
TYPE APPROVAL GUIDELINES

For Radio Equipment and Telecommunications Terminal Equipment

The Supreme Council of Information & Communication Technology “ictQATAR”

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I. Introduction

I.1. Background

This document, “Type Approval Guidelines for Radio Equipment and Telecommunications Terminal Equipment (“RTTE”)” is issued by the Supreme Council of Information and Communication Technology (“ictQATAR”) following the publication of the Type Approval Policy, in accordance with Decree Law No. (34) of 2006 on the promulgation of the Telecommunications Law.

In accordance with Article 2.11 and Article 4.5 of the Telecommunications Law, ictQATAR has the statutory duty to ensure the safety of all information and telecommunications services and for that purpose, determine technical standards for telecommunication networks, the connection of Radio Equipment and Telecommunications Terminal Equipment (“RTTE”) to telecommunication networks concerned. ictQATAR fulfils this function by requiring that all RTTE are Type Approved before being allowed to be marketed and operated in Qatar.

I.2. Objective of the new Type Approval regime

The overall objective of the new Type Approval regime is to improve upon the current Type Approval regime and to provide a framework for opening up the market for importation and commercialization of RTTE. The current Type Approval regime links any specific RTTE with the Importer that has presented the application – only that Importer can actually import the RTTE in Qatar. In addition, manufacturers are today not allowed to apply for Type Approval and import RTTE themselves.

The two major differences of the new Type Approval regime compared with the current regime are the following:

- Type Approval is no longer linked to the applicant, but is solely related to the specific RTTE. Once Type Approved, any Authorized Importer will be allowed to import this RTTE in Qatar, not only the one that originally applied for Type Approval
- In addition to Authorized Importers, Manufacturers, Licensed Operators, and Private Companies (for personal use) can apply for Type Approval

The objectives of the new Type Approval regime are:

- To streamline and modernize the current Type Approval regime in accordance with the Telecommunications Law;
- To introduce a greater level of efficiency, transparency and certainty;

- To move from a regime where only a limited number of Importers can apply for Type Approval to a more open regime where a wide range of entities such as Manufacturers, Authorized Importers, Licensed Operators and Private Companies can apply for Type Approval;
- To allow internationally recognized standards to be used as the basis for the Type Approval process;
- To simplify the fee structure for Type Approval applications; and
- To ensure that:
 - only properly type-approved RTTE is placed, sold or used in the telecommunications market in Qatar;
 - RTTE does not cause damage to or interference with the operation of telecommunications networks or other RTTE;
 - RTTE does not cause harm to the general public or people working with telecommunications networks; and
 - the operating frequency of all Radio Equipment is in accordance with the Frequency Allocation Plan in Qatar.

In addition, the Type Approval regime aims to avoid placing unnecessary administrative burdens on Authorized Importers and Manufacturers of RTTE, in order to facilitate competition in the supply and choice of RTTE in Qatar. The Type Approval regime aims also to facilitate the process for customs officers in Qatar by having on ictQATAR's website an updated list of the RTTE that has been Type Approved by ictQATAR and the list of the Authorized Importers.

1.3. Scope of the Guidelines

The Type Approval Guidelines cover all types of Radio Equipment and Telecommunications Terminal Equipment. Such equipment is referred to collectively herein as Radio and Telecommunications Terminal Equipment (“**RTTE**”).

The Type Approval Guidelines are to be read in conjunction with all elements of the Type Approval regime issued by ictQATAR and listed in section 1.4. This document specifically aims to provide a guide to applicants that wish to obtain Type Approval for a RTTE, describing in detail the documents needed and the process to follow.

The Type Approval Guidelines apply to all RTTE imported to or manufactured in Qatar, whether for marketing or commercial purposes or for private use, and apply to any Person that is the initial or first point of supply of the RTTE in Qatar.

1.4. Type Approval Regime

The Type Approval Regime consists of the following elements:

1. Type Approval Policy
2. Type Approval Guidelines (this document)
3. Type Approval Forms
4. List of Type Approval bodies that are recognized by ictQATAR
5. List of accredited laboratories, testing and measurement bodies recognized by ictQATAR
6. List of technical standards recognized by ictQATAR
7. Type Approval Register
8. Importers Register

2. Definitions and Abbreviations

2.1. Definitions

The words and expressions used in this document shall have the meanings set forth below.

Applicable Regulatory Framework: the Telecommunications Law of 2006 and its By-Law and any other rules and regulations, decisions, orders, policies, guidelines, instructions or notices issued by ictQATAR as well as license terms and conditions and relevant legislation and international treaties.

Authorized Importer: is a Person in Qatar that is authorized by ictQATAR to import RTTE to Qatar for marketing/commercial purposes in line with the Applicable Regulatory Framework.

Category of Equipment: is a term that relates to a broad range of RTTE for personal use such as mobile handsets, wireless routers, WiFi/ WLAN laptop, fixed telephone, fax machine, etc

Certificate of Compliance: is a document issued by a Conformity Assessment Body stating the compliance of a specific RTTE with one or more technical standards

Conformity Assessment Body: are organizations, public or private, that have received official recognition in their own country as bodies with specific technical expertise and reputation, able to provide trusted opinions and assessment regarding RTTE's compliance with technical standards.

Dealer's License: also called "Approval for dealing with telecommunications equipment

and related activities”. It is the license issued by ictQATAR to dealers of telecommunications equipment (i.e. importers, wholesalers and retailers) prior to the implementation of the new Type Approval regime. The Dealer’s License is not required in the new Type Approval regime.

Declaration of Conformity: is a sworn statement issued by a manufacturer of a RTTE, stating, under their responsibility, that the device complies with one or more technical standards. By issuing such document, the manufacturer also declares that they have executed all the tests and measurements that relate to said standards, and that such tests and measures have shown full compliance with the standards’ reference parameters.

Frequency Allocation Plan: the frequency plan defined by ictQATAR that sets out the allocation of radio frequency bands, in the state of Qatar, to their various uses.

Interface: means (i) a network termination point, which is a physical connection point at which a user is provided with access to a public telecommunications network, and/or (ii) an air interface specifying the radio path between radio equipment and their technical specifications.

International Manufacturer: an international manufacturer is a manufacturer of RTTE based outside of Qatar. The international manufacturer may have offices in Qatar to market its products, but the RTTE is manufactured outside of Qatar.

Licensed Operator: Licensed Operator is a Qatari company or establishment located in the state of Qatar that is licensed by ictQATAR to own, establish or operate a telecommunications network¹

Local Manufacturer: a local manufacturer is a manufacturer based in Qatar whose business is to manufacture RTTE in the state of Qatar.

Person: a natural or legal person of any type or form.

Public Telecommunications Network: telecommunications networks used wholly or partly for the provision of publicly available telecommunications services.

Radio Equipment: a product, or relevant component thereof, capable of communication by means of the emission and/or reception of radio waves utilizing the spectrum allocated to terrestrial/space radiocommunication. Examples of Radio Equipment include, but are not limited to: earth stations, broadcasting stations, VSAT, microwave radio links, aeronautic and maritime stations, mobile handsets, Bluetooth devices, indoor Wireless Local Area Network (WLAN) equipment, etc.

In this document, we distinguish between two categories of Radio Equipment:

- **License-Free Radio Equipment:** Radio Equipment for which the end-user is exempted from obtaining a license from ictQATAR to own or operate it provided that it is type-approved by ictQATAR. Examples include, but are not limited to:

¹ In the context of this document, the term Licensed Operator is used to refer to a Licensed Operator who is also authorized by ictQATAR to import RTTE.

mobile handsets, cordless phones, Bluetooth devices, indoor applications WLAN equipment, computers with WLAN and Bluetooth connection, etc.

- **Licensed Radio Equipment:** Radio Equipment for which the end-user must obtain from ictQATAR a license to own or operate it. Examples include, but are not limited to: aeronautic stations, maritime stations, satellite systems (earth stations, VSAT, SNG, mobile satellite), broadcasting stations, radio amateur, microwave radio links, Telemetry, Private Mobile Radio (PMR), Tetra, outdoor WLAN equipment, WiMAX stations, Wireless Local Loop (WLL), paging systems, etc.

A complete list of the types of Radio Equipment in each of these two categories will be included in the Spectrum Policy that will be published by ictQATAR in due course.

Radio Equipment and Telecommunications Terminal Equipment (RTTE): this covers both the Radio Equipment and the Telecommunications Terminal Equipment.

Retailer: a merchant who sells in small quantities directly to the end consumers.

Service Provider: a Person that is licensed to provide one or more telecommunications services to the public or licensed to own, establish or operate a telecommunications network to provide telecommunications services to the public. This includes providers of information or content using a telecommunications network.

Technical Construction File: a dossier comprising all the necessary technical documentation required for the standard Type Approval application.

Telecommunications Equipment: equipment capable of being connected directly or indirectly with a Telecommunications Network in order to send, transmit or receive telecommunications services.²

Telecommunications Law: is the Telecommunications Law of 2006.

Telecommunications Network: any wire, radio, optical or electromagnetic systems for routing, switching and transmitting telecommunications services between network termination points including fixed and mobile terrestrial networks, satellite networks, electricity transmission systems or other utilities (to the extent used for telecommunications), circuit or packet switched networks (including those used for Internet Protocol services), and networks used for delivery of broadcasting services (including cable television networks).

Telecommunications Terminal Equipment: a product, or a relevant component thereof, enabling communication which is intended to be connected directly or indirectly by any means to Interfaces of public telecommunications networks. Examples of Telecommunications Terminal Equipment include, but are not limited to: ADSL modems, PBX, phones connected to PSTN, Fax machines, answering machines, mobile handsets,

² Telecommunications Equipment includes RTTE and core network equipment such as switches, Mobile Switching Centers (MSC), Base Stations (BSCs), and transmission equipment. Core network equipment does not follow the Type Approval regime for RTTE.

Bluetooth devices, etc.

Testing Laboratory: for the scope of these Guidelines we refer to “Testing Laboratories” as laboratories where the appropriate equipment, supplies, and certified expertise are available to conduct tests with regards to technical standards, including telecommunications, EMC and health and safety.

Type Approval: is the process by which RTTE is authorized by ictQATAR to be used in Qatar or imported into Qatar, and involves verification of the equipment’s compliance with the applicable standards and requirements.

Type Approval Certificate: is a document issued by a National Regulatory Authority stating that the RTTE complies with the applicable standards specified by the National Regulatory Authority.

Type Approval Policy: the policy to be published by ictQATAR which provides direction on different aspects of the Type Approval Regime such as principles, objectives and essential requirements.

Type Approval Regime: the combination of Type Approval Policy, guidelines, rules, procedures, forms and fees that may be issued by ictQATAR as required.

Wholesaler: a merchant who sells primarily to Retailers, other merchants, or industrial, institutional, and commercial users mainly for resale or business use.

2.2. Abbreviations and acronyms

AB: Assessment Body

CAB: Conformity Assessment Body

CE: Commission Européenne (European Commission)

DoC: Declaration of Conformity

EMC: Electro Magnetic Compatibility

ETSI: European Telecommunications Standards Institute

FCC: Federal Communications Commission (US Telecom Authority)

IEC: International Electrotechnical Commission

ILAC: International Laboratory Accreditation Cooperation

ISO: International Organization for Standardization

ITU: International Telecommunications Union

MRA: Mutual Recognition Agreement

NB: Notified Body

NFAP: National Frequency Allocation Plan

NRA: National Regulatory Authority

PCB: Printed Circuit Board

PSTN: Public Switched Telecommunications Network

RTTE, R&TTE: Radio and Terminal Telecommunications Equipment

TA: Type Approval

TCB: Telecommunications Conformity Body

TCF: Technical Construction File

3. What is Type Approval and why is it necessary?

Type Approval is the process by which an RTTE is authorized by ictQATAR to be used in Qatar³, and involves verification of the equipment's compliance with the applicable standards and requirements. The main goal of the type approval regime is to ensure that all Radio Equipment and Telecommunications Terminal Equipment ("RTTE") that are used in Qatar comply with the applicable technical standards in Qatar relative to:

- Effective Use of radio frequency spectrum for radio communication equipment: the effective and appropriate use of the radio frequency spectrum, which is a limited resource, should be ensured so as to avoid harmful interferences and cause unacceptable degradation of service to other users of the radio spectrum.
- Interconnection of Telecommunication Terminal Equipment with Public Telecommunications Networks: to ensure that Telecommunications Terminal Equipment such as cordless telephones, fax machines, modems etc may be connected to the Public Telecommunications Networks without causing any damage to the Public Telecommunications Networks and to protect the interests of the users of the Terminal Equipment.
- The protection of the health and the safety of the user: to ensure that the operation of a particular RTTE, in no way causes any harm to the users or to any other individual.
- Electromagnetic Compatibility: to ensure that electromagnetic emissions of the RTTE does not disrupt or affect the operation of other equipments working nearby. In addition, such RTTE must have an acceptable level of immunity to disturbances which may occur as a result of the operation of other equipment found close to them.

The list of technical standards recognized by ictQATAR and to which all RTTE used, sold, offered for sale or connected in Qatar must comply with are detailed in Appendix D of this document.

³ Subject to import permission

By verifying the compliance of RTTE with applicable technical standards recognized by ictQATAR, the Type approval of RTTE ensures that:

- No sub-standard RTTE which can represent health and safety hazards are operating in Qatar
- Consumers are protected from RTTEs that are non-compatible with the local telecommunications network
- The operating frequency of all radio communication equipment is as per the National Frequency Allocation Plan in Qatar and that no interference is caused to current and planned services.

4. Who can apply for Type Approval?

Type Approval may be requested by:

- a) Local and International Manufacturers
- b) Authorized Importers
- c) Licensed Operators
- d) Persons (individuals or companies) in Qatar wishing to import RTTE for their own use (i.e. not for marketing/commercial purposes)

Further details on authorized applicants are provided in section 14 of this document.

In addition to the list above, authorized representatives or agents of any of those parties may also request Type Approval.

An International Manufacturer is not required to have a presence in Qatar in order to apply for Type Approval.

Local or International Manufacturers can apply for Type Approval only for RTTE that is manufactured by them.

Once an RTTE is type-approved by ictQATAR, the same type of equipment can be imported, subject to import permission, by any eligible importers without having to apply for another Type Approval.

ictQATAR will maintain on its website a Type Approval Register (hereinafter referred to as “**TA Register**”) containing the types of RTTE that are approved by ictQATAR.

5. How to Apply for Type Approval?

An Applicant who applies for Type Approval of Radio Equipment and Telecommunications Terminal Equipment shall follow one of the application processes, namely:

- a) Simplified Type Approval process
- b) Standard Type Approval process

The Application for either Type Approval processes shall be submitted to ictQATAR either physically or electronically following the rules detailed in section 19 of these Guidelines.

5.1. Simplified Type Approval Process

- (a) The simplified Type Approval process has to be followed in the case that the RTTE has already obtained suitable evidence either from a National Regulatory Authority (NRA) or a Conformity Assessment Body (CAB) recognized by ictQATAR showing that the considered RTTE complies with the required standards recognized by ictQATAR.
- (b) National Regulatory Authorities and Conformity Assessment Bodies that are recognized by ictQATAR are identified in the list of recognized Type Approval bodies, available on ictQATAR's website and an initial list is provided in Appendix E.
- (c) The list of recognized Type Approval bodies and Conformity Assessment Bodies will be regularly updated by ictQATAR, at the discretion of ictQATAR.
- (d) An Application for simplified Type Approval must be made using the prescribed application form for the simplified Type Approval process attached in Appendix A of these guidelines and which is available for download on the website of ictQATAR.
- (e) A separate application form must be completed, signed and stamped by the applicant for each type of equipment⁴.
- (f) An application for Type Approval under the simplified type approval process must be accompanied by the following supporting documentation:
 - i. A duly signed and dated Certificate of Compliance⁵ certifying that the equipment complies with the appropriate standards, issued by the entity which had tested or type approved the RTTE and which must be either a National Regulatory Authority recognized by ictQATAR or

⁴ By type of equipment we mean a range of equipment with primarily cosmetic differences between each other and not on the specific essential requirements relating to safety, EMC or radio frequency behavior

⁵ As defined in section 2 and includes for instance Type Approval Certificate, FCC grant of equipment authorization, "Notified Body Expert Opinion" stating conformity to EN standards etc

- a Conformity Assessment Body⁶ recognized by ictQATAR (please refer to Appendix E for full lists).
 - ii. Proof of payment for the prescribed Type Approval fee. The Type Approval fee covers ictQATAR's processing fee, is not refundable, and must be paid before applying for Type Approval. Details about the acceptable payment methods and proof of payments are described in section 7.
 - iii. Under the Simplified Type Approval process it is not required to submit any other supporting documentation or sample units of the RTTE unless requested to do so by ictQATAR.
- (g) No application for Type Approval will be processed unless and until all required supporting documents are submitted to ictQATAR. This may include the release of any other additional information that is deemed necessary by ictQATAR for the purpose of Type Approval.
- (h) The processing period of an application for Type Approval under the simplified type approval process takes up to 5 working days from the date upon which the complete application package has been submitted to ictQATAR.
- (i) A successful outcome of the assessment of the application for Type Approval will not result in issuing a Type Approval Certificate in the name of the applicant, but rather in the recording of a corresponding entry of the RTTE in the Type Approval Register published on ictQATAR's website. However, if needed, such certificates (which will be for a specific RTTE and independent of the original applicant⁷) will be available in a printable format on ictQATAR's website. Additional information related to the Type Approval Register is provided in section 16.
- (j) ictQATAR reserves the right to reject the application in the case where ictQATAR is not satisfied in respect to any aspect of the application. The Applicant may, however, address the non-compliance and submit a new application for Type Approval when appropriate. In case of rejection, the Type Approval Fee will not be reimbursed.

5.2. Standard Type Approval Process

- (a) The standard Type Approval process has to be followed in the case that there is no evidence in the form of the aforementioned Certificate of Compliance certifying that the RTTE complies with the standards recognized by ictQATAR.

⁶ As defined in section 2 and includes for instance testing or calibration laboratories, inspection body, Telecommunications Certification Body

⁷ For the avoidance of doubt, such certificate will not have any applicant's name printed on it

- (b) The evidence of compliance of the RTTE under the standard Type Approval process must be based on, but not limited to, duly signed and dated Test Reports issued by accredited Test Laboratories demonstrating that the RTTE complies with the appropriate technical standards recognized by ictQATAR, as described in 5.2.f and 6.l
- (c) ictQATAR will accept test reports from any accredited Test Laboratory included in the list of accredited Testing Laboratories recognized by ictQATAR to be maintained and updated by ictQATAR in accordance with the criteria and requirements set out in section 0 of these Guidelines. An initial list of Testing Laboratories recognized by ictQATAR is included in Appendix F and a regularly updated list will be made publicly available on ictQATAR's website.
- (d) An Application for standard Type Approval must be made using the prescribed application form for the standard Type Approval process attached in Appendix B of these guidelines and which will be made available for download on the website of ictQATAR.
- (e) A separate application form must be completed, signed and stamped by the applicant for each type of equipment⁸.
- (f) An application for Type Approval under the standard Type Approval process must be accompanied by the following supporting documentation:
 - i. Evidence of compliance of the RTTE with the relevant standards recognized by ictQATAR. The collection of such evidence is called Technical Construction File (TCF), and must include all supporting documents⁹ set out in section (k) of these guidelines.
 - ii. Proof of payment for the prescribed Type Approval fee. The Type Approval fee covers ictQATAR's processing fee, is not refundable, and must be paid before applying for Type Approval. Details about the acceptable payment methods and proof of payment are described in section 7.
 - iii. ictQATAR reserves the rights to require up to two sample units of the RTTE along with the appropriate test accessories for testing at a laboratory assigned by ictQATAR. The applicant will be responsible for all laboratory or other costs incurred.

⁸ By type of equipment we mean a range of equipment with primarily cosmetic differences between each other and not on the specific essential requirements relating to safety, EMC or radio frequency behavior

⁹ Including the Declaration of Conformity (DoC)

- (g) All supporting documentation presented to ictQATAR will be treated as confidential and will not be disclosed to third parties. The supporting documentation may be submitted to ictQATAR in the form of a certified copy, soft copy in PDF format or CD ROM provided that all documents are legible. The documentation must be in English, or, if in another language, a certified translation in English must be provided.
- (h) No application for Type Approval will be processed unless and until all required supporting documents are submitted to ictQATAR.
- (i) The processing period of an application for Type Approval under the standard Type Approval process takes up to 15 working days from the date on which the complete application package has been submitted to ictQATAR.
- (j) A successful outcome of the assessment of the application for Type Approval will not result in the issuing of a Type Approval certificate in the name of the applicant, but rather in the recording of a corresponding entry of the RTTE in the Type Approval Register published on ictQATAR's website. However, if needed, such certificates (which will be for a specific RTTE and independent of the original applicant¹⁰) will be available in a printable format on ictQATAR's website. Additional information related to the Type Approval Register is provided in section 16.
- (k) ictQATAR reserves the right to reject the application in the case where ictQATAR is not satisfied in respect to any aspect of the application. The applicant may, however, address the non-compliance and submit a new application for Type Approval where appropriate. In case of rejection, the Type Approval Fee will not be reimbursed.

6. Specific documentation for Standard Type Approval process

6.1. Technical Construction File

- (a) The Standard Type Approval process is based on the submission of a Technical Construction File (TCF) which contains all suitable test reports and other supporting documents demonstrating compliance of the RTTE with the required standards recognized by ictQATAR. Its contents must be written in English.
- (b) The format of the TCF is flexible to accommodate the needs of different RTTE types but it must comply with the format and other requirements of the relevant ISO/IEC standard¹¹. It must have a unique identification number or other unique identifier which is cross-referenced in the Declaration of Conformity (DoC). In any event, it must prove the conformity of the RTTE with the applicable

¹⁰ For the avoidance of doubt, such certificate will not have any applicant's name printed on it

¹¹ ISO/IEC 17050-2:2004 (with the exception of clause 5.2(a) of the ISO/IEC standard)

requirements to be assessed. It must cover the design, manufacture and operation of the RTTE and include the following documentation:

- i. An index or table of contents;
- ii. A Declaration of Conformity (DoC) issued by the manufacturer of the RTTE. A more detailed description of the Declaration of Conformity is provided in section 6.2 of these Guidelines;
- iii. Technical/operational documentation of the RTTE including a brief explanation describing how the RTTE is intended to be used and any information related to the installation of the RTTE and relevant to compliance;
- iv. Identification of any communications networks and/or any radio interfaces (antennas or connection points for antennas) concerned, along with any intentional radio spectrum usage;
- v. Where software or firmware may affect compliance of any network interface or have an effect on radio frequency emissions, it should be explicitly referenced and any user configurable options explained;
- vi. If the equipment is an interface card or module for installation in host equipment, the description must give sufficient information for compatible hosts to be determined;
- vii. Circuit diagrams, PCB layouts, parts lists and other design and construction information for those parts of the RTTE which have a direct impact on compliance with the technical requirements, including but not limited to all network or radio interface circuits (antennas or connection points for antennas), power supplies and ports for connecting other equipment which communicates via or interacts with those interfaces. Circuit elements need only to be shown in sufficient detail so that they are understood as regards compliance issues;
- viii. Photographs or illustrations showing external features and internal layout. These should be in sufficient detail to permit reliable visual identification of the RTTE concerned;
- ix. Label placed on the RTTE, as specified in section 8 of these Guidelines;

- x. Test reports issued by accredited Testing Laboratories recognized by ictQATAR (see Appendix F) demonstrating that the RTTE complies with the standards adopted in Qatar with respect to:
 - Effective use of radio frequency spectrum for radio communication equipment
 - Interconnection with Public Telecommunication Networks (in case the equipment is to be interconnected with PTNs)
 - The protection of the health and the safety of the user
 - Electromagnetic Compatibility

6.2. Declaration of Conformity

- (a) A Declaration of Conformity (DoC) is a document issued by the manufacturer of the RTTE on company letterhead or stationery, signed by an authorized representative of that company, confirming that the RTTE complies with relevant standards (telecoms and radio, health and safety, EMC) . The DoC forms part of the Technical Construction File (TCF).
- (b) Any DoC included in the TCF must be issued and maintained in accordance with the relevant ISO/IEC standard¹².
- (c) As stated in the relevant ISO/IEC standard, a Declaration of Conformity (DoC) must include the following information:
 - i. Unique identification of the DoC.
 - ii. The name and contact address of the issuer of the DoC.
 - iii. The identification of the object of the DoC (e.g. name, type, date of production or model number of the product, and other relevant supplementary information).
 - iv. The statement of conformity.
 - v. A complete and clear list of product standards or other specified requirements, as well as the selected options, if applicable.

¹² ISO/IEC 17050-1:2004: specifies general requirements for a supplier's declaration of conformity in cases where it is desirable, or necessary, that conformity of an object to the specified requirements be attested, irrespective of the sector involved. The standard can be downloaded at http://www.iso.org/iso/catalogue_detail.htm?csnumber=29373

- vi. The date and place of issue of the Declaration of Conformity.
 - vii. The signature (or equivalent sign of validation), name and function of the authorized person(s) acting on behalf of the issuer.
 - viii. Any limitation on the validity of the DoC.
 - ix. The name and address of any accredited Testing Laboratory involved (e.g. testing or calibration laboratory, inspection body, certification body) recognized by ictQATAR (see Appendix F).
 - x. Reference to relevant conformity assessment reports, and the date of the reports.
 - xi. Reference to the existence of associated supporting documentation such as that described in the relevant ISO/IEC standard¹³.
- (d) In submitting a DoC confirming that the equipment complies with identified standards, the applicant must ensure that the DoC is authentic and properly applies to the RTTE that is the subject of the application.

7. Fee for Type Approval

- (a) The fees for type approval depend on the Type Approval process to be followed:
 - Simplified Type Approval Process: QR 500 per each new RTTE model
 - Standard Type Approval Process: QR 1000 per each new RTTE model
- (b) The prescribed fee must be paid in advance of submission of the respective application for Type Approval. The fee is non-refundable and has to be paid for each type of equipment.
- (c) Payment of fees should be made by e-cash or bank transfer, in Qatari Riyals (QAR), upon receipt of the invoice from ictQATAR finance department.
- (d) For international applications, payment of fees should also be made in Qatari Riyals (QAR) by e-cash or by bank transfer.

¹³ ISO/IEC 17050-2:2004: specifies general requirements for supporting documentation to substantiate a supplier's declaration of conformity, as described in ISO/IEC 17050-1. Can be downloaded at http://www.iso.org/iso/catalogue_detail.htm?csnumber=35516

- (e) Proof of payment of the prescribed fee must be included with the application for Type Approval submitted to ictQATAR. This proof of payment can be, for instance, a scanned image or screenshot of a bank or credit card statement or payment receipt. It must be in a not editable format and ictQATAR's banking account number, payment amount and the date of payment must be visible.
- (f) The amount of fee for Type Approval may be reviewed from time to time by ictQATAR and updated as necessary.

8. Marking requirements

- (a) Marking is the process of affixing a label and a specified Type Approval number on the Type Approved RTTE which is made or imported into the Qatari market, indicating its compliance with ictQATAR's recognized technical standards and requirements for the purpose of improving consumer's confidence in telecommunications products and services in Qatar.
- (b) All Type Approved RTTE must have a legible label permanently affixed to the outside of such equipment, bearing:
 - i. The corresponding marking from the country or region where the original Type Approval had been obtained¹⁴ in the event that the RTTE in question has been approved according to the Simplified Type Approval process.
 - ii. The label approved by ictQATAR as shown in Appendix C of these Guidelines in the event where the RTTE in question has been approved according to the Standard Type Approval process.
- (c) Any other marking may be affixed to the RTTE provided that the visibility and legibility of the prescribed marking (per paragraph (a) and (b) above) is not thereby reduced.
- (d) Where it is shown that a label permanently affixed to the outside of the RTTE is not desirable or is not feasible, an alternative method of displaying the required label may be used if approved by ictQATAR in writing. The proposed alternative method of labeling and the justification for its use must accompany the applied application for the Type Approval of the concerned RTTE.

¹⁴ e.g. CE conformity marking or FCC marking

- (e) The label may also be affixed on the packaging and/or in the user manual, but it is not mandatory in these places, unless for reasons of size or other design features the RTTE itself cannot be marked¹⁵, in these cases the applicant must include the label in the user documentation accompanying the RTTE before it is displayed or offered for sale.
- (f) The label must be affixed before the RTTE is made available on the Qatari market.
- (g) The label shall be affixed under the responsibility of the manufacturer, his authorized representative in Qatar, or the party responsible for placing the RTTE on the Qatari market.
- (h) The responsible party shall be guilty of an offence if he or she fails to comply with these requirements.
- (i) ictQATAR reserves the right to take appropriate action against the responsible party who has affixed a marking found not to be in conformity with these requirements.

9. Validity of the Type Approval

- (a) The Type Approval for any particular RTTE is granted with an unlimited period of time provided no modifications have been made to the approved RTTE.
- (b) Whenever an existing Type Approved RTTE is modified with respect to manufacturing brand name, product name, model number or function or any change that affect any of the information recorded in the Type Approval Register or the Certificate of Compliance or the Declaration of Conformity, a new application for Type Approval must be made according to the requirements of these Guidelines.
- (c) Whenever changes to the Type-Approved RTTE may affect compliance with the applied standards and requirements to which it has been previously tested and validated, a new application for Type Approval must be made according to the requirements of these Guidelines.
- (d) Whenever changes to the Type-Approved RTTE may affect a network interface or have an effect on the specific essential requirements relating to safety, EMC or radio frequency behavior of the concerned RTTE, a new application for Type Approval must be made according to the requirements of these Guidelines.

¹⁵ As described in paragraph (d) above

- (e) If changes to Type-Approved RTTE are essentially cosmetic¹⁶ and are non network affecting or have no effect on the specific essential requirements relating to safety, EMC or radio frequency behavior, a new application for Type Approval is not required provided that the information recorded in the Type Approval Register remains unchanged.

10. Revocation of Type Approval

- (a) The Type Approval for any particular RTTE shall be revoked in the following cases:
- In the event that the RTTE listed in the Type Approval register has undergone one or more of the changes described in the section above (9.b, 9.c, 9.d) without applying for a new Type Approval.
 - If a default of the Type Approved RTTE becomes known or reported to ictQATAR or other competent authority
 - In the event of a regulation change in Qatar, including but not limited to change in the assignment of a frequency band in which the Type Approved RTTE operates
- (b) ictQATAR will publish a notification on its web site about the cancellation of a Type Approval and the reasons of annulment of the same. The RTTE in question will be removed from the Type Approval register. Only the original applicant who requested the Type Approval for the RTTE will be individually notified.
- (c) Upon cancellation of a Type Approval, any party responsible¹⁷ for placing the RTTE on the Qatari market shall have to withdraw the non-compliant RTTE from the market. Non compliance with this clause is a violation of the Telecommunications Law and will result in the application of fines and penalties as per the Applicable Regulatory Framework.

11. Equipment exempt from Type Approval

There are a number of items that are exempted from the Type Approval process. Each type of equipment subject to this treatment is listed in the table below, along with specified technologies and the type of use (personal or importers).

¹⁶ Cosmetic changes would for instance include: change in color, external design, enclosure, etc.

¹⁷ As defined in section 4

Equipment type	Description	Specified technologies	Type of use	Specific Exclusion
Receiver-only, transmitter RTTE such as mobile handsets	Equipment is <ul style="list-style-type: none"> Receiver-only or transmitter capable only of transmitting under control of a public network that has been Imported for personal use Marked with a compliance marking from a Type Approval Body (e.g. NRA or CAB) recognised by ictQATAR 	<ul style="list-style-type: none"> GSM and UMTS only (including handsets and dongles) 	<ul style="list-style-type: none"> Type Approval exempt only for personal use 	
Receiver only, transmitter RTTE embedded in personal computers	Equipment is embedded in a PC or a laptop and is: <ul style="list-style-type: none"> Receiver-only radio equipment Transmitter equipment with output power below 100 mW 	<ul style="list-style-type: none"> Laptops or personal computers equipped with short range radio technology such as WiFi, Bluetooth 	<ul style="list-style-type: none"> Type Approval exempt for personal use and importers 	Are not Type Approval exempt: <ul style="list-style-type: none"> Similar RTTE if imported as standalone devices (i.e. not embedded in the laptop/ PC) Wireless routers
RTTE for amateur use*	Equipment is <ul style="list-style-type: none"> Terminal equipment To be used by radio amateurs Or kits of components <ul style="list-style-type: none"> Assembled by radio amateurs Modified for use by radio amateurs 	<ul style="list-style-type: none"> Amateur radio in line with ITU region 1 requirements 	<ul style="list-style-type: none"> Type Approval exempt only for personal use by licensed person 	
Cable and wiring RTTE	Equipment is <ul style="list-style-type: none"> Cable and wiring RTTE By nature "passive" equipment 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Type Approval exempt for personal use and importers 	
Broadcast receivers RTTE	Equipment is <ul style="list-style-type: none"> Receiver-only radio equipment intended to be used solely for the reception of sound and TV broadcasting services Include, satellite dish, aerials but exclude DTH set top boxes 	<ul style="list-style-type: none"> TV and sound (radio) broadcast technologies: terrestrial TV (analogue and digital e.g. DVB-T) satellite TV, Radio (FM/AM) 	<ul style="list-style-type: none"> Type Approval exempt for personal use and importers 	Are not Type Approval Exempt: <ul style="list-style-type: none"> LNB component Set-top boxes either for satellite, IPTV or terrestrial (e.g. Dreamboxes are not authorised)
Vehicle component RTTE	Equipment is <ul style="list-style-type: none"> Installed as part of a vehicle (car, motorcycle etc) Includes car navigation, remote sensor, remote car key etc. 	<ul style="list-style-type: none"> Short-range technologies including bluetooth 	<ul style="list-style-type: none"> Type Approval exempt only for personal use 	Are not Type Approval exempt <ul style="list-style-type: none"> Similar RTTE if imported as standalone devices (i.e. Not embedded in the vehicle)
Infrared remote control equipment	Equipment is <ul style="list-style-type: none"> A short range infrared remote control equipment Includes TV remote control, garage door opener 	<ul style="list-style-type: none"> Short-range infrared 	<ul style="list-style-type: none"> Type Approval exempt for personal use and importers 	
RTTE for military use (for security agencies)	RTTE used by Qatar Armed Forces (QAF) or other Security Agencies	<ul style="list-style-type: none"> Various 	<ul style="list-style-type: none"> Only applies to Qatar Army Forces QAF and other Security Agencies 	

* Final decision pending Amateur Radio regulation

12. Criteria & Requirements for Type Approval bodies to be recognized by ictQATAR

- (a) Type Approval bodies that are recognized by ictQATAR include National Regulatory Authorities and Conformity Assessment Bodies and are used as references for the simplified Type Approval process as described in section 5.1.
- (b) ictQATAR will maintain and publish a list of National Regulatory Authorities and accredited Conformity Assessment Bodies that are regarded by ictQATAR as suitable for certifying compliance of the RTTE with the relevant technical standards adopted in Qatar. An initial list is provided in Appendix E and this list will be updated regularly by ictQATAR with the addition of any new recognized NRA or CAB and published on ictQATAR website.
- (c) The Type Approval process of the National Regulatory Authorities in this list is deemed to be accepted by ictQATAR as valid for the RTTEs in Qatar. Therefore, an applicant to the Type Approval for a RTTE that has been Type Approved by one of these NRAs needs only to provide evidence in the form of a Type Approval Certificate. It should be noted however that evidence of such Type Approval will be reviewed in light of the specificities of the Qatari market¹⁸ and will be accepted upon sole discretion of ictQATAR.
- (d) At the start of the new Type Approval Regime, ictQATAR will recognize only the National Regulatory Authorities that satisfy all of the following criteria:
 - i. The NRA is in a country belonging to ITU Region I
 - ii. The NRA has in place a Type Approval regime deemed to be acceptable by the standards of ictQATAR¹⁹
- (e) The Conformity Assessment Bodies in this list have been accepted as accredited to assess and certify RTTE according to the technical standards or other specified requirements adopted in Qatar, as identified in the accreditation scope for each of them. In addition, ictQATAR recognizes the conformity assessment process of the CAB of this list to be valid for the purpose of issuing Type Approval in Qatar. Therefore an applicant to the Type Approval for a RTTE that has been issued duly signed and dated Certificate of Compliance²⁰ by one of these CABs certifying that the

¹⁸ Including but not limited to Qatar NFAP

¹⁹ These standards include but are not limited to: Type Approval Guidelines publically available and documented in appropriate details, similarity of the Type Approval approach to ictQATAR, etc

²⁰ As defined in section 2 and includes for instance Type Approval Certificate, FCC grant of equipment authorization, "Notified Body Expert Opinion" stating conformity to EN standards etc

equipment complies with the appropriate standards, needs only to provide evidence in the form of the above mentioned Certificate of Compliance. It should be noted however that evidence of such Type Approval will be reviewed in light of the specificities of the Qatari market²¹ and will be accepted upon sole discretion of ictQATAR.

- (f) At the start of the new Type Approval Regime, ictQATAR will recognize only the Conformity Assessment Bodies that are accredited by a national accreditation agency or a national government body from selected countries: EU member states, GCC member states, USA, Canada, Australia, New Zealand, Japan.
- (g) Where radio frequencies are concerned, the CAB shall be able to provide Certificates of Compliance for use in ITU Region I.
- (h) Where the Simplified Type Approval process has been followed, the relevant Certificates of Compliance from those Conformity Assessment Bodies recognized by ictQATAR must be accompanied by the evidence of the relevant qualifications (e.g. accreditation certificate or other documentary evidence) of the respective body involved.

13. Criteria & Requirements for accredited Testing Laboratories to be recognized by ictQATAR

- (a) ictQATAR maintains and publishes on its web site a list of accredited Testing Laboratories that are regarded by ictQATAR as suitable for performing tests demonstrating compliance of the RTTE with the relevant standards recognized by ictQATAR. These accredited Test Laboratories are used as reference for the standard Type Approval process as described in section 5.2 .
- (b) The laboratories in this list have been accepted as accredited to perform laboratory test results according to the relevant product standards or other specified requirements adopted in Qatar, as identified in the accreditation scope for each laboratory. A manufacturer of RTTE that must comply with one or more of these standards and requirements must support its evidence of compliance with test results from one of these laboratories as defined in the standard Type Approval process in section 5.2.
- (c) Accredited Test Laboratories can be deemed as recognized by ictQATAR only if the following requirements are met:

²¹ Including but not limited to Qatar NFAP

- i. The laboratory is compliant with ISO/IEC 17025²²
 - ii. Compliance to ISO/IEC 17025 is certified by an Accreditation Body, who is a member of the International Laboratory Accreditation Cooperation (ILAC)²³ (see Figure I for ILAC structure)
- (d) Where the standard type approval process has been followed, the relevant assessment test results from each one of those laboratories recognized by ictQATAR must be accompanied by the evidence of the relevant scope of accreditation of respective laboratory involved.

Figure I - ILAC structure



14. Role and Responsibility of the Importers, Manufacturers, and Licensed Operators

In accordance with the regulation laid down in the Type Approval Policy and in section 4 of these Type Approval Guidelines, the application for type approval of Radio Equipment and Telecommunications Terminal Equipment (“RTTE”) must be made by Local and International

²² ISO/IEC 17025:2005, “General requirements for the competence of testing and calibration laboratories” is the main standard used by testing and calibration laboratories worldwide. Several Accreditation Bodies exist in the world to certify compliance with these standards, often non-profit organization. There is often one major Accreditation Body in each country, except in the US where there are at least two major non-profit organizations. Most Accreditation Bodies are members of ILAC, and share Mutual Recognition Agreements among them

²³ ILAC, International Laboratory Accreditation Cooperation is the main international association among Accreditation Bodies (AB). Members are structured along the following hierarchy: Regional Cooperation Bodies (APLAC for Asia-Pacific, EA for Europe, IAAC for the Americas – a fourth one, SADCA for Africa, is still in the process of acquiring full recognition); Full members (MRA signatories, approx. 65 members); Associates; Affiliates; National Coordination bodies; Stakeholders. Among full members there is only one Accreditation Body in the GCC region, the Dubai Municipality – Accreditation department. In addition there is another UAE Associate AB (ESMA) and one Saudi Affiliate AB (SASO)

Manufacturers, Authorized Importers, Licensed Operators, Persons (individuals or companies) in Qatar wishing to import RTTE for their own use and authorized representatives or agents of any of those parties. The following paragraphs of this section are intended to clarify and define the roles and responsibilities of all parties in respect of import, use, sale, and offer for sale of RTTE in the state of Qatar.

14.1. Local and International Manufacturers

- (a) Local and International Manufacturer means manufacturer of a finished product, or the manufacturer of a component part and any Person who, by putting his name, trade mark or other distinguishing feature on the product presents himself as its manufacturer.
- (b) Local and International Manufacturers of RTTE should manufacture their equipments in a way which prevents networks from suffering harm which results in degradation of service when used under normal operating conditions.
- (c) For each RTTE to be approved by ictQATAR, all essential compliance tests must be carried out by the manufacturer or on his behalf.
- (d) Local and International Manufacturers, their authorized representatives (e.g. Authorized Importers) or the Person responsible for placing the RTTE on the Qatari market must declare that all the relevant compliance tests have been carried out and that the RTTE complies with the essential requirements and standards relating to safety, EMC and telecommunications.
- (e) Local and International Manufacturers, their authorized representatives (e.g. Authorized Importers) or the Person responsible for placing the RTTE on the Qatari market must provide information for the user on the intended use of the RTTE, together with the Declaration of Conformity to the essential requirements and standards relevant for concerned RTTE.
- (f) Local and International Manufacturers, their authorized representatives or the Person responsible for placing the RTTE on the Qatari market are responsible for the affixing of the Label to the approved RTTE in accordance with the rules and requirements set out in section 8 of these Guidelines.
- (g) Local and International Manufacturers, their authorized representatives or the Person responsible for placing previously approved RTTE on the Qatari market must keep the supporting documentation described in sections 5 and 6 at the disposal of ictQATAR for inspection purposes.

- (h) Where neither the manufacturer nor his authorized representative is located in the State of Qatar, the obligation to keep the technical documentation available is the responsibility of the Person who places the product on the Qatari market.
- (i) Local and International Manufacturers, their authorized representative, or the Person responsible for placing the RTTE on the Qatari market, is liable for any damage caused by faulty RTTE according to the rules of the law of contractual or non-contractual liability in the State of Qatar.

14.2. Authorized Importers

- (a) An Authorized Importer must be a Qatari company or establishment located in the state of Qatar and must hold a valid Qatari commercial registration covering commercial activities in wired and wireless telecommunications, RTTE and/or IT equipment, depending on the scope of the equipment which he or she intends to import and offer for sale in the state of Qatar.
- (b) An Authorized Importer can act as representative on behalf of more than one manufacturer
- (c) Subject to the liability of the manufacturer set out in paragraph 14.1 of these Guidelines, any Authorized Importer who imports into the State of Qatar a RTTE for use, sale, leasing or any other form of commercial and/ or marketing purpose shall be deemed to be a manufacturer within the meaning of these Guidelines and shall be responsible as a manufacturer.
- (d) The Authorized Importer shall be legally responsible for ensuring that any approved RTTE imported into Qatar is suitable for the purpose for which it is supplied and that it operates in accordance with the claims made for it.
- (e) Whenever any relevant change to the scope of activities defined in the commercial registration of the Authorized Importer may take place, an application for modification or cancellation of the authorization must be made to ictQATAR.

14.3. Licensed Operators

- (a) A Licensed Operator is a Qatari company or establishment located in the state of Qatar that is licensed by ictQATAR to own, establish or operate a telecommunications network.

- (b) Licensed Operators should construct their networks in a way that does not oblige manufacturers of RTTE to take disproportionate measures to prevent networks from being harmed. ictQATAR will take account of this objective when developing standards concerning access to public telecommunications networks.
- (c) Licensed Operators of public telecommunications networks should be able to define the technical characteristics of their interfaces.
- (d) Licensed Operators of public telecommunications networks should publish accurate and adequate technical specifications of their network interfaces before any service provided through those interfaces is made publicly available and regularly publish any updated specifications.
- (e) The technical specifications shall be in sufficient detail to enable manufacturers to design RTTE capable of utilizing all services provided through the corresponding interface.
- (f) The technical specifications shall include all the information necessary to allow manufacturers to carry out the relevant compliance tests for the essential requirements applicable to the RTTE. The licensed network operator shall ensure that those specifications are made readily available to ictQATAR.
- (g) All RTTE issued with the Type Approval by ictQATAR shall be connected to the public telecommunications networks without inspection by the licensed network operators and the network operators have no right to refuse the connection of the RTTE to the appropriate interfaces.
- (h) Where ictQATAR considers that any RTTE issued with the Type Approval by ictQATAR causes serious damage to a network or harmful radio interference or harm to the network or its functioning, the licensed operator may be authorized by ictQATAR to refuse connection, to disconnect such RTTE or to withdraw it from service.
- (i) In case of emergency, a Licensed Operator may disconnect an RTTE if the protection of the network requires the equipment to be disconnected without delay and if the user can be offered, without delay and without costs for him, an alternative solution. The Licensed Operator shall immediately inform ictQATAR in this regard.

14.4. Persons (individuals or companies) in Qatar wishing to import RTTE for their use

- (a) Radio equipment granted with the Type Approval by ictQATAR can be imported by Persons (individuals or companies) located in the state of Qatar for their own use, subject to a maximum number of:
 - i. In the case of import by individuals: 5 (five) units in total of a category of equipment within a time period of one year from the date of import of the equipment
 - ii. In the case of import by companies: a total not exceeding 20 (twenty) units for the whole company in Qatar of a category of equipment within a time period of one year from the date of import of the equipment.
- (b) Persons (individuals or companies) wishing to import more equipment than the limits set above in (a) may request ictQATAR in writing to do so, explaining the reasons for their request. ictQATAR will then decide on a case-by-case basis to issue approval, taking into account the particular situation of the requester and the need to safeguard the interests of other parties. An import authorization for a predefined quantity of equipment will be issued by ictQATAR when it deems that the particular situation is justified. Where ictQATAR is not satisfied in respect of any aspect of the request it will decline the request and notify the applicant indicating the reasons for its decision.
- (c) Persons (individuals or companies) importing License-Free Radio equipment for their own use must declare to the customs authorities that the equipment concerned is for its own use only and present, if needed, evidence of the number of employees of the company or the authorization from ictQATAR referred to in paragraph (b) of this section.
- (d) ictQATAR reserves the rights to exclude any specific License-Free Radio equipments from the import for own use, as it deems necessary and appropriate. A notice in this regard shall be published on ictQATAR's website.

15. Monitoring and Surveillance

- (a) It is a violation of the Telecommunications Law to import, supply or use RTTE which is not Type Approved or which does not meet applicable technical requirements and standards in Qatar.
- (b) ictQATAR will perform market surveillance activities from time to time to ensure that only type approved RTTE is sold in Qatar. Such surveillance activities may result

from a complaint, a report of interference, visual inspection of RTTE in a retail outlet, inappropriate advertising or simply random selection.

- (c) An authorized officer of ictQATAR shall at any reasonable time enter any premises in which the importer, supplier or distributor is keeping the imported RTTE for inspection purposes.
- (d) Importers, suppliers or distributors of RTTE must cooperate in such activities and provide the equipment or sample units of it and/or make all or part of the supporting documentation at the disposal of ictQATAR on request without delay and without costs.
- (e) Where an initial examination is inconclusive or unsatisfactory, additional information may be requested and one or more sample units of the RTTE may be required for testing at a laboratory assigned by ictQATAR. The Type Approval applicant, his authorized representative in Qatar or the party responsible for placing the RTTE on the Qatari market will be responsible for all laboratory or other costs incurred. ictQATAR will return such equipment to the applicant if they are found to be compliant with the technical requirements and standards in Qatar.
- (f) At the time when non-compliance of the RTTE with any relevant requirement or standard is discovered, ictQATAR may take all appropriate measures to withdraw the RTTE in question from the market or from service, prohibit its placing on the Qatari market or putting into service or restrict its free movement or other enforcement measures that may be deemed as appropriate by ictQATAR.
- (g) ictQATAR reserves the right to withdraw the importer authorization at any time where it deems that the relevant regulations and technical requirements have not been observed.
- (h) ictQATAR may publish on its website, upon its sole discretion, information deriving from its monitoring and surveillance activities.

16. Type Approval Register

- (a) The Type Approval Register contains detailed information on all equipment authorized by ictQATAR for use, import and commercialization in Qatar.
- (b) The information in the Type Approval Register is derived from the application presented for Type Approval by the applicant (Importer, Manufacturer, Operator, Company). The applicant is responsible for the correctness of this information.

- (c) The Type Approval register is maintained by the Type Approval personnel, who is responsible for inputting new entries upon successful registration.
- (d) The Type Approval Register is made available to all interested parties on ictQATAR website.
- (e) There are three different levels of details for each equipment:
 - Basic: Description of the equipment, including the main information necessary to identify it and some minimum information on the applicant and application process adopted. This information is always included in the Type Approval register
 - Technical: These items include a set of more detailed and technical information. Although not strictly necessary to identify the RTTE, such information can be useful to get a better understanding of RTTE's functions and characteristics. This information is included in the Type Approval register based solely upon discretion of the Type Approval manager. This will most likely happen for RTTE subject to the standard Type Approval process, where the above mentioned information is entered along with the application form.
 - Compliance: These items include the information concerning the presence of Type Approval certifications from external bodies, manufacturer's Declaration of Conformity, and/or accompanying test reports from recognized Testing Laboratories. This set of data is included in the Type Approval register based solely upon discretion of the Type Approval manager.
- (f) The Basic set of data includes:
 - i. Type of RTTE
 - ii. Equipment category
 - iii. Model number
 - iv. Brand name
 - v. Type number
 - vi. Manufacturer
 - vii. Country of origin
 - viii. Type of Type Approval process (simplified/standard)
 - ix. Notes (free text field for additional information)
- (g) The Technical set of data includes:
 - i. Operating frequency band
 - ii. Radio frequency power of radio equipment
 - iii. Transmission capacity
 - iv. Channels

- v. Channel spacing
- vi. Frequency stability
- vii. Modulation type
- viii. ITU emission designator
- ix. Whether or not the Radio Equipment requires a license from ictQATAR

(h) The Compliance set of data includes:

- i. Certification Body name
- ii. Certification Body country
- iii. Date of certification issue
- iv. Testing laboratory name
- v. Testing laboratory country
- vi. Testing laboratory accreditation body name
- vii. Testing laboratory accreditation body country
- viii. Testing laboratory accreditation body member of ILAC
- ix. Testing laboratory accreditation body compliant to ISO/IEC 17025
- x. EMC compliant standard
- xi. Radio compliant standard
- xii. Safety/Health compliant standard

17. Importer Register

- (a) The Importer Register contains information on all entities authorized by ictQATAR to import RTTE in Qatar for commercialization.
- (b) The information in the Importer Register is derived from the application presented by the applicant. The applicant is responsible for the correctness of this information.
- (c) The Importer Register is maintained by the Type Approval personnel, who is responsible for entering new entries upon successful registration
- (d) The Importer Register is made available to all interested parties on ictQATAR web site.
- (e) The Importer register includes the following data:
 - i. ictQATAR registration number
 - ii. Date of registration with ictQATAR
 - iii. Company name
 - iv. Company registration number in Qatar
 - v. Description of Company business
 - vi. Company postal address

- vii. Contact person name
- viii. Contact person e-mail address
- ix. Contact person telephone number
- x. Contact person fax number
- xi. Additional ictQATAR reference number (e.g. licence number)
- xii. Notes (free text field for additional information)

18. Transitional Arrangements

- (a) The new Type Approval regime is immediately enforced upon publication of these Guidelines for all new RTTE that has not yet been imported or commercialized in Qatar, and for which no Type Approval has already been issued. RTTE whose Type Approval is pending will have to follow the new regime, and a new Type Approval application according to the present document will have to be followed.
- (b) RTTE that was type-approved by ictQATAR prior to the implementation of the new Type Approval Regime shall be deemed to be certified and approved for use in Qatar and will be included in the Type Approval Register. No new application is required.
- (c) Upon registration in the Type Approval Register of RTTE that was previously type-approved, ictQATAR will assign an appropriate TA registration number and will notify the former TA Holder. Until then, only the former TA Holder will be allowed to import and commercialize the equipment, as per the previous regulation. Following the registration in the Type Approval Register, all Authorized Importers will be able to import and commercialize the said RTTE, as per the new regime.
- (d) The RTTE already circulating on the basis of the pre-existing regime will be exempted from labeling requirements as stated in section 8 for the time being. ictQATAR will make a further announcement in advance of this grace period elapsing. After such time, all RTTE will have to be properly labeled and cannot be commercialized without the appropriate marking.
- (e) Importers who hold a Dealer's License from ictQATAR prior to the implementation of the new Type Approval Regime are not automatically deemed to be Authorized Importers. They will not be included automatically in the Importers Register. Such a person has to seek separate authorization from ictQATAR in order to import RTTE to Qatar for marketing/commercial purposes.
- (f) All new applications for Type Approval after the implementation of the new Type Approval Regime must follow the processes and requirements of the new regime as set out in this Policy and any guidelines, rules, procedures or forms issued by ictQATAR.

19. Contact references

- (a) Application for Type Approval can be delivered to ictQATAR in the following ways:
 - i. Handed in person in ictQATAR offices in (Al Nasr Tower) during normal office hours. The documentation must be contained in a single package/envelope and addressed to (ictQATAR – Regulatory Authority – Technical Affairs Department)
 - ii. Sent via normal mail to ictQATAR mail box (23264)
 - iii. Sent via e-mail to the following address: (consult@ict.gov.qa)

- (b) In case the application is sent electronically, the files must be in non-editable formats, such as PDF or JPG, and formatted in such a way to be easily printable

- (c) Any request for information about the Type Approval process can be addressed in person at ictQATAR's offices or by telephone calling the number (4995338 or 4995363)

20. Appendix A – Simplified Type Approval form

Applicant's details (tick appropriate / insert registration number)	
<input type="checkbox"/> Manufacturer (local or international)	
<input type="checkbox"/> Person (individual or company – own use)	
<input type="checkbox"/> Licensed Operator	
<input type="checkbox"/> Authorized Importer - Import Registration No.:	
Company Name	
Contact Person	
Address	
P.O. Box	
Telephone	
Fax	
E-mail	
Technical details of the equipment	
Equipment category	<input type="checkbox"/> GSM <input type="checkbox"/> DECT <input type="checkbox"/> UMTS <input type="checkbox"/> TETRA <input type="checkbox"/> Amateur Radio <input type="checkbox"/> Private Mobile Radio <input type="checkbox"/> Maritime radio <input type="checkbox"/> Radar <input type="checkbox"/> RLAN <input type="checkbox"/> WiMAX <input type="checkbox"/> FWA <input type="checkbox"/> Microwave <input type="checkbox"/> Sound broadcasting <input type="checkbox"/> TV broadcasting <input type="checkbox"/> WiFi <input type="checkbox"/> Bluetooth <input type="checkbox"/> RFID <input type="checkbox"/> Amateur satellite Radio <input type="checkbox"/> Radio navigation <input type="checkbox"/> Satellite TV <input type="checkbox"/> VSAT <input type="checkbox"/> Analogue PSTN <input type="checkbox"/> xDSL modem <input type="checkbox"/> Voice equipment <input type="checkbox"/> Leased Line eqt <input type="checkbox"/> Switched data eqt <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Others (please specify): _____
Intended use (e.g. handset, etc)	
Manufacturer name	
Manufacturer details (address etc)	
Model/ brand name	
Type	
Please submit the following documents along with this filled in application form	
1. Certificate of Compliance (issued by a National Regulatory Authority or a Conformity Assessment Body recognized by ictQATAR)	
2. Proof of payment of Type Approval fee (500 QR)	
Details of the Certificate of Compliance	
Issuing body	
Issue date	
Validity	

Type Approval Guidelines



Signature of applicant			
Name (printed):		Date:	
Authorized Signature of Applicant:			
ictQATAR section			
Approved by		Date of issue	
Certification Number			
Additional Details / Comments In case of rejection (Missing Data, etc)			

21. Appendix B – Standard Type Approval form

Applicant's details (tick appropriate / insert registration number)	
<input type="checkbox"/>	Manufacturer (local or international)
<input type="checkbox"/>	Person (individual or company – own use)
<input type="checkbox"/>	Licensed Operator
<input type="checkbox"/>	authorized Importer by ictQATAR - Import Registration No.:
Company Name	
Contact Person	
Address	
P.O. Box	
Telephone	
Fax	
E-mail	
Manufacturer details	
Company Name	
Contact Person	
Address	
P.O. Box	
Telephone	
Fax	
E-mail	
Please submit the following documents along with this filled in application form:	
<p>The following list of documents needs to be submitted. Items 1 to 7 constitute the Technical Construction File (TCF). Please refer to the Type Approval Guidelines section 6.1 and 6.2 in case more details are needed.</p> <ol style="list-style-type: none"> 1. Declaration of Conformity issued by the manufacturer of the RTTE 2. Technical/ operational documentation of the RTTE including user /installation manual 3. Test Reports of accredited laboratory 4. Circuit diagram, PCB layout, part lists and other relevant design information 5. Photographs (external/internal) 6. Label 7. Test reports issued by accredited testing laboratories recognized by ictQATAR 8. Proof of Payment of Type Approval fee (1000 QR) 	

Technical details of the equipment						
Equipment category	<input type="checkbox"/>	GSM	<input type="checkbox"/>	DECT	<input type="checkbox"/>	UMTS
	<input type="checkbox"/>	TETRA	<input type="checkbox"/>	Amateur Radio	<input type="checkbox"/>	Private Mobile Radio
	<input type="checkbox"/>	Maritime radio	<input type="checkbox"/>	Radar	<input type="checkbox"/>	RLAN
	<input type="checkbox"/>	WiMAX	<input type="checkbox"/>	FWA	<input type="checkbox"/>	Microwave
	<input type="checkbox"/>	Sound broadcasting	<input type="checkbox"/>	TV broadcasting	<input type="checkbox"/>	WiFi
	<input type="checkbox"/>	Bluetooth	<input type="checkbox"/>	RFID	<input type="checkbox"/>	Amateur satellite Radio
	<input type="checkbox"/>	Radio navigation	<input type="checkbox"/>	Satellite TV	<input type="checkbox"/>	VSAT
	<input type="checkbox"/>	Analogue PSTN	<input type="checkbox"/>	xDSL modem	<input type="checkbox"/>	Voice equipment
	<input type="checkbox"/>	Leased Line eqt	<input type="checkbox"/>	Switched data eqt	<input type="checkbox"/>	
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
	<input type="checkbox"/>	Others (please specify): _____				
	Intended use (e.g. handset, etc)					
Model number						
Brand name						
Type number						
Country of origin						
Frequency range	From		MHz to		MHz	
	From		GHz to		GHz	
Output Power [mW] radiated:			Bandwidth			
Conducted:						
Transmission Capacity			Channels			
Channel Spacing			Frequency Stability			
Modulation type (e.g. AM, FM, OFDM, etc)			ITU Emission designator			
Antenna Type	<input type="checkbox"/> Integral: _____		<input type="checkbox"/> External: _____			
Antenna Gain						
Interfaces	<input type="checkbox"/> Power Source <input type="checkbox"/> Connectors <input type="checkbox"/> Software <input type="checkbox"/> Others					
Technical Variants	To be declared in a separate document (Declaration / certificates)					
Equipment licence requirement	<input type="checkbox"/> Licence required		<input type="checkbox"/> Licence not required			
Standards compliant with						
EMC			Test report Nr.:			
Radio			Test report Nr.:			
Health and Safety			Test report Nr.:			
Technology specific			Test report Nr.:			

Type Approval Guidelines



Signature of applicant			
Name (printed):		Date:	
Authorized Signature of Applicant:			
ictQATAR			
Approved by		Date of issue	
Certification Number			
Additional details / comments in case of rejection (missing data, etc)			

22. Appendix C – ictQATAR label



The characters shall appear in black print against a white background.

No character shall be less than 2mm in height.

The letter “Q” of “ictQATAR” shall be at least 3mm in height.

Where “nnnnnn” appears shall be substituted the registration number allocated by ictQATAR to the equipment concerned.

Where “xxxxxxxx” appears shall be substituted the dealer registration number allocated by ictQATAR to the Authorized Importer who made the application concerned.

When the label is applied to the packaging of equipment, the minimum dimensions specified above shall be doubled.

23. Appendix D – Technical Standards

23.1. Introduction and Scope

This Appendix lists the Technical Specifications requirements applicable to all radio and telecommunications terminal equipments (RTTE) intended to be used in Qatar.

This Appendix covers standards related to four groups of requirements of compliance imposed by ictQATAR on RTTE:

- Effective use of radio frequency spectrum for radio telecommunication equipment
- Interconnection of telecommunications terminal equipment with the Wireline Public Network
- Protection of the health and the safety of the user
- Electromagnetic Compatibility

23.2. Definitions of applicable standards

For the purposes of use of this Appendix to the Guidelines, the following international bodies are referred to:

- **ANSI** American National Standards Institute²⁴
- **CENELEC** European Committee for Electro-technical Standardisation²⁵
- **CISPR** International Special Committee for Radio Interference²⁶
- **IEC** International Electro-technical Commission²⁷
- **ITU** International Telecommunications Union²⁸
- **ETSI** European Telecommunications Standards Institute²⁹
- **ATEX** EXplosive ATmospheres Directive³⁰

²⁴ ANSI standards can be obtained from, <http://webstore.ansi.org>

²⁵ CENELEC standards can be obtained from, www.cenelec.org

²⁶ CISPR standards can be obtained from, www.cenelec.org

²⁷ IEC standards can be obtained from, www.iec.ch

²⁸ ITU standards can be obtained from, www.itu.int

²⁹ ETSI standards can be obtained from, www.etsi.org

³⁰ ATEX Directive can be obtained from, http://ec.europa.eu/enterprise/sectors/mechanical/atex/index_en.htm

23.3. Applicable technical standards – Radio Telecommunication Equipment

Each type of Radio Telecommunications Equipment is described in the figure below. In turn, for each type of Radio Telecommunications Equipment the specific standards that the equipment needs to comply with is listed in Figure 3 - to Figure 10 - .

Figure 2 - Applicable Radio Technologies Categories

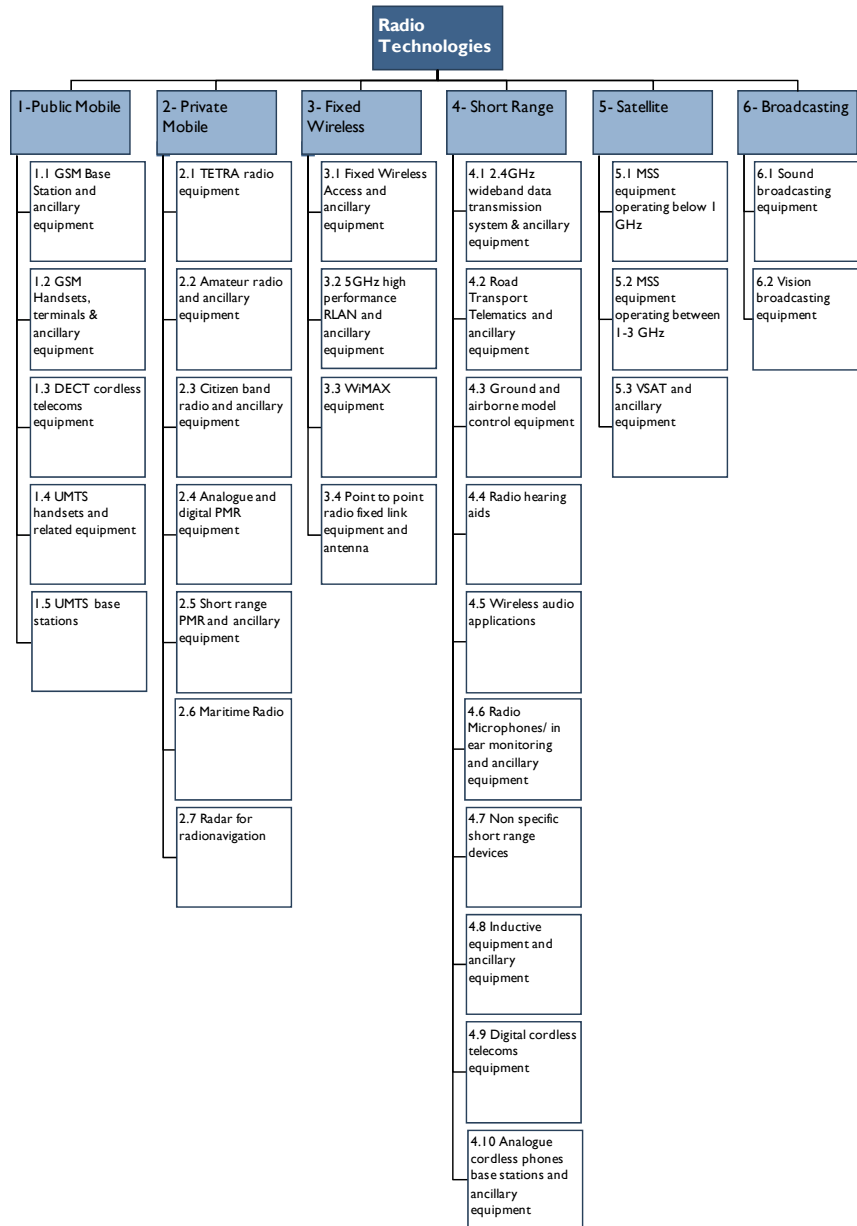


Figure 3 - Public Mobile

Service defined in NFAP in Qatar	Frequency Band	Applicable Sub-section of Framework	Reference standards for conformity	
GSM DCS	880-915 MHz 925-960 MHz 1705-1785 MHz 1805-1880 MHz	GSM Base Station and Ancillary equipment	1.1	EN 301 489-8 EN 301 502
		GSM Handsets, terminals & ancillary equipment	1.2	EN 301 489-7 EN 301 511
DECT	1880-1900 MHz	DECT cordless telecoms equipment	1.3	EN 301 489-6 EN301 406
IMT	1900-1920 MHz 1920-1980 MHz 2110-2170 MHz	UMTS handsets and related equipment	1.4	EN 301 908-1 EN 301 908-2 EN 301 908-6 EN 301 489-24 EN 301 908-3 EN 301 908-7 EN 301 908-11 EN 301 489-23
		UMTS base stations	1.5	

Figure 4 - Private Mobile

Service defined in NFAP in Qatar	Frequency Band	Applicable Sub-section of Framework	Reference standards for conformity	
TETRA	380-399.9 MHz 410-430 MHz	TETRA radio equipment	2.1	EN 301 489-18 EN 303 035-1 EN 303 035-2
Amateur Radio	3.5-3.8 MHz 7.0-7.2 MHz 14-14.35 MHz 21-21.45 MHz 24.89-24.99 MHz 144-146 MHz	Amateur radio and ancillary equipment	2.2	EN 301 489-15 EN 301 783-2
CB Radio	26.965-27.405 MHz	Citizen band radio and ancillary equipment	2.3	EN 301 489-13 EN 300 135 EN 300 135-1 EN 300 135-2
Private Mobile Radio	430-470 MHz	Analogue and digital PMR equipment	2.4	EN 301 489-5 EN 300 793 EN 300 471-2 EN 300 086-2 EN 300 113-2
		Short range PMR and ancillary equipment	2.5	EN 300 296-2 EN 301 166-2 EN 300 390-2
Maritime Radio	156.025-174 MHz	Maritime Radio	2.6	EN 300 698 EN 301 025 EN 301 178
Radar for Radio-navigation	1.260-1.350 GHz 2.700-3.300 GHz 9.3 – 9.5 GHz 76-77.5 GHz	Radar for radio-navigation	2.7	TBC EN 302 248 EN 302 194

Figure 5 - Fixed Wireless

Service defined in NFAP in Qatar	Frequency Band	Applicable Sub-section of Framework	Reference standards for conformity			
RLAN Wi-Fi WLAN	5.725-5.85 GHz	5GHz high performance RLAN and ancillary equipment	3.1	EN 301 489-1	EN 301 489-17 EN 301 893	
WiMax	2.495-2.690 GHz 3.40-3.60 GHz	WiMAX equipment	3.2			EN 301 753
FWA WLL (phased out) BWA	10.60-10.68 GHz 1.429-1.452 GHz 2.3-2.4 GHz 4.8-5.0 GHz	Fixed Wireless Access and ancillary equipment	3.3		EN 301 489-4 EN 302 217-2-2 EN 302 217-3	EN 301 753 EN 302 326-2 EN 302 326-3
Digital Microwave Radio	10.7-11.7 GHz 12.75-13.25 GHz 14.40-15.35 GHz 17.70-19.70 GHz 21.20-23.60 GHz 27.50-29.50 GHz 31.80-33.40 GHz 37.0-39.5 GHz	Point-to-point radio fixed link equipment and antenna	3.4			EN 302 217-4-2

Figure 6 - Short Range (non specific short range devices)

Typical Application Type	Authorised Frequency Bands / Frequencies (channel spacing)	Applicable sub-section of Framework	Reference standards for conformity	Maximum Field Strength / RF Output power	
ISM	6765 kHz – 6795 kHz 13.553 MHz – 13.567 MHz 26.957 MHz – 27.405 MHz 40.66 MHz – 40.7 MHz	Non-specific short range devices	4.1	FCC Part 15 EN 300 220 EN 300 330	42 dBµA/m at 10 m e.i.r.p 10mW
	868 MHz – 868.6 MHz 868.7 MHz – 869.2 MHz 869.4 MHz – 869.65 MHz 869.7 MHz – 870 MHz	Non-specific short range devices	4.1	EN 300 220	e.i.r.p 25 mW e.i.r.p 100 mW e.i.r.p 25 mW e.i.r.p 25 mW
ISM, WLAN, Bluetooth	2400 MHz – 2483.5 MHz	Non-specific short range devices	4.1	EN 300 440 EN 300 328	e.i.r.p 10 Mw indoor only
ISM	61 GHz – 61.5 GHz 122 GHz – 123 GHz 244 GHz – 246 GHz	Non-specific short range devices	4.1	EN 300 440 FCC Part 15	e.i.r.p 100 mW

Figure 7 - Short Range (continued)

Typical Application Type	Authorised Frequency Bands / Frequencies (channel spacing)	Applicable sub-section of Framework	Reference standards for conformity	Maximum Field Strength / RF Output power
SRD radar systems	10.5 GHz – 10.6 GHz 24.05 GHz – 24.25 GHz 57 GHz – 64 GHz 75 GHz – 85 GHz	Radio-determination application	4.2 EN 300 440 EN 302 288 EN 302 372	e.i.r.p 500 mW e.i.r.p 100 mW e.i.r.p -41.3 dBm/MHz
Vehicle telematics	5795 MHz – 5805 MHz 76 GHz – 77 GHz	Road transport and traffic telematics	4.3 EN 300 674 EN 200 674 EN 301 091	e.i.r.p 2 W 55 dBm peak e.i.r.p -50 dBm Average power -23.5 dBm
Car immobilisers, alarm systems, data transfer to handheld devices etc.	9 kHz – 148.5 kHz 3155 kHz – 400 kHz 6765 kHz – 6795 kHz 7400 kHz – 8800 kHz 13.553 MHz – 13.567 MHz 26.957 MHz – 27.283 MHz 430 MHz – 435 MHz 830 MHz – 850 MHz	Inductive applications	4.4 EN 302 291 EN 300 330 FCC part 15 EN 300 220	72 dBµA/m at 10m 13.5 dBµA/m at 10m 42 dBµA/m at 10 m 9 dBµA/m at 10 m 60 dBµA/m at 10 m 42 dBµA/m at 10 m, e.r.p 10mW e.r.p 10mW e.r.p 10mW
Purpose of controlling movement of a model	26MHz, 27MHz, 76MHz 34.995MHz, 35.225MHz	Model control	4.5 EN 300 220	e.r.p 100 mW Only for flying models
Article identification, asset tracking, alarms etc.	13.553 MHz – 13.567 MHz 2446 MHz – 2454 MHz	Radio Frequency identification applications	4.6 EN 302 291 EN 300 440	60 dBµA/m at 10 m e.i.r.p 500 mW

Figure 8 - Short Range (continued)

Typical Application Type	Authorised Frequency Bands / Frequencies (channel spacing)	Applicable sub-section of Framework	Reference standards for conformity	Maximum Field Strength / RF Output power
Active Medical Implant, hearing aids etc.	401 MHz – 406 MHz 9 kHz – 315 kHz 30 MHz – 37.5 MHz 169.4 MHz – 174 MHz	Wireless applications in healthcare & listening devices	4.7 EN 301 839 EN 302 537 EN 302 195 EN 302 510 EN 300 422	e.r.p 25 µW 30 dBµA/m at 10 m e.r.p 1 m W e.r.p 10 m W
Cordless loudspeakers, headphones etc.	43 MHz, 46 MHz, 47 MHz, 49MHz 900 MHz 1795 MHz – 1800 MHz 87.5 MHz – 108 MHz	Wireless audio applications	4.8 EN 301 357	e.i.r.p 10 m W “” e.i.r.p 20 m W e.r.p 5 m W
Vehicle Immobilizer, antitheft system, navigation device etc.	133 kHz 134 kHz 433.72 MHz – 434.12MHz 133 kHz 433 MHz 458.95 MHz 2450.00MHz 24.15 GHz 76 GHz – 77 GHz 1575.42MHz 13.553 MHz – 13.567MHz	Vehicle-fitted radio products	4.9 EN 301 357 EN 301 357 EN 301 357 EN 301 357 EN 301 357 EN 300 220 “” “” “” “” “” EN 300 328 EN 300 440 EN 301 091 EN 302 291 EN 300 330	60 dBµA/m at 10 m 70 dBµA/m at 10 m, e.r.p. 10 mW (10 dBm), 75.6 dBµA/m at 3 m, e.r.p. 0.1 mW, 95 dBµA/m at 3 m, e.r.p 1 m W 70 dBµA/m at 10 m, e.r.p 10 mW (10 dBm) e.i.r.p 1 m W e.i.r.p 10 m W 10 W to 15 W Peak e.i.r.p 316.22 W Peak e.i.r.p 60 dBµA/m at 10 m

Figure 9 - Satellite

Service defined in NFAP in Qatar	Frequency Band	Applicable Sub-section of Framework	Reference standards for conformity			
Amateur Satellite Radio	7.0-7.1 MHz 14.0-14.25 MHz 21.0-21.45 MHz 24.89-24.99 MHz 144-146 MHz 24.0-24.05 GHz 47.0-47.2 GHz	MSS equipment operating below 1 GHz	5.1	EN 301 489-1	EN 301 489-20	EN 301 721
Radar & Navigation Systems and Active Sensors (GPS) S-DAB	1215-1260 MHz 1479.5-1492 MHz	MSS equipment operating between 1-3GHz	5.2			EN 301 425 EN 301 441 EN 301 442 EN 301 444 EN 301 681
Satellite TV Other VSAT	3.625-4.2 GHz 5.85-6.45 GHz 10.7-12.75 GHz 13.75-14.5 GHz 14-14.5 GHz 19.7-20.2 GHz 21.4-22 GHz	VSAT and ancillary equipment	5.3		EN 301 489-12	EN 301 428 EN 301 443 EN 301 360 EN 301 459

Figure 10 - Broadcasting

Service defined in NFAP in Qatar	Frequency Band	Applicable Sub-section of Framework	Reference standards for conformity			
FM Radio T-DAB	87.5-108 MHz 1452-1479.5 MHz	Sound broadcasting equipment	6.1	EN 301 489-1	EN 301 489-11 EN 302 018-2	
TV Broadcast	47-68 MHz 174-230 MHz 470-790 MHz	Vision broadcasting equipment	6.2		EN 301 489-7 EN 301 489-14 EN 302 297	

23.4. Applicable technical standards – Telecommunication Terminal Equipment

For each type of Telecommunications Terminal Equipment to be interconnected to wireline Public Telecommunications Networks the specific standards that the equipment needs to comply with is listed in Figure 11 - to Figure 17 -

Figure 11 - Applicable standards – PSTN TTE

Type of TTE	Subtype	Applicable Standard	Description	
Analog PSTN TTE: •Single Line equipment directly connecting to analog PSTN •Single Line telephony •Fax Machines •Analogue Modems •Answering machines •Adjuncts and telephones offering analogue CLI •Subscriber Meter •PSTN Connected Security Alarms	General (applicable to all)	ETSI TBR 021	<ul style="list-style-type: none"> Terminal Equipment (TE); Attachment requirements for pan-European approval for connection to the analogue Public Switched Telephone Networks (PSTNs) of TE (excluding TE supporting the voice telephony service) in which network addressing, if provided, is by means of Dual Tone Multi Frequency (DTMF) signalling 	
	Pulse or Loop Disconnect dialling	ETSI ES 201 187	<ul style="list-style-type: none"> 2-wire analogue voice band interfaces; Loop Disconnect (LD) dialling specific requirements 	
	Analogue telephones and other equipment which offer analogue handset telephony such as modems or fax machines	ETSI TBR 038	<ul style="list-style-type: none"> Public Switched Telephone Network (PSTN); Attachment requirements for a terminal equipment incorporating an analogue handset function capable of "supporting the justified case service when connected to the analogue interface of the PSTN" 	
	Caller Line Identification (CLI)	ETSI ES 201 235-3	<ul style="list-style-type: none"> Access and terminals (AT) specification of Dual-Tone Multi Frequency (DTMF) Transmitters and receivers; Part 3 Receivers. 	
	Fixed Line Short Message Service (SMS)		ETSI ES 201 912	<ul style="list-style-type: none"> Access and Terminals (AT); Short Message Service (SMS) for PSTN/ISDN; Short Message Communication between a fixed network Short Message Terminal Equipment and a Short Message Service Centre
			ETSI TS 103 912	<ul style="list-style-type: none"> Access and Terminals (AT); Short Message Service (SMS) for PSTN/ISDN; Short Message Communication between a fixed network Short Message Terminal Equipment and a Short Message Service Centre (Corrections to ES 201 912 V1.1.1)
ETSI EN 300 659-2			<ul style="list-style-type: none"> Access and Terminals (AT); Analogue access to the Public Switched Telephone Network (PSTN); Subscriber line protocol over the local loop for display (and related) services; Part 2: Off-hook data transmission 	
		ETSI ES 200 778-2	<ul style="list-style-type: none"> Access and Terminals (AT); Analogue access to the Public Switched Telephone Network (PSTN); Protocol over the local loop for display and related services; Terminal equipment requirements 	

Figure 12 - Applicable standards – xDSL

Type of TTE	Subtype	Applicable Standard	Description
xDSL Modem	HDSL	ETSI ETR 152	• Transmission and Multiplexing (TM); High bit-rate Digital Subscriber Line (HDSL) transmission system on metallic local lines; HDSL core specification and applications for 2 048 kbit/s based access digital Sections
		ETSI TS 101 135	• Transmission and Multiplexing (TM); High bit-rate Digital Subscriber Line (HDSL) transmission systems on metallic local lines; HDSL core specification and applications for combined ISDN-BA and 2 048 kbit/s Transmission
	SHDSL	ITU G992.1	• Single-Pair High-Speed Digital Subscriber Line (SHDSL) subscriber transceivers.
	SDSL	ETSI TS 101 524-1	• Transmission and Multiplexing, Access transmission system on metallic access cables. Symmetrical single pair high bit rate Digital Subscriber Line (SDSL)
	ADSL	ETSI ES 202 913	• Access and Terminals (AT); POTS requirements applicable to ADSL modems when connected to an analogue presented PSTN line
		ETSI TS 101 952-I-1	• Access network xDSL transmission filters; Part 1: ADSL splitters for European deployment; Sub-part 1: Specification of the low pass part of ADSL/POTS Splitters
		ETSI TS 101 952-I-2	• Access network xDSL transmission filters; Part 1: ADSL splitters for European deployment; Sub-part 2: Specification of the high pass part of ADSL/POTS Splitters

Figure 13 - Applicable standards – Other Voice Equipment

Type of TTE	Subtype	Applicable Standard	Description
Voice equipment	Payphone	ETSI I-ETS 300 400	<ul style="list-style-type: none"> Integrated Services Digital Network (ISDN); Telephony terminals; Payphones
	PBX and Key Systems	ETSI ES 201 168	<ul style="list-style-type: none"> Speech Processing, Transmission and Quality Aspects (STQ); Transmission characteristics of digital Private Branch exchanges (PBXs) for interconnection to private networks, to the public switched network or to IP gateways
	Voice over IP terminals	ITU-T Rec. G.711	<ul style="list-style-type: none"> The Vo/IP terminal equipment shall have an audio codec capable of encoding and decoding speech according to ITU-T Rec. G.711 and capable of transmitting and receiving A-law and μ-law. It may support other codecs (ITU-T Rec. G.726 ADPCM, G.728 LD-CELP, G.729 CS-ACELP, G.729a CS-ACELP, G.723.1 MPMLQ, G.723 ACELP). The Vo/IP terminal equipment shall support Dynamic Host Configuration Protocol (DHCP) and Real-Time Protocol (RTP).
		ITU-T Rec. H.323	<ul style="list-style-type: none"> If the video codec is provided, it shall comply with requirements given in ITU-T Rec. H.323.
		IETF MEGACO IP Phone Media Gateway standard	<ul style="list-style-type: none"> If the Vo/IP terminal equipment is an MEGACO/H.248 based terminal it shall also support IETF MEGACO IP Phone Media Gateway standard.
		IETF Session Initiation Protocol (RFC3261, RFC3262, RFC3263, RFC3264, and RFC3265).	<ul style="list-style-type: none"> If VoIP Terminal Equipment uses SIP
		IETF RFC1933	<ul style="list-style-type: none"> For VoIP Terminal Equipment with IPv6 support the equipment shall implement the mechanisms specified in RFC1933 (Transition Mechanisms for IPv6 Hosts and Routers) in order to maintain compatibility with IPv4.
ETSI ES 201 168	<ul style="list-style-type: none"> Speech Processing, Transmission and Quality Aspects (STQ); Transmission characteristics of digital Private Branch exchanges (PBXs) for interconnection to private networks, to the public switched network or to IP gateways 		

Figure 14 - Applicable standards – Leased Lines equipment

Type of TTE	Subtype	Applicable Standard	Description
Leased Lines	TTE offering direct connection to SDH relay services	ETSI ETS 300 232/A1	• Transmission and Multiplexing (TM); Optical interfaces for equipments and systems relating to the Synchronous Digital Hierarchy (SDH)
		ETSI ETS 300 300	• Broadband Integrated Services Digital Network (BISDN); Synchronous Digital Hierarchy (SDH) based user network access; Physical layer User Network Interfaces (UNI) for 155 520 kbit/s and 622 080 kbit/s Asynchronous Transfer Mode (ATM) B-ISDN applications ITU-R:
		ETSI ETS 300 814	• Digital Video Broadcasting (DVB); DVB interfaces to Synchronous Digital Hierarchy (SDH) networks
	Switching equipments offering direct connection to 2 and 4 wire analogue Leased Line services	ETSI ES 203 021-1	• Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks; Update of the technical contents of TBR21, EN301 437, TBR015, TBR017;Part1:General aspects
		ETSI ES 203 021-2	• Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks; Update of the technical contents of TBR21, EN301 437, TBR015, TBR017;Part2:Basic transmission and Protection
	Digital Leased Line - Co-directional G.703	ITU-T Rec. G.703	• General aspects of digital transmission systems terminal equipments Physical/Electrical characteristics of Hierarchical Digital Interfaces
	Digital Leased Line - Nx64kbps	ITU-T REC. H.244	• Synchronized aggregation of multiple 64 or 56 kbit/s channels
		ITU-T REC H.323	• Packet-based multimedia communications systems
		ETSI TBR 014	• Business Telecommunications (BTC): 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Attachment requirements for terminal equipment interface
		ETSI TBR 014/A1	• Business Telecommunications (BTC);64 kbit/s digital unrestricted leased line with octet integrity (D64U); Attachment requirements for terminal equipment interface
		ETSI EN 300 290	• Access and Terminals (AT);64 kbit/s digital unrestricted leased line with octet integrity (D64U); Terminal equipment Interface

Figure 15 - Applicable standards – Leased Lines equipment (continued)

Type of TTE	Subtype	Applicable Standard	Description
Digital Leased Lines	Digital Leased Line - E1 2.048Mbps	ETSI TBR12	• Business Telecommunications (BTC); 2 048 kbit/s digital unstructured leased lines (D2048U); Attachment requirements for terminal equipment interface
		ETSI TBR 012/A1	• Business Telecommunications (BTC); Open Network Provision (ONP) technical requirements; 2 048 kbit/s digital unstructured leased line (D2048U); Attachment requirements or terminal equipment interface
		ETSI TBR13	• Business Telecommunications (BTC); 2 048 kbit/s digital structured leased lines (D2048S); Attachment requirements or terminal equipment interface
		ETSI EN 300 248	• Access and Terminals (AT); 2 048 kbit/s digital unstructured leased line (D2048U); Terminal equipment interface
		ETSI EN 300 420	• Title: Access and Terminals (AT); 2 048 kbit/s digital structured leased lines (D2048S); Terminal equipment interface
	Digital Leased Line - E3 45Mbps	ETSI EN 300 689	• Access and Terminals (AT); 34Mbit/s digital leased line (D34U and D34S) Terminal equipment interface
		ETSI TBR24	• Business Telecommunications (BTC); 34 Mbit/s digital unstructured and structured leased lines (D34U and D34S); Attachment requirements for terminal equipment interface
	Digital Leased Line - 140Mbps	ETSI TBR 025	• Business Telecommunications (BTC); 140 Mbit/s digital unstructured and structured leased lines (D140U and D140S); Attachment requirements for terminal equipment nterface
		ETSI EN 300 690	• Access and Terminals (AT); 140 Mbit/s digital leased lines • (D140U and D140S); Terminal equipment interface

Figure 16 - Applicable standards – Switched Data services

Type of TTE	Subtype	Applicable Standard	Description
Switched data services	Basic Rate ISDN	ETSI TBR 003	• Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access
		ETSI TBR 008	• Integrated Services Digital Network (ISDN); Telephony 3.1 kHz teleservice; Attachment requirements for handset terminals
		ITU- T Recommendation G.961	• Digital transmission system on metallic local lines for ISDN basic rate access.
		ETSI ETR 080	• Transmission and Multiplexing (TM); Integrated Services Digital Network (ISDN) basic rate access; Digital transmission system on metallic local lines
	Primary Rate ISDN	ETSI TBR 004/A1	• Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access
		ETSI TBR 008	• Integrated Services Digital Network (ISDN); Telephony 3.1 kHz teleservice; Attachment requirements for handset terminals systems
	X25	ETSI TBR 2	• Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched Public Data Networks (PSPDNs) for CCITT Recommendation X.25 interfaces at data signalling rates up to 1920 kbit/s utilizing interfaces derived from CCITT Recommendations X.21 and X.21bis
		ITU-T recommendation X.25	• Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for Terminals operating in the Packet Mode and connected to Public Data Networks by Dedicated Circuit.

Figure 17 - Applicable standards – Switched Data services (cont’d)

Type of TTE	Subtype	Applicable Standard	Description
Switched data services	X21	ETSI TBR 2	• Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched Public Data Networks (PSPDNs) for CCITT Recommendation X.25 interfaces at data signalling rates up to 1920 kbit/s utilizing interfaces derived from CCITT Recommendations X.21 and X.21bis
		ETSI ETS 300 103	• Integrated Services Digital Network (ISDN); Support of CCITT Recommendation X.21, X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an ISDN Synchronous and asynchronous terminal adaptation functions
		ITU-T Recommendation X.21	• Interface between Data Terminal Equipment and Data Circuit-terminating equipment for synchronous operation on Public Data Network
		ITU-T Recommendation X.21 bis	• Use on Public Data Networks of Data Terminal Equipment (DTE) which is designed for interfacing to Synchronous V-Series Modems
	Frame Relay	ETSI TCRR 020	• Network Aspects (NA); European frame relay services
		ETSI ETS 300 399-1	• Frame relay services; Part 1: General description
		ETSI ETS 300 399-2	• Frame relay services; Part 2: Integrated Services Digital Network (ISDN); Frame relay bearer service; Service definition
		ETSI ETS 300 399-3	• Frame relay services; Part 3: Frame relay data transmission service; Service definition

23.5. Applicable technical standards – Health and Safety

The table below lists the recognized standards by ictQATAR for Health and Safety for RTTE.

Figure 18 - Applicable standards – Health and Safety

Type of Health and Safety standard	Applicable Standard	Description
Electrical	EN 60950 or IEC 60950	<ul style="list-style-type: none"> Safety of information technology equipment
Radio and SAR	EN 50360	<ul style="list-style-type: none"> Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz - 3 GHz)
	EN 50371	<ul style="list-style-type: none"> Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz - 300 GHz) - General public
	EN 50385	<ul style="list-style-type: none"> Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless
	EN 50392	<ul style="list-style-type: none"> Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz – 300 GHz)
	EN 60215	<ul style="list-style-type: none"> Safety requirements for radio transmitting equipment
Optical and laser	EN 60825-1 or IEC 60825-1	<ul style="list-style-type: none"> Safety of laser products - Part 1: Equipment classification, requirements and user's guide
	EN 60825-2 or IEC 60825-2	<ul style="list-style-type: none"> Safety of laser products - Part 2: Safety of optical fibre communication systems

23.6. Applicable technical standards – Electromagnetic Compatibility

The table below lists the recognized standards by ictQATAR for EMC for RTTE.

Figure 19 - Standards recognized by ictQATAR for EMC

Type of EMC standard	Applicable Standard	Description
Information technology equipment	EN 55022 or CISPR 22	<ul style="list-style-type: none"> Radio disturbance characteristics Limits and methods of measurement
	EN 55024 or CISPR 24	<ul style="list-style-type: none"> Immunity characteristics Limits and methods of measurement
Limits	EN 61000-3-2 or IEC 61000-3-2	<ul style="list-style-type: none"> Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)
	EN 61000-3-3 or IEC 61000-3-3	<ul style="list-style-type: none"> Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems Equipment with rated current ≤ 75 A and subject to conditional connection
	EN 61000-3-11 or IEC 61000-3-11	<ul style="list-style-type: none"> Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems Equipment with rated current ≤ 75 A and subject to conditional connection
Generic standards	ETSI EN 301 489	<ul style="list-style-type: none"> Electromagnetic compatibility and Radio spectrum Matters (ERM) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Various parts as applicable to terminal type
	EN 61000-6-1 or IEC 61000-6-1	<ul style="list-style-type: none"> Immunity for residential, commercial and light-industrial environments
	EN 61000-6-2 or IEC 61000-6-2	<ul style="list-style-type: none"> Immunity for industrial environments
	EN 61000-6-3 or IEC 61000-6-3	<ul style="list-style-type: none"> Emission standard for residential, commercial and light-industrial environments
	EN 61000-6-4 or IEC 61000-6-4	<ul style="list-style-type: none"> Emission standard for industrial environments

24. Appendix E – Type Approval Bodies

24.1. Accredited Conformity Assessment Bodies

The initial list of accredited Conformity Assessment Bodies recognized by ictQATAR is provided in Figure 20 - to Figure 22 - This list will be regularly updated and published on ictQATAR website.

Figure 20 - Accredited Conformity Assessment Bodies

Conformity Assessment Body Name	Country
TÜV AUSTRIA SERVICES GMBH	Austria
BUSINESS INNOVATION CENTRE- IZOT Co. - Directorate "Conformity Assessment"	Bulgaria
ELTEST CERTIFICATION Ltd.	Bulgaria
OTC Ltd.	Bulgaria
NEMKO CANADA INC.	Canada
CESKY METROLOGICKY INSTITUT	Czech Republic
TELESTYRELSEN	Denmark
Nemko Oy	Finland
SGS FIMKO OY	Finland
CETECOM SARL	France
EMITECH - CHASSIEU	France
EMITECH Ile de France	France
EMITECH MESURES - ETABLISSEMENT D'ORGEVAL	France
LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES	France
UNION TECHNIQUE DE L'AUTOMOBILE, DU MOTOCYCLE ET DU CYCLE	France
CETECOM ICT SERVICES GMBH	Germany
EMCCERT DR. RASEK GMBH	Germany
Eurofins Product Service GmbH	Germany
LGA QualiTest GMBH	Germany
PHOENIX TESTLAB GMBH	Germany
SGS Germany GmbH Zertifizierungsstelle München	Germany
TÜV RHEINLAND PRODUCT SAFETY GMBH	Germany
EMC HELLAS S.A.	Greece
Compliance Engineering Ireland Ltd	Ireland

Figure 21 - Accredited Conformity Assessment Bodies (cont'd)

Conformity Assessment Body Name	Country
IMQ ISTITUTO ITALIANO DEL MARCHIO DI QUALITÀ S.P.A.	Italy
ISTITUTO SUPERIORE DELLE COMUNICAZIONI E DELLE TECNOLOGIE DELL'INFORMAZIONE	Italy
REGGIO EMILIA INNOVAZIONE Soc.Cons.a.r.l.	Italy
Telecom Engineering Center - TELEC	Japan
UL Apex Co. Ltd.	Japan
STATE JS/C ELECTRONIC COMMUNICATION DIRECTION, TELECOMMUNICATION QUALITY ASSESSMENT CENTRE	Latvia
KEMA Quality B.V.	Netherlands
TELEFICATION B.V.	Netherlands
TÜV Rheinland EPS B.V.	Netherlands
COMLAB	Norway
DET NORSKE VERITAS CERTIFICATION AS	Norway
NEMKO AS	Norway
GOSPODARSTWO POMOCNICZE - CENTRALNE LABORATORIUM BADAN TECHNICZNYCH URZĘDU KOMUNIKACJI ELEKTRONICZNEJ	Poland
INSTYTUT ŁACZNOŚCI	Poland
INSTYTUT LOGISTYKI I MAGAZYNOWANIA	Poland
OSRODEK BADAWCZO-ROZWOJOWY PREDOM-OBR	Poland
POLSKIE CENTRUM BADAN I CERTYFIKACJI S.A.	Poland
EVPU a.s.	Slovakia
Vyskumny ustav spojov n.o.	Slovakia
SLOVENIAN INSTITUTE OF QUALITY AND METROLOGY - SIQ	Slovenia
SECRETARÍA DE ESTADO DE TELECOMUNICACIONES Y PARA LA SOCIEDAD DE LA INFORMACION	Spain
INTERTEK SEMKO AB	Sweden
SP Sveriges Tekniska Forskningsinstitut AB	Sweden

Figure 22 - Accredited Conformity Assessment Bodies (cont'd)

Conformity Assessment Body Name	Country
SP Sveriges Tekniska Forskningsinstitut AB	Sweden
BABT PRODUCT SERVICE	United Kingdom
BRITISH APPROVALS BOARD FOR TELECOMMUNICATIONS	United Kingdom
BSI PRODUCT SERVICES	United Kingdom
CRITERION UK LTD	United Kingdom
EMC PROJECTS LTD	United Kingdom
INTERTEK TESTING & CERTIFICATION LTD	United Kingdom
MIRA LIMITED	United Kingdom
QINETIQ LTD	United Kingdom
RFI GLOBAL SERVICES LTD	United Kingdom
SGS UNITED KINGDOM LIMITED	United Kingdom
TECHNOLOGY INTERNATIONAL (EUROPE) LTD	United Kingdom
TRaC EMC & SAFETY LTD	United Kingdom
TRaC Telecoms & Radio Ltd	United Kingdom
American Telecommunications Certification Body, Inc. (ATCB)	United States
Bay Area Compliance Laboratories, Corp. (BACL)	United States
Bureau Veritas Consumer Product Services, Inc.	United States
CKC Certification Services, LLC	United States
Compliance Certification Services (CCS)	United States
DLS Electronic Systems, Inc.	United States
Elite Electronic Engineering, Inc.	United States
Elliott Laboratories, LLC	United States
Intertek Testing Services NA, Inc. (ITS)	United States
LS Research, LLC	United States
MET Laboratories, Inc.	United States
Northwest EMC, Inc. (NWEMC)	United States

24.1. National Regulatory Authorities

An initial list of National Regulatory Authorities for which the Type Approval Certificates (or similar documents showing compliance with relevant standards for the Type Approval process) can be used as Certificate of Conformity per the Simplified Type Approval process is provided in the table below. This list will be regularly updated and published on ictQATAR website.

Figure 23 - National Regulatory Authority

National Regulatory Authority	Country
All NRAs from the 27 EU Member states	All 27 EU Members
TRA	UAE
CITC	KSA
TRA	Bahrain

25. Appendix F – Accredited Testing Laboratories recognized by ictQATAR

The tables below lists the recognized accredited testing laboratories by ictQATAR.

Figure 24 - Accredited Testing Laboratories

Testing Laboratories Name	Country
Flom Test Labs	United States
AEGIS Labs, Inc.	United States
ATLAS Compliance & Engineering, Inc.	United States
CKC Laboratories, Inc.	United States
Cisco Systems, Inc.	United States
Compatible Electronics, Inc.	United States
Compliance Engineering Services, Inc.	United States
DNB Engineering, Inc.	United States
EMC Compliance Management Group	United States
Electro Magnetic Test, Inc.	United States
Elliott Laboratories, Inc.	United States
Garwood Laboratories, Inc.	United States
Global Testing, A Div. of Rajkumar Corp.	United States
Intertek Testing Services NA Inc.	United States
MET Laboratories, Inc.	United States
MiCOM Labs	United States
NCR Corp. San Diego EMC Lab	United States
National Technical Systems	United States
Nemko USA, Inc. - San Diego EMC Division	United States
TUV America Inc.	United States
Underwriters Laboratories, Inc.	United States
Universal Compliance Labs dba EMCEng	United States
EMC Integrity, Inc.	United States
TUV Rheinland of North America, Inc.	United States
FAU FMIR	United States
Product Safety Engineering, Inc.	United States
Timco Engineering, Inc.	United States
Advanced Compliance Solutions, Inc.	United States
Intertek Testing Services NA Inc.	United States
United States Technologies, Inc.	United States
Elite Electronic Engineering, Inc.	United States
Radiometrics Midwest Corp.	United States
Rogers Labs, Inc.	United States
MET Laboratories, Inc.	United States
Chomerics Test Services - Woburn, MA	United States
Compliance Management Group	United States
Curtis-Straus LLC	United States
EMC Corporation	United States
Intertek ETL Entela	United States
National Technical Systems	United States
IBM Rochester EMC Lab	United States
International Certification Services, Inc.	United States

Source: FCC, EU, Value Partners analysis

Figure 25 - Accredited Testing Laboratories (cont'd)

Testing Laboratories Name	Country
TUV Oesterreich	Austria
E.S.M. (dep. PIONEER)	Belgium
CSA International	Canada
Matrox Conformity Group EMC Laboratory	Canada
National Technical Systems, Inc.	Canada
Nemko Canada Inc.	Canada
Solelectron Technical Centre	Canada
UltraTech Engineering Labs Inc.	Canada
CNAS	China
EMCEC Oy	Finland
SGS Fimko Ltd.	Finland
AEMC LAB	France
AEMC Mesures (Lyon)	France
AEMC Mesures (Paris)	France
EMITECH	France
EMITECHAtlantique	France
EMITECHGrand Sud	France
GYL Technologies	France
SMEE Actions Mesures	France
UTAC	France
BZT-ETS Certification GmbH	Germany
CETECOM GmbH	Germany
CETECOM ICT Services GmbH	Germany
EMCC Dr Rasek	Germany
EMCE GmbH	Germany
EMV TESTHAUS GmbH	Germany
Obering-Berg-Lukowiak GmbH	Germany
Phoenix Test-Lab GmbH	Germany
The Hong Kong Standards and Testing Centre Ltd.	Hong Kong
Compliance Engineering Ireland Ltd.	Ireland
Radio Frequency Technologies Ltd.	Ireland
IQO - Istituto Italiano Marchio Qualita	Italy
Nemko SpA	Italy
Akzo Nobel K.K., Tochigi EMC Site	Japan
Chemitox, Inc.	Japan
EMC Kashima Corporation	Japan
ETS Product Service Japan Co., LTD	Japan
Fujitsu General EMC Laboratory	Japan
IPS Corporation	Japan
Japan EMC Laboratory Limited, Tsukui Test Site	Japan
Japan Qlty. Assur. Org. Safety & EMC Ctr.	Japan

Figure 26 - Accredited Testing Laboratories (cont'd)

Testing Laboratories Name	Country
Matsushita EMC Center	Japan
Murata Mfg. Co, Ltd. Yokohama Tech Ctr	Japan
NEC Computertechno , Ltd.	Japan
Olympus Corporation EMC Laboratory	Japan
PFU TECHNOCONSUL EMC Center	Japan
Panasonic Communications Test Laboratory	Japan
SANYO Electric Co., Ltd. Testing Laboratory	Japan
Sharp Nara EMC Center Sharp Corporation	Japan
Sony EMCS Corp Mimokamo TEC EMC Test Lab	Japan
Sony Kisarazu EMC Test Laboratory	Japan
Sony Nagano EMC Test Laboratory	Japan
Spindler Associates Co., Ltd.	Japan
TEAC Corporation EMC Center	Japan
Toshiba Corp., Digital Media Network Co.	Japan
UL Apex Co., Ltd.	Japan
Wave Corporation, TUV Rheinland	Japan
D.A.R.E. Consultancy B.V.	Netherlands
KEMA Quality B.V. (KEMA)	Netherlands
Telefication B.V.	Netherlands
PSB Corporation Pte Ltd	Singapore
CTK Co., Ltd.	South Korea
DIGITALEMC CO., LTD	South Korea
EMC Compliance Ltd.	South Korea
EMC Research Institute	South Korea
ESTECH Co., Ltd.	South Korea
ETL Inc	South Korea
Gumi College EMC Center	South Korea
IST Co., Ltd	South Korea
KOSTEC Co., Ltd	South Korea
Korea EMC Laboratory	South Korea
Korea Electric Testing Institute	South Korea
Korea Technology Institute Co., Ltd	South Korea
LTA Co.,Ltd	South Korea
Nemko Korea Co.,Ltd.	South Korea
ONETECH Corp.	South Korea
SGS Testing Korea Co., Ltd	South Korea
SK Tech Co., LTD.	South Korea
Samsung Electronics EMC Laboratory	South Korea
CETECOM	Spain
ICEM	Spain
INTA	Spain

Testing Laboratories Name	Country
L.C.O.E.	Spain
LABEIN	Spain
LGAI Technological Center	Spain
Tecnologica Componentes Electronicos, S.A.	Spain
Swedish National Testing	Sweden
Advance Data Technology Corporation	Taiwan
Advance Data Technology Corporation	Taiwan
Audix Corp. Technical Division EMC Department	Taiwan
Best Laboratory Co., Ltd	Taiwan
Chung -Shan Institute of Science	Taiwan
Electronics Testing Center, Taiwan	Taiwan
HomeTek Technology Inc.	Taiwan
Max Light Technology Co. Ltd	Taiwan
Neutron Engineering Inc.	Taiwan
QuieTek Corporation	Taiwan
Quietek Corporation	Taiwan
SGS Taiwan Ltd.	Taiwan
Sporton International Inc.	Taiwan
A D Compliance Services Ltd.	United Kingdom
BABT (British Approvals Board for Telecom)	United Kingdom
BSI Testing	United Kingdom
Celestica Ltd.	United Kingdom
EMC Projects Ltd.	United Kingdom
Hursley EMC Services Ltd.	United Kingdom
KTL	United Kingdom
Motor Industry Research Association (MIRA)	United Kingdom
RFI Global Services Ltd.	United Kingdom
SGS United Kingdom	United Kingdom
TRL Compliance Ltd.	United Kingdom
TUV Product Service Ltd.	United Kingdom
Nebraska Center for Excellence in Electronics	United States
Advanced Compliance Laboratory	United States
Chomerics Test Services - Rochester, NY	United States
Dayton T. Brown, Inc.	United States
F-Squared Laboratories	United States
Northwest EMC	United States
UNISYS Corporation	United States
National Technical Systems	United States
Nemko USA, Inc.	United States
Professional Testing (EMI), Inc.	United States
Southwest Research Institute	United States
Green Mountain Electromagnetics, Incorporated	United States
Acme Testing Co.	United States
CKC Laboratories, Inc.	United States
Northwest EMC	United States
L.S. Compliance, Inc.	United States

Source: FCC, EU, Value Partners analysis

26. Appendix G – Authorized Importer application process

- (a) A Qatari commercially registered company wishing to be registered as Authorized Importer by ictQATAR must apply for an authorization for importing RTTE into the state of Qatar for commercial and/ or marketing purposes using the prescribed application form available on ictQATAR's website and provided in Appendix H.
- (b) The application for authorization for importing RTTE into the state of Qatar for commercial and/ or marketing purposes must be accompanied by the following documentation:
 - i. A copy of a valid Qatari commercial registration.
 - ii. Letter of Power of Attorney in favor of the personal signing on behalf of the applicant.
- (c) If the application is to renew, modify or cancel an existing authorization, the previous registration number must be added in the application form.
- (d) An application for authorization for importing RTTE into the state of Qatar for commercial and/ or marketing purposes must be completed either before any application for Type Approval is made, or on the first occasion that an application for Type Approval is submitted.
- (e) The application for registration as Authorized Importer together with all accompanying documentation shall be submitted to ictQATAR following the same delivery process as described for the Type Approval application delivery process in section 19 of these Guidelines.
- (f) A successful outcome of the assessment of the application for authorization for importing RTTE into the state of Qatar for commercial/marketing purposes will result in a corresponding entry of the importer details in the Register of Authorized Importers published on ictQATAR's website.
- (g) A unique Importers Registration Number will be allocated by ictQATAR to each registered Authorized Importer. The Importers Registration Number allocated will be valid for all approved equipment types for which that party is responsible.
- (h) The registration as Authorized Importer will be valid for 3 years from the date that it is issued. Application must be made to ictQATAR for renewal at the end of that period.

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- (i) An Authorized Importer importing RTTE into the state of Qatar must keep detailed records of the equipment type imported, with its manufacturing brand name, product name, model number, serial numbers and function. Such records shall be made available to ictQATAR on request.

27. Appendix G – Authorized Importer application form

Applicant's details	
Company name	
Company registration number in Qatar	
Description of company's business	
Contact person	
Address	
P.O. Box	
Telephone	
Fax	
E-mail	
Details of application	
Type of application	<input type="checkbox"/> New <input type="checkbox"/> Renewal <input type="checkbox"/> Modification <input type="checkbox"/> Cancellation
If "new", reason for the applicant to request authorization to import RTTE	
If "renewal", "modification" or "cancellation" previous registration number	
Additional	
Please submit the following documents along with this filled in application form	
1. A copy of a valid Qatari commercial registration 2. Letter of Power of Attorney in favor of the person signing on behalf of the applicant 3. Details of the request in case the application is to modify an existing entry	
Signature of applicant	
Name (printed):	Date:
Authorized Signature of Applicant:	
Authority	
Approved by	Date of issue
Registration Number	
Additional details / comments in case of rejection (missing data, etc)	