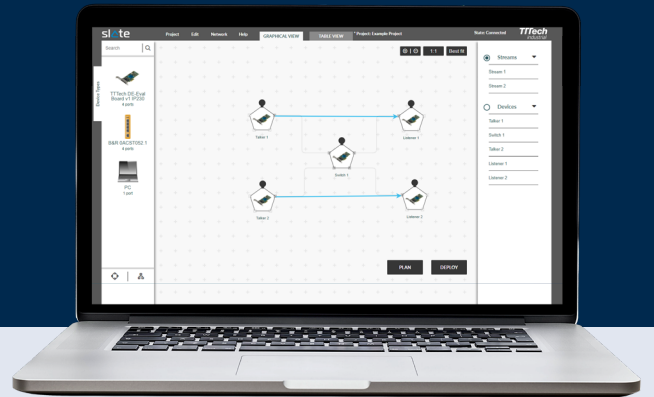


# Slate XNS

## TSN Network Planner with Browser-based Topology Modeling



- ✓ Intuitive graphical topology modeling
- ✓ Planning of new components and data streams
- ✓ Open, standard configuration for any TSN device
- ✓ One-click planning for complex networks

Slate XNS is a browser-based, user-friendly software that makes it easy to model topologies, add streams and deploy configurations for TSN networks. Offline network configuration is made possible by the intuitive GUI which provides a topology view or table-based editor for managing components and data streams. Network configurations are calculated with just one click via TTTech's built-in planning engine, and network components are configured using open, standard YANG models.

### Topology Modeling

#### Graphical

The graphical view is ideal for modeling small and medium sized network topologies. New components can be added by dragging and dropping into the topology. Data streams can also be represented as logical connections between components.

#### Table-Based

The table editor is designed for modeling large network topologies and mass editing. Components, data streams and other parameters can be inputted into tables and viewed in the graphical mode.

### Network Planner

#### One-Click Configuration

TTTech's high-performance planning engine is built-in to the Slate XNS software. After building the topology and defining the data streams, the network configuration can be created with just one click. Configurations can even be updated incrementally when new components or data streams are added.

<b>Operating Systems</b>	Windows 10 Linux, Ubuntu 18.04
<b>Requirements</b>	Tested browser (Google Chrome, Mozilla Firefox, Microsoft Edge), Microsoft Internet Explorer 11 is not supported Intel-based CPU (x86 CPU, 4 GB RAM, 2 GB disk space) Local administrator privileges for installation PDF viewer to access user manual
<b>Topology Builder</b>	Browser-based graphical user interface with central project storage and two operating modes: <b>Graphical builder</b> <ul style="list-style-type: none"> <li>- Toggle between physical and logical topology view</li> <li>- Drag and drop from the component list into the topology</li> <li>- Add new devices to the component list</li> <li>- Specify single data streams or multiple data streams as part of a group</li> <li>- Check consistency of user input (unconnected components, endpoints not sending/receiving)</li> <li>- Copy and paste components in the topology</li> <li>- Undo and redo, zoom and scroll</li> <li>- Instant ring or star topology generation</li> </ul> <b>Table-based builder</b> <ul style="list-style-type: none"> <li>- Edit and delete components in the component table</li> <li>- Copy and paste data streams in the data stream table</li> <li>- Specify relevant SFP timing parameters in physical link table</li> </ul>
<b>Supported Topologies</b>	Line, star, ring, tree, ladder, line of rings, ladder of rings
<b>Supported Device Types</b>	Switches, endpoints or switched endpoints that support the following derived YANG models
<b>Derived YANG Models</b>	IEEE 802.1Qbv Time Aware Shaping IEEE 802.1Qcp Bridges and Bridged Networks (VLAN support) IEEE 802.1CB Frame Replication and Elimination (Available 2021)
<b>NETCONF</b>	NETCONF 1.0/1.1 client
<b>Encoding</b>	XML, JSON
<b>Planning Features</b>	<b>Support for different user defined constraints</b> <ul style="list-style-type: none"> <li>- End-to-end latency</li> <li>- Transmit window constraint (for time aware streams)</li> <li>- Consideration of pre-configured switch settings (via device description)</li> <li>- Support for mixed line speed topologies</li> <li>- Seamless integration with IT traffic</li> <li>- Vendor independent input and configuration output</li> </ul>
<b>Delivery package</b>	GUI installer for Windows 10 and Linux Installation guide User manual

Material name	Material number	Material name	Material number
Slate XNS	12918	Slate XNS Unlimited	13193
Slate XNS Plus 30	13191	Slate XNS Maintenance	13194