

BEREC Guidelines Art. 22

Geographical surveys of network deployments (consultation document)

Anton Schwarz Abteilung Volkswirtschaft

BEREC Guidelines Art. 22 (Geographic Surveys)



Article 22

- National Regulatory Authorities ('NRAs') and/or Other Competent Authorities ('OCAs') shall, by 21 December 2023,
 - conduct a geographical survey of
 - the reach of electronic communications networks
 - capable of delivering broadband,
 - and shall update it at least every three years thereafter
- Potential use: State aid, broadband plans, universal service, market analysis, 'designated areas', definition of coverage obligations, etc.
- BEREC shall issue guidelines to assist NRAs and/or OCAs on the consistent implementation



2 Phases

- Phase one (foreseen approval in March 2020).
 - Guidelines on the consistent application of geographical surveys and forecasts, regarding <u>QoS-1</u> information.
- Phase two (foreseen approval in December 2020).
 - Guidelines on the consistent application of geographical surveys and forecasts, regarding <u>verification</u>, for example by <u>QoS-2</u> and <u>QoS-3</u> measurements and the <u>procedures</u> to invite undertakings and public authorities to declare their <u>intention to deploy VHCN</u> over the duration of the relevant forecast period for Article 22(3).
- [QoS1 = Simulation, QoS2 = 'controlled measurements', QoS3 = 'user measurements', e.g. RTR Netztest]



Definitions

Maximum available speed:

• The maximum speed is the speed that an end user at the address/grid could expect to receive at least some of the time (e.g. at least once a day). The parameters should describe the capability of the network.

Normally available speed:

• The normally available speed is the speed that an end user in the address/grid could expect to receive 95% of the time over the whole day when accessing the service. The parameters should describe the capability of network.

• Premises passed:

• The number of 'Premises Passed' is the potential number of premises that an operator can connect in a service area within a <u>short period of time [4 Weeks]</u> at <u>affordable prices [normal connection fee]</u> for the end user (connection fees), regardless of whether these premises are connected to the network. Typically, for a premise to be passed, this requires an existing network or <u>network components (e.g. fiber splitter)</u> deployed in close proximity to the premises.



Resolution

- Fixed networks
 - Address level
 - temporarily 100x100m squares in exceptional cases (e.g. no uniform address database)
- Mobile networks
 - 100x100m squares
- Frequency of data collection: At least once a year



Data to be collected for fixed networks

For each address

- Network provider code
- Technology code categorized per subsection (copper, coax, fiber, air)
- Maximum Download speed class per subsection
- Maximum Upload speed class per subsection
- Normal Download speed class per subsection
- Normal Upload speed class per subsection

Speed	Code
More or equal to 1 Gbit/s	1000
≥300 Mbit/s < 1 Gbit/s	300
≥100 Mbit/s < 300 Mbit/s	100
≥ 30 Mbit/s < 100 Mbit/s	30
≥ 10 Mbit/s < 30 Mbit/s	10
≥ 2 Mbit/s < 10 Mbit/s	2

- Number of premises passed by the operator at the address (optional)
- Determine if that network is VHCN at the address considered



Data to be collected for mobile networks

- For each 100x100m square
 - Grid code or polygon ID
 - Technology availability (3G-5G)
 - Qualification as a VHCN optional:
 - Upload Maximum Speed classes
 - Download Maximum Speed classes

Speed	Code
More or equal to 1 Gbit/s	1000
≥300 Mbit/s < 1 Gbit/s	300
≥100 Mbit/s < 300 Mbit/s	100
≥ 30 Mbit/s < 100 Mbit/s	30
≥ 10 Mbit/s < 30 Mbit/s	10
≥ 2 Mbit/s < 10 Mbit/s	2

• Other technical parameters regarding signal strength



Forecasts

- Main purposes: state aid, identification of designated areas
- 1 year
 - Fixed: Address level
 - Mobile: 100x100m square
- >1 year
 - 1000x1000m square
- Frequency of data collection: At least once a year



Procedure and way ahead

- Public consultation
 - from 10 October to 21 November 2019
 - 27 contributions
- Final guidelines to be published after P2 2020
 - 17.03.2020