



REPUBLIC OF LEBANON
**TELECOMMUNICATIONS
REGULATORY AUTHORITY**

Type Approval Regulations

29 January 2008

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1 Introduction

1. The Telecommunications Law (Law No. 431 of 22 July 2002, Article 23) assigns the Telecommunications Regulatory Authority (TRA) as the body responsible for establishing technical specifications and requirements applicable to Telecommunications Network and Subscriber equipment.
2. Commensurate with this responsibility, the Telecommunications Regulatory Authority (TRA) has established the Type Approval regime presented in these Guidelines document.
3. The Type Approval regime described in this Guidelines document shall come into effect after six (6) months from its publishing on the TRA website.

1.1 Scope

4. All telecommunications terminal equipment which connects directly to a public telecommunications network and all intentional emitters of electromagnetic radiation (radio waves) shall be subject to the Type Approval regime operated by TRA. Such equipment shall be referred to collectively as Radio and Telecommunications Terminal Equipment (RTTE).
5. Network Infrastructure Equipment (NIE) (e.g., Class 4/5 switches, MSCs, BSCs, transmission equipment, etc.) is subject to the authorizations stipulated in the Service Provider (SP) licence and must meet the TRA Network technical specifications or recommendations. However, NIE does not follow the RTTE Type Approval regime. Section 7 is dedicated to the Network Infrastructure Equipment approval procedure.
6. The Type Approval regime operated by TRA applies equally to RTTE imported into Lebanon or manufactured in Lebanon, whether for personal use or for commercial purposes. However, certain equipment (to be determined by the TRA) imported into Lebanon by individuals for personal use *may* be exempt from Type Approval by the TRA.
7. RTTE that is entering temporarily to the Lebanese territories and are not intended to be used or connected to a public network in Lebanon – for the purpose of a trade exhibit for example – requires a prior permission from the TRA.
8. In the case of RTTE that is entering temporary to the Lebanese territories, and are not intended to be used or connected to a public network in Lebanon, no Type approval scheme is required
9. Radio and television *receivers* do not fall within the scope of the Type Approvals regime operated by TRA as long as such equipment is not capable of data transmission.
10. In addition to the TRA Type Approval regime, certain equipment types may require clearance from Lebanese Security Forces (Ministry of Defence and/or General Security.)
11. A Service Provider, who participates in a **Pilot Project to Test New Technology in Lebanon** and wants to import the required equipments, should ask TRA to get an appropriate preliminary permission or authorization.
12. The importation and operation of equipment used exclusively by public security, defence, maritime, civil aviation, and state security shall be coordinated jointly between the TRA and the involved official party (Ministry of Defence, General Security, etc.) However, final clearance of such equipment resides with the TRA.
13. The purpose of the Type Approval regime is to ensure that the Telecommunications
 - a. equipment does not cause damage to, or interfere with the correct working of a public telecommunications network;

- b. equipment does not cause harm to the general public or staff working on public telecommunications networks; and
 - c. radio equipment makes efficient use of the radio spectrum.
- 14.** These Guidelines become effective upon completion of a public consultation and the approval of these Guidelines by the TRA Board. TRA may publish these Guidelines in the Official Gazette and/or on the TRA website.
- 15.** These Guidelines shall be read in conjunction with the following supporting documentation:
- a. Appendix A – Classification of RTTE
 - b. Appendix B – Application & Declaration of Conformity Forms
 - c. Appendix C – Declaration of Use and Conformity Forms for Network Infrastructure Equipment
 - d. Appendix D – Certificate Forms for RTTE and Network Infrastructure Equipment
 - e. Schedule of Fees for TRA Type Approvals; this is a companion document to these guidelines.
 - f. TRA Technical Specifications for RTTE. This is another companion document to these guidelines.
 - g. TRA Technical specifications/recommendation for Network Infrastructure Equipment.

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2 Definitions

16. In the event of conflict or ambiguity between the terms defined herein and the terms defined in the Licence or in the Telecommunications Law then the following order of precedence shall apply:

- a. The Telecommunications Law.
- b. The Type Approval Guidelines.
- c. Provider Licence.

17. For the purposes of use in these Guidelines, the following terms will have the ascribed meanings:

Accreditation means the process by which an authorised body formally recognises that a person or institution is competent to carry out specific tasks.

Authority means the Telecommunications Regulatory Authority in Lebanon established by virtue of the Telecommunications Law.

Authorized Dealer means an importer authorized by a Telecommunication equipment vendor to supply the vendor's equipment in Lebanon to Licensed Service Providers. An Authorized Dealer may represent more than one vendor.

Certification of Conformity means a document issued according to the rules of a certification system, in which it is reasonably attested that a duly identified product, process or service is according to a norm, technical specification or any other specific normative document.

Conformity Assessment means any procedure utilised, directly or indirectly, to determine that pertinent prescriptions of technical regulations or norms are complied with.

Connection means the physical linking of Telecommunications Terminal Equipment or Private Telecommunications Networks to Public Telecommunications Networks in order to allow Users of the Telecommunications Terminal Equipment or Users of the Private Telecommunications Network to communicate with Users of a Public Telecommunications Network or Users of the same or another Private Telecommunications Network or to access services provided on a Public Telecommunications Network as appropriate.

Customer means the Person who receives Telecommunications Services and pays the corresponding fees for a period of time by virtue of an agreement with or pursuant to terms established by the Service Provider.

End User (or User) means any Person, who uses telecommunications services, whether or not such user pays for such services.

Equipment means any electrical or electronic apparatus or installation.

Network Infrastructure Equipment or simply **Network Equipment** means any product forming part of, or necessary to the network infrastructure, other than Customer Premise Equipment.

Person means any individual or body corporate having legal entity.

Service Provider means the Person who provides, directly or indirectly, telecommunications services.

Guidelines are TRA Regulations of generally binding effect as opposed to Decisions applicable only to named parties or situations. In the present text and unless otherwise stated, Guidelines mean the effective version of the present guidelines. Guidelines may be revised or amended by the TRA from time to time in accordance with its procedures, in which case any prior version or particular provisions thereof as the case may be, cease to be of any force and effect and may no longer be relied on.

Information means signs, signals, writings, sounds and other data.

Installation means a particular combination of several types of apparatus and, where applicable, other devices, which are assembled, installed and intended to be used permanently at a predefined location.

Interference means the effect of unwanted energy due to one or a combination of emissions, radiations, or inductions upon reception in a radio communication system, manifested by any performance degradation, misinterpretation, or loss of information which could be extracted in the absence of such unwanted energy.

International Norm means a norm adopted by an international standardisation body and made available to the public.

Licence means the Permit granted by the Authority for the provision of telecommunication services and/or the use of Radio Frequency Spectrum.

Member(s) means TRA Board Member(s) appointed by the Council of Ministers.

Network means a system of interconnected facilities designed to carry traffic including any Telecommunications Service.

Person means a natural or legal person having legal status.

Private Telecommunications Services means a Restricted Telecommunications Service provided to some Defined User Group or Groups:

- within or between contiguous premises or between premises utilizing any means appropriate for transmission and reception within such limited geographic area, or
- between any number of non-contiguous locations or premises where these are connected by transport or transport segments obtained from another Provider, including on a leased capacity basis. Within these locations or premises, the provisions of the above clause apply.

Procedure: a linked set of actions that the TRA will take to perform a task.

Public Telecommunications Network means a fully interconnected and integrated Telecommunications system consisting of various means of transmission and switching used to provide Basic Telephony Services and other Public Telecommunications Services.

Public Telecommunications Services are Telecommunications Services provided to the Lebanese public on a generally available basis. The determination of general availability is to be made under a two-fold test, requiring:

- common carriage services offered to any taker within the Licence Area without special pre-conditions on a non-discriminatory, tariffed basis, and
- A de-facto test of public provision of these services within the applicable period specified by Law, Guidelines or Licence condition and including the following two elements in conjunction:

- Comprehensive public geographic availability: As may be more specifically determined by the TRA in the Specific Licence Conditions, the minimum Licence Area should be nationwide and, where the applicable Build-out Period has elapsed, the services are actually available throughout the Service Territory; and
- Temporal availability (the services are available on a permanent, full-time basis).

Radiation is the outward flow of energy from any source in the form of radio waves.

Radio and Telecommunications Terminal Equipment (RTTE) covers all telecommunications terminal equipment which connects directly to a public telecommunications network and all intentional emitters of electromagnetic radiation (radio waves).

Station means one or more transmitters or receivers or a combination of transmitters and receivers, including the accessory equipment, necessary at one location for carrying on a radio communication service.

Subscriber is another term for Customer (see definition thereof).

Telecommunications Equipment in the present Guidelines means any equipment forming part of, or necessary to the network infrastructure, other than Customer Premise Equipment.

TRA means the Telecommunications Regulatory Authority in Lebanon.

Type Approval means the procedure by which the results of conformity assessment of a sample of a type of equipment are taken to be representative of the performance of all other samples of the same type, thus enabling the sale and or use of all pieces of equipment conforming to that type.

User means any Person who uses a Telecommunications Service, whether or not he pays a fee for such a service.

3 The Role and Responsibility of the Importer, Manufacturer, and Service Providers

18. All importers of RTTE / Network Infrastructure Equipment into Lebanon and manufacturers of RTTE/Network Infrastructure equipment based in Lebanon must hold a current telecommunications Importer/Manufacturer Licence for the Class of RTTE / Network Infrastructure equipment, which they intend to import or manufacture. Classes of RTTE are defined in Section 4.
19. The importer or manufacturer is legally responsible for ensuring that any RTTE/Network Infrastructure equipment, which they import or manufacture, is in conformance with the technical specifications and/or recommendations established by TRA.
20. The importer or manufacturer is responsible for ensuring that any RTTE which they import or manufacture continues to be imported or manufactured in compliance with the Type Approval regime: any change in appearance, design, technical specification or performance of Type Approved RTTE will be subject to the Type Approval regime (also see the sub-section on Maintenance of Type Approval).
21. A Service Provider willing to import directly Network Equipment into Lebanon can do so based on the SP license granted by the TRA.
22. A Service Provider can import Network Equipment only for Service Provider's own use. The SP is responsible for ensuring that any imported equipment is in compliance with the SP License.
23. An importer holding an Import License for Network Infrastructure Equipment can only import Network Equipment on behalf of licensed SPs. The importer shall not sell the imported Network Equipment for other than the designated licensed SP.

Importer/Manufacturer Licence

24. Only companies recorded in the commercial register in Lebanon are permitted to hold an Importer/Manufacturer Licence.
25. Companies wishing to make an application for an Importer/Manufacturer Licence should complete and submit the relevant form to TRA together with the appropriate payment (a copy of the form is attached in Appendix B).
26. The application should state whether a Licence is required for importation or manufacture of RTTE / Network Infrastructure equipment and also the Class or Classes of RTTE (see Appendix A) to be imported or manufactured. The Licence will be issued following review of the application by TRA and payment of the fees appropriate to the RTTE Class / Network Infrastructure equipment.
27. The licensed importer or licensed manufacturer should maintain and keep records of all RTTE Network Infrastructure equipment imported or manufactured equipment in accordance with the conditions of their Licence. Such records may be used or audited by TRA in carrying out market surveillance activities.
28. Importer or manufacturer Licences must be renewed on a yearly basis in response to a renewal notice generated by TRA.

4 RTTE Type Approval Schemes

29. RTTE equipment is divided into classes according to the equipment overall level of interference, environmental/safety impact, complexity and effect on the network. Appendix A lists RTTE that falls under one of the following RTTE classes :

- a. Class 0: Simple RTTE which requires minimum type approval requirements.
- b. Class 1: Simple RTTE which operates in a confined environment mostly limited to the customer premises.
- c. Class 2: RTTE equipment which is more sophisticated and operates in a wider range than Class 1.
- d. Class 3: Advanced RTTE which could have a significant impact on the network, security, safety, and/or regulations.

Note: The Base Station equipment such as GSM, UMTS and WiMAX Base Stations are addressed as NIE under Section 7

30. TRA operates four Type Approval schemes: one scheme for each Class of RTTE. The Type Approval schemes are referred to as:

- a. Scheme 0; for Class 0 RTTE
- b. Scheme 1; for Class 1 RTTE
- c. Scheme 2; for Class 2 RTTE
- d. Scheme 3; for Class 3 RTTE

31. Each scheme is described in detail in the following sub-sections and is illustrated in the form of a flow chart in Figures 1a, 1b and 1c and the overall RTTE Type Approval process is shown in Figure 2.

32. Where RTTE supports a number of interfaces such that it could be classified into more than one Class, the Class applied shall be the highest Class. For example, if the RTTE supports Class 1 and 2 interfaces, then the Class 2 Type Approval scheme shall apply for the whole RTTE.

33. In the case of RTTE with a radio interface, the Type Approval certificate issued by TRA will indicate, as a condition of approval, that the use of the RTTE is subject to the award of a license to use the radio spectrum.

34. For each Type Approval Scheme, the importer or manufacturer shall compile a Technical Compliance Folder (TCF), which includes the following documentation:

- a. Certified Copy of Import, Sell, install and maintain License or manufacturer License granted by TRA is required.
- b. a detailed description and specification of the functions and features offered by the RTTE including operating frequency and maximum EIRP for radio communication equipment;
- c. a description of the intended use of the RTTE;
- d. drawings and schematics showing key components of the telecommunications interface(s) (either wired or wireless), plus details of the antenna employed by wireless RTTE;
- e. descriptions and explanations necessary for the understanding of said drawings and schemes and the operation of the RTTE;
- f. colour photographs of the external and internal parts of the RTTE – external photographs shall clearly enable the product to be identified, internal photos should

clearly show those parts of the RTTE which are concerned with compliance with TRA specifications;

- g. a list of the TRA specifications with which the RTTE is designed to comply;
- h. third party test reports proving RTTE compliance with these specifications; See Section 4.10

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4.1 Type Approval Certificate

41. A Type Approval Certificate will be issued to an applicant upon successful Type Approval of a particular make and model of equipment.

4.2 Terms and Conditions for granting Type Approval Certificate

42. The applicant shall also commit to conform to the following terms:
- a. Accept responsibility to discontinue importation and sale, and replace all the equipment already on the market in case of defects in the equipment resulting in unacceptable performance due to non-compliance to the TRA Technical specification.
 - b. Conform to any additional regulations issued by TRA.
 - a. Compliance with TRA Specifications.
 - b. copy of the RTTE user guide in either the Arabic, French or English language;
 - c. detailed post-sales support program and commitment; and
 - d. Results of design calculations made, examinations carried out, etc.

4.3 Scheme 0

43. Scheme 0 is applicable only to RTTE classified as Class 0.
44. The importer or manufacturer shall prepare a Declaration of Conformity (DoC) with the applicable TRA specifications. See Appendix B for the format of the Declaration of Conformity. The TCF and DoC shall be safely stored by the importer/manufacturer at an address in Lebanon.
45. TRA Type Approval label applicable for Class 0 products shall be applied to the RTTE as described in this document.
46. Upon completion of the above, RTTE manufactured outside of Lebanon may now be imported into Lebanon and RTTE manufactured in Lebanon may now be offered for sale in Lebanon.
47. Should a series of RTTE use the same telecommunications interface and differ only in ways, which do not affect compliance with the applicable TRA specifications, then such RTTE can be included in a single TCF and DoC, so long as each RTTE is clearly and uniquely identified in the TCF and DoC.
48. The TCF must be kept fully up to date to reflect changes to the product and must include information which proves that compliance with TRA requirements has been maintained. The TCF should contain an index and all information contained should be clear and unambiguous

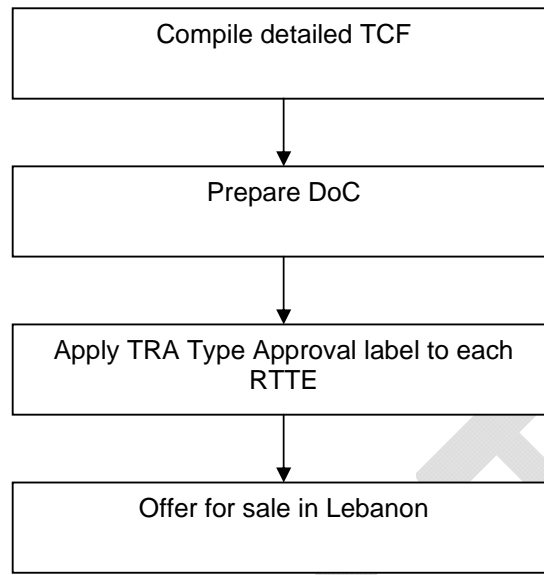


Figure 1a: Type approval process for Class 0 RTTE

49. The TCF and DoC may be inspected at any time by TRA and should be kept for a minimum period of 10 years after the last RTTE has been imported or manufactured.
50. The TCF must clearly demonstrate the compliance of the RTTE with the requirements of the applicable TRA specifications and enable the compliance to be assessed. In particular, it must cover the design, manufacture and operation of the RTTE.
51. The importer or manufacturer must keep the original DoC with the TCF.
52. The importer must ensure that all RTTE supplied is in conformity with the TRA requirements referenced in the TCF and DoC. In the event that the RTTE is manufactured in Lebanon, then it shall be the responsibility of the manufacturer to ensure that all RTTE supplied is in conformity with the TRA requirements referenced in the TCF and DoC.
53. Figure 1a shows a flowchart for the Type approval process for Class 0 RTTE. Note that neither a Type Approval application nor a payment is required for Scheme 0.

4.4 Scheme 1

54. Scheme 1 is applicable only to RTTE classified as Class 1.
55. The TCF shall be safely stored by the importer/manufacturer at an address in Lebanon.
56. The importer or manufacturer shall prepare a Declaration of Conformity (DoC) with the applicable TRA specifications (see Appendix B for the format of the Declaration of Conformity) and submit this, together with the test report (as included in the TCF,) a completed Type Approval application form (see Appendix B for the format of the application form) and payment to TRA for assessment.
57. TRA will issue a Type Approval Certificate following a successful outcome of the assessment of the application form and DoC.
58. The TRA Type Approval label applicable for **Class 1** products shall be applied to the RTTE as described in this document.

59. Upon completion of the above RTTE manufactured outside of Lebanon may now be imported into Lebanon and RTTE manufactured in Lebanon may now be offered for sale in Lebanon.
60. Should TRA not grant approval, the applicant will be informed of the reasons for the decision. The applicant may address the non-compliance and is free to submit a new application for Type Approval.
61. Should the approved RTTE be modified the importer must update the TCF and update and submit the DoC to TRA. TRA will then confirm the approval, or otherwise, of the new version of the RTTE.
62. Should a series of RTTE use the same telecommunications interface and differ only in ways which do not affect compliance with the applicable TRA specifications, then such RTTE can be included in a single TCF and DoC, so long as each RTTE is clearly and uniquely identified in the TCF and DoC.
63. The TCF must be kept fully up to date to reflect changes to the product and must include information which proves that compliance with TRA requirements has been maintained. The TCF should contain an index and all information contained should be clear and unambiguous.
64. The TCF may be inspected at any time by TRA and should be kept for a minimum period of 10 years after the last product has been imported or manufactured.
65. The TCF must clearly demonstrate the compliance of the RTTE with the requirements of the applicable TRA specifications and enable the compliance to be assessed. In particular, it must cover the design, manufacture and operation of the RTTE:
66. The importer must ensure that all necessary measures are taken by the manufacturer in order to ensure continued compliance of the manufactured products with the TRA requirements referenced in the TCF and DoC.
67. All necessary measures shall be taken by a Lebanese manufacturer in order to ensure continued compliance of the manufactured products with the TRA requirements referenced in the TCF and DoC.
68. Figure 1b shows a flowchart for the Type approval process for Class 1 RTTE. Note that a Type Approval application and payment are required for Scheme 1.

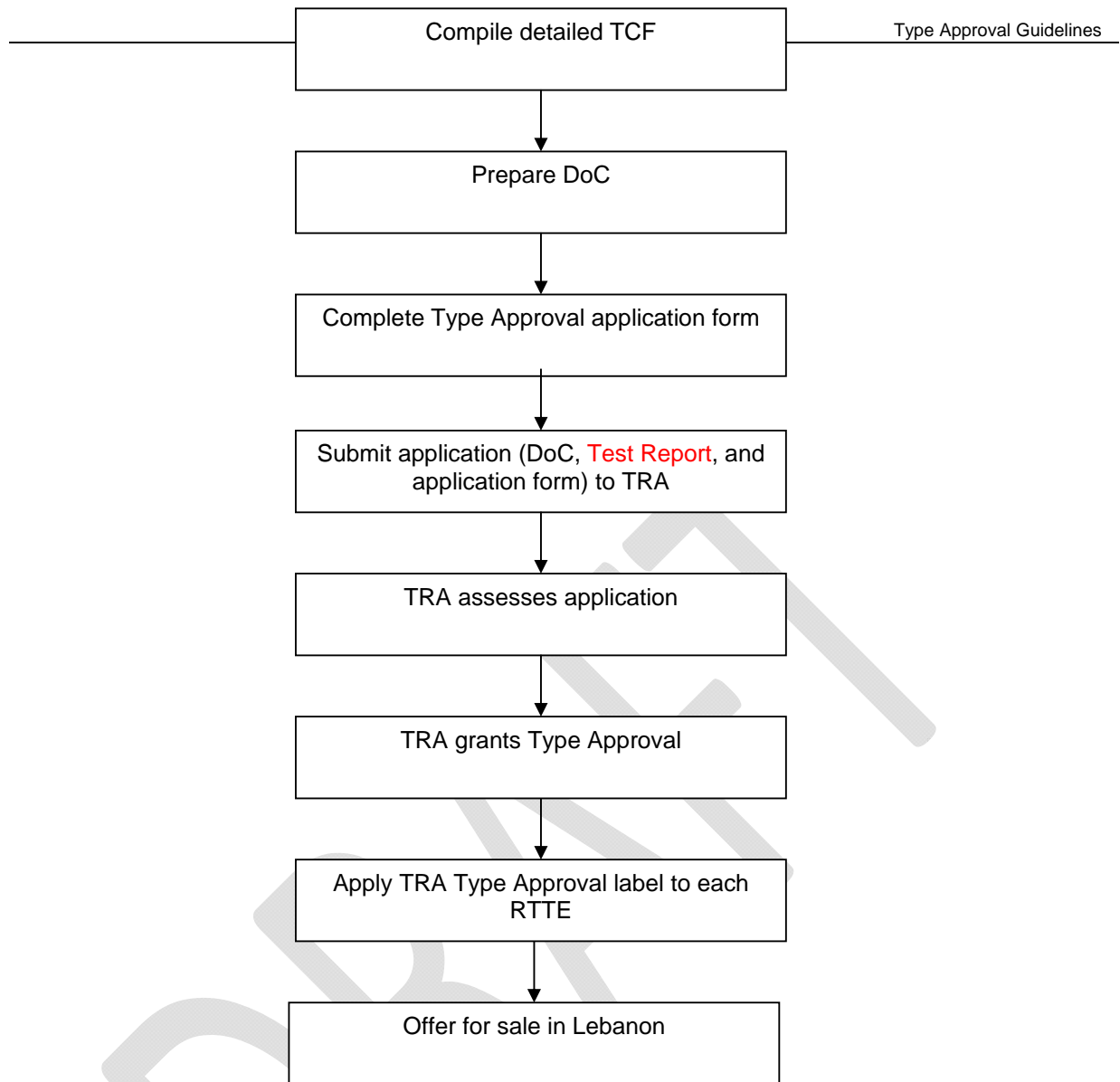
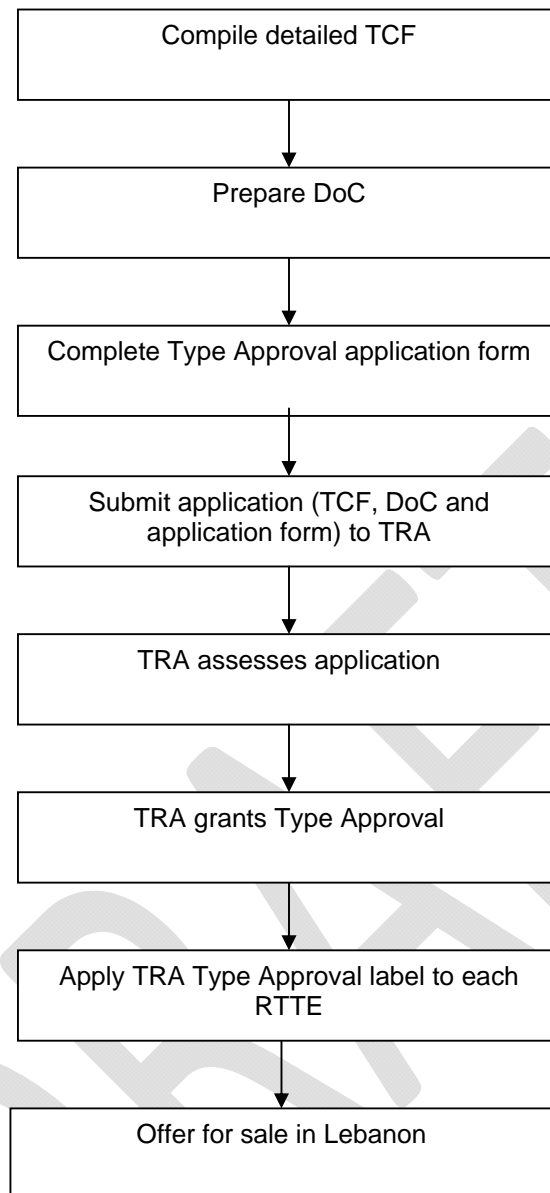


Figure 1b: Type approval process for Class 1 RTTE

4.5 Scheme 2

69. Scheme 2 is applicable only to RTTE classified as Class 2.
70. The importer or manufacturer shall prepare a Declaration of Conformity (DoC) with the applicable TRA specifications (see Appendix B for the format of the Declaration of Conformity) and submit this, together with a completed Type Approval application form (see Appendix B for the format of the application form), payment and the TCF to TRA for assessment.
71. TRA will issue a Type Approval Certificate following a successful outcome of the assessment of the application form, DoC and TCF.
72. The TRA Type Approval label applicable for Class 2 products shall be applied to the RTTE as described in this document.

- 73.** Upon completion of the above RTTE manufactured outside of Lebanon may now be imported into Lebanon and RTTE manufactured in Lebanon may now be offered for sale in Lebanon.
- 74.** Should TRA not grant approval, the applicant will be informed of the reasons for the decision; the applicant may address the non-compliance and is free to submit a new application for Type Approval.
- 75.** Should a series of RTTE use the same telecommunications interface and differ only in ways which do not affect compliance with the applicable TRA specifications, then such RTTE can be included in a single TCF and DoC, so long as each RTTE is clearly and uniquely identified in the TCF and DoC.
- 76.** The TCF must clearly demonstrate the compliance of the RTTE with the requirements of the applicable TRA specifications and enable the compliance to be assessed. In particular, it must cover the design, manufacture and operation of the RTTE.
- 77.** Should the approved RTTE be modified in any way which affects the description of the product as presented in the submitted TCF, then the importer or manufacturer must submit an updated TCF and DoC to TRA for assessment. TRA will then confirm the approval, or otherwise, of the new version of the RTTE.
- 78.** The importer must ensure that all necessary measures are taken by the manufacturer in order to ensure continued compliance of the manufactured products with the TRA requirements referenced in the TCF and DoC.
- 79.** All necessary measures shall be taken by a Lebanese manufacturer in order to ensure continued compliance of the manufactured products with the TRA requirements referenced in the TCF and DoC.
- 80.** Figure 1a shows a flowchart for the Type approval process for Class 2 RTTE. Note that in addition to the required Type Approval application and payment for Scheme 2, the TCF should also be submitted to the TRA.



4.6 Scheme 3

81. Scheme 3 is applicable only to RTTE classified as Class 3.
82. The Type Approval process for Class 3 RTTE is identical to the scheme applied to Class 2 RTTE. However, Type Approval of a Class 3 RTTE involves a number of additional obligations placed on the Type Approval holder (licensed manufacturer or importer) and may include restrictions placed on the use of the RTTE.
83. The additional obligations placed on the Type Approval holder may include at least the requirement for the Type Approval holder to maintain accurate records of the following:
 - a. The name and address of the purchaser of the RTTE; and
 - b. The place of installation of the RTTE.

- 84.** Already approved RTTE Class 3 can be imported/manufactured within the Certificate validity period provided that the TRA is informed of 74(a) and 74(b) in each instance.
- 85.** Restrictions placed on the use of the RTTE will include those which TRA considers necessary to ensure compliance with the prevailing regulatory environment.
- 86.** Obligations and restrictions will be clearly recorded in the Type Approval documentation and will be strictly enforced by TRA through the process of surveillance.

4.7 Overall RTTE Type Approval Process

Figure 2 shows the overall RTTE Type Approval Process. TRA is considering automating parts of the Type approval process and may allow electronic filing and storage of certain parts of the required applications and TCF. TRA will issue the appropriate notification in due time.

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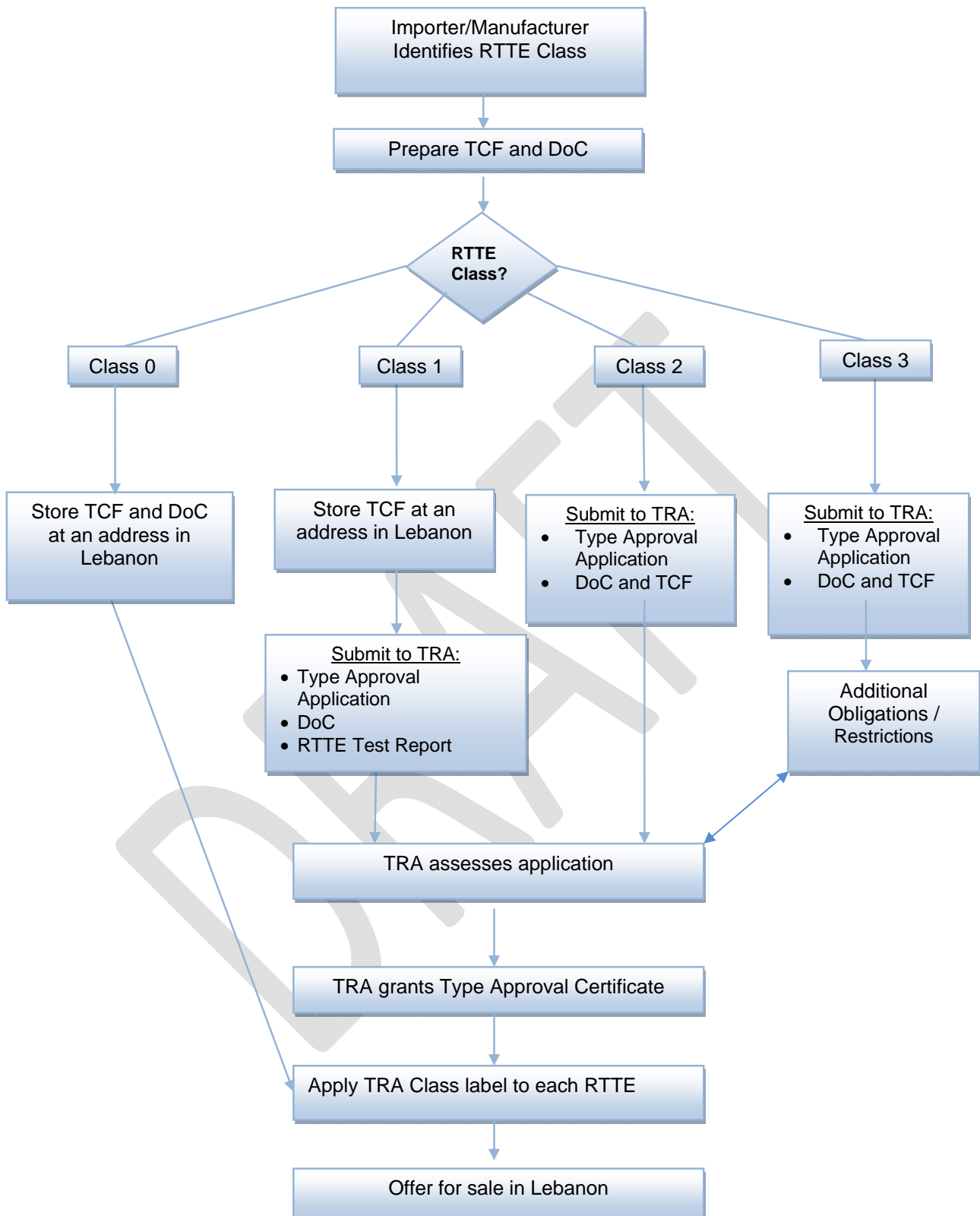


Figure 2: Overall RTTE Type Approval Process

4.8 Type Approval Certificate

87. A Type Approval Certificate will be issued to an applicant upon successful Type Approval of a particular make and model of equipment.

4.9 Terms and Conditions for granting Type Approval Certificate

88. The applicant shall also commit to conform to the following terms:
- c. Accept responsibility to discontinue importation and sale, and replace all the equipment already on the market in case of defects in the equipment resulting in unacceptable performance due to non-compliance to the TRA Technical specification.
 - d. Conform to any additional regulations issued by TRA.

4.10 Compliance with TRA Specifications

89. A list of TRA specifications applicable to RTTE is presented in the TRA Specifications for RTTE document.
90. As stated in this Guidelines document, test reports which clearly and unambiguously demonstrate compliance with applicable TRA specifications must be included in a TCF.
91. Test reports which demonstrate compliance with international standards which provide the technical requirements of the TRA specification can equally be used to demonstrate compliance, so long as the relationship between the international standard and the TRA specification is demonstrated clearly and unambiguously.
92. TRA will recognise results of testing performed by a laboratory whose accreditation includes the type of RTTE which has been tested and where the laboratory is (at least one of the following):
- a. Accredited by a national accreditation agency or a national government body
 - b. ISO17025¹ accredited by an national or international accreditation body; or
 - c. A membership of the International Laboratory Accreditation Cooperation (ILAC) (<http://www.ilac.org>.)
93. Proof of accreditation should be included with the test report(s), either as an integral part of the report, or separately.
94. ILAC members can be contacted in order to identify a laboratory suitable for testing a particular type of RTTE.

4.11 Maintenance of Type Approval

95. Type Approval holders are required to ensure that all RTTE of a given type imported into, or offered for sale in Lebanon is identical to the type described in the TCF and DoC. This requirement applies equally to the physical appearance of the product as well as to the compliance of the RTTE with TRA specifications.

¹ ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories

96. Any changes to approved RTTE must be captured in an update to the TCF and the preparation of a new DoC. If the TCF and/or DoC are held by TRA (in cases of Scheme 2 and 3, then the updated TCF and/or new DoC must be submitted to TRA for assessment. The updated documentation must demonstrate continued compliance of the RTTE with the applicable TRA specifications. It may therefore be necessary for new test reports to be provided.
97. Following assessment of the new TCF and/or DoC, TRA will inform the approval holder of its decision on the Type Approval status of the RTTE. In the event that the changes notified to TRA affect the compliance with TRA specifications, then TRA will issue updated Type Approval documentation.
98. No changed RTTE may be imported into, or offered for sale in Lebanon, until TRA has notified the Type Approval holder of the positive outcome of its assessment.

4.12 Renewal of Type Approval

99. Type Approvals for Class 0 RTTE shall remain valid for as long as the TCF and DoC are maintained. Type Approvals for Class 1, 2 and 3 RTTE shall be valid for a period of 1 year.
100. 45 days prior to the anniversary of the award of a Type Approval to a Class 1, 2 or 3 RTTE, TRA will send the approval holder a renewal notice. The approval holder shall make the appropriate payment before the due date in order to renew the approval for a further year.
101. Failure to make the renewal payment by the due date will result in the cancellation of the Type Approval.

4.13 Cancellation of Type Approval

102. The Type Approval holder may cancel the Type Approval of a Class 1, 2 or 3 RTTE by sending a written notification to TRA. TRA will provide written confirmation that a Type Approval has been cancelled.
103. Once the Type Approval has been cancelled, it will no longer be permissible to either import or offer for sale in Lebanon the type of RTTE for which the Type Approval was cancelled.
104. Class 0 RTTE is not subject to notification of cancellation to TRA. Never the less, the requirement that the TCF and DoC must be kept available for a period of 10 years after the RTTE has been withdrawn from sale remains valid.
105. TRA reserves the right to cancel a Type Approval (including that for a Class 0 RTTE) in the event that the approval holder repeatedly fails to honour its obligations under the TRA Type Approval regime documented herein or fails to honour any obligations recorded in the Type Approval documentation issued for the RTTE in question.

5 Surveillance of RTTE

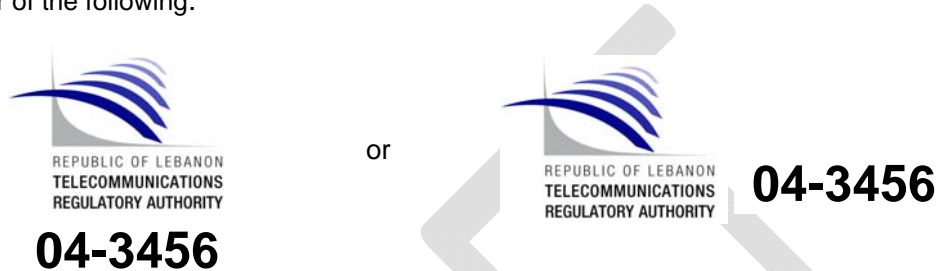
106. TRA will inspect RTTE to verify compliance with the TRA Type Approval regime. The selection of RTTE for inspection will essentially be a random process. However, should experience over time indicate that a particular importer or manufacturer has a history of non-compliance with the Type Approval regime, then TRA may opt to inspect RTTE supplied by such companies more frequently than would occur under a random process.
107. TRA may perform an inspection at any time, whether as a result of a complaint, a report of interference, inappropriate advertising or any other reason that, in TRA's opinion, would warrant invoking the surveillance process.
108. The approval holder shall make available to TRA a representative sample of RTTE for inspection at no cost to TRA. In the case of RTTE readily available from stock, a representative sample shall be made available to TRA within 10 working days of a written request. Should a sample not be available, the approval holder shall write to TRA within 10 working days of receipt of the request, to confirm a date on which a sample will be made available to TRA for inspection. In the case of RTTE which is only supplied in response to a customer order, the approval holder shall write to TRA to confirm when a sample of such RTTE will be made available. In the event that no date can be offered, or in the event that TRA considers the date offered to be unacceptable, then TRA may inspect the most recent installation of a given RTTE.
109. TRA reserves the right to be notified of the arrival of the new sample of such RTTE in order to inspect a sample, which is representative of current manufacturing process, when it becomes available.
110. When inspecting RTTE approved under Scheme 0 or Scheme 1, TRA will require the approval holder to make available the TCF (and DoC in the case of Scheme 0) for inspection within 10 working days of a written request from TRA. For all other RTTE, TRA is the holder of the TCF and DoC and will make these documents available.
111. TRA will carry out a visual comparison of the sample of the RTTE with the TCF and DoC. In the event that the inspection is completed without TRA identifying any problems, the RTTE can continue to be imported and made available for sale in Lebanon.
112. Should TRA identify a difference between the sample and the TCF or DoC which, in TRA's opinion, would not affect the compliance of the RTTE with the applicable TRA specifications, then TRA shall agree with the approval holder a period of time in which the documentation should be rectified and submitted with the sample to TRA for re-inspection. The RTTE can continue to be imported and made available for sale in Lebanon during this period.
113. Should the approval holder fail to provide to TRA corrected documentation and the RTTE sample within the agreed timescale, TRA will invoke the Type Approval cancellation procedure.
114. Where a check is inconclusive or unsatisfactory, TRA will request additional information from the approval holder.
115. TRA reserves the right to request the approval holder to provide a new test report for a currently manufactured sample of RTTE.
116. TRA reserves the right to stipulate the test laboratory at which the testing shall be performed and the TRA specification against which testing shall be carried out. The approval holder will be responsible for all costs incurred as a result of this testing.
117. In the event that equipment is found to be non compliant with the TRA Type Approval regime, TRA may impose penalties which it believes are appropriate to the level of the non-compliance identified. TRA reserves the right to invoke the Type approval cancellation procedure.

- 118.** RTTE found to be non compliant with the Type Approval regime may not be imported into, or offered for sale in, in Lebanon.

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6 Marking Requirements

119. RTTE offered for sale in Lebanon shall be marked (directly on the RTTE and on the packaging) with the TRA Type Approval label. The only permissible exceptions are where the RTTE is too small for the label to be applied, or where the construction of the RTTE makes it impossible to apply the label.
120. Where the label cannot be applied to the RTTE it shall be applied to the user guide accompanying the RTTE.
121. The Type Approval label to be applied to RTTE approved under Scheme 0 shall display the TRA logo and the licence number of the importer or manufacturer. The format shall be either of the following:



122. The Type Approval label to be applied to RTTE approved under Schemes 1, 2 and 3 shall display the TRA logo and the unique approval number issued by TRA. The format shall be:



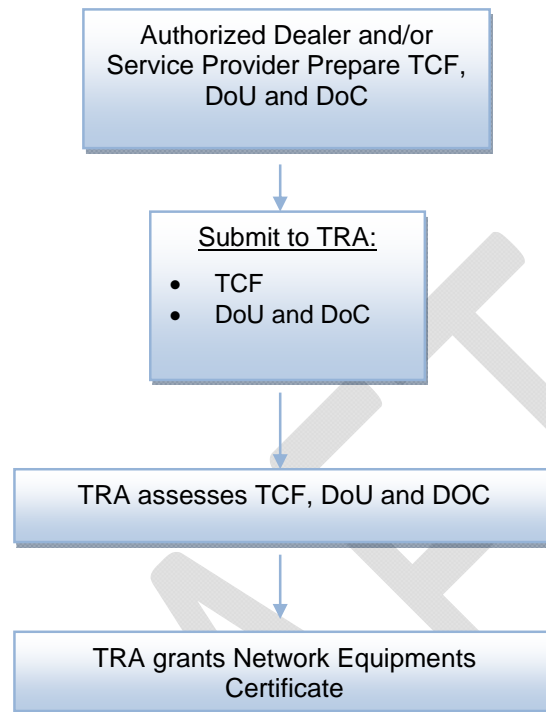
123. The Type approval label shall be durable and recognizable. The height of the TRA logo shall be no less than 1 cm. The approval number/licence number shall be no less than 3 mm in height. When the label is applied to the packaging of equipment, the minimum heights specified above shall be at least doubled.
124. The Type Approval label shall not be used as a mark of product quality or in marketing campaigns.

7 Network Equipment Approval Procedure

Figure 3 shows the overall NIE Type Approval Process.

115. The Service Provider, in coordination with an Authorized Dealer having a network equipment importation license if applicable, shall compile a Technical Compliance Folder (TCF), which includes the following documents:
 - a. Certified Copy of SP License granted by TRA.
 - b. Certified Copy of Import License granted by the TRA if an authorized dealer is involved.
 - c. List of the Network Equipment to be ordered or imported.
 - d. The technical specification of each Network Equipment type and interfaces as specified by the TRA. The SP shall clearly indicate the technical specifications and/recommendation with which each of the equipment is designed to comply.
 - e. A list of potential installation site(s) of the network equipment.
116. This list of Network Equipment in the TCF shall be in agreement with the equipment type specified in the SP license.
117. The list of specifications shall comply with the list of specifications and/or recommendations for Network Equipment specified by the TRA.
118. A Declaration of Use (DoU) of the Network Equipment shall be completed by both the SP and the importer (if any). Appendix C shows the Declaration of Use form.
119. The SP shall prepare a Declaration of Conformity (DoC) of all the Network Equipment with the indicated specifications/recommendations. Appendix C shows the Declaration of Conformity form for NIE.
120. The Service provider and the authorized dealer (if any) shall submit the DoU together with the DoC, the TCF, and applicable fees to TRA for assessment.
121. Restrictions placed on the use of the Network Equipments will include those which TRA considers necessary to ensure compliance with the prevailing regulatory environment.
122. TRA shall levy charges for the assessment of the TCF, DoU and DoC for granting Network Equipment Approval Certificate, and for the renewal of the existing certificate.
123. TRA will issue a Network Approval Certificate, valid for one year, following a successful outcome of the assessment of TCF. Appendix B shows the certificate form.
124. Service Providers shall be allowed to import already approved NIE within the Network approval Certificate validity period provided that the TRA is informed of the installation site(s) of the said equipment.
125. NIE Approval Certificate can be renewed within 45 days from the Certificate expiration date after the payment of applicable renewal fee documented in TRA Schedule of Fees for Type Approval.
126. TRA has the intention to reduce later the Type Approval procedure of NIE (refer to the regulation for any update)

Figure 3: Network Equipments Importation Process



8 Charges

- 125. TRA shall levy charges for the award and renewal of Importer/Manufacturer Licences and for the assessment of new applications for RTTE and NIE Type Approval and renewal of existing Type approvals.
- 126. The fees payable are documented in TRA Schedule of Fees for Importer/Manufacturer License & Type Approval Charges.
- 127. Proof of payment for an application for an importer/manufacture licence or for Type Approval of an RTTE/NIE must be provided with the application.
- 128. Charges for the renewal of an Importer/Manufacturer Licence, Type Approval or Network Approval must be paid in accordance with instructions accompanying the renewal notice issued by TRA.

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9 Transition Arrangements

129. Licences for importation of RTTE, which were granted under Decree 33 shall be transferred to the TRA Type Approval regime described in this document within six (6) months of the publishing of the Type Approval Guidelines on the TRA website.
130. As an exceptional measure, and exclusively during the Transition Period, TRA encourages all unlicensed importers and manufacturers, as well as importers or manufacturers who are currently importing or manufacturing RTTE which is outside the scope of their licences, to apply for an appropriate Licence and Type Approval under the TRA Type Approval regime.
131. At the expiration of the Transition Period, TRA will take action against all parties whose actions contravene the Type Approvals Guidelines.

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List of Abbreviations

DoC	Declaration of Conformity
DoU	Declaration of Use
SP	Service Provider
ILAC	International Laboratory Accreditation Cooperation
ISO/IEC	International Organization for Standardization / International Electro-technical Commission
NIE	Network Infrastructure Equipment
RTTE	Radio and Telecommunications Terminal Equipment
TCF	Technical Compliance Folder
TRA	Telecommunications Regulatory Authority

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Appendix A – Classification of RTTE

Where RTTE fits into more than one Class (for example where the RTTE has more than one interface), the whole RTTE shall be classified under the higher Class.

Class 0	Class 1	Class 2	Class 3
GSM handsets	Single line equipment directly connecting to analogue PSTN services	Analogue Cordless Telephones	Pay telephones
Bluetooth (<i>Bluetooth Class 2 and 3</i>)	Single line telephones	Digital Cordless phones (not 900MHz)	PBX and Key systems
Radio Hearing Aids	Fax machines	Inductive Radio Applications	TE offering direct connection to SDH relay services
	Analogue modems	Radio Microphones	All switching equipment which offer direct connection to 2 and 4 Wire analogue LL services
	Answering machines	Remote Telemetry	VoIP products (IP Telephony) irrespective of the interface offered.
	Subscriber meters	Commercial Amateur Radio	TTE offering direct connection to PRI services.
	Adjuncts and telephones offering analogue CLI	Non-Specific SRD ² (ISM ³ and country specific bands)	TTE offering direct connection to E1 or other G.703 interface
	PSTN connected security alarms	Detection of Movement	HDSL Modem (subscriber)
	ADSL Modems	Short range Radio Telemetry	Analogue PMR (trunked and non-trunked systems)
	Model Control ⁴ (Radio)	Wireless Audio Applications	Digital PMR
	WiFi/RLAN/HiperLAN/ (indoor use only)	Broadband Wireless Access	Short Range Radio (Family Radio)
	Bluetooth (<i>Bluetooth Class1</i>)	Citizens' Band ⁵	Mobile Satellite Service (MSS) 1 GHz
	DECT ⁶ (1880- 1900MHz)	Pager Base station and Terminal Equipment	Mobile Satellite Service (MSS) 1-3 GHz
	ISDN basic rate		V-SAT
			Fixed Links

⁴ A short range remote control used to control the motion of toy cars, planes, etc.

⁵ A radio-frequency band officially allocated for private radio communications.

⁶ **D**igital **E**nhanced **C**ordless **T**elecommunications: A cordless phone standard widely used in Europe. Based on TDMA and the 1.8 and 1.9GHz bands, it uses Dynamic Channel Selection/Dynamic Channel Allocation (DCS/DCA) to enable multiple DECT users to coexist on the same frequency

			Wireless Local Loop transceivers
			Road Transport Telematics
			UMTS Handsets
			WiMAX Handsets
			Mobile Earth Stations
			Fixed Earth Stations
			Audio Broadcasting Equipment
			Video Broadcasting Equipment
			TE offering direct connection to X.21/V.35 services
			TE offering direct connection to X.25 services
			TE offering direct connection to Frame relay services
			TTE offering direct connection to BRI services, customer provided NT1 / NT2 equipment
			TTE offering direct connection to BRI services Including Terminal Adaptors
			TTE offering direct connection to N*64Kbs services

Appendix B - Applications Forms & Declaration of Conformity for RTTE

Application form for RTTE Importer or Manufacturer Licence

Application form for RTTE Type Approval

Model Declaration of Conformity

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Application for Importer Or Manufacturer Licence

Name of the Applicant:	Address in Lebanon where compliance documentation will be kept (if different to Business Address)
Lebanese Company Registration No:	
Business Address:	
Postcode:	
	Postcode
	Contact Information Tel. office: Tel. mobile: Fax: Email:

Type of licence required (Tick one only)	Importer/Authorized Dealer		Manufacturer				
RTTE Class of licence required or License for Network Infrastructure Equipment (NIE) (Tick one only)	Class 0	Class 1	Class 2	Class 3		NIE	
Please list all types of products to be manufactured or imported e.g. analogue modem, GSM handsets etc..							

I hereby apply for an Import/Manufacturer licence. I agree that TRA may make checks to confirm my identity and that I will:

- i) Abide by the conditions of the Telecommunication Law and Type Approval Guidelines;
- ii) Indemnify TRA, its officers, employees and agents against all liabilities arising from or relating to any product imported by me or resulting from fraudulent use of my importer/licence number and type approvals based upon this number.

I declare that the information given in this application is correct and that I have the legal authority to sign on behalf of the applicant

Print name	Signature on behalf of the registered company
Position in the registered company	
Date	

Notes:

- 1) TRA means the Telecommunication Regulatory Authority of Lebanon.
- 2) The definitions set out in the Type Approvals Guidelines apply.
- 3) Each supplier has his own unique Importer/Manufacturer Licence number and need apply for this only once provided that the licence is renewed in accordance with TRA guidelines.
- 4) A non-refundable fee is payable for each licence application made.
- 5) A fee is payable on renewal of each licence.

- 6) It is necessary to renew licences yearly, on the anniversary of the licence issue date.



APPLICATION FORM FOR TYPE APPROVAL

A. APPLICANT PARTICULARS

Applicant Name/ Company Name: (as written on TRA Importer/Manufacturer License)		Dealer's License No.
Company Address:		License Class
Contact Person: <i>(must be the License Holder or a representative of the License Holder).</i>	Title/Position:	
Tel:	Fax:	E-mail:

B. DETAILS OF RADIO AND TELECOMMUNICATION TERMINAL EQUIPMENT

Equipment Type: -----

Brand Name : ----- Trade Name (If any) : -----

Model No. : ----- Year of Manufacturing : -----

Name of Manufacturer : -----

Address of Manufacturer : -----

The purpose for which Type Approval is being requested

Equipment to be marketed in Lebanon

Equipment to be used by Applicant

The purpose(s) for using the equipment:

Please identify all telecom networks to which connection is intended:

C. ADDITIONAL DETAILS FOR RADIO EQUIPMENT

RF Channel Spacing: ----- Type of Modulation: -----

RF Output Impedance: ----- [Software/Firmware] Version: -----

RF Output Power: -----[Transmitter Power/E.R.P/E.I.R.P]

Operating Frequency range (switching range without retuning)

a. Transmit: -----MHz to -----MHz Receive: -----MHz to -----MHz

b. Transmit: -----MHz to -----MHz Receive: -----MHz to ----- MHz

D. RELATED PRODUCTS

If you are applying for type approval of an equipment similar to one for which you already hold a type approval:

Type approval number: -----

Explain the relationship between the equipment above and the existing type approval:

If you are applying for type approval of an OEM or brand name equipment for which you already hold a type approval:

Type approval number:-----

Explain the relationship between the product above and the existing type approval

-----**E. TEST REPORTS**

Any test report issued: Yes No

If yes:

Test Laboratory: Reference No.:

Name of test body:

Name of evaluation standard / specification in use:

F. DECLARATION

1. I hereby declare that the information and document given in this application form is true and correct.
2. I hereby confirmed that the submitted sample is representative of the equipment as stated in this application form.
3. I agree to collect the submitted sample within three months from the date of notification of the evaluation result. If I do not collect the submitted sample within such period of time, I agree that the Telecommunications Authority may dispose of the submitted sample in whatever manner he considers appropriate.
4. I agree to comply with any terms, conditions or restrictions which the Information and Communication Technologies Authority may impose and to be bound by the laws and regulations in force.

Company's Stamp**Applicant's Signature:****Signatory's Name:****Position Held:****Place & Date:**

G. FOR OFFICE USE

Special comments:

.....
.....
.....

Date approved:

Signature:

For Director of Licensing
(Telecommunication Regulatory Authority)

H. CHECKLIST FOR DOCUMENTATION TO BE PROVIDED WITH THIS APPLICATION:

Payment of fees or proof that payment has been made (Please note that a separate fee is payable for each separate approval application)

Declaration of Conformity

TCF comprising (*not required for Class 1 Equipment*)

Photographs of the external and internal features of the RTTE;

A description of the intended use of the RTTE;

A detailed description of the functions and features offered by the RTTE;

Descriptions and explanations necessary for the understanding of said drawings, schemes and operation of the RTTE;

A list of the TRA specifications with which the RTTE is designed to comply;

Test reports from suitably accredited laboratories proving RTTE compliance with these specifications;

Copy of the RTTE user guide in either the Arabic, French or English language;

Drawings and schematics showing key components, the wired and/or wireless interfaces of the RTTE;

Details of antenna for radio TTE.



Declaration of Conformity

I / We *(name of manufacturer/importer)*----- **Licence Number:** -----

of *(address including postcode)*-----

Declare under my/our sole responsibility that the equipment(s):

(product description including brand name, type or model and any supplementary information such as lot, batch or serial number identification)

To which this declaration relates, is/are in conformity with the following TRA Specifications, The Guidelines for Type Approval and will be used in accordance with the Telecommunications Law.

and that I / we have examined the technical basis for this declaration which is based on test reports and /or certificates issued by

Name: -----

Signature: -----

Date: -----

Appendix C – Declaration Forms for Network Equipment

Model Declaration of Use of Network Equipments

Model Declaration of conformity of Network equipments

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DECLARATION OF USE

1. Service Provider Declaration

I, *(Name of the service provider)* ----- SP License No. -----of
(address including postcode)-----

Hereby declare to be the end user of the equipments listed below,

Imported by *(Name of the importer or SP)* -----

Importation license No. ----- *(Only if the importer is not the SP)*

Contract No. ----- Contract date -----

Equipment	Type	Quantity
-----	-----	-----
-----	-----	-----
-----	-----	-----
-----	-----	-----
-----	-----	-----
-----	-----	-----

And I declare under my sole responsibility that the equipment(s) is/are in conformity with the list of equipments allowable by the SP license and will only be used by *(name of SP/Company)* -----
 ----- **in accordance with the Telecommunication laws.**

Upon request by the TRA we undertake to confirm receipt of the equipment listed above.

Date -----

Signature of the SP -----

(Stamp of the company)

2. Importer Declaration

I (*name of the importer*) ----- Import Licence No. -----

of (*address including postcode*) -----

Declare under my sole responsibility that the equipment(s) listed above are imported to be used by the Service Provider (*name of SP*) ----- And that these equipments will neither be used nor sold in Lebanon to another Service Provider

Date -----

Signature of the Importer-----

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Declaration of Conformity

(For Network Equipment)

I / We (name of Service Provider)----- SP Licence No. -----

of (address including postcode)-----

Declare under my/our sole responsibility that the equipment(s):

To which this declaration relates, is/are in conformity with the List of Specifications indicated in the TCF and the following list of recommendations for network equipments specified by TRA and will be used in accordance with the Telecommunications Law.

and that I / we have examined the technical basis for this declaration which is based on test reports and /or certificates issued by

Name of Service provider: -----

Date: -----

Signature: -----

Appendix D – Certificate Forms for RTTE and Network equipment

RTTE Approval Certificate

Network Approval Certificate

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Certificate number: -----

RTTE Approval Certificate

This certificate is issued to

----- (Company / Applicant) -----

----- (Address) -----

License number

For the equipment

----- (Product Description) -----

Of type

----- (Type) -----

Remarks (If any):

This certificate is issued to attest that TRA did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.

This certificate is valid until:

Beirut, on:

Authorized officer
(Type Approval)

Approval office



Certificate number: -----

Network Equipment Approval Certificate

This Certificate is issued to

------(Service Provider)-----

------(Address)-----

SP License No. -----

Imported By (if any)

------(Importer)-----

------(Address)-----

Import License No. -----

For the following equipments

Equipment	Type	Quantity
-----	-----	-----
-----	-----	-----
-----	-----	-----
-----	-----	-----
-----	-----	-----
-----	-----	-----

Remarks (If any):

This certificate is issued to attest that TRA did undertake the relevant approval procedures for the network equipments identified above which was found to comply with the relevant requirements of the Regulations.

This certificate is valid until:

Beirut, on:

Authorized officer
(Type Approval)

Approval office