# Spanning Tree Protocol Laborübung

## Befehlsübersicht Switch (englische Beschreibung)

Wenn Sie sich auf der `system view`-Ebene befinden, erhalten Sie mit dem folgenden Befehl eine Übersicht der möglichen STP Befehle.

[5500]stp ?

| **Command** | **Description** |
|---|---|
| `bpdu-protection` | Specify Bpdu Protection function |
| `disable` | Disable spanning tree protocol |
| `enable` | Enable spanning tree protocol |
| `mcheck` | Specify mcheck parameter |
| `mode` | Specify state machine mode parameter |
| `pathcost-standard` | Specify stp port path cost standard |
| `priority` | Specify bridge priority |
| `root` | Specify root switch |
| `timeout-factor` | Specify timeout factor of the spanning tree |
| `timer` | Specify timers of spanning tree protocol |

List of some command line levels.

| **Command View** | **Function** | **Prompt** | **Command to Enter** | **Command to leave** |
|---|---|---|---|---|
| User View | Show the basic information about operation and statistics | `<SW5500>` | This is the view you are in after connecting o the Switch | `quit` disconnects to the Switch |
| System View | Configure system parameters | `[SW5500]` | Enter `system-view` in User View | `quit`or `return` returns to User View |
| Ethernet Port View | Configure Ethernet port parameters | `[SW5500-Ethernet1/0/1]` | 100M Ethernet Port View: Enter `interface ethernet 1/0/1` in System View | `quit` returns to System View `return` returns to User View |
| VLAN View | Configure VLAN parameters | `[SW5500-Vlan1]` | Enter vlan 1 in System View | `quit` returns to System View `return` returns to User View |
| VLAN Interface View | Configure IP interface parameters for a VLAN or a VLAN aggregation | `[SW5500-Vlan-interface1]` | Enter `interface vlan-interface 1` in System View | `quit` returns to System View `return` returns to User View |

## Set Priority of a Specified Bridge (s. Auszug SuperStack 5500 Handbuch, S. 242)

Whether a bridge can be selected as the “root” of the spanning tree depends on its priority. By assigning a lower priority, a bridge can be artificially specified as the root of the spanning tree. You can use the following command to configure the priority of a specified bridge. Perform the following configurations in System View.

## Operation Command

- Set priority of a specified bridge `stp priority bridge_priority`
- Restore the default priority of specified bridge `undo stp priority`

Note that if the priorities of all the bridges in the Switching network are the same, the bridge with the smallest MAC address will be selected as the “root”. When RSTP is enabled, an assignment of a priority to the bridge will lead to recalculation of the spanning tree. By default, the priority of the bridge is **32768**.