

Recommendation

ITU-T L.360 (05/2025)

SERIES L: Environment and ICTs, climate change, e-waste, energy efficiency; construction, installation and protection of cables and other elements of outside plant

Maintenance and operation – Operation support and infrastructure management

Operations support system requirements for network infrastructure management using ID technology

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Environment and ICTs, climate change, e-waste, energy efficiency; construction, installation and protection of cables and other elements of outside plant

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Recommendation ITU-T L.360

Operations support system requirements for network infrastructure management using ID technology

Summary

Telecommunication networks require proper allocation of network infrastructures and planned periodic maintenance, in order for services to be delivered quickly and efficiently, to minimize out-of-service risks and guarantee service level agreement satisfaction. It is important to focus on the issue of optical fibre-based infrastructures and the huge amount of information transmitted. Network infrastructures that undergo allocation and maintenance operations can differ in terms of positions, dimensions, services, field work and scheduled times for periodic planned maintenance.

Identification (ID) technology can be applied to solutions that focus on the proper management of network infrastructures. The ID uniquely identifies an element of interest in terms of its allocation and maintenance.

This second edition of ITU-T L.360 adds a description about the functionality of an operations support system (OSS) for building the connection relationship based on ID tag information. Furthermore, a new appendix dealing with advanced technologies used for network infrastructure management is added.

History*

Edition	Recommendation	Approval	Study Group	Unique ID
1.0	ITU-T L.360/L.80	2008-05-29	6	11.1002/1000/9430
2.0	ITU-T L.360	2025-05-14	15	11.1002/1000/16340

Keywords

Architecture, functional requirement, ID technology, network infrastructure management, operations support system.

* To access the Recommendation, type the URL <https://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID.

FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

NOTE

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