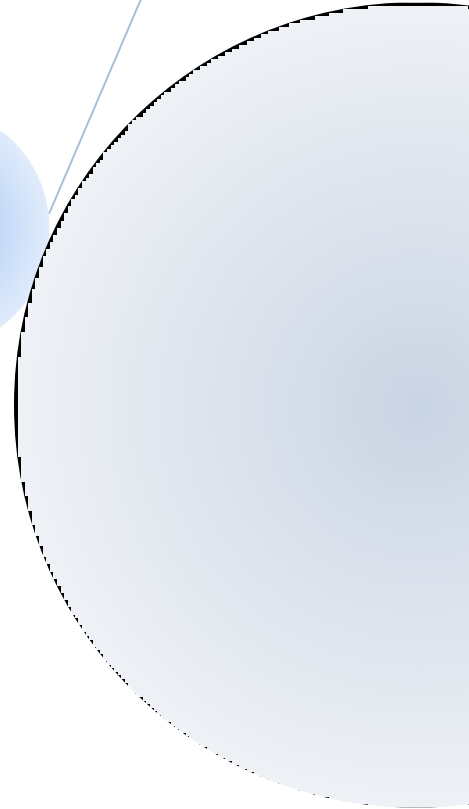
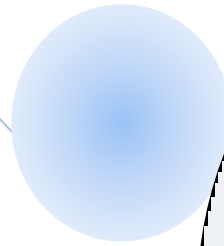
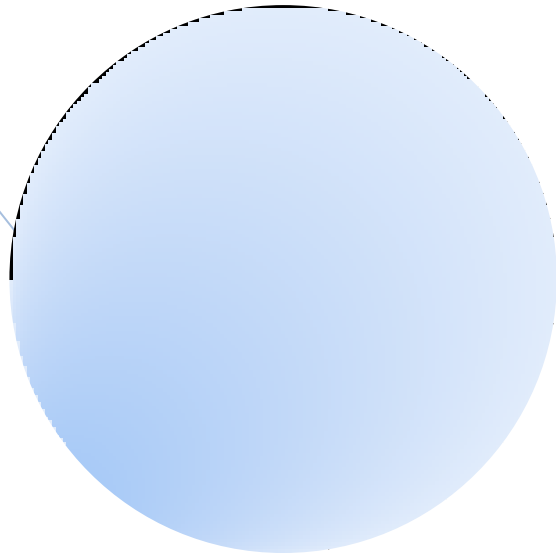




هيئة تنظيم الاتصالات
Telecommunications Regulatory Authority



Type

Approval

System

Agenda

- Introduction about Type approval & TRA.
- Type Approval Objectives.
- Required documents for Type approval.
- Standards.
- Trend to 5G.
- Challenges.
- Vision of the Future.



Introduction about Type approval & TRA.

What is Type Approval?

Type Approval is a requirement for Radio and Telecommunications Terminal Equipment (RTTE) to comply with specific technical specifications and the equipment must be registered with the TRA before it can be supplied to Oman.

Registration of equipment with the TRA must be supported by test reports to declare its conformity and by other technical documentation. An application form must be submitted to the TRA through online e-portal. Registered and approved equipment must be marked, or have a mark on its packaging (TRA Label), along with dealer information to identify that it has been Type Approved and that it may be used in Oman.

What equipment is subject to registration?

In general, all radio equipment and all telecommunications terminal equipment connected to a public telecommunications network must be registered with the TRA before it can be supplied Oman.

The TRA publishes technical specifications for the equipment concerned. If there is not an applicable technical specification then the TRA will decide on a case-by-case basis as to whether the equipment concerned must be registered. The TRA reserves the right to exclude or prohibit any equipment.

What is TRA?

- **TRA** was established in 2002 {Royal Decree No. (30/2002)}.
- The main objective of TRA is to regulate the telecommunications sector in the Sultanate of Oman
- **One** of the most important pillars of the Authority is the Department of Type Approval and Inspection.
- The Type approval dep't established in 2003 and under this dep't there are inspection team to check the all equipment's in local market if certified/approved by TRA or not.
- **Type** approval dep't Procedures as follow : Each importer or supplier should be registered in type approval dep't to be able to bring telecom equipment for local market .
- The registered importer shall only sell telecommunications equipment type approved by the TRA , all equipment sold and used within the Sultanate of Oman must carry the TRA Approval label.
- **In** type approval dept we are working with two different decisions 8/2008 & 59/2015



Type Approval Objectives

The type approval regime in the Sultanate of Oman has been designed with the following objectives in mind:

Safety and non-interference:

- To ensure the safety of consumers, the operators' networks and operators' staff
- To ensure that electromagnetic interference is kept in low level
- To ensure that the radio spectrum is used in accordance with the appropriate spectrum plan

Quality and performance:

- To promote the quality, diversity and cost effectiveness of equipment available to consumers
- while minimizing consumer and network operator issues due to equipment incompatible with Networks in Oman
- To provide clear guidance for consumers so that they may make informed buying decisions, advising
- consumers about equipment unsuitable for their needs and which may be incompatible with the network
- To provide clear guidance for retailers so that they may avoid selling incompatible equipment

Other objectives:

- To facilitate the work of customs officers
- To provide system for addressing problems caused by incompatible equipment



Required documents for type approval

In order to register a company operating within the telecoms sector, the following documents will be required along with the online registration application form:

- Copy of the official Commercial Registration documents from the Ministry of Commerce and Industry
- Copy of the Certificate of Affiliation from Oman Chamber of Commerce and Industry
- Copy of the ID of the owner of the company

In order to apply for type approval for telecommunications equipment, the following documents will be required along with the online type approval application:

- Full technical data and specifications documents
- Copy of Manufacturer Declaration of Conformity
- Test reports (RF, EMC, Safety, and SAR) from a test lab recognized by the TRA (or approved by a member of the ILAC)
- GSMA IMEI Certificate for mobile
- Documents of user's guide and sales brochure with color photographs of the equipment



Standards.

1. ITU
2. EU (European standard's)
3. FCC
4. IEC
5. ETSI
6. IEEE
7. CE
8. RoHs
9. RED directive
10. National Standards (national Spectrum plan)



Trend to 5G.

- A national team has been formed to pave the way for the deployment of the fifth generation (5G).
- TRA already working to prepare new policy & requirement for 5G.
- TRA spectrum unit already has been allocated some bands to use in 5G service.
- The lead telecom company in Oman (Omantel) already starts the demo operation in collaboration with Ericsson Co.
- A number of workshops were launched.



Challenges & Problems

- Lack of customs control.
- Test lab



Vision of the Future.

The future vision of the authority is linked with Oman 2020 vision

- TRA already was signed MoUs with several countries & Companies.
- TRA has a good corporation with several testing labs around the world.
- TRA is seeking to build the own testing lab.
- Also we are looking for more corporation with other countries and ITU

Labeling

Example

Oman - TRA
Dealer No.
Certificate No.

Equipment or its packaging and user documentation must be clearly labeled with the label specified, unless otherwise agreed with the TRA in specific cases. On an exceptional basis, the TRA may require that the label be applied to the equipment, regardless of whether or not the packaging and user documentation is marked. The label shall not be used as a mark of quality or be used in any other way that is not intended by the TRA.

The End

Thanks for your attention

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