

Measurement Specification for CAT-iq 2.1 Testing

VERSION 1.0

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VERSION	DATE	EDITOR	REMARKS
1.0	11-Sep-17	Ruth Wilson	Initial draft based on CAT-iq 2.0
	11.9.2017	Roland Schmidt	Board approval

Measurement Specification for CAT-iq 2.1

The DECT Forum establish a certification program for CAT-iq to ensure sufficient interoperability of devices from different vendors for the functionalities defined in CAT-iq, to ensure superior audio and RF quality levels, and to address usability requirements in a retail handset market.

Therefore all CAT-iq devices claiming to be compliant with CAT-iq standards and desiring certification must be tested according to the functionalities defined as mandatory by the CAT-iq standards.

Note that the device may also consider implementing the optional features of the specification, and where implemented, these features shall also function and be tested according the CAT-iq specification.

CAT-iq 2.1 is a registered trademark owned by the DECT Forum, it references features and procedures to corresponding ETSI Specifications, this specification references to ETSI TS 102 527-5 V1.2.1, and as revised from time to time

The scope of this document is to define the measurement requirements for the CAT-iq compliance tests for CAT-iq 2.1 profile. Details regarding overlaying framework of the CAT-iq certification programme and to relevant costs regarding certification are defined in separate documents.

1 References

Reference documents as part of the measurement requirements meet the requirements as follows:

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

2 RF Requirements

The test requirements for RF are the same as for the test requirements for CAT-iq 2.0. There are no additional RF tests for CAT-iq 2.1.

Reference should be made to the RF requirements as specified in the DF_CAT-iq 2.0 Measurement Specification (DF_CAT-iq T-003)

3 Audio Requirements

The test requirements for Audio are the same as for the test requirements for CAT-iq 2.0. There are no additional audio tests for CAT-iq 2.1.

Reference should be made to the Audio requirements as specified in the DF_CAT-iq 2.0 Measurement Specification (DF_CAT-iq T-003)

4 Interoperability Requirements

The test requirements for interoperability for CAT-iq 2.1 are in addition to those specified for CAT-iq 2.0 interoperability testing, which includes backwards compatibility for GAP.

Reference should be made to the interoperability requirements as specified in the DF_CAT-iq 2.0 Measurement Specification (DF_CAT-iq T-003)

4.1 CAT-iq protocol testing

The test requirements for interoperability can be found in the associated test specification:

ETSI document TS 102-843 v1.1.1 and as revised from time to time the certification will cover:

- CAT-iq 2.1 Handset
- CAT-iq 2.1 Basestation
- CAT-iq 2.1 Headset
- Multiple Handset scenarios
- Backwards compatibility tests with CAT-iq 2.0 Devices

Note that as a consequence of carrying out the CAT-iq 2.1 basestation tests, some test cases will be tested with a full end-to-end 'operator like' network. Some flexibility for network connectivity is permitted.

Before running the CAT-iq 2.1 interoperability tests, the supplier needs to declare:

- the optional features which are supported
- any required additional information for testing
- the optional or conditional procedures which are supported

5 Application Testing

The tests requirement is to show conformance with the application guidelines for CAT-iq 2.0 includes CAT-iq protocol testing and GAP backward compatibility testing.

Reference should be made to the interoperability requirements as specified in the DF_CAT-iq Application Test Suite (DF_CAT-iq T-007)