

5G Playground

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Summary:

Short Description	5G playground encompasses a comprehensive, highly customizable and re-configurable network environment, based on commercially available components and the Fraunhofer own toolkits
Owner Organization	Fraunhofer FOKUS
Location	Germany, Berlin
Website	5GPlayground.org

Key Facts:

- Testbed Name: 5G Playground
- Location: Germany, Berlin
- Contact: Prof. Dr. Thomas Magedanz, thomas.magedanz@fokus.fraunhofer.de
- Organisation/Owner: Fraunhofer FOKUS, research organization
- Testbed nature: single location, part of a federation (FIRE context)
- Open for federation: Yes
- Funding: funded by projects (FP7, H2020, 5G-PPP)
- Testbed type: closed to partners
- Usage: usage fee based
- Services offered: Technology / Service PoCs, benchmarking, interoperability, usability
- Accessibility to results: some open to all, some open to members
- Technology foundation: mix between open source and closed source
- Specific network technologies: fixed, 3G, 4G, 5G, satellite
- SDN, NFV, MEC technologies and toolkits used: [openbaton](#), [open5gcore](#), [opensdncore](#), [open5gmtc](#), [openstack](#)
- Targeted application domains: 5G, Smart Cities, IOT, I4.0, Automotive, eHealth, SDN, NFV

Long Description:

The 5G Playground a common R&D ground where researchers and engineers around the world are able to build together the future 5G environment. 5G playground was designed to enable innovative product prototyping in realistic, comprehensive environments, calibration and benchmarking and interoperability between new prototypes and products.

5G Playground enables the deployment of testbeds for proof-of concept as well as for performance, security and reliability evaluations into the different network areas. For addressing the highly diverse requirements coming from the different verticals of the 5G domain, 5G Playground features a set of customized functions as basis for different dedicated slices for:

Localized services and multimedia for automotive Low delay and reliability for wireless industrial communication High availability for critical infrastructures Security and privacy for dedicated networks Usage of satellite networks for backhauling