by clicking on the wording SYMBOL.

Dimm Notmover

With the on / off switch, it clearly dims the stationary stations and objects in relation to, for example, mobile stations.

Rain Colourmap

Temp Colourmap

Shows a temperature distribution (similar to an isobar map). Shortcut 2x "w". Exit the Colourmap view with ESC or key w again

WX Stations

Show POI

Show All

Add Maptypes

Map directory

Send Message

Opens the message context menu

Animate**Help****Version**

Shows the currently installed version of APRSmap. The letter in brackets indicates the operating system, followed by the version number of the software.

```
aprsm(w) 0.79 by OE5DXL
```

Helptext

Opens the program-internal help context.

[<< Back to DXL - APRSmap overview](#)

DXL - APRSmap operating: Unterschied zwischen den Versionen

Versionsgeschichte interaktiv durchsuchen
VisuellWikitext

Version vom 14. August 2021, 14:42 Uhr (Quelltext anzeigen)

OE2WAO ([Diskussion](#) | [Beiträge](#))

Markierung: [Visuelle Bearbeitung](#)

← [Zum vorherigen Versionsunterschied](#)

Aktuelle Version vom 14. August 2021, 14:49 Uhr (Quelltext anzeigen)

OE2WAO ([Diskussion](#) | [Beiträge](#))

Markierung: 2017-Quelltext-Bearbeitung

Zeile 81:

*The "0" (zero), ESC and ":" keys often help if you want to have everything displayed again after clicking on the filter or similar.

*"TAB" key toggles between two independent displays, similar to VFO "A" and "B".

==Menus==

Zeile 254:

====Choose Maps====

Zeile 81:

*The "0" (zero), ESC and ":" keys often help if you want to have everything displayed again after clicking on the filter or similar.

*"TAB" key toggles between two independent displays, similar to VFO "A" and "B".

+

==Menus==

Zeile 255:

====Choose Maps====

+

++++=Reload=====

+

++++=Download=====

+

++++=tiles_quest=====

+

++++=tiles_sat=====

+

++++=tiles_cyclemap [9]=====

+

+

=====tiles_topo [8]=====

+

+

=====tiles [7]=====

=====Find=====

Zeile 269:

=====Temp Colourmap=====

Shows a temperature distribution (similar to an isobar map). Shortcut 2x "w". Exit the Colourmap view with ESC or key w again

=====Add Maptypes=====

+

+

=====WX Stations=====

+

+

=====Show POI=====

+

+

=====Show All=====

+

=====Add Maptypes=====

Aktuelle Version vom 14. August 2021, 14:49 Uhr

Inhaltsverzeichnis

1 Program start 45

2 Operation 45

2.1 First steps 45

2.2 Shortcuts 45

2.3 Tips & tricks 46

3 Menus 47

3.1 File 47

3.1.1 Import Log 47

3.1.2 Screenshot 47

3.1.3 Make Video 47

Ausgabe: 29.04.2024

Dieses Dokument wurde erzeugt mit BlueSpice

Seite 42 von 53

3.1.4 Write Log	47
3.1.5 Keep Log Days	48
3.1.6 Quit	48
3.2 Config	48
3.2.1 Brightness	48
3.2.2 Online	48
3.2.2.1 My Call	48
3.2.2.2 My Symbol	49
3.2.2.3 My Position	49
3.2.2.4 Netbeacontext	49
3.2.2.5 Passcode	49
3.2.2.6 Server URL	49
3.2.2.7 Serverfilter	49
3.2.2.8 Connect Server	50
3.2.2.9 Allow TX to NET	50
3.2.2.10 Allow Gate RF>NET	50
3.2.3 RF-Ports	50
3.2.4 Timers	50
3.2.5 Map Parameter	50
3.2.5.1 Show Loc of Mouse	50
3.2.5.2 Trackfilter	50
3.2.5.3 Show Scaler	50
3.2.5.4 Show Windvane	50
3.2.5.5 Show Temp	51
3.2.5.6 Load Map Program	51
3.2.5.7 km/h Text	51
3.2.5.8 Show Altitude min m	51
3.2.5.9 Brightness Notmover	51
3.2.5.10 Reset to Default	51
3.2.6 Map Moving	51
3.2.7 Colours, Font	51
3.2.8 Callfilters	51
3.2.9 Watch Calls	51
3.2.10 Reload Config	51
3.2.11 Save Config	51
3.3 Zoom	51
3.4 Tools	51
3.4.1 Toolbar Off	51
3.4.2 On next Click	52
3.4.3 List	52
3.4.4 Choose Maps	52
3.4.4.1 Reload	52
3.4.4.2 Download	52
3.4.4.3 tiles_quest	52

3.4.4.4 tiles_sat	52
3.4.4.5 tiles_cyclemap [9]	52
3.4.4.6 tiles_topo [8]	52
3.4.4.7 tiles [7]	52
3.4.5 Find	52
3.4.6 Radiolink	52
3.4.7 Select Data	52
3.4.7.1 Symbol	52
3.4.7.2 Dimm Notmover	52
3.4.7.3 Rain Colourmap	52
3.4.7.4 Temp Colourmap	52
3.4.7.5 WX Stations	53
3.4.7.6 Show POI	53
3.4.7.7 Show All	53
3.4.8 Add Maptypes	53
3.4.9 Map directory	53
3.4.10 Send Message	53
3.4.11 Animate	53
3.5 Help	53
3.5.1 Version	53
3.5.2 Helptext	53

Program start

After downloading and saving locally, the **aprsmap.exe** program can be started. A separate installation is not required.

Operation

First steps

APRSmap 1st Start

On the first start of the program it is necessary to do some configuration. The most important things you have to adjust are in the ONLINE menu. You best configure all steps from up till down.

- First of all you put in your callsign (MY CALLSIGN) with optional SSID
- Second step is to choose your desired APRS icon (MY SYMBOL)
- Next you will zoom to your QTH as far as you can, 100% identifying your home (zoom level >16). Then open ONLINE - MY POSITION and point to your home with the cursor. While push and hold the SHIFT key click on your home. The coordinates will be copied into the MY POSITION field. Just click OK to save them.
- Now you can set the SERVER URL by just inserting your favorite APRS IS. Click ADD to save this entry.

for example:

aprs.oe2xzt.ampr.at (APRS IS connection via HAMNET)
austria.aprs2.net (APRS IS connection via Internet)

- You also need to enter a valid APRS PASSCODE to transmit packets to the APRS network (not needed in case of only RX). Just do a internet search on APRS PASSCODE to find a possibility on getting your code.
- Last but not least you have to activate CONNECT SERVER to get data from an to the APRS network.

Shortcuts

Note, shortcut keys are case sensitive!

```
: delete markers
@ reset <On Next Click> to menu mode
a Animate (Click to Map to set Parameters)
b or <Backspace> go back in position history
c Center (to last clicked Pixel)
d toggle (missing) map download
e toggle Errors only/All for stepping along a track with <>
f Junk Filter toggle on/off
h Heard (click symbol or text of igate before)
i Internal Status Listing
l toggle Labels on/off
m toggle dimm not moving since 10min
o toggle Objects/Items on/off
p toggle mouse-over Hints
q Quit Program
```

```

r  toggle Radio tracks on/off
s  toggle show only stations with a selected symbol
u  toggle tx/rx-Monitor window on/off
w  toggle WX stations and Temperature
x  set Marker 1 to mouse position
y  set Marker 2 and Line to Marker 1
B  Open Beacon editor
C  Enter Category of POI to be drawn on map
D  Digi Config open/close
F  Find Call (with wildcards * ?), Locator, Latitude/Longitude
H  Altitude Colour Map (if srtm-Data available)
M  Compose Message
R  toggle Radiorange Map on/off
T  toggle Timestamp
S  Screenshot bpm (win), png (linux)
W  Rain map (use topo or dark map)
< > Step along Beacons/Waypoints of a selected User
( )  Map Brightness +/- 5%
/    zoom to Marker 1-2 Square
\    shortcut list
~    change track colour
+    Zoom in - Zoom out
.    zoom to track and show only this (clicked before)
=    same as . but with radio tracks
0    show all (and radio tracks off)
1,2,3,4 Zoom/Pan to stored Views
7,8,9  use map type as configured
ESC    close menus
Cursor up/down/left/right  move map, same as click near margin
SHIFT with up/down/left/right/[zoom+]/[zoom-]  in smaller steps
DEL    delete selected (Symbol, Waypoint)
TAB    switch between two Views
ctrl-L  Reset Image and Mouse parameters to default
ctrl-V  Paste

```

Tips & tricks

- Animation: Click on the track of a moving object (e.g. car) and press the "a" key
- Temperature distribution: Two times "w" (w + w) shows a color distribution of the reported temperatures (sensible min. Zoom level 10 or less)
- The "0" (zero), ESC and ":" keys often help if you want to have everything displayed again after clicking on the filter or similar.
- "TAB" key toggles between two independent displays, similar to VFO "A" and "B".

Menus



In addition to the main menus explained in more detail below, the menu offers further short menus on the right.

N Display or switching of the network status, green means connected, orange means not connected or connection problems. If the mouse pointer is moved over the menu, the connection status appears in the popup
 1-4....Display or switch the UDP port connections
 L display the log file data
 M View the saved messages
 F display or switching of the track filter (incorrect or implausible position packages)
 O display or switch the display of pure objects

By the way, the mouse position display (green bar with coordinates) can be activated in the CONFIG> MAP PARAMETER> SHOW LOC OF MOUSE menu.

File

Import Log

Import a complete logfile.

Screenshot

Save a screenshot in your local user directory, e.g. map1.bmp (Win10 user directories are in the User\AppData folder e.g. C:\Users\User\AppData\Local\VirtualStore\Program Files (x86)\APRSmap)

Make Video

Save a video from e.g. a moving object in .y4m raw video format.

Write Log

Choose the logfile directory.

Keep Log Days

Define the ammount of days logs are kept.

Quit

Exit APRSmap, shortcut key is q.

Config

Brightness

Setting the respective brightness, times and colors.

```
Time Fade Out - time until the display of stations disappears after the time
for display (full brightness) has expired
Time full Bright - time to display received positions
Brightness Waypoint - Brightness of the waypoint points
Brightness Text - Brightness of the station texts
Brightness Symbol - the brightness of the symbols displayed
Gamma - Gamma value setting of the card
Brightness Track - the brightness of the route
Brightness Map - the brightness of the map
Brightness Object - the brightness of the objects displayed
```

Online

The ONLINE area is initially the most important and necessary menu item, which has to be configured individually. Basically, when the program is simply started and a data connection is established, other stations can be receive even without specifying your own callsign, position or APRS passcode (RX only mode). However, in order to act "actively" in the APRS network and to be seen and reached by other stations, this information must be entered accordingly. The *APRS PASScode* must be requested once. To do this, search for "*APRS PASSCODE Generator*" on the Internet.

My Call

Here you enter the callsign to be used, optionally with SSID.

```
(without SSID) Your primary station usually fixed and message capable
-1 generic additional station, digi, mobile, wx, etc
-2 generic additional station, digi, mobile, wx, etc
-3 generic additional station, digi, mobile, wx, etc
-4 generic additional station, digi, mobile, wx, etc
-5 Other networks (Dstar, Iphones, Androids, Blackberry's etc)
-6 Special activity, Satelllite ops, camping or 6 meters, etc
-7 walkie talkies, HT's or other human portable
-8 boats, sailboats, RV's or second main mobile
-9 Primary Mobile (usually message capable)
-10 internet, Igates, echolink, winlink, AVRS, APRN, etc
-11 balloons, aircraft, spacecraft, etc
-12 APRStt, DTMF, RFID, devices, one-way trackers*, etc
-13 Weather stations
-14 Truckers or generally full time drivers
-15 generic additional station, digi, mobile, wx, etc
```


* One-way trackers should best use the -12 one-way SSID indicator because the -9's usually mean a ham in full APRS communication both message and voice. The -9's can be contacted by APRS message or by Voice on his frequency included in his beacon, or on Voice Alert if he is in simplex range. The -12's are just moving Icons on the map and since they have no 2 way communication for ham radio they are not generally of routine interest to other operators.

My Symbol

Self-explanatory

My Position

In order to enter your own position in MY POSITION quickly and without any major search effort, simply go first with the zoom into the MAP (preferably ZOOMLEVEL 17) so that you can clearly see your own position. Then open the CONFIG - ONLINE - MY POSITION item and click the SHIFT key to determine your own position. The coordinates are automatically adopted in the context menu and only need to be confirmed with OK.

Netbeacontext

The text set here is sent as beacon text via the network connection.

Passcode

An APRS PASSCODE is not absolutely necessary for RX, but this code is essential for sending your own data. You can apply for this code online with a waiting period, simply search for APRS IS PASSCODE using the search engine.

Server URL

Any APRS server that provides the data in the correct format can be entered as the server URL.

for example:
aprs.oe2xzt.ampr.at (for connections via HAMNET)
austria.aprs2.net (for connections via Internet)

Another list can be found at <http://www.aprs2.net/serverstats.php>.

The standard port is 14580 and does not have to be specified.

Alternative ports are given after the address:
aprs.server.com:12345

Serverfilter

Suggestion: " **m / 100 p / OE -t / t** "

The position filter is structured as follows [Position] / [Radius] eg " **m / 100** " for displaying data with a radius of 100km around your own position.

" **P / OE** " is used to display all OE stations (e.g. mobile) outside the defined radius filter .

And the mostly unnecessary telemetry traffic is filtered with " **-t / t** ".

TIP

settings relating to the server are only adopted when a new connection is made, for this the server connection can either be disconnected and re-established in the menu bar under "N", or the corresponding server entry can be deactivated and activated under "Config"> "Online"> "Connect Server" .

Connect Server

Activates or deactivates the online connection.

Allow TX to NET

Activates or deactivates the sending of (own) data to the online network.

Allow Gate RF>NET

Activates or deactivates the forwarding of APRS data heard locally via HF in the online network.

RF-Ports

Timers

Map Parameter

Show Loc of Mouse

Activates / deactivates the display of the coordinates, height and distance of the mouse pointer on the map.

Trackfilter

Activates / deactivates the intelligent filter function for incorrect or implausible position data (e.g. long lines across the APRS map; chopping or zik-zak in the track as if the route was driven several times - wheel cap lost - caused by a massive delay from Digis delivered packages)

Show Scaler

Show Windvane

Activates / deactivates the display of the wind vane at weather stations if this value was supplied.

Show Temp

Activates / deactivates the display of the temperature value at weather stations if this has been delivered.

Load Map Program

Deactivates / activates the card loader. Optionally, the loading program can be selected by clicking on the menu, optionally

```
getosm (standard, activates the external program getosm.exe from OE5KRN)  *  
recommended  
start sh map.sh (loading maps in the background)  
sh gm.sh (for map download from the Internet)  
sh gm-hamnet.sh (for map download from HAMNET)
```

km/h Text

Freely selectable text of the unit for displaying the speed of moving stations. Default "km / h", can be shortened to "km", for example, to save space.

Show Altitude min m

Brightness Notmover

Reset to Default

Map Moving

Colours, Font

Callfilters

Watch Calls

Reload Config

Save Config

Zoom

Tools

Toolbar Off

Deactivates the permanently displayed toolbar. The toolbar can then be opened dynamically with a click on the map.

On next Click

List

Choose Maps

Reload

Download

tiles_quest

tiles_sat

tiles_cyclemap [9]

tiles_topo [8]

tiles [7]

Find

Radiolink

Select Data

Symbol

When the display is activated (marked by * next to SYMBOL) only the selected symbols are displayed. These can be switched on / off by clicking on the respective symbols (multiple selection possible). The entire function can be switched on / off by clicking on the wording SYMBOL.

Dimm Notmover

With the on / off switch, it clearly dims the stationary stations and objects in relation to, for example, mobile stations.

Rain Colourmap

Temp Colourmap

Shows a temperature distribution (similar to an isobar map). Shortcut 2x "w". Exit the Colourmap view with ESC or key w again

WX Stations

Show POI

Show All

Add Maptypes

Map directory

Send Message

Opens the message context menu

Animate

Help**Version**

Shows the currently installed version of APRSmap. The letter in brackets indicates the operating system, followed by the version number of the software.

```
aprsm(w) 0.79 by OE5DXL
```

Helptext

Opens the program-internal help context.

[<< Back to DXL - APRSmap overview](#)