



# Common description of operative models for third party activities in the 5G test network

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# Test Services and Possibilities

- Access to multiple interfaces in the radio access network, cloud-based packet core network and service core network.
  
- Testing opportunities:
  - From mobile devices to packet and service core
  - Application tests with different traffic profiles
  - Field testing
  - Heterogeneous network environment
  - Network management
  - Dynamic network topology
  
- Available services:
  - Tools for QoS/QoE measurement and analysis
  - Cloud-based IoT environment
  - Content delivery network environment
  - Traffic generation and analysis
  - Signal generation and analysis
  - Mobile devices
  - New services to service core with IaaS/PaaS

## 5GTN offers

- Network connection to 5GTN (sim)
- Device loan to use 5GTN services
  - Terminal, test equipment, sensor
  - Note: All the services cannot be used with commercially available devices
- IP network connection to provide services within 5GTN network in a way that it requires information from 5GTN
- Access to users own subscriber information (location, context, etc) within 5GTN network. (EPC interface)
- Access to all 5GTN user subscriber information (providing the users have given a approval to use this information for research/testing purposes)
- Opportunity to bring EPC and/or RAN elements to be part of the 5GTN network and to have full rights to monitor the performance of the element in the network (again the user approval)

## Who can join?

- As a default, all Finnish and foreign, legal organizations are eligible
  - To individual persons, network connection and device loans are the only offered service.
- Services are in two categories: General and Restricted
- The user acceptance to General category is at the discretion of UniOulu and VTT
- The user acceptance to Restricted category is with an unanimous decision of the 5GTN Steering Group
  - No 5GTN SG meeting required, e-mail + two weeks reflection period
- 5GTN service offering and conditions are public information.
- The users identity in General category are confidential and are released only to the extend that the user directs and the service category decision demands.

# Charging

- General category services are free of charge to all eligible General category users.
- User transfer to Restricted category has a fee of ???€. After that, all existing Restricted category services are free of charge to the particular user.
- 5GTN partners are entitled to request compensation for an ADDITIONAL work or material they provide to serve a particular Restricted category user.

# Service package examples

- Three examples
  - Test tool –case
    - Test tool installed easily (e.g. 2 hours), the tool collects data (e.g. 1 week).
    - VTT/UniOulu person cooperating only shortly
  - App's developer –case
    - Software installed to terminal and core (e.g. liquid apps), testing (e.g. 1 day)
    - VTT/UniOulu person cooperating almost all the time
  - Remote IoT –case
    - IoT GW moved to customer premises and connected to VTT's core, data collected and analysed (e.g. 1 month)
    - VTT person cooperating all the time in the beginning, afterwards only shortly

## Papers to be signed

- Contract for “5GTN devices loan” (terminal, test equipment, sensor, etc.)
- In Restricted category
  - Project contract
  - Mutual NDA + security check

## Other

- For visitors, a working room from VTT can be provided
  - Security checked person can have an access to e.g. VTT's premises daily between 6-19 o'clock