

Inhaltsverzeichnis

1. DXL - APRSmap operating	2
2. DXL - APRSmap englisch	13

DXL - APRSmap operating

Inhaltsverzeichnis

1 Program start	3
2 Operation	3
2.1 First steps	3
2.2 Shortcuts	4
2.3 Tips & tricks	5
3 Menus	5
3.1 File	5
3.1.1 Import Log	5
3.1.2 Screenshot	6
3.1.3 Make Video	6
3.1.4 Write Log	6
3.1.5 Keep Log Days	6
3.1.6 Quit	6
3.2 Config	6
3.2.1 Brightness	6
3.2.2 Online	6
3.2.2.1 My Call	7
3.2.2.2 My Symbol	7
3.2.2.3 My Position	7
3.2.2.4 Netbeacontext	7
3.2.2.5 Passcode	7
3.2.2.6 Server URL	8
3.2.2.7 Serverfilter	8
3.2.2.8 Connect Server	8
3.2.2.9 Allow TX to NET	8
3.2.2.10 Allow Gate RF>NET	8
3.2.3 RF-Ports	9
3.2.4 Timers	9
3.2.5 Map Parameter	9
3.2.5.1 Show Loc of Mouse	9
3.2.5.2 Trackfilter	9
3.2.5.3 Show Scaler	9
3.2.5.4 Show Windvane	9
3.2.5.5 Show Temp	9
3.2.5.6 Load Map Program	9
3.2.5.7 km/h Text	9
3.2.5.8 Show Altitude min m	10
3.2.5.9 Brightness Notmover	10
3.2.5.10 Reset to Default	10
3.2.6 Map Moving	10
3.2.7 Colours, Font	10
3.2.8 Callfilters	10

3.2.9 Watch Calls	10
3.2.10 Reload Config	10
3.2.11 Save Config	10
3.3 Zoom	10
3.4 Tools	10
3.4.1 Toolbar Off	10
3.4.2 On next Click	11
3.4.3 List	11
3.4.4 Choose Maps	11
3.4.5 Find	11
3.4.6 Radiolink	11
3.4.7 Select Data	11
3.4.7.1 Symbol	11
3.4.7.2 Dimm Notmover	11
3.4.7.3 Rain Colourmap	11
3.4.7.4 Temp Colourmap	11
3.4.8 Add Maptypes	11
3.4.9 Map directory	11
3.4.10 Send Message	11
3.4.11 Animate	12
3.5 Help	12
3.5.1 Version	12
3.5.2 Helptext	12

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 bmp (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
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 package)
0 .... 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 (
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, Satellite 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
The -9's can be contacted by APRS message or by Voice on his frequency included in his bea
The -12's are just moving Icons on the map and since they have no 2 way communication for

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

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

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.

```
aprsmap(w) 0.79 by OE5DXL
```

Helptext

Opens the program-internal help context.

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

DXL - APRSmap operating

Inhaltsverzeichnis

1 Program start	14
2 Operation	14
2.1 First steps	14
2.2 Shortcuts	15
2.3 Tips & tricks	16
3 Menus	16
3.1 File	16
3.1.1 Import Log	16
3.1.2 Screenshot	17
3.1.3 Make Video	17
3.1.4 Write Log	17
3.1.5 Keep Log Days	17
3.1.6 Quit	17
3.2 Config	17
3.2.1 Brightness	17
3.2.2 Online	17
3.2.2.1 My Call	18
3.2.2.2 My Symbol	18
3.2.2.3 My Position	18
3.2.2.4 Netbeacontext	18
3.2.2.5 Passcode	18
3.2.2.6 Server URL	19
3.2.2.7 Serverfilter	19
3.2.2.8 Connect Server	19
3.2.2.9 Allow TX to NET	19
3.2.2.10 Allow Gate RF>NET	19
3.2.3 RF-Ports	20
3.2.4 Timers	20
3.2.5 Map Parameter	20
3.2.5.1 Show Loc of Mouse	20
3.2.5.2 Trackfilter	20
3.2.5.3 Show Scaler	20
3.2.5.4 Show Windvane	20
3.2.5.5 Show Temp	20
3.2.5.6 Load Map Program	20
3.2.5.7 km/h Text	20
3.2.5.8 Show Altitude min m	21
3.2.5.9 Brightness Notmover	21
3.2.5.10 Reset to Default	21
3.2.6 Map Moving	21
3.2.7 Colours, Font	21
3.2.8 Callfilters	21

3.2.9 Watch Calls	21
3.2.10 Reload Config	21
3.2.11 Save Config	21
3.3 Zoom	21
3.4 Tools	21
3.4.1 Toolbar Off	21
3.4.2 On next Click	22
3.4.3 List	22
3.4.4 Choose Maps	22
3.4.5 Find	22
3.4.6 Radiolink	22
3.4.7 Select Data	22
3.4.7.1 Symbol	22
3.4.7.2 Dimm Notmover	22
3.4.7.3 Rain Colourmap	22
3.4.7.4 Temp Colourmap	22
3.4.8 Add Maptypes	22
3.4.9 Map directory	22
3.4.10 Send Message	22
3.4.11 Animate	23
3.5 Help	23
3.5.1 Version	23
3.5.2 Helptext	23

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- Now you can set the SERVER URL by just inserting your favorite APRS IS. Click ADD to save this entry.

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for example:  
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- 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.
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x set Marker 1 to mouse position  
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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 bmp (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  
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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)
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```
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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 amount 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 (
Time full Bright - time to display received positions
Brightness Waypoint - Brightness of the waypoint points
Brightness Text - Brightness of the station texts
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Gamma - Gamma value setting of the card
Brightness Track - the brightness of the route
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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.

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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
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- 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)
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* One-way trackers should best use the -12 one-way SSID indicator because the -9's usually can be contacted by APRS message or by Voice on his frequency included in his beacon. The -9's can be contacted by APRS message or by Voice on his frequency included in his beacon. The -12's are just moving Icons on the map and since they have no 2 way communication for

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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.

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

```
for example:  
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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

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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

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

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](#)