

Configurazione delle impostazioni dell'interfaccia STP su SG350XG e SG550XG

Obiettivo

Il protocollo STP (Spanning Tree Protocol) è un protocollo di rete che impedisce il verificarsi di loop nella topologia. Questi loop fanno sì che gli switch inoltrino il traffico un numero infinito di volte. In questo modo la rete si allaga e utilizza le proprie risorse, riducendo l'efficienza della rete stessa.

Le impostazioni dell'interfaccia STP vengono usate per aumentare l'efficienza del protocollo STP per singola porta. Utilizzando la funzione edge port, il collegamento rapido aumenta la velocità della convergenza STP impostando una porta su uno stato di inoltro quando un dispositivo è connesso. La protezione Root Guard e Bridge Protocol Data Unit (BPDU) Guard sono utilizzati per controllare la topologia STP. Questo controllo aggiuntivo nella topologia impedisce il verificarsi di loop di bridge.

Lo scopo di questo documento è quello di mostrare come configurare le impostazioni dell'interfaccia STP su SG350XG e SG550XG.

Nota: Le operazioni descritte in questo documento vengono eseguite in modalità di visualizzazione avanzata. Per passare alla modalità di visualizzazione avanzata, andare nell'angolo superiore destro e selezionare **Avanzate** nell'elenco a discesa *Modalità di visualizzazione*.

Dispositivi interessati

- SG350XG
- SG550XG

Versione del software

- SG350XG - v2.0.0.73
- SG550XG - v2.0.0.73

Configurazione delle impostazioni dell'interfaccia STP

Passaggio 1. Accedere all'utility di configurazione Web e scegliere **Spanning Tree > Impostazioni interfaccia STP**. Viene visualizzata la pagina *Impostazioni interfaccia STP*:

STP Interface Settings

STP Interface Setting Table Showing 1-48 of 48 All per page

Filter: Interface Type equals to Port of Unit 1

Entry No.	Interface	STP	Edge Port	Root Guard	BPDU Guard	BPDU Handling	Port Role	Path Cost	Priority	Port State	Designated Bridge ID	Designated Port ID	Designated Cost	Forward Transitions	LAG
1	XG1	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
2	XG2	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
3	XG3	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
4	XG4	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
5	XG5	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
6	XG6	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
7	XG7	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
8	XG8	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
9	XG9	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
10	XG10	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
11	XG11	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
12	XG12	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
13	XG13	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
14	XG14	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
15	XG15	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
16	XG16	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
17	XG17	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
18	XG18	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
19	XG19	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
20	XG20	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
21	XG21	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
22	XG22	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
23	XG23	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
24	XG24	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
25	XG25	Enabled	Disabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	

Passaggio 2. Nel *filtro*: *Tipo interfaccia è uguale a* elenco a discesa, selezionare la porta dell'unità o il LAG desiderato. Quindi fare clic su **Vai**.

STP Interface Settings

STP Interface Setting Table Showing 1-48 of 48 All per page

Filter: Interface Type equals to **Port of Unit 1**

Entry No.	Interface	LAG	Root Guard	BPDU Guard	BPDU Handling	Port Role	Path Cost	Priority	Port State	Designated Bridge ID	Designated Port ID	Designated Cost	Forward Transitions	LAG
1	XG1	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
2	XG2	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
3	XG3	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
4	XG4	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
5	XG5	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
6	XG6	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
7	XG7	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
8	XG8	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
9	XG9	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
10	XG10	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
11	XG11	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
12	XG12	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
13	XG13	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
14	XG14	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
15	XG15	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
16	XG16	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
17	XG17	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
18	XG18	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
19	XG19	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
20	XG20	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
21	XG21	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
22	XG22	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
23	XG23	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
24	XG24	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	
25	XG25	Enabled	Disabled	Disabled	STP	Disabled	2000000	128	Disabled	N/A	N/A	N/A	N/A	

Nota: Se lo stack contiene più unità, saranno disponibili più opzioni, ad esempio **Porta dell'unità 2**.

Passaggio 3. La tabella di impostazione dell'interfaccia STP visualizza le informazioni di tutte le interfacce attualmente configurate sullo switch. Selezionare un pulsante di opzione e fare clic su **Modifica...** per modificarne le impostazioni nella finestra *Modifica impostazione interfaccia STP* visualizzata.

STP Interface Settings

STP Interface Setting Table

Filter: *Interface Type* equals to

	Entry No.	Interface	STP	Edge Port	Root Guard	BPDU Guard	BPDU Handling	Port Role	Path
<input checked="" type="radio"/>	1	XG1	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	2	XG2	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	3	XG3	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	4	XG4	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	5	XG5	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	6	XG6	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	7	XG7	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	8	XG8	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	9	XG9	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	10	XG10	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	11	XG11	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	12	XG12	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	13	XG13	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	14	XG14	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	15	XG15	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	16	XG16	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	17	XG17	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	18	XG18	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	19	XG19	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	20	XG20	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	21	XG21	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	22	XG22	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	23	XG23	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	24	XG24	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	25	XG25	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	26	XG26	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	27	XG27	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	28	XG28	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input checked="" type="radio"/>	29	XG29	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	30	XG30	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	31	XG31	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	32	XG32	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	33	XG33	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	34	XG34	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	35	XG35	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	36	XG36	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	37	XG37	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	38	XG38	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	39	XG39	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	40	XG40	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	41	XG41	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	42	XG42	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	43	XG43	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	44	XG44	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	45	XG45	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	46	XG46	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	47	XG47	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	48	XG48	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200

Copy Settings...

Edit...

[Passaggio 4](#). Nel campo *Interfaccia*, selezionare un pulsante di opzione. È possibile scegliere *Unità* e *Porta* o *LAG*. Se si sceglie *LAG*, andare al [passaggio 7](#).

The screenshot shows a configuration window with the following settings:

- Interface:** Unit LAG. The 'Unit' and 'Port' dropdowns are highlighted with a red box.
- STP:** Enable
- Edge Port:** Enable, Auto, Disable
- Root Guard:** Enable
- BPDU Guard:** Enable
- BPDU Handling:** Use Global Settings, Filtering, Flooding
- Path Cost:** Use Default, User Defined (2000000) (Range: 1 - 200000000)
- Priority:** 128

Port State: Disabled

Designated Bridge ID: N/A

Designated Port ID: N/A

Designated Cost: N/A

Forward Transitions: N/A

Speed: 10G

LAG: N/A

Buttons: Apply, Close

Passaggio 5. Nell'elenco a discesa *Unit* (Unità), selezionare l'unità da configurare.

Interface:	<input checked="" type="radio"/> Unit 1 Port XG1 <input type="radio"/> LAG 1
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input type="checkbox"/> Enable
BPDU Guard:	<input type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

Passaggio 6. Nell'elenco a discesa *Porta*, selezionare la porta da configurare, quindi andare al [passaggio 8](#).

Interface:	<input checked="" type="radio"/> Unit <input type="radio"/> LAG	Unit <input type="text" value="1"/> Port <input type="text" value="XG1"/>	LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/> Enable		
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable		
Root Guard:	<input type="checkbox"/> Enable		
BPDU Guard:	<input type="checkbox"/> Enable		
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding		
Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined	<input type="text" value="200"/>	(Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>		
<hr/>			
Port State:	Disabled		
Designated Bridge ID:	N/A		
Designated Port ID:	N/A		
Designated Cost:	N/A		
Forward Transitions:	N/A		
<hr/>			
Speed:	10G		
LAG:	N/A		

[Passaggio 7](#). Se nel [passaggio 4](#) è stato scelto LAG, selezionare la porta LAG desiderata da configurare.

Interface:	<input type="radio"/> Unit <input type="text" value="1"/> Port <input type="text" value="XG1"/>	<input checked="" type="radio"/> LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/> Enable	
Edge Port:	<input type="radio"/> Enable	
	<input checked="" type="radio"/> Auto	
	<input type="radio"/> Disable	
Root Guard:	<input type="checkbox"/> Enable	
BPDU Guard:	<input type="checkbox"/> Enable	
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings	
	<input type="radio"/> Filtering	
	<input type="radio"/> Flooding	
⚙️ Path Cost:	<input checked="" type="radio"/> Use Default	
	<input type="radio"/> User Defined <input type="text" value="20000"/>	(Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>	
<hr/>		
Port State:	Disabled	
Designated Bridge ID:	N/A	
Designated Port ID:	N/A	
Designated Cost:	N/A	
Forward Transitions:	N/A	

[Passaggio 8](#). Nel campo *STP*, selezionare la casella **Abilita** se si desidera abilitare STP sulla porta. Questa opzione è selezionata per default.

Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> Port <input type="text" value="XG1"/> <input type="radio"/> LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input type="checkbox"/> Enable
BPDU Guard:	<input type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

Passaggio 9. Nel campo *Porta perimetrale*, è possibile scegliere **Abilita**, **Automatico** o **Disabilita**. Se la modalità collegamento rapido è attivata su una porta, questa viene automaticamente impostata sullo stato Inoltro quando il collegamento della porta è attivo. Fast Link è anche noto come port-fast. STP funziona "ascoltando" per circa 30-45 secondi. Se il collegamento rapido è abilitato, l'ascolto avviene solo per circa 5 secondi prima della transizione allo stato di inoltro.

Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> Port <input type="text" value="XG1"/> <input type="radio"/> LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input type="checkbox"/> Enable
BPDU Guard:	<input type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

Le opzioni sono definite come:

- Abilita: abilita il collegamento rapido immediatamente.
- Auto - Attiva il collegamento rapido pochi secondi dopo l'attivazione dell'interfaccia. Ciò consente a STP di risolvere i loop prima di abilitare il collegamento rapido.
- Disabilita: disabilita il collegamento rapido.

Passaggio 10. L'opzione Root Guard consente di applicare il posizionamento del bridge radice nella rete. Selezionare la casella **Abilita** se si desidera abilitare Root Guard.

Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> <input type="radio"/> Port <input type="text" value="XG1"/> <input type="radio"/> LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input checked="" type="checkbox"/> Enable
BPDU Guard:	<input type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
✳ Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

Passaggio 11. Le BPDU (Bridge Protocol Data Unit) vengono scambiate sui bridge per rilevare i loop in una topologia di rete. BPDU Guard consente di applicare i bordi del dominio STP e di mantenere prevedibile la topologia attiva. I dispositivi dietro le porte con BPDU Guard abilitato non possono influenzare la topologia STP. Alla ricezione di BPDU, l'operazione BPDU Guard disabilita la porta su cui è configurata la BPDU. In questo caso, viene ricevuto un messaggio BPDU e viene generata una trap SNMP appropriata. Selezionare la casella **Enable** (Abilita) per abilitare BPDU Guard.

Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> Port <input type="text" value="XG1"/> <input type="radio"/> LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input checked="" type="checkbox"/> Enable
BPDU Guard:	<input checked="" type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
✱ Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

Passaggio 12. Nel campo *BPDU Handling*, selezionare la modalità di gestione dei pacchetti BPDU quando il protocollo STP è disabilitato sulla porta o sul dispositivo. Le BPDU vengono utilizzate per trasmettere le informazioni dello Spanning Tree.

Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> Port <input type="text" value="XG1"/> <input type="radio"/> LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input checked="" type="checkbox"/> Enable
BPDU Guard:	<input checked="" type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
✱ Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

Le opzioni disponibili sono:

- Usa impostazioni globali - Selezionare questa opzione per utilizzare le impostazioni definite nella
- [Stato STP e impostazioni globali nella](#) pagina [SG350XG e SG550XG](#).
- Filtraggio: filtra i pacchetti BPDU quando lo Spanning Tree è disabilitato su un'interfaccia.
- Flooding: propaga i pacchetti BPDU quando lo Spanning Tree è disabilitato su un'interfaccia.

Passaggio 13. Nel campo *Costo percorso*, selezionare **Usa predefinito** che utilizza il costo predefinito generato dal sistema oppure **Definito dall'utente** che imposta il contributo della porta al costo del percorso radice.

Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> Port <input type="text" value="XG1"/> <input type="radio"/> LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input checked="" type="checkbox"/> Enable
BPDU Guard:	<input checked="" type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
✱ Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

Passaggio 14. Nel campo *Priorità* impostare il valore di priorità della porta. Il valore della priorità influenza la scelta della porta quando un bridge ha due porte connesse in un loop. Il livello di priorità è un valore compreso tra 0 e 240, impostato con incrementi di 16. Il livello di priorità più basso è 0, quello più alto è 240.

Interface: Unit Port LAG

STP: Enable

Edge Port: Enable
 Auto
 Disable

Root Guard: Enable

BPDU Guard: Enable

BPDU Handling: Use Global Settings
 Filtering
 Flooding

✱ Path Cost: Use Default
 User Defined (Range: 1 - 200000000)

Priority:

Port State:

Designated Bridge ID:

Designated Port ID:

Designated Cost:

Forward Transitions:

Speed:

LAG:

Lo *stato della porta* visualizza lo stato STP corrente di una porta.

Interface:	<input checked="" type="radio"/> Unit <input type="radio"/> LAG	Unit <input type="text" value="1"/> Port <input type="text" value="XG1"/> LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/>	Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable	
Root Guard:	<input checked="" type="checkbox"/>	Enable
BPDU Guard:	<input checked="" type="checkbox"/>	Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding	
✱ Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined	<input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>	
<hr/>		
Port State:	<input checked="" type="radio"/> Disabled	
Designated Bridge ID:	N/A	
Designated Port ID:	N/A	
Designated Cost:	N/A	
Forward Transitions:	N/A	
<hr/>		
Speed:	10G	
LAG:	N/A	


Gli stati sono definiti come:

- Disabled - STP è attualmente disabilitato sulla porta. La porta inoltra il traffico durante l'apprendimento degli indirizzi MAC.
- Blocco: la porta è attualmente bloccata e non può inoltrare il traffico (ad eccezione dei dati BPDU) né imparare gli indirizzi MAC.
- In ascolto - La porta è in modalità di ascolto. La porta non può inoltrare il traffico e conoscere gli indirizzi MAC.
- Apprendimento: la porta è in modalità di apprendimento. La porta non può inoltrare il traffico, ma può acquisire nuovi indirizzi MAC.
- Inoltro: la porta è in modalità di inoltro. La porta può inoltrare il traffico e apprendere nuovi indirizzi MAC.

L'*ID bridge designato* visualizza la priorità del bridge e l'indirizzo MAC del bridge designato.

Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> <input type="text" value="▼"/> Port <input type="text" value="XG1"/> <input type="text" value="▼"/> <input type="radio"/> LAG <input type="text" value="1"/> <input type="text" value="▼"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input checked="" type="checkbox"/> Enable
BPDU Guard:	<input checked="" type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
✱ Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/> <input type="text" value="▼"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

L'*ID porta designata* visualizza la priorità e l'interfaccia della porta selezionata.

Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> <input type="text" value="▼"/> Port <input type="text" value="XG1"/> <input type="text" value="▼"/> <input type="radio"/> LAG <input type="text" value="1"/> <input type="text" value="▼"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input checked="" type="checkbox"/> Enable
BPDU Guard:	<input checked="" type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
 Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/> <input type="text" value="▼"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

Nel campo *Costo designato* viene visualizzato il costo della porta che partecipa alla topologia STP. È meno probabile che le porte con un costo inferiore vengano bloccate se STP rileva i loop.

Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> <input type="text" value="Port XG1"/> <input type="radio"/> LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input checked="" type="checkbox"/> Enable
BPDU Guard:	<input checked="" type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
✱ Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

Nel campo *Transizioni in avanti* viene visualizzato il numero di volte in cui la porta è passata dallo stato di blocco allo stato di inoltro.


Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> <input type="text" value="▼"/> Port <input type="text" value="XG1"/> <input type="text" value="▼"/> <input type="radio"/> LAG <input type="text" value="1"/> <input type="text" value="▼"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input checked="" type="checkbox"/> Enable
BPDU Guard:	<input checked="" type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
⚙️ Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/> <input type="text" value="▼"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

La *velocità* indica la velocità della porta.

Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> Port <input type="text" value="XG1"/> <input type="radio"/> LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input checked="" type="checkbox"/> Enable
BPDU Guard:	<input checked="" type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
⚙️ Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

Nota: Questa opzione non è disponibile se si è scelto *LAG* al [punto 4](#).

Il *LAG* visualizza il *LAG* a cui appartiene la porta. Se una porta è membro di un *LAG*, le impostazioni del *LAG* hanno la precedenza sulle impostazioni della porta.

Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> <input type="text" value="Port"/> <input type="text" value="XG1"/> <input type="radio"/> LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input checked="" type="checkbox"/> Enable
BPDU Guard:	<input checked="" type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
 Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A

Nota: Questa opzione non è disponibile se avete scelto LAG al [punto 4](#).

Passaggio 15. Fare clic su **Applica**. Le impostazioni dell'interfaccia vengono scritte nel file di configurazione corrente.

Interface:	<input checked="" type="radio"/> Unit <input type="text" value="1"/> Port <input type="text" value="XG1"/> <input type="radio"/> LAG <input type="text" value="1"/>
STP:	<input checked="" type="checkbox"/> Enable
Edge Port:	<input type="radio"/> Enable <input checked="" type="radio"/> Auto <input type="radio"/> Disable
Root Guard:	<input checked="" type="checkbox"/> Enable
BPDU Guard:	<input checked="" type="checkbox"/> Enable
BPDU Handling:	<input checked="" type="radio"/> Use Global Settings <input type="radio"/> Filtering <input type="radio"/> Flooding
✱ Path Cost:	<input checked="" type="radio"/> Use Default <input type="radio"/> User Defined <input type="text" value="2000000"/> (Range: 1 - 200000000)
Priority:	<input type="text" value="128"/>
<hr/>	
Port State:	Disabled
Designated Bridge ID:	N/A
Designated Port ID:	N/A
Designated Cost:	N/A
Forward Transitions:	N/A
<hr/>	
Speed:	10G
LAG:	N/A
<hr/>	
<input checked="" type="button" value="Apply"/>	<input type="button" value="Close"/>

Passaggio 16. Per copiare rapidamente le impostazioni di una porta su un'altra porta o su un gruppo di porte, selezionare il relativo pulsante di opzione in *Impostazioni interfaccia STP* e fare clic sul pulsante **Copia impostazioni...**

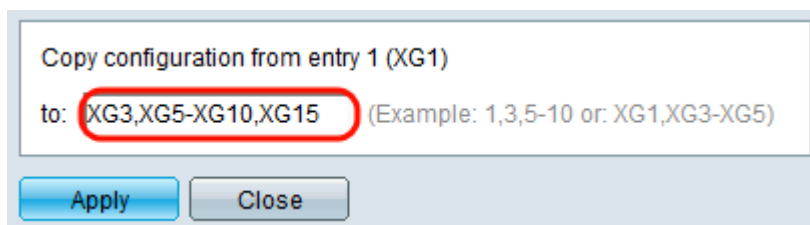
STP Interface Settings

STP Interface Setting Table

Filter: Interface Type equals to

	Entry No.	Interface	STP	Edge Port	Root Guard	BPDU Guard	BPDU Handling	Port Role	Path
<input checked="" type="radio"/>	1	XG1	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	2	XG2	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	3	XG3	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	4	XG4	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	5	XG5	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	6	XG6	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	7	XG7	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	8	XG8	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	9	XG9	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	10	XG10	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	11	XG11	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	12	XG12	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	13	XG13	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	14	XG14	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	15	XG15	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	16	XG16	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	17	XG17	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	18	XG18	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	19	XG19	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	20	XG20	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	21	XG21	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	22	XG22	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	23	XG23	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	24	XG24	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	25	XG25	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	26	XG26	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	27	XG27	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	28	XG28	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input checked="" type="radio"/>	29	XG29	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	30	XG30	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	31	XG31	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	32	XG32	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	33	XG33	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	34	XG34	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	35	XG35	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	36	XG36	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	37	XG37	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	38	XG38	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	39	XG39	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	40	XG40	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	41	XG41	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	42	XG42	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	43	XG43	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	44	XG44	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	45	XG45	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	46	XG46	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	47	XG47	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200
<input type="radio"/>	48	XG48	Enabled	Disabled	Disabled	Disabled	STP	Disabled	200

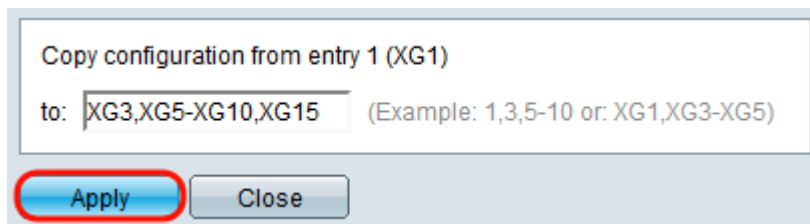
Passaggio 17. Nella finestra *Copia impostazioni*, immettere le porte in cui si desidera eseguire la copia nel campo di testo. È possibile specificare più porte, separate da virgole, o un intervallo di porte.



Copy configuration from entry 1 (XG1)

to: (Example: 1,3,5-10 or: XG1,XG3-XG5)

Passaggio 18. Fare clic su **Applica**. Le impostazioni vengono copiate.



Copy configuration from entry 1 (XG1)

to: (Example: 1,3,5-10 or: XG1,XG3-XG5)