

ONT Optical Network Terminal New Model Certification



Summary of Content

All new ONT models in India must comply with ITSAR security certification under the NCCS ComSec scheme, with mandatory certification effective from January 1, 2026.

Certification Overview

Optical Network Terminals (ONTs) are subscriber-end devices in Passive Optical Networks (PON) and require ITSAR security certification to ensure compliance with national telecom security standards . The Voluntary Security Certification (VSC) phase was available until December 31, 2025, allowing manufacturers to prepare devices ahead of mandatory enforcement . From January 1, 2026, all new ONT models must obtain mandatory certification before deployment with major operators such as BSNL, Bharti Airtel, Reliance Jio, and Vodafone Idea .

Key Requirements for New Models

- **Unique SoC + SDK Combination:** Mandatory security testing is required only for ONT models featuring a new System-on-Chip (SoC) and Software Development Kit (SDK) combination. Variants using the same SoC-SDK combination as an existing certified model are automatically covered .
- **Self-Declaration of Conformity (SDoC):** OEMs must submit an SDoC detailing all customizations, software hash values, and variant information. Updates to existing certificates for new variants with the same SoC-SDK combination can be approved without additional testing, provided the SDoC is updated .

Article Content

Security Certification of Optical Network Terminal (ONT) under

Category 2 – The models of Optical Network Terminal (ONT) which have undergone TEC certification for Essential

NCCS Mandating Security Certification for ONT and OLT Equipment

NCCS released the Notification on December 6, 2024, mandating that Optical Network Terminal (ONT) and Optical

Bengaluru – 5600

Subject: Security Certification of Optical Network Terminal (ONT) and Optical Line Terminal (OLT) under ComSec scheme – Reg.

Optical Network Terminal (ONT) ITSAR Testing | Deltaphi Labs –

The Department of Telecommunications has declared that ITSAR certification for ONT devices will be mandatory from

India NCCS Clarifies Security Certification Requirements for ONT

January 1, 2026: NCCS clarified that Optical Network Unit (ONU) devices are covered under the same instructions, circulars, OMs,

India NCCS To Require ONT and OLT Compliance Under ComSec

The National Center for Communication Security (NCCS) of India published a notification on December 6, 2024,

Security Certification of Optical Network Terminal (ONT) Under

As of August 1, 2024, applications for Voluntary Security Certification (VSC) of ONT devices can now be submitted. Key Points:

TEC certification Update: ONT & OLT Products Under Voluntary ...

The NCCS, Department of Telecommunications, announces that Optical Network Terminal (ONT) and Optical Line

Latest TEC Notification Update: VSC for ONT & OLT

The National Centre for Communication Security (NCCS), under the Ministry of Communications, Government of India,

Optical Network Terminal (ONT) ITSAR Testing

The Department of Telecommunications has declared that ITSAR certification for ONT

NOTIFICATION

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