

# Time-Sensitive Networking (TSN)

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**Time-Sensitive Networking (TSN)** is a set of [Ethernet](#) sub-standards defined in the [IEEE 802.1 TSN](#) Task Group. TSN focuses on creating a convergence between [Information Technology \(IT\)](#) and industrial operational technology (OT) by extending and adapting existing Ethernet standards.

TSN technology aims to standardize features on [OSI-Layer 2](#) in order that different protocols can share the same infrastructure. The challenge lies in configuring critical and non-critical data traffic so that neither real-time characteristics nor [performance](#) is impaired.

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