

Guide to Multiservice Switch 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. 110/DIRJEN/2008. The national standard is partly adopted from IEEE 802.3. The key parameters are as follow:

- GENERAL REQUIREMENTS

Ability	Shall be connected to data network which compatible with IEEE 802.2 in data link layer. It shall also be connected to several VLAN which compatible with IEEE 802.2.1Q Tagging
Interface: Core Switch and Access Switch	Both Core and Access Switch at least has 1 or several interfaces, as follows: <ul style="list-style-type: none"> - E1, E3 (ITU Rec. G.832 and G.804) - T1, T3 - STM-1, STM-4, STM-16 - X21, V35 - Ethernet
Support	Shall be able to support several services: Asynchronous Transfer Mode (ATM), Frame Relay, MPLS and SDH. Core Switch shall have redundancy configuration
Synchronization	Shall be able to be operated in plesiochronous (operated based on internal clock), while in network synchronization mode, Multiservice Switch shall be able to be operated in synchronous (operated based on such reference clock)

• OTHER REQUIREMENTS

Multiservice Switch Management	Multiservice Switch Core Network: <ul style="list-style-type: none"> - Shall be able to be monitored through SNMP, telnet or web based application - Shall be able to managed whether locally (through craft terminal) or remotely (through telnet, SNMP or web based application) - Shall be equipped with password security system - Shall be able to be provide verification system in each time of reconfiguration proceeded - Shall be able to secure configuration file although there is no power being supplied
	Manageable Switch: <ul style="list-style-type: none"> - Shall be able to be monitored through SNMP, telnet or web based application - Shall be able to managed whether locally (through craft terminal) or remotely (through telnet, SNMP or web based application) - Shall be equipped with password security system - Shall be able to be provide verification system in each time of reconfiguration proceeded - Shall be able to secure configuration file although there is no power being supplied
	Autonomous Switch: <ul style="list-style-type: none"> - Shall be equipped with internal management ability which compatible with international standard
Interoperability	Shall have abilities to connect with other switches through standard protocol which tested using Ping Command, Telnet Session
Operating System	Shall be equipped with upgradeable MSS operating system, start-up system, self test system, help system, debugging system, interface configuration system, recovery system, password encryption system, back up system and permanent file storage
Routing Protocol	Shall provide either routed protocol (built in algorithm) or routing protocols (IS-IS, OSPF, RIP, BGP)

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