

DTP (Dynamic Trunking Protocol) - Cheat Sheet - Part-1



What is DTP? 🏋

"DTP is a Cisco Proprietary Layer-2 Protocol for Trunk Negotiations"

DTP is enabled by default on Trunk Ports in Cisco equipment & both ends of a Trunk Links should support DTP for it to work.

Key Attributes

Protocol Type: Layer2 Protocol Standard: **Cisco Proprietary**

Purpose: Trunk Negotiation at two ends of a Layer2 link

ODTP Port Modes					
Access (DTP OFF)	Permanent non-trunking mode				
Trunk (DTP ON)	Permanent trunking mode				
Dynamic Auto	Wait for the other end to ask to become Trunk				
Dynamic Desirable	Force the other end to become Trunk				
Nonegotiate (Access)	Disable DTP & become Access www.networkwalks.com				
Nonegotiate (Trunk)	Disable DTP & become Trunk				

DTP Admin Mode Combinations & resultant Operational Mode							
Admin Mode	Dynamic Auto	Dynamic Desirable	Trunk (ON)	Access (OFF)	Nonegotiate (Access)	Nonegotiate (Trunk)	
Dynamic Auto	Static access	Trunk	Trunk	Static access	Static access	Unexpected Results	
Dynamic Desirable	Trunk	Trunk	Trunk	Static access	Static access	Unexpected Results	
Trunk (ON)	Trunk	Trunk	Trunk	Unexpected Results	Unexpected Results	Trunk	
Access (OFF)	Static access	Static access	Unexpected Results	Static access	Static access	Unexpected Results	
Nonegotiate (Access)	Static access	Static access	Unexpected Results	Static access	Static access	Unexpected Results	
Nonegotiate (Trunk)	Unexpected Results	Unexpected Results	Trunk	Unexpected Results	Unexpected Results	Trunk	

*Admin Mode = Innui Operational Mode = Output

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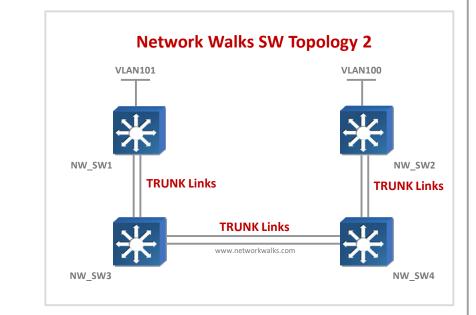
DTP Configuration Commands (Cisco)

nw SW(config-if)switchport mode access nw_SW(config-if) switchport mode trunk nw SW(config-if)switchport mode dynamic desirable nw SW(config-if)switchport mode dynamic auto nw SW(config-if)switchport nonegotiate

DTP show Commands (Cisco)

nw_SW# show interfaces f0/1 switchport nw SW# show interface trunk #show interface status | i trunk

*By default, Ethernet interfaces on most Cisco switches are set to desirable mode











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