

# PROPOSED ROADMAP FOR SETTING UP A C&I REGIME

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### **Summary**



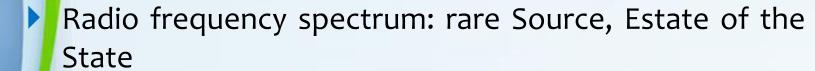


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## The Type approval: a "need" or not





- The states rent the radio frequency spectrum to users according to a frequency plan
- For the respect of the lease, a state needs:
  - Protect official users from interfering;
  - Ensure that the tenant does not use resources beyond what it has been granted.
- The states are responsible for protecting consumers and the marketplace of counterfeit equipment, improper equipment to the interoperability standards and equipment harmful to health.



Conclusion: certification is a necessity and basic testing should consider these aspects



#### **Tunisian experience**



- Article 32 of the Telecommunications Code (Law 01-2001 promulgation of the code in Telecommunications): Approval Requirement Prior import
- Decree 830 of 2001 (MTCEN) Certification Procedure (administrative and technical telecommunication terminals)
- Decree 2727 of 2001 (MTCEN) Certification Procedure (administrative and technical encryption systems)
- Decree 2639 of 2008 (MTCEN): Creation of the single interface (One stop shop), simplifying approval procedures, authorizations and abolition of Adjustment of deadlines (CERT NDCA, ANF)
- 1744 Decree 1994 (TM): Systematic Technical Import control (a priori control and consumer protection)



### **Tunisian experience: statistics**





Average annual number of folders for approval and compliance: 8000

- Online Treaties 75%
- Deposited at GU ICT 25%

Average processing time for applications:

- Approval: 11 days
- Compliance: 5 days
- Removal Authorization: 2 days



# Other experiences around the world



#### 1. Self declaration of conformity

- EU and EFTA countries
- Australia
- New Zealand

#### 2. Classical type approval

- North, Central and South America, Caribbean
- Asia
- South and North Africa
- Gulf Coast Countries

#### 3. Type approval in restrictive markets

Russia

– Azerbaijan

Ukraine

Uzbekistan

Kazakhstan

- Moldova (certification process is EU-oriented)
   Turkmenistan
- Belarus

- Kyrgyzstan
- Georgia (certification process is EU-complianti)kistan
- Armenia



### European experience



For European countries, apart from the regulatory testing, they sought to ensure the security of people, facilities and health.

Establishing a concept of essential requirements introduced in each European directive.

#### **CE** concept calls essential requirements:

- •Safety (Directive 2014/35/EU);
- •Health (EMF) (Directive 2014/35/UE);
- •EMC (Directive 2014/30/UE);
- Efficient use of spectrum (RADIO) (Directive 2014/53/EU)
- Free movement of goods



# Advantage of the European experience





Transposition of directives

Introduction of a quality infrastructure

Implementation of accredited laboratories and recognized at international scale (near industrial companies and reduced costs)

Establishment of a market monitoring system a posteriori



# disadvantage of the European experience





- Performance tests (protocol)
- Test interoperability
- National requirements in terms of use of the spectrum frequencies

Limit the role for administrations



Only use directives, decisions and European directives



Investing in non-compliant infrastructure and systems to European recommendations







- Incomplete infrastructure quality; non-accredited testing laboratories not notified
- Market Control System:
  - Limited skills and resources
- Parallel Market (uncontrollable).
- Lack of a National Fund to finance market control operations.
- Consisting cost for economic operators
  - Obligation to require all stakeholders (manufacturers, importers, etc.) to meet the essential requirements



#### Case 1

Present test report:

- •CEM
- •BT
- Radio
- •EMF

#### Case 2

Do tests:

- •CEM
- •BT
- Radio
- •EMF



## Homologation (actual state) / declarative system



	Homologation (actual state in Tunisia)	European declarative system	
	•partial tests	•No trials with the mark in case of doubt	
	•Very low test cost	•Cost of tests consisting of marking	
),	•Systematic border control	•No systematic monitoring except perhaps	
V	•Light control market (rarely at market levels,	when doubt	
	supermarkets, etc.)	•Strict market supervision	
	•Untrained Agents for the market control on	•Agents trained for market control and	
	technical aspects	Specialized Laboratories as guidelines with full	
1	•Laboratories with very limited scope of tests,	scope of testing to the Directives concerned,	
	not accredited and not notified	accredited and notified	
/	<ul> <li>No base sets for market control operations</li> </ul>	•A National Fund consistent and well-defined to	
	•Existing penalties for fraud but rarely	finance market control operations	
	applicable	•Heavy penalties for fraud	



#### Type approval (action plan)



#### Type approval (with integration of European essential requirements )

- •Transposition of European directives (to adopt relative compliance testing depends of Directive)
- Creating Notification structures according to the relevant directive
- •Creation of a consistent National Fund to finance market control operations
- •Recognition of conformity test reports issued by laboratories notified by Tunisia (accredited labs who must be notified for testing compliance (EMC, BT, Radio, EMF))
- •Mandatory conformance testing in the laboratories of CERT in case of refusal of the test reports
- Preserving partial tests based on performance and interoperability testing (protocol)
- •Accompany these laboratories to accreditation and notification (complementary human resources investments, text ..)
- •Assist market control structures on the technical aspects and especially the analysis of test reports
- •Adapt regulations to impose the necessary fee to perform the compliance testing and which will be inflicted to the dealer in case of fraud and affix heavy penalties in this case
- •find the means to repay the testing laboratories if the equipment meets the directive



### Other experiences



- For other countries such as the USA, New Zeland, Australia, South Korea:
- Recognize the European system through MRAs
- Add other tests that ensure rigorous application of the protocols used to ensure interoperability with the existing networks and telecommunications systems.
- Some countries require sometimes other schemes of certification.

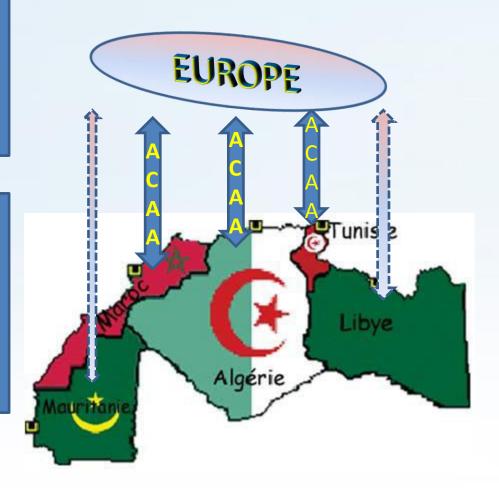


#### **Approval (Action Plan for Maghreb)**



(ACAA)
Agreements on
Conformity
Assessment and
Acceptance of
industrial products

Adoption of European system to eliminate technical barriers,



**MRA** are agreements between European **Union and** other countries to enhance trade between them.



Total Adoption of European system

ACAA



MRA

Partial adoption of European system



### **Approval (Action Plan for Maghreb)**



- Model choice
- Unite with the Maghreb countries enjoying the ITU approach that encourages these countries to sign MRAs between them in the field of compliance and interoperability for radio equipment and telecommunications terminals, which can present a comprehensive negotiating framework between the Maghreb region and Europe
- Recognition of conformity for radio products
  - Sign MRA with EU instead of integrating the Radio directive in the ACAA
  - Edit the essential safety requirements, EMC, health and efficient use of spectrum in the new model of compliance
  - Change radio Directive to take account of national requirements (Ministry of Defense, Ministry of Interior, Radio Navigation, Maritime Radio, etc.)
- interoperability
  - Provide voluntary testing to ensure interoperability between systems









### **JAPAN**



		Regulator	Mandatory Testing	Accepted Route
$\Theta$	EMC Requirement	The Voluntary Control Council for Interference by Information Technology Equipment (VCCI)	VCCI V-3 report required	Product dependent some madatory certification some via Declaration of Conformity (DoC)
	Safety (Electrical) Requirement	Product Safety Electrical Appliance & Material (PSE)	IEC report with Japanese deviations (under CB Scheme)	DoC based on report and Construction File (CF)
	Radio Requirement	Ministry of Internal Affairs and Communications (MiC)	Report required proving conformity to Japanese Radio Law and ordinances	MiC Conformity Assessment Body (CAB) review, leading to certification
	Telecoms Requirement	MiC	Report required to prove conformity to Japanese Telecoms	MiC CAB review leading to certification



## **SOUTH KOREA**



		Regulator	Mandatory Testing	Accepted Route
	EMC Requirement	Radio Research Agency (RRA)	Required	For non-radio or non- telecoms products, the Korean Certification (KC) Mark certification can be obtained using ILAC accredited EU EMC Reports
	Safety (Electrical) Requirement	Ministry of Commerce, Industry and Energy (MOCIE)	A CB Scheme report is accepted but only part covers eK requirement so samples will need to be provided	Most AC powered and some DC powered products require eK Mark Certification
	Radio Requirement	RRA	Mandatory In Country Testing	KC Certification
	Telecoms Requirement	RRA	Mandatory In Country Testing	KC Certification



## **Australia**



		Regulator	Mandatory Testing	Accepted Route
$\Theta$	EMC Requirement	AustralianCommunications and Media Authority (ACMA)	AS/NZS (or equivalent) Report	Declaration of Comformity (DoC) for Regulatory Compliance Mark (RCM). Supported by Technical Construction File
	Safety (Electrical) Requirement	Electrical Regulatory Authorities Council (ERAC)	AS/NZS (or equivalent) Report	For most products DoC, but please check with us
	Radio Requirement	ACMA	AS/NZS (or equivalent) Report	Doc for RCM. Supported by Technical Construction File
	Telecoms Requirement	ACMA	AS/NZS (or equivalent) Report	Doc for RCM. Supported by Technical Construction File

Please be aware you will need a representative in Australia



## **New Zeland**



	Regulator	Mandatory Testing	Accepted Route
EMC Requirement	Australian Communications and Media Authority (ACMA)	AS/NZS (or equivalent) Report	Declaration of Comformity (DoC) for Regulatory Compliance Mark (RCM). Supported by Technical Construction File
Safety (Electrical) Requirement	Electrical Regulatory Authorities Council (ERAC)	AS/NZS (or equivalent) Report	For most products DOC (please check with our approvals experts)
Radio Requirement	ACMA	AS/NZS (or equivalent) Report	Doc for RCM. Supported by Technical Construction File
Telecoms Requirement	Telecoms NZ	For the majority of products PTC (or equivalent)	Telepermit Certification

Please be aware you will need a representative in New Zealand.



## **BRAZIL**



	Regulator	Mandatory Testing	Accepted Route
EMC Requirement	Agência Nacional de Telecomunicações (ANATEL)	In Country Testing	ANATEL Certification
Safety (Electrical) Requirement	The National Institute of Metrology, Standardization and Industrial Quality (INMETRO)	Product Dependent, CB Reports can be used	INMETRO Certification
Radio Requirement	ANATEL	In Country Testing	ANATEL Certification
Telecoms Requirement	ANATEL	In Country Testing	ANATEL Certification



## **CHILE**



	Regulator	Mandatory Testing	Accepted Route
Safety (Electrical) Requirement	Superintendencia de Electricidad y Combustibles (SEC)	Product Dependent	SEC Certification
Radio Requirement	Subsecretaria de Telecomunicaciones (SUBTEL)	FCC or EU Reports	SUBTEL Certification
Telecoms Requirement	SUBTEL	FCC or EU Reports	SUBTEL Certification



## **MEXICO**



		Regulator	Mandatory Testing	Accepted Route
€	Safety (Electrical) Requirement	Normalización y Certificación (NYCE)	In Country Testing	NOM Certification
	Radio Requirement	Instituto Federal de Telecomunicacione s (IFTEL)	In Country Testing	IFTEL Certification
	Telecoms Requirement	Instituto Federal de Telecomunicacione s (IFTEL)	In Country Testing	IFTEL Certification



### **SAUDIA ARABIA**



	Regulator	Mandatory Testing	Accepted Route
Safety (Electrical) Requirement	MB Saudi Standards, Metrology and Quality Organisation (SASO)	CB Scheme	
Radio Requirement	Communications and Information Technology Commission (CITC)	EU Test Reports	CITC Certification
Telecoms Requirement	CITC	EU Test Reports	CITC Certification



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