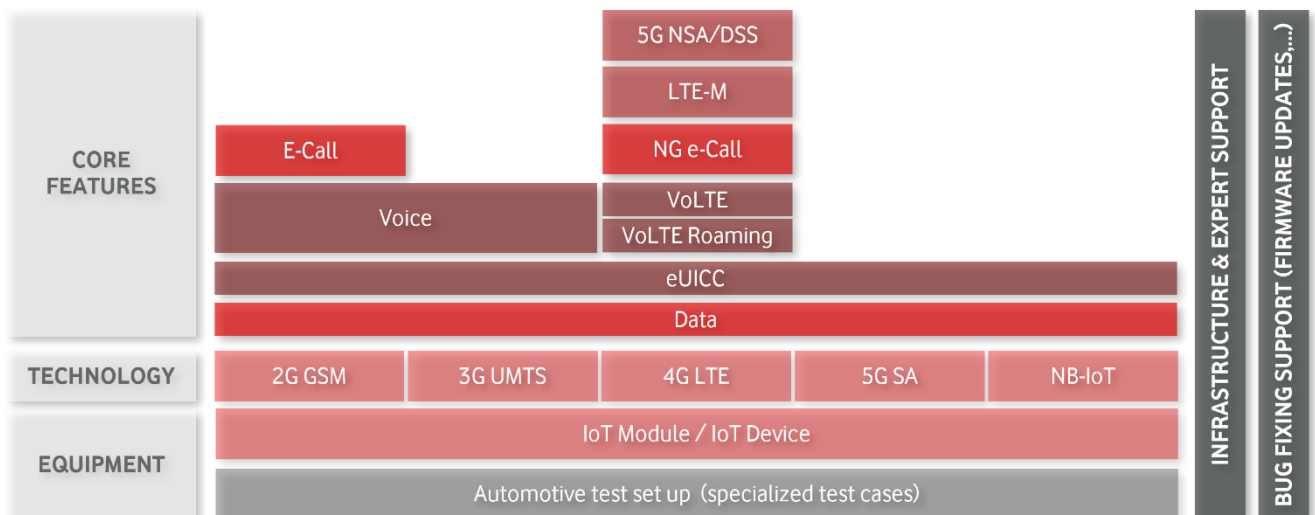




Standard product – catalog

The Vodafone Innovation Park offers you a realistic multi-vendor test environment and certifies devices against the Vodafone network requirements. We use all current radio and core technologies for this purpose. The result is a successful certification so that the devices can be used in the Vodafone network.

Device certification overview



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Legal notice: www.vodafone.de/pflichtangaben



Standard product – catalog

Full Test

1 2G	11 2G / 3G / 4G
2 3G	12 2G / 3G / 4G / VoLTE
3 4G	13 2G / 3G / 4G / 5G
4 NB-IoT	14 2G / 3G / 4G / 5G / VoLTE
5 NB-IoT / 2G	15 1 Legacy / 4G
6 NB-IoT / LTE Cat M	16 1 Legacy / 4G / VoLTE
7 NB-IoT / LTE Cat M / 2G	17 1 Legacy / 4G / 5G
8 LTE Cat M	18 1 Legacy / 4G / 5G / VoLTE
9 LTE Cat M / 2G	19 4G / 5G
10 2G / 3G	20 4G / 5G / VoLTE

Smart Test*

21 2G	31 2G / 3G / 4G
22 3G	32 2G / 3G / 4G / VoLTE
23 4G	33 2G / 3G / 4G / 5G
24 NB-IoT	34 2G / 3G / 4G / 5G / VoLTE
25 NB-IoT / 2G	35 1 Legacy / 4G
26 NB-IoT / LTE Cat M	36 1 Legacy / 4G / VoLTE
27 NB-IoT / LTE Cat M / 2G	37 1 Legacy / 4G / 5G
28 LTE Cat M	38 1 Legacy / 4G / 5G / VoLTE
29 LTE Cat M / 2G	39 4G / 5G
30 2G / 3G	40 4G / 5G / VoLTE

Add-ons and more

41 5G SA	45 LTE Advanced (from Cat 9 to xx)
42 VoLTE Roaming (GDSP)	46 eUICC NW Conformance
43 eCall	47 eUICC E2E
44 Next Generation eCall	

Customised support and joined sessions can be offered for all available technologies and features. Please contact us if you are interested in an individual offer.

* Smart Tests have a smaller test scope and are used for verification.



Product description – Full Test scope

1	☐	2G – Full Test GSM and Basic Operations SMS GPRS-EDGE	USIM-ME PAP/CHAP Speechcodecs & Cipherng
2	☐	3G – Full Test 3G Datarcard PAP/CHAP SMS	USIM-ME Speechcodecs & Cipherng
3	☐	4G – Full Test LTE-Data PAP/CHAP SMS	USIM-ME LTE Voice via CSFB
4	☐	NB-IoT – Full Test IoT Bearer_NB-IoT USIM_ME	
5	☐	NB-IoT / 2G – Full Test GSM and Basic Operations SMS GPRS-EDGE PAP/CHAP	Speechcodecs & Cipherng IoT Bearer_NB_IoT USIM-ME
6	☐	NB-IoT / LTE Cat M – Full Test IoT Bearer_NB-IoT IoT Bearer_LTE-M USIM_ME	
7	☐	NB-IoT / LTE Cat M / 2G – Full Test GSM and Basic Operations SMS GPRS-EDGE PAP/CHAP	Speechcodecs & Cipherng IoT Bearer_NB_IoT & LTE-M USIM-ME
8	☐	LTE Cat M – Full Test IoT Bearer_LTE-M USIM_ME	



9	☐ LTE Cat M / 2G – Full Test	GSM and Basic Operations SMS GPRS-EDGE PAP/CHAP	Speechcodecs & Ciphering IoT Bearer_LTE-M USIM-ME
10	☐ 2G / 3G – Full Test	GSM and Basic Operations SMS GPRS-EDGE PAP/CHAP	Speechcodecs & Ciphering 3G Datacard USIM-ME
11	☐ 2G / 3G / 4G – Full Test	GSM and Basic Operations SMS GPRS-EDGE USIM-ME PAP/CHAP	Speechcodecs & Ciphering 3G Datacard LTE Voice via CSFB LTE Data
12	☐ 2G / 3G / 4G / VoLTE – Full Test	GSM and Basic Operations SMS GPRS-EDGE USIM-ME PAP/CHAP Speechcodecs & Ciphering	3G Datacard LTE Data LTE_Voice over LTE LTE Voice via CSFB Speechcodecs EVS
13	☐ 2G / 3G / 4G / 5G – Full Test	GSM and Basic Operations SMS GPRS-EDGE 3G Datacard USIM-ME	LTE Data LTE Voice via CSFB 5G Bearer NSA, DSS PAP/CHAP Speechcodecs & Ciphering
14	☐ 2G / 3G / 4G / 5G / VoLTE – Full Test	GSM and Basic Operations GPRS-EDGE SMS 3G Datacard USIM-ME LTE Data	LTE Voice via CSFB LTE Voice over LTE 5G Bearer PAP/CHAP Speechcodecs & Ciphering Speechcodecs EVS



15 1 Legacy / 4G – Full Test

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|--|--|
| ☐ <u>2G / 4G:</u>
GSM and Basic Operations
GPRS-EDGE
SMS
USIM-ME
LTE Data
LTE Voice via CSFB
PAP/CHAP
Speechcodecs & Cipherring | ☐ <u>3G / 4G:</u>
SMS
3G Datacard
USIM-ME
LTE Data
LTE Voice via CSFB
PAP/CHAP
Speechcodecs & Cipherring |
|--|--|
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16 1 Legacy / 4G / VoLTE – Full Test

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| ☐ <u>2G / 4G / VoLTE:</u>
GSM and Basic Operations
GPRS-EDGE
SMS
USIM-ME
LTE Data
LTE Voice via CSFB
LTE_Voice over LTE
PAP/CHAP
Speechcodecs & Cipherring
Speechcodecs EVS | ☐ <u>3G / 4G / VoLTE:</u>
SMS
3G Datacard
USIM-ME
LTE Data
LTE Voice via CSFB
LTE_Voice over LTE
PAP/CHAP
Speechcodecs & Cipherring
Speechcodecs EVS |
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17 1 Legacy / 4G / 5G – Full Test

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|---|---|
| ☐ <u>2G / 4G / 5G:</u>
GSM and Basic Operations
GPRS-EDGE
SMS
USIM-ME
LTE Data
LTE Voice via CSFB
PAP/CHAP
Speechcodecs & Cipherring
5G Bearer NSA, DSS | ☐ <u>3G / 4G / 5G:</u>
SMS
3G Datacard
USIM-ME
LTE Data
LTE Voice via CSFB
PAP/CHAP
Speechcodecs & Cipherring
5G Bearer NSA, DSS |
|---|---|
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18	1 Legacy / 4G / 5G / VoLTE – Full Test ☐ <u>2G / 4G / 5G / VoLTE:</u> GSM and Basic Operations GPRS-EDGE SMS USIM-ME LTE Data LTE Voice via CSFB LTE Voice over LTE PAP/CHAP Speechcodecs & Ciphering 5G Bearer NSA, DSS Speechcodecs EVS ☐ <u>3G / 4G / 5G / VoLTE:</u> SMS 3G Datacard USIM-ME LTE Data LTE Voice via CSFB LTE Voice over LTE PAP/CHAP 5G Bearer NSA, DSS Speechcodecs EVS
19	4G / 5G – Full Test ☐ LTE Data LTE Voice via CSFB 5G Bearer NSA, DSS PAP/CHAP ☐ SMS USIM-ME Speechcodecs & Ciphering
20	4G / 5G / VoLTE – Full Test ☐ LTE Data LTE Voice via CSFB LTE Voice over LTE 5G Bearer NSA, DSS ☐ PAP/CHAP SMS USIM-ME Speechcodecs EVS



Product description – Smart Test scope

21	☐	2G – Smart Test GSM and Basic Operations SMS	GPRS-EDGE Speechcodecs & Ciphering
22	☐	3G – Smart Test 3G Datacard Speechcodecs & Ciphering SMS	
23	☐	4G – Smart Test LTE-Data LTE Voice via CSFB	Speechcodecs & Ciphering SMS
24	☐	NB-IoT – Smart Test IoT Bearer_NB-IoT	
25	☐	NB-IoT / 2G – Smart Test GSM and Basic Operations SMS GPRS-EDGE	Speechcodecs & Ciphering IoT Bearer_NB_IoT
26	☐	NB-IoT / LTE Cat M – Smart Test IoT Bearer_NB-IoT IoT Bearer_LTE-M	
27	☐	NB-IoT / LTE Cat M / 2G – Smart Test GSM and Basic Operations SMS GPRS-EDGE	Speechcodecs & Ciphering IoT Bearer_NB_IoT & LTE-M
28	☐	LTE Cat M – Smart Test IoT Bearer_LTE-M	
29	☐	LTE Cat M / 2G – Smart Test GSM and Basic Operations SMS GPRS-EDGE	Speechcodecs & Ciphering IoT Bearer_LTE-M



30	☐	2G / 3G – Smart Test GSM and Basic Operations SMS GPRS-EDGE	Speechcodecs & Ciphering 3G Datacard
31	☐	2G / 3G / 4G – Smart Test GSM and Basic Operations SMS GPRS-EDGE Speechcodecs & Ciphering	3G Datacard LTE Data LTE Voice via CSFB
32	☐	2G / 3G / 4G / VoLTE – Smart Test GSM and Basic Operations SMS GPRS-EDGE Speechcodecs & Ciphering 3G Datacard	LTE Data LTE Voice over LTE LTE Voice via CSFB Speechcodecs EVS
33	☐	2G / 3G / 4G / 5G – Smart Test GSM and Basic Operations GPRS-EDGE SMS 3G Datacard	LTE Data LTE Voice via CSFB 5G Bearer NSA, DSS Speechcodecs & Ciphering
34	☐	2G / 3G / 4G / 5G / VoLTE – Smart Test GSM and Basic Operations GPRS-EDGE SMS 3G Datacard LTE Data	LTE Voice over LTE LTE Voice via CSFB 5G Bearer NSA, DSS Speechcodecs & Ciphering Speechcodecs EVS
35	☐	1 Legacy / 4G – Smart Test <u>2G / 4G:</u> GSM and Basic Operations GPRS-EDGE SMS LTE Data LTE Voice via CSFB Speechcodecs & Ciphering	☐ <u>3G / 4G:</u> SMS 3G Datacard LTE Data LTE Voice via CSFB Speechcodecs & Ciphering



36 1 Legacy / 4G / VoLTE – Smart Test

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|--|--|
| ☐ <u>2G / 4G / VoLTE:</u>
GSM and Basic Operations
GPRS-EDGE
SMS
LTE Data
LTE Voice over LTE
LTE Voice via CSFB
Speechcodecs & Ciphering
Speechcodecs EVS | ☐ <u>3G / 4G / VoLTE:</u>
SMS
3G Datacard
LTE Data
LTE Voice over LTE
LTE Voice via CSFB
Speechcodecs EVS |
|--|--|
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37 1 Legacy / 4G / 5G – Smart Test

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|---|---|
| ☐ <u>2G / 4G / 5G:</u>
GSM and Basic Operations
GPRS-EDGE
SMS
LTE Data
LTE Voice via CSFB
Speechcodecs & Ciphering
5G Bearer NSA, DSS | ☐ <u>3G / 4G / 5G:</u>
SMS
3G Datacard
LTE Data
LTE Voice via CSFB
5G Bearer NSA, DSS |
|---|---|
-

38 1 Legacy / 4G / 5G / VoLTE – Smart Test

- | | |
|---|---|
| ☐ <u>2G / 4G / 5G / VoLTE:</u>
GSM and Basic Operations
GPRS-EDGE
SMS
LTE Data
LTE Voice over LTE
LTE Voice via CSFB
Speechcodecs & Ciphering
5G Bearer NSA, DSS
Speechcodecs EVS | ☐ <u>3G / 4G / 5G / VoLTE:</u>
SMS
3G Datacard
LTE Data
LTE Voice over LTE
LTE Voice via CSFB
5G Bearer NSA, DSS
Speechcodecs EVS |
|---|---|
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39 ☐ 4G / 5G – Smart Test

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|--------------------------------|---------------------------|
| LTE Data
LTE Voice via CSFB | 5G Bearer NSA, DSS
SMS |
|--------------------------------|---------------------------|
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40 ☐ 4G / 5G / VoLTE – Smart Test

- | | |
|--|---|
| LTE Data
LTE Voice over LTE
LTE Voice via CSFB | 5G Bearer NSA, DSS
SMS
Speechcodecs EVS |
|--|---|
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Product description – Add-ons and more

41 ☐ **5G SA – Add-on**

5G Bearer SA

42 ☐ **VoLTE Roaming (GDSP) – Add-on**

VoLTE customized to IoT
Speechcodecs EVS

43 ☐ **eCall – Add-on**

IoT eCall
Consulting Service
dev. Support

44 ☐ **NGeCall – Add-on**

IoT eCall
Consulting Service
dev. Support

45 ☐ **LTE Advanced (from Cat 9 to xx) – Add-on**

LTE Advanced

46 ☐ **eUICC NW Conformance – Add-on**

eUICC SIM Toolkit

47 ☐ **eUICC E2E – Add-on**

eUICC SIM profile handling
