

Table with the current status of the EVN stations for the continuous calibration (band dependent)

**Current status of the continuous calibration implementation at the stations**

	L Band	C band	M band	X band	K band	Q band	Last updated
Ar							
Bd							
Ef	Available	Available	Available	Available	Available	Available	18-06-2015
Hh	Available	Not yet	Not yet	Not yet	Not yet	N/A	04-05-2020
Jb	80 Hz	80 Hz	80 Hz	-	80 Hz	-	04-04-2019
KVN	-	-	-	-	No	No	10-06-2015
Mc	Available	Available	Available	Available	Available	-	2-04-2019
Mh	-	-	-	No	Available	No	10-04-2019
Nt	Available	Available	Available	Available	Available	Available	05-05-2020
On	Available	Available	Available	Available	No	No	11-07-2018
Ro	Available 10Hz	N/A	N/A	Available 10Hz	Not yet	Not yet	3-10-2017
Sr	Available		Available		Available		22-01-2021
T6	Available	Available	Available	Available	Available	Not yet	6-5-2021
Tr	Available	Available	Available		Available		6-03.2019
Sh							
Sv							
Ur							
Wb	not going to implement on	not going to implement on	not going to implement on	not going to implement on			29-01-2019

	current Receiver because too much effort	current Receiver because too much effort	current Receiver because too much effort	current Receiver because too much effort			
Ys	-	80 Hz	80 Hz	80 Hz	not tested	No	5-06-2015
Zc							
Ir	Not yet	Not yet	Not yet	Not yet	N/A	N/A	6-11-2019

- The DBBC allows to detect synchronously an 80 Hz signal integrating the power from the cal off and cal on phases.
- The 80 Hz signal can be obtained from output "Cont Cal".
- Continuous cal can be enabled by typing:
  - `cont_cal=on` (at the FS)
- In some cases the signal is inverted and you can get negative Tsys. This is a pending issue to be solved. It can be solved by patching the FS, but this solution should be avoided in the future and look for a cleaner one. The DBBC allows to invert the signal but this does not work at V105 version yet.
- The file of station.prc should be ready to switch between continuous calibration for some bands and traditional calibration for others. How to properly set it? See the document of `/usr2/fs/misc/dbbc.txt`
- Note that your noise source should have a Tcal on the level of ~1 K rather than ~10 K.
- Onsala -- we have just tested the latest firmware DDC V105 (version on 2015 Jun 10) which allows to swap the total power sampling between the Cal-On and Cal-Off registers. Now, our FS can do the proper measurements of Tsys, On-off, and Fivept at Onsala. The system is functional now. We have switched it on during N15L3. We are going to reduce Tcal from ~10 K to ~1 K and then start to use it in the user experiments at L and C bands in session 1/2016. The X-band 80Hz calibration hardware is also ready now and will be installed when the manpower is available.
- Hart -- we are working on implementing this on our 15m first as a test bed to see how well our solution will work. At the moment we are still waitin gon components for that.