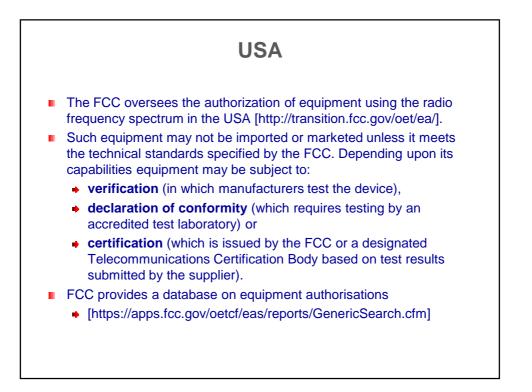




Telecommunications sector conformity assessment schemes

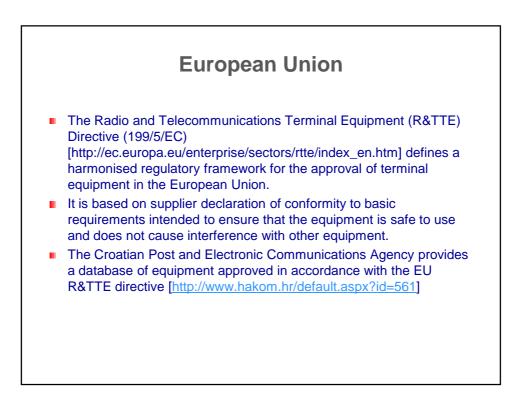
- Mandatory conformity assessment
- Voluntary certification schemes





Canada

- The Certification and Engineering Bureau of Industry Canada [<u>http://www.ic.gc.ca/eic/site/ceb-bhst.nsf/eng/Home]</u> provides a certification service for radio and terminal equipment in Canada.
- The Industry Canada Certification and Engineering Bureau maintain lists of terminal equipment<u>http://www.ic.gc.ca/eic/site/cebbhst.nsf/eng/h_tt00050.html</u> and radio equipment <u>http://www.ic.gc.ca/eic/site/ceb-bhst.nsf/eng/h_tt00020.html</u> that has been certified for use in Canada.

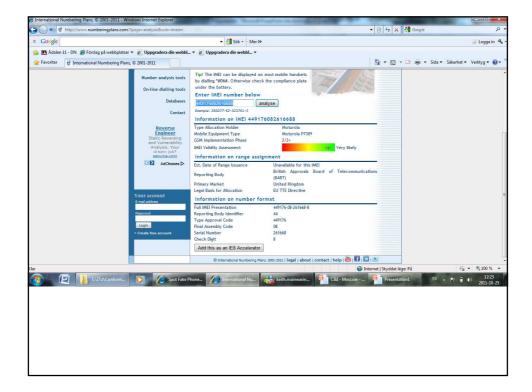


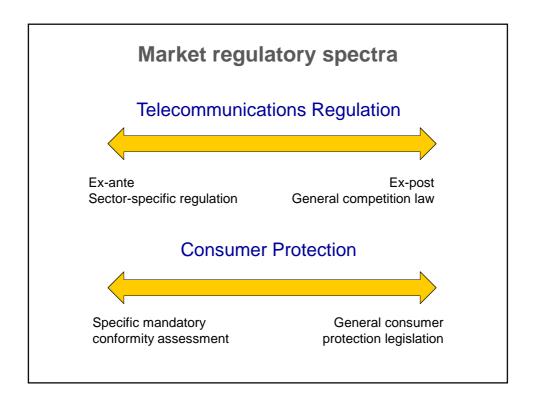
Limitations of mandatory conformity assessment

- No guarantee that the device will work properly or interoperate with other devices
- Does not help identify counterfeit equipment

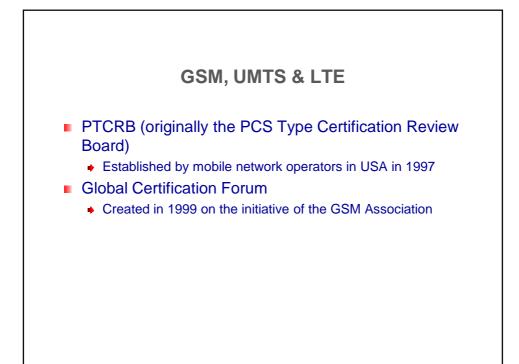


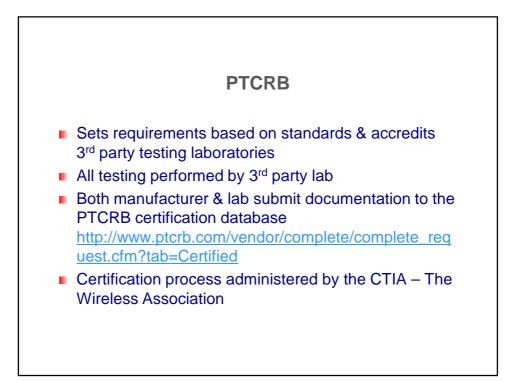




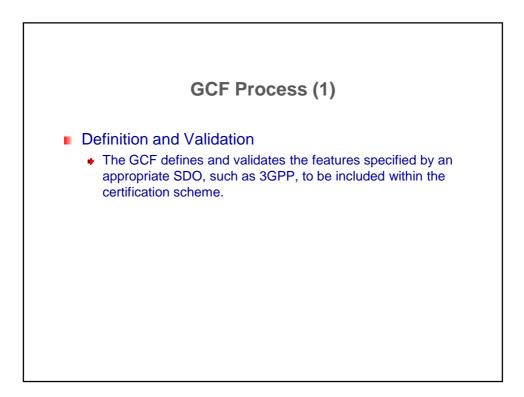


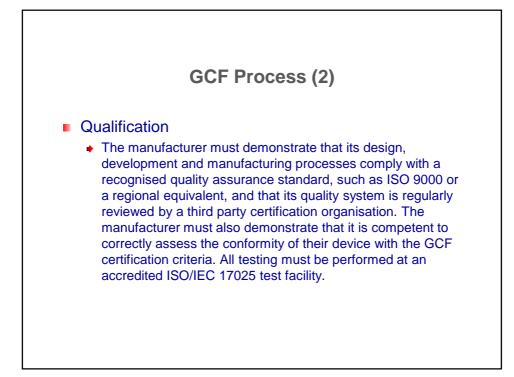


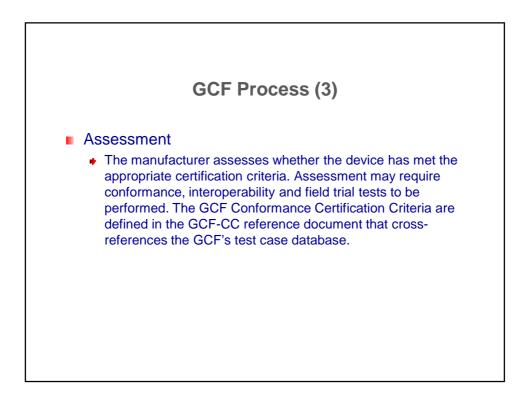


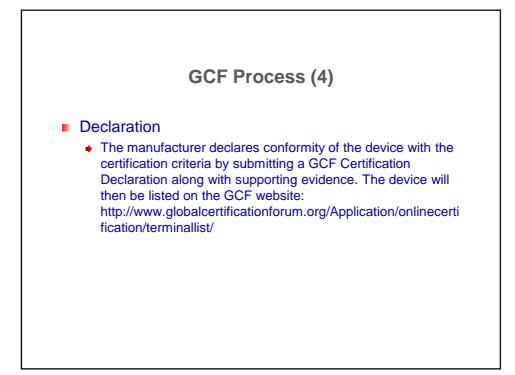






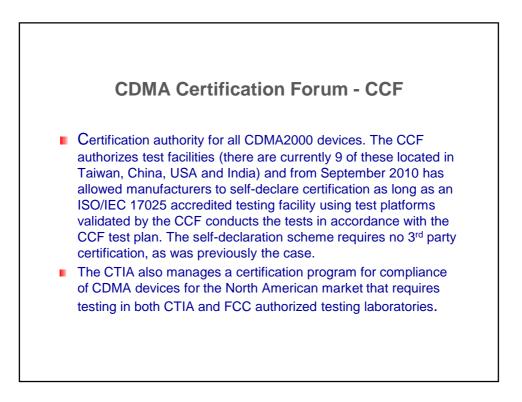






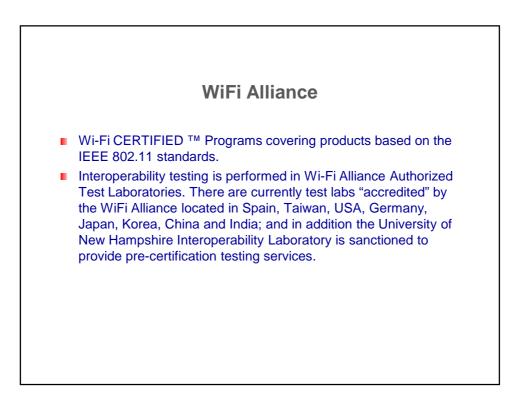
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GCF Ref	Manufacturer	Terminal Name	Date Of Cer
2789	LG Electronics Ltd	LG-T530	2011-05-20
2787	TCT Mobile Limited	ALCATEL one touch 665	2011-05-19
2788	Samsung Electronics Co Ltd	GT-P7500	2011-05-19
2784	TCT Mobile Limited	ALCATEL one touch 900	2011-05-18
2774	TCT Mobile Limited	ALCATEL one touch 803	2011-05-16
2775	Nokia Corporation	C7-00s	2011-05-16
2776	TCT Mobile Limited	ALCATEL one touch 813	2011-05-16
2777	LG Electronics Ltd	LG-A250	2011-05-16
2778	Samsung Electronics Co Ltd	SC-02C	2011-05-16
2779	ZTE Corporation	MF190B	2011-05-16
2781	ZTE Corporation	Atlanta	2011-05-1
2782	Samsung Electronics Co Ltd	GT-Y3400	2011-05-1
2773	Huawei Technologies Co., Ltd.	B260a-44	2011-05-1-
2768	TCT Mobile Limited	ALCATEL one touch 809	2011-05-1
2767	NEC Technologies	N-06C	2011-05-12
2765	Huawei Technologies Co., Ltd.	HUAWEI G6608	2011-05-1
2761	TCT Mobile Limited	one touch 819	2011-05-0
2762	Samsung Electronics Co Ltd	GT-S5780	2011-05-09
2763	Samsung Electronics Co Ltd	GT-C3322	2011-05-09
	Nokia Corporation	E6-00	2011-05-09
2764		ALCATEL one touch 990	2011-05-07
2764 2759	TCT Mobile Limited	ALCATEL ONE COUCH 550	2011 03 07

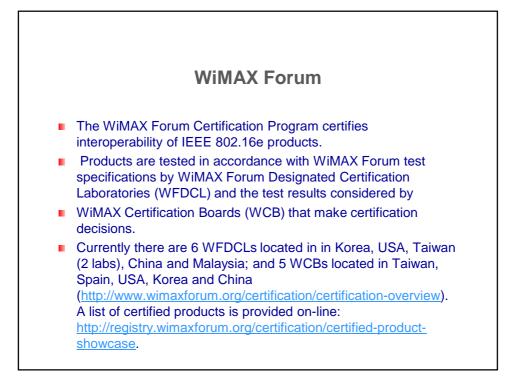


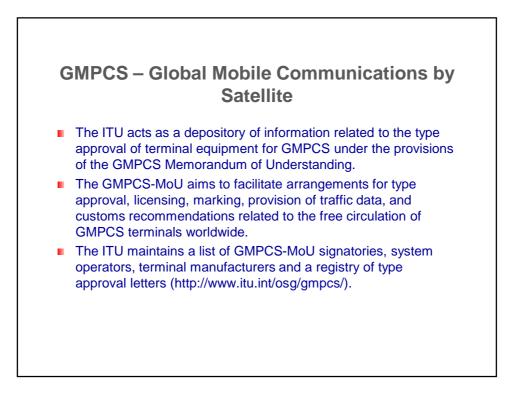


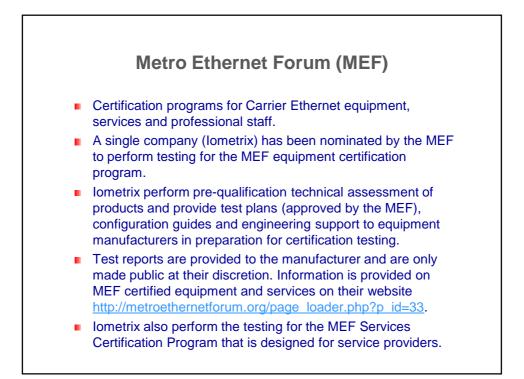


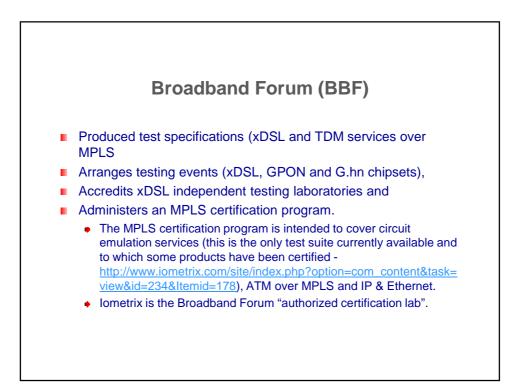
- The CTIA Battery Certification Program verifies conformance of products to the IEEE 1725 – 2006 and IEEE 1625 – 2008 standards for rechargeable batteries. This program requires manufacturing site authorization based on on-site audit and analysis performed by a CTIA Authorized Test Lab (CATL) as well as testing by a CATL.
- The Bluetooth Compatibility Certification Program involves testing by a CATL to the CTIA certification test plan (which involves testing the device against a pre-determined list of other devices) and certification by the CTIA based on the test report provided by the CATL.



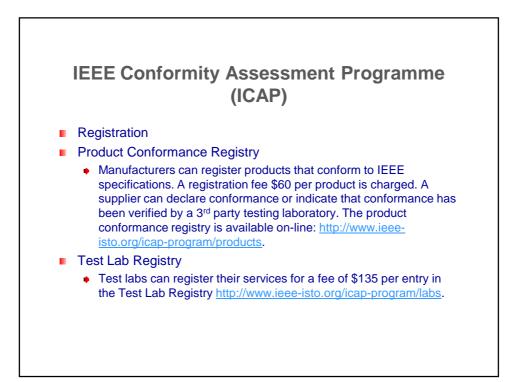


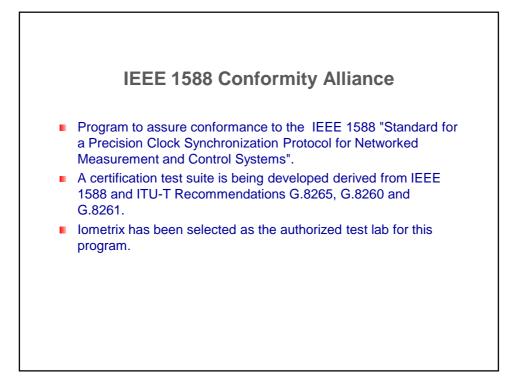


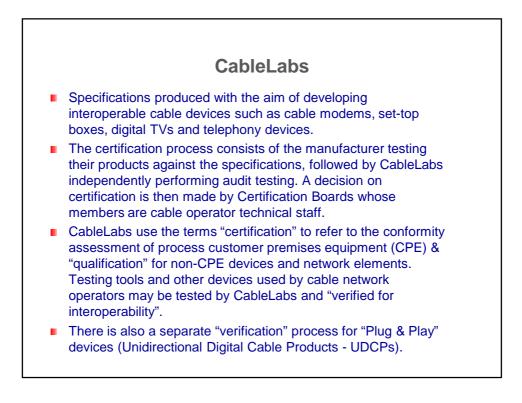




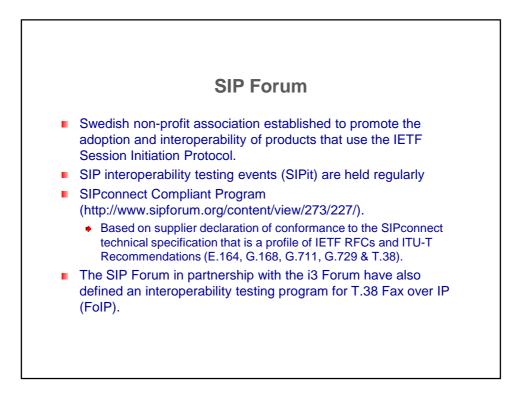


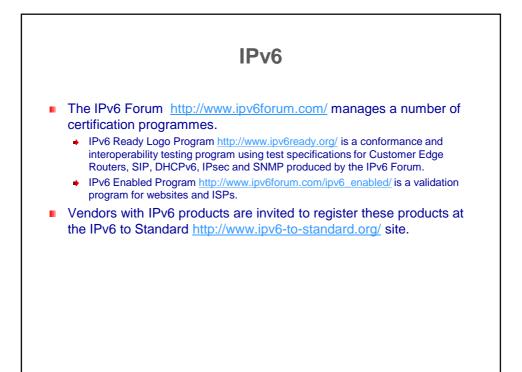








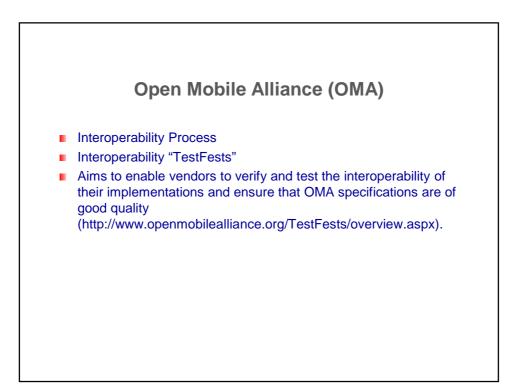






European Telecommunications Standards Institute (ETSI)

- Interoperability events (Plugtests) on a variety of technologies since 2006.
- The aim of these interop events is to:
 - Create an opportunity for manufacturers to test their prototypes against those of other companies;
 - Enhance the quality of specifications;
 - Speed up the standardization process;
 - Reduce time to market; and
 - Encourage deployment of new technologies.
- ETSI does not administer a certification programme.





- Interoperability forums (SuperOp!) & workshops
 - IMS
 - Telepresence
- Established the H.323 Forum
 - Which attempted to create an H.323 certification programme

Summary						
Scheme	Supplier Declaration	Accredited test laboratory	Certification body	Other considerations		
IEC CAB	No	Yes - ISO/IEC 17025	National	3rd party testing only		
GCF	Yes	ISO/IEC 17025	GCF			
PTCRB		3 rd party lab accredited by PTCRB	CTIA administered			
CDMA Certification Forum	Yes, if ISO/IEC 17025 test facilities used	CCF authorized	CTIA			
CTIA battery		CTIA authorized	CTIA			
CTIA Bluetooth		CTIA authorized	CTIA			
WiFi Alliance		WiFi Alliance authorized	WiFi Alliance	Supplier must be a member of the WiFi Alliance		
WiMAX Forum		WiMAX Forum designated	WiMAX Certification Boards			
MEF		Single MEF-nominated lab (Iometrix)	Iometrix	Lab performs pre- qualification testing		
BBF xDSL		BBF accredited				
BBF MPLS		Single BBF-authorized lab (Iometrix)	BBF			
HGF		3rd party HGF appointed	HGF	Supplier needs to be amember of the HGF		
IEEE Registration	Manufacturers self- declaration			Test lab self registration also.		
IEEE 1588		Single test lab (Iometrix)	?			
CableLabs		CableLabs	Certification Boards			
SIP Forum	Self-declaration only			No test suites published.		

Conclusions

Wide range of schemes in place from pure supplier declaration of conformance to a well-defined specification with no published test suites (SIP Forum) to the schemes for conformity assessment of mobile handsets and the IEC CAB schemes which come close to meeting the ISO CASCO guidelines.