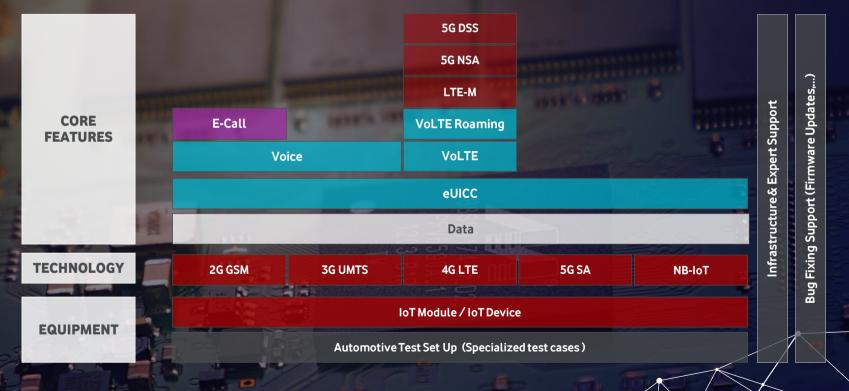
IOT FUTURE LAB Vodafone Innovation Park TDII – IoT Innovation & Certification

IOT FUTURE LAB TEST PRODUCT CATALOG

Vodafone Innovation Park



TDII – IoT Innovation & CertificationC1 Public

IOT FUTURE LAB CERTIFICATION SERVICE

Vodafone Innovation Park



VODAFONE CERTIFIED CONNECTIVITY

The **Vodafone Innovation Park** offers customers the opportunity to test and certify their solutions against the Vodafone network requirements. This reduces the risk of in-the-field failures and provides assurance through the device lifecycle. Our experts will support you with expertise and the right test equipment from the first testing till Certification.

CUSTOMER BENEFITS

- Flawless and tested VF connectivity
- · Efficient network communication
- Faster time to market
- Avoidance of follow-up costs
- · Security, enhanced device confidence



TECHNOLOGY

- 2G/3G/4G/5G NSA
- NB-IoT
- LTE-M



CORE FEATURES

- eCall
- eUICC
- VolTE / VolTE Roaming
- Automotive Test Set Up

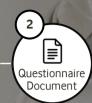


IOT FUTURE LAB GENERAL CERTIFICATION PROCESS

Vodafone Innovation Park











5 _E

FIRST TEST RUN*

Test execution of IoT capabilities

- 2G/3G/4G/5G
- LTE-M
- NB-IoT
- VolTE
- eCall
- eUICC
- Automotive



5.1 BUG FIXING

Troubleshooting and software adjustments

- Software update by vendor
- Defect report
- Expert support

5.2 REGRESSION TEST

Final test of product software

- Final software delivered
- No critical issues pending
- Expert support

GRADUATION

Providing official documents

- Test report
- Official certificate
- Badges

Timeline

Phase 1 to 4 approx. one week
Phase 5.1 to 5.2 approx. two weeks





TDII – IoT Innovation & Certification

C1 Public

IOT FUTURE LAB CERTIFICATION DOCUMENTS

Vodafone Innovation Park



The Vodafone Innovation Park provides customers a connectivity certification of their IoT products within the Vodafone Network. The certification includes the technical validity of flawless connectivity of the product that was available at the time of testing. The Connectivity Certification secures a comprehensive product testing against Vodafone standardized test cases.

Certification Document



signed by Vodafone Business IoT Director

Test Report



describes testing activites performed by Vodafone Innovation Park resources

Vodafone Badges



serves to lable the tested devices/ modules

Overview of all global test certificates of our partners on our VF homepage.



IOT FUTURE LAB CUSTOMIZED VERIFICATION SERVICE

Vodafone Innovation Park

CUSTOMIZED DEVICE VERIFICATION

An additional service of the **Vodafone Innovation Park** offers individual IoT product verification with core technologies and features. Our IoT experts will work with you to understand the requirements for your test session and advise you on the creation of a customized test plan to achieve your goals. In further steps this service will reduce effort in case of a full certification.

CUSTOMER BENEFITS

- Project scope customization
- · Efficient network communication
- Faster time to market
- Early failure detection
- Avoidance of follow-up costs



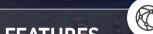
TECHNOLOGY

- 2G/3G/4G/5G NSA
- NB IoT
- Cat M



CORE FEATURES

- eCall
- eUICC
- VoLTE / VoLTE Roaming
- Automotive Test Set Up



TDII – IoT Innovation & Certification

C1 Public

IOT FUTURE LAB GENERAL VERIFICATION - TESTING PROCESS

TESTING

Vodafone Innovation Park



FIRST TEST RUN*

Test execution of IoT capabilities

- 2G/3G/4G/5G
- NB-IoT
- VolTE
- eCall
- eUICC
- Automotive

5.1 BUG FIXING

Troubleshooting and software adjustments

- Software update by vendor
- Defect report
- Expert support

TEST REPORT

Providing official documents

Test report

Timeline

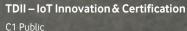
Phase 1 to 4 approx. one week Phase 5.1 as discussed before







Customer



IOT FUTURE LAB VERIFICATION DOCUMENTS

Vodafone Innovation Park



The Vodafone Innovation Park provides customers a connectivity verification of their IoT products within the Vodafone Network. Customer can test their product in the Vodafone network that was available at the time of testing. At the end, the customer will receive a full device verification documentation report.

Test Report



describes testing activites performed by Vodafone Innovation Park resources

After Testing, our experts will discuss any open issues and make recommendations on next steps.



IOT FUTURE LAB CONTACT DETAILS

Vodafone Innovation Park





SVEN KLINGSPOR

Coordinator IoT Innovation & Certification - Technologie Innovation



E-Mail: Sven.Klingspor@vodafone.com



Tel.: +49 1741600145





SVEN SOBE

Senior Expert IoT Innovation & Certification - Technologie Innovation



E-Mail: Sven.Sobe@vodafone.com



Tel.: +49 172 3444997



