

Guide to Router Certification in Indonesia

Certification in Indonesia

Certificate of approval is required for every telecommunication and ITE equipment entering Indonesian territory. The certificate of approval is issued by Directorate General of Resources and Equipment Standardization for Post and Informatics (SDPPI). Certifications are granted at the system (host) level. The certificate is valid for each type or model number of equipment while product or model series certificate or type approval is not acceptable.

In-Country Testing

In-Country testing is required prior to certificate issuance by SDPPI. RF / Telecom Test is mandatory while EMC and safety is voluntary. The test will require 2 (two) samples of equipment and it will be conducted by local laboratories which appointed by SDPPI.

Applicable Standards in Indonesia

Approval test will be based on national standard: KEPDIRJEN No. 111/DIRJEN/2008. The national standard is partly adopted from ITU-T G.703. The key parameters are as follow:

- GENERAL REQUIREMENTS

Ability	Shall be operated inside LAN and WAN
Physical Layer and Data Link Layer	LAN: using Ethernet (refer to IEEE 802.3) in physical layer and using LLC 802.2 in data link layer
	WAN: using RS.232, V.35, X.21, E1 (refer to G.703, RS 449, RS 530) in physical layer and using HDLC, PPP, X.25, Frame Relay (refer to ITU-T/ANSI Annex D), Euro ISDN and ATM in data link layer
Interface	E1 (refer to ITU-T G.703) 2 Mbps

- OTHER REQUIREMENTS

Router Management	Shall be managed through SNMP with the used of MIB2
	Telnet can be utilized as an alternative to manage router and the router itself can be managed locally or remotely
Interoperability	Shall have abilities to connect with other routers through standard protocol which tested using Ping Command, Telnet Session, Routing Protocol Setup and Maximum Transmission Unit

Routing Protocol	Shall provide either one of routing protocols as follow: Unicast Routing Protocol (static, IS-IS, OSPF, RIPv1, BGP or ICMP) and Multicast Routing Protocol (DVMRP, PIM,IGMP, SAP/SDP or MSDP)
Reconfiguring facilities	Shall have automatic recovery whenever system break-down occurred

Documentations Requirements

1. Completed Application Forms: Application Form (FR.PM.5), Inspection Form (FR.PM.4), Power of Attorney to *TEKNOKRAT* Indonesia
2. Technical Constructive File: General information, Installation guide, User manual, BOM, Hardware description, Block diagram, Assembly Top/Bottom, Conducted test report (RF / Telecom and EMC & Safety test)
3. Copy of Certificates of Compliance (from other country)

TEKNOKRAT's services have been specifically designed to support manufacturers, test laboratories and consultants seeking type approval in Indonesia for telecommunications equipment and other ITE. The world's leading telecommunications equipment vendors already recognize the value in our service and entrust their approvals in Indonesia to us. We would be delighted to have the opportunity to support your telecom approvals.

for further information please contact: customer@typeapproval.or.id