You are here / ⌂ / service number

SMS service numbers in the BM network

262993 - GPS and weather

Send an SMS with the respective command to **262993**

All commands must be sent as a private message. Uppercase / lowercase is not considered, so you can **WX** or **wx** or also **Wx** write.

All times in the SMS are UTC times.

Help system

```
help
```

Send you an SMS with the various existing functions.

Echo function

```
echo
```

With the command **echo** you can test whether the SMS function is set correctly. If an SMS comes back, everything fits. Of course you can also use the command **help** test.

Weather function

```
wx
```

- Current weather about the location of the repeater, provided that the SysOp has entered the coordinates or has entered the name vos location

```
wx help
```

- Overview of all commands for „ normal " weather query

- available commands:

```
wx town
wx zip town
wx zip, cc
wx Town, cc
wx zip town, cc
```

Examples

```
wx Moore's wort
wx 23730 Neustadt
wx 16766, de
wx Melbourne, au
wx Melbourne, us
wx 82272 Moorenweis, de
```

where town is the name of the city, zip the zip code, and „ cc " the 2-digit international country code. http://laendercode.net/de/countries.html (http://laendercode.net/de/countries.html)

example

> Hi Jens,
> Weather for Moorenweis
> Clear: clear sky
> Temp: 27.24 C
> Humidity: 50
> Pressure: 1013 hPa
> Wind: 5.1 km / h
> Out of: 130

In many cases, the city name should be sufficient. If the place name exists several times, you can still be lucky that the right place will be returned. You are on the safe side if the postcode and country code are also given in addition to the city name.

It is then a good idea to create SMS templates (Quick Text) so that you don't have to write the entire text again and again if you query places more often.

Weather based on the GPS position

```
WX GPS
```

- if a GPS position has been sent, the weather is sent for the last transmitted position

PS: instead of „ WX " you can always write „ WEATHER "

METAR weather

or called airfield weather

https://de.wikipedia.org/wiki/METAR (https://de.wikipedia.org/wiki/METAR)

Should the message come here that no data has been found

> No METAR available for XXXX or the report is older than 2 hours.

then this may be due to the fact that the airfield has not generated a report within the last 2 hours.

```
METAR xxxx
```

where **xxxx** the **ICAO code** of the airfield

Info ICAO code

https://de.wikipedia.org/wiki/ICAO-Code (https://de.wikipedia.org/wiki/ICAO-Code)

ICAO code search

https://www.notams.faa.gov/common/icao/ (https://www.notams.faa.gov/common/icao/)

Example for Munich

```
METAR EDDM
```

SMS content:

> Hi Jens,
> METAR for EDDM:
> EDDM 211420Z 10010KT 060V130 CAVOK 28/13 Q1013 NOSIG
> EDDM 211350Z 09010KT 030V120 CAVOK 28/13 Q1013 NOSIG
> EDDM 211320Z 08011KT 040V110 CAVOK 28/13 Q1013 NOSIG

Example for Hanover

```
METAR EDDV
```

SMS content:

> Hi Jens,
> METAR for EDDV:
> EDDV 211450Z 27004KT 230V340 CAVOK 24/12 Q1014 NOSIG
> EDDV 211420Z 32005KT 280V010 CAVOK 23/13 Q1014 NOSIG
> EDDV 211350Z VRB02KT CAVOK 23/13 Q1014 NOSIG
> EDDV 211320Z VRB02KT CAVOK 23/11 Q1015 NOSIG

```
METAR HELP
```

Provides an overview of all commands for METAR weather queries

GPS productions

– > these only work if a valid position has also been transmitted to the SysOp that has entered the position of the repeater or. the OM to be tracked has sent a valid position.

```
GPS HELP
```

- Overview of GPS commands

```
GPS
```

- current position in LAT LONG and also as „ normal " location - Direction and distance to the repeater through which the last position was reported

example

> Hi Jens,
> Your last report
> Time: 07/21/2017 - 15:10:17
> N48.08683
> E11.281484
> Course: 289
> Address:
> Unnamed Road, 82234 Weßling, Germany
> Repeater: DB0RTA
> Direction: NE / 50 °
> Distance: 4.14 km

```
GPS SET
```

- saves the last transmitted position as a home point

```
GPS HOME
```

- shows the direction and distance to the home point; if you send your position out of motion, then it is also displayed in which direction you have to turn to get to the home point

Example:

Hi Jens,
Your Home Point is located
S / 198 °
0.01 km
turn left 161 °

Your last position:
07/21/2017
15:28:11
N48.086803
E11.282365
Course: 359

```
GPS CallSign
```

e.g.

```
GPS DK5RAS
```

- shows the direction and distance to the CallSign (if the OM and you have sent a position yourself)
– > if you send your position from the movement, it also shows in which direction you have to turn to get to the OM
- If the OM should send several positions from different DMRids, the last position sent is always used
- Furthermore, the LAT LONG coordinates of the OM and the „ normal " address are displayed

example

Hi Jens,
DK5RAS is located
N / 355 °
181.85 km
turn left 99 °

N49.716278
E11.070231

Am Stahl, 91301 Forchheim, Germany

reported at:
07/21/2017
14:11:32

```
GPS RPT
```

With this function you get an SMS with the 5 closest repeaters including frequency and distance around your last GPS position if the repeater has a position in the Brandmeister database.

```
POS
```

This function is actually only interesting for Motorola devices with GPS. In contrast to Hytera, Motorola does not support manual transmission of the current position via the device Position at Motorola is always queried by the network. We can have this query carried out manually with an SMS with the text POS. This is e.g. interesting if you wants to transmit a certain position without having to wait for the poll through the network. The query also works for Hytera, but there it makes no sense because you can send the position manually over the device. In Chinese devices, one would have to test which devices the query works for.

APRS

If you don't have a TRX with GPS but you still want to send your position to APRS.fi, e.g. Communicate your position to friends OMs so you can use the APRS SMS function. Only the specified position is transmitted without specifying the height, direction and / or speed.

Format:

```
APRS LAT LONG
```

Example:

```
APRS 51.123 11.456
```

Here you can e.g. determine his position https://www.latlong.net (https://www.latlong.net)

1 space between the parameters The LAT LONG position must be entered in decimal format (with dot)

With this SMS function you will not receive a confirmation SMS.

RSSI

Format:

```
RSSI
```

Every now and then it may be helpful to know how to get to the repeater, but what to do if you don't have an internet / cell phone with you to check the DashBoard ? Quite simply, in this case you make e.g. a call via the echo function (262997 private call) or you use the normal reflector query (5000) so as not to unnecessarily disturb other OMs on routed TGs.

Then you send an SMS with the text RSSI to 262993 and get your report back (in S-steps) via SMS, provided the repeater supports RSSI.

INFO

With this function you can display the DMRids as a call sign, including the last activity. This is e.g. helpful if you have talked to the Ralph DK5RAS, would like to send him an SMS but there is no way to go known ways to determine.

Format:

```
INFO call
```

Example:

```
INFO DK5RAS
```

Special SMS configuration

There is now an SMS configuration for the Brandmeister service number 262993 to get the AnyTone SMS problem under control.

The following options are currently available, all start with CONFIG and there is only 1 space between the parameters and without spaces at the beginning or at the end

- CONFIG ⇒ have the current config sent to you
- CONFIG ON ⇒ Activate special config, now your settings apply
- CONFIG OFF ⇒ Deactivate special config, so the projects apply again as before
- CONFIG DELAY 10 ⇒ sets the SMS delay to 10 seconds, so you get the answer delayed 10 seconds ⇒ valid values are 1 - 10 here (only whole numbers)

Planned but not yet implemented

- CONFIG SHORT
- CONFIG LONG

this activates or deactivates a short response SMS, this later contains less information or 2 SMS are sent.

262994 - Repeater query / POCSAG / dapnet

Send an SMS with the respective command to **262994**

Repeater query

```
rpt
```

Send you an SMS with the static and dynamic talk groups configured on the repeater

Pager message

```
Call message
```

Example:

```
DK5RTA hello test 124
```

This allows short messages to be sent to an AFU pager. If you want to take a deeper look at it, you can find a lot of information on the website of RWTH Aachen (https://www.afu.rwth-aachen.de/projekte/funkruf-pager-pocsag/funkrufmaster-2-0-dapnet).

The BrandMeister network has had an interface to this paging system since January 2017. Robert (DK5RTA) pushed the idea forward and, together with Rudy and Denis as master server connoisseurs, then also tested it and implemented it for practical use.

How it works is very simple: You send a TMS / SMS message to 262994 (the POCSAG gateway number) with the DMR device. The text begins with the recipient call sign, followed by the message text. For example, a message to 262994 with the content „ DK5RAS This is a pro profession ". The paging is then set to 439.9875 MHz (Megahertz) broadcast if the receiver has a paging receiver and has also linked its ID / RIC to its callsign.

262995 - SMSC

- All queries are to be sent as private calls to 262995. - Upper / lower case need not be considered. - there is only 1 space between the individual points of a query. - Information in pointed < brackets > is placeholders for parameters, these brackets must not be sent. - Unfortunately, some China devices (e.g. Anytone or RT3) cannot receive long text messages and may only display parts of the message or ignore the message completely. Furthermore, e.g. the AnyTone also has problems receiving SMS, while the HangTime is still active after sending an SMS. For this and for shortened SMS there is the possibility to activate a „ Special Configuration ". (see point 10)

0. ECHO – function test

```
Format / example: ECHO
```

With the ECHO function you can test whether the SMS sending / receiving works correctly. If an SMS comes back everything is OK, no SMS comes back, you do not need to test the other functions (with the exception of the „ Special Configuration "), because these will most likely not work either.

The answer can look like this:

Hi Jens, SMS was received by the system.

If no response SMS arrives and the settings in the SelfCare brand master and in the TRX are correct, please configure the „ Special Configuration " described under point 10 of these instructions.

1. Write SMS

```
Format: < CALLS > < Message >
Example: DK5RAS This is a test
```

To write someone an SMS, you start with the call sign, followed by a space, and then write your desired message.

Since some TRX such as the AnyTone or the RT3 have problems with longer SMS, you should make sure that the message is not too long.

In general, SMS, which contain more than 256 characters, are shortened to 256 characters. You can also optionally activate the reduction to 127 characters. (more on this under point 10 at the end of the instructions)

In addition to your call, the recipient is also informed of the send time of the SMS, so these characters must still be deducted from the actual message.

If the recipient calls the SMS on the same day or is sent to it, then there is no date.

DO1JG (23:06) This is a test

If the SMS is only delivered the next day or later, the SMS also contains a date and is therefore a few characters longer.

SMS from the same year DO1JG (30.08. - 17:50) This is a test

SMS from a past year DO1JG (30.08.2018 - 17:50) This is a test

This means that the header in case 24 or. Is 28 characters (line break is 2 characters), and in the case of a 6-digit call sign 25 or. 29 characters.

Since e.g. that AnyTone can only receive 127 characters, you should limit its actual message to 98 characters if possible.

After sending your SMS, the system receives a confirmation that the SMS has been saved in the system.

Your SMS to DO1JG has been stored in the system.

If the send confirmation via SMS is not desired, you can also deactivate it

```
Format: SEND < ON | OFF >
Disable: SEND OFF
Activate: SEND ON
```

2nd. Receive SMS

There are various options here: - automatic delivery, - notification that SMS have been received and - manual retrieval.

Requirements:

The radio ARS (Motorola) or. Have RRS (Hytera) activated or regularly send the GPS position.

Here, new SMS is checked when the device communicates with the BrandMeister system via the IDs xxx999 (e.g. 262999) or 5057.

When notifying or automatically delivering, however, there is also the possibility that SMS „ will be lost " if e.g. after communication with the system IDs the time slot is blocked by other traffic or the reception is gone or bad.

Another automatic delivery or. Notification is not given, but the SMS are not lost and can still be called up manually.

2.1 SMS notification:

By default, the option „ SMS notification " is activated, which informs via SMS about the number of new SMS available in the INBOX. (For requirements see previous point)

You have 5 new SMS in your INBOX. Send INBOX to 262995 to get a list or send GET to receive all SMS.

The number of new SMS in this notification relates to SMS that has not yet been informed. If another SMS were added now, you would only be informed about 1 new SMS in the next notification.

The advantage of this system is that you can first make room in the SMS memory from the radio and not unexpectedly receive a lot of SMS at once.

2.2 Automatic delivery:

Automatic delivery is deactivated by default, but can be activated with the following code or deactivated later.

```
Format: DIRECT < ON | OFF >
Switch on: DIRECT ON
Switch off: DIRECT OFF
```

As soon as this function has been activated, the SMS is delivered immediately under the above conditions. The SMS is not deleted by the system during delivery and can therefore be queried again later.

The advantage of this system is obvious, you do not have to make any further queries to receive the SMS. The disadvantage is that you can get so many SMS at once, and at least the AnyTone has problems with this (does not receive all SMS or reboot).

Here everyone has to decide which system is more suitable. With Hytera or. Motorola devices and if you don't expect a lot of SMS, it makes sense to activate the automatic delivery.

Nevertheless, you should query your INBOX regularly (see below), since SMS can be lost at all.

2.3 Manual query:

No matter which option you have chosen, you can always query the SMS manually.

```
Format / example: INBOX
```

With the command INBOX (or IN for short) you get a list of all SMS available in the INBOX via SMS. The list is numbered and the latest SMS is always displayed in the first place.

A possible answer can look like this:

You have 9 SMS in your INBOX 1. DO1JG (23:06) 2nd. DO1JG (22:27) 3rd. DO1JG (22:21) 4th. DO1JG (30.08.2018 - 17:50) 5. DO1JG (08/30/2018 - 5:46 pm) 6. DO1JG (08/30/2018 - 13:59) 7. DO1JG (08/30/2018 - 05:12) 8th. DO1JG (08/30/2018 - 03:42) 9. DO1JG (08/30/2018 - 03:41)

This answer would be e.g. 268 characters long and would therefore no longer be displayed or incorrectly on the problem devices, and even Motorola and Hytera devices would no longer display everything here. For this reason, SMS that are longer than 256 characters are generally shortened to 256 characters. As already mentioned above, you can optionally activate the reduction to 127 characters. It is therefore always advisable to regularly delete your SMS from the INBOX (see below).

2.3.1 Query of all SMS at once:

```
Format / example: ALL
```

With the command ALL or alternatively GET you can have all SMS available in the INBOX sent to you. As already mentioned above, it should be noted that not all devices can process the possibly high number of SMS in quick succession.

The SMS are not deleted from the system by the query and can be queried again if e.g. some SMS were not received.

2.3.2 Query of a specific SMS:

```
Format: GET < NUMBER >
Switch on: GET 4
```

With the GET command, alternatively also READ, you can query a certain SMS. The < NUMBER >, i.e. the number of the SMS, is the number that precedes the SMS when the INBOX query is made.

It should be noted that the number is not a number assigned to the SMS, but is always the serial number in the INBOX. If you delete an SMS in the middle of the list, the following SMS slide forward and thus receive a new number.

This function is e.g. interesting for devices that cannot process all SMS at once. With GET 1 you can e.g. always query the latest SMS.

3rd. delete SMS

There are two options here, one for deleting all SMS in the INBOX and one for deleting a selected SMS.

3.1 Delete all SMS:

```
Format / example: DELETE
```

With the command DELETE, alternatively DEL, you can delete all SMS in the INBOX at once. Once you have retrieved the SMS, it is advisable to send this command every time to keep the INBOX clean,

Answer:

All SMS to you has been deleted.

3.2. Delete a specific SMS:

```
Format: DELETE < NUMBER >
Switch on: DELETE 4
```

With the command DELETE < NUMBER >, alternatively also DEL < NUMBER >, you can delete a certain SMS. The < NUMBER >, i.e. the number of the SMS, is the number that precedes the SMS when the INBOX is queried.

It should be noted that the number is not a number assigned to the SMS, but is always the serial number in the INBOX. If you delete an SMS in the middle of the list, the following SMS slide forward and thus receive a new number.

Answer:

SMS has been deleted.

4th - 9th. Wildcard

Reserved for later functions.

10. „ Special Configuration ":

The „ Special Configuration " is also valid for number 262993. The commands of the „ Special Configuration " can therefore also be sent to the 262993.

10.1 Query of the current configuration:

```
Format / example: CONFIG
```

If you only send the CONFIG command, the current „ Special Configuration " is sent as SMS. If you do not receive an SMS here, this is an indication that you should activate the „ Special Configuration ".

10.2 „ Special Configuration " on or off:

```
Format: CONFIG < ON | OFF >
Switch on: CONFIG ON
Switch off: CONFIG OFF
```

The „ Special Configuration " can be switched on or off as required or used device. The settings are only taken into account if the configuration is activated.

10.3 SMS length for reception:

```
Format: CONFIG < SHORT | LONG >
Shorten received SMS to 127 characters: CONFIG SHORT
Shorten received SMS to 256 characters: CONFIG LONG
```

AnyTone or RT3 users are strongly advised to activate the SHORT option, and of course also the „ Special Configuration ".

10.4 Transmission / reception delay:

```
Format: CONFIG DELAY < 1-10 >
8 second delay: CONFIG DELAY 8
```

The send / receive delay (minimum 1 second and a maximum of 10 seconds, only whole numbers) is the time that passes before the system responds after receiving a sent SMS.

By default, this time is set to 2.5 seconds.

At the moment the AnyTone still has the error that it sometimes does not receive SMS within the active HangTime after sending an SMS. Values between 7 and 10 have proven helpful here.

10.5 Reset configuration:

```
Format / example: CONFIG RESET
```

With the CONFIG RESET command, the „ Special Configuration " can be reset to the standard values of the system. The „ Special Configuration " is also deactivated.