

Intelligent Customization Process for ODN Products for Local Area Networks



Overview

Learn how Intelligent ODN combines electronic labels, smart OTDR, and a unified platform to cut MTTR by 40-60%, boost first-time fix, and scale FTTx/FTTA/MPO networks. What. Hans Neff, Senior Director of ZTE CTO Group, recently delivered a keynote speech entitled 'Embracing the AI Era to Accelerate the Development of All-Optical Networks' at the FTTH Conference 2025 in Amsterdam, sharing the company's solutions and experience in focusing on AI empowerment to achieve. PRESS RELEASE: ZTE Corporation announced that Hans Neff, Senior Director of ZTE CTO Group, delivered a keynote speech titled "Embracing the AI Era to Accelerate the Development of All-Optical Networks" at the FTTH Conference 2025 in Amsterdam. He shared ZTE's solutions and experience in focusing on. With Huawei's core concept for ODN construction centering on full and dense coverage coupled with short and easy access, Huawei's ODN 3.0 solution uses two transformative technologies to support five typical network scenarios. In the earliest FTTH solution, ODN 1. In the present document "shall", "shall not", "should", "should not", "may",

"need not", "will", "will not", "can" and "cannot" are to be interpreted as described. The fiber optic landscape is undergoing a quiet revolution—and it's happening in the Optical Distribution Network (ODN), the backbone of every FTTH deployment.

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After a mobile app automatically collects and uploads ODN and ONT device information, the background generates an E2E ODN topology using an intelligent algorithm.



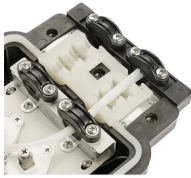
Full-lifecycle Light ODN solution has emerged to meet this need, leveraging AI and the fiber fingerprint technology, which transform the passive "dark" ODN pipeline into a "visualized" ...



ZTE offers over 1,000 types of ODN products, covering a full range of applications to meet diverse needs, including ODF/WDM/splitters for CO, OCC/JC/ODB for OSP, as well as optical panels and ...



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The present document describes the composition of the digitalized quick ODN and the general requirements on physical label, digitalized quick ODN devices, intelligent management terminal, ...



AI and digital intelligence can provide end-to-end support for ODN construction in multiple aspects. Hans described how ZTE leverages AI technology to build intelligent ODNs across the entire process, ...



Based on the industry consensus, three generations are defined for different evolution phases of the digital and intelligent ODN solution, as shown in the following figure.



While most attention goes to active components like OLTs and ONTs, the ODN represents up to 70% of total FTTH investment. Its evolution is reshaping how ISPs deploy, manage, ...



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