



VGR-5G-FAQ-External webb

Updated 2025-08-08

Introduction

The purpose of this document is to promote an open and transparent relationship between the program and potential suppliers, and to ensure equal treatment of suppliers.

Questions to the VGR-5G program should be submitted via the program's functional mailbox: vgr-5g@vgregion.se. Incoming questions are handled on an ongoing basis, and answers will be published in this document. VGR will only respond to questions of a general nature and those considered relevant to the program.

Questions relating to a specific procurement process are handled according to the standard procedure — see the section “Questions during the tender period”: [Så går offentlig upphandling till – Inköp och e-handel \(vgregion.se\)](#).

Area	Question	Answer
Core	How many core network sites does VGR plan to have?	+20, as the network is being built for local survivability, for example at major hospitals.
Other	Does VGR currently hold the necessary frequency licenses?	Yes. VGR has applied for and obtained licenses in the locations where they are required.
Other	Will the network carry only healthcare-related traffic?	No. In the long term, it will be used by all VGR operations.
Other	Will IoT also be handled in the network?	Yes, this is included in VGR:s plans.
	Which manufacturers is VGR considering?	VGR is evaluating multiple suppliers and is currently in dialogue with many of the major manufacturers.
Core	Which functions are planned to be included in the core?	Both 4G and 5G will be used, along with IMS and MCx functionality.
Core / RAN	What is VGR:s position regarding RAN/Core — will these be owned and operated internally, or purchased as a service from a supplier?	VGR will procure and own both the Core and the RAN. The architecture is complex due to certain requirements — but there will be multiple core sites, and the RAN will provide indoor coverage at hospitals, healthcare facilities, and similar sites.
Other	How does VGR plan to handle SIM cards — will this be purchased as a service or managed internally?	VGR will have its own SIM cards and full control. Initially, the “users” will primarily be VGR employees, but IoT devices will also be included.
Other	How will VGR handle the PLMN ID?	VGR has already been assigned its own PLMN ID (240-60).
RAN	What is VGR:s approach to “roam-out” and “roam-in”?	VGR intends to establish “roam-out” functionality to public MNO(s) outside of VGR:s RAN coverage. Discussions are ongoing regarding “roam-in.”
Other	Will there be requirements for positioning?	Yes, it is planned in the long term.
Other	Which frequencies will be used?	VGR will primarily use: 1) B3 (1800) spectrum (unlicensed for indoor use in 2G/3G/4G and WiMAX) – 1875–1880 MHz (as per PTS-F-2013:1, originally published 2013-01-02, updated 2015-08-24) 2) N78 (3720–3800) spectrum (local spectrum allocation application required)
Other	Will VGR have its own staff operating the network?	Yes
Handheld devices	Which devices are currently in use?	Samsung, Apple, Ascom, Spectralink, Zebra, among others.
Core	Will VoLTE/VoWiFi be used?	VoLTE will initially be used over B3 (1800) with VGR:s own IMS functionality in the core network. VoWiFi is not currently planned but may be introduced in the future.
Other	Will it be an NSA or SA network?	Initially, a 4G/5G NSA installation will be deployed (1800 MHz as anchor band). Migration to 5G SA will take place over time. The timing will be influenced by the older devices currently in use on the network.