

Service Node Configuration Mode Commands

To configure a WAAS Node (WN) that is part of an AppNav Cluster, use the **service-insertion service-node** global configuration command. To unconfigure settings, use the **no** form of this command.

```
service-insertion service-node { authentication sha1 key authkey | description description |
enable | shutdown max-wait seconds }
```

```
no service-insertion service-node { authentication sha1 key authkey | description description |
enable | shutdown max-wait seconds }
```

Syntax Description

authentication sha1 key <i>authkey</i>	(Optional) Enables authentication between the WN and other devices in the AppNav Cluster and specifies an authentication key of up to 64 alphanumeric characters. This key must match the key configured in the service context.
description <i>description</i>	(Optional) Specifies a description of the node with up to 200 alphanumeric and space characters.
enable	(Optional) Enables the participation of the node in the AppNav Cluster.
shutdown max-wait <i>seconds</i>	(Optional) Specifies the number of seconds that the node should wait for all connections to terminate when shutting down. Valid values range from 0-3600 seconds. The default is 0 seconds.

Defaults

There is no authentication key and no description configured. The shutdown waiting time is 0 seconds. The node is disabled.

Command Modes

global configuration

Device Modes

application-accelerator
appnav-controller

Usage Guidelines

Use the **service-insertion service-node** command to configure a WN that is part of an AppNav Cluster. When used without options, this command initiates the service node configuration mode, which is indicated by a different prompt (config-sn). To return to global configuration mode, enter the **exit** command.

Each WN (and ANC acting as a WN) in the AppNav Cluster must be configured with WN settings by using the **service-insertion service-node** command. To begin using the node in the cluster, you must use the **enable** option.

Examples

The following example shows how to configure and enable a WN:

```
WAE(config)# service-insertion service-node
WAE(config-sn)# description London branch node 1
WAE(config-sn)# authentication sha1 key myauthkey
WAE(config-sn)# shutdown max-wait 120
WAE(config-sn)# enable
```

Related Commands

- [\(config-sn\) authentication](#)
- [\(config-sn\) description](#)
- [\(config-sn\) enable](#)
- [\(config-sn\) shutdown](#)
- [\(config\) service-insertion](#)
- [show service-insertion](#)

(config-sn) authentication

To configure the WN authentication key, use the **authentication** service node configuration command. To unconfigure the authentication key, use the **no** form of this command.

authentication sha1 key *authkey*

no authentication sha1 key *authkey*

Syntax Description	sha1 key <i>authkey</i>	Enables authentication between the WN and other devices in the AppNav Cluster and specifies an authentication key of up to 64 alphanumeric characters.
Defaults	No key is defined and authentication is not enabled.	
Command Modes	Service node configuration	
Device Modes	application-accelerator appnav-controller	
Usage Guidelines	The specified key must match the key configured in the service context.	
Examples	The following example shows how to configure an authentication key: <pre>WAE(config)# service-insertion service-node WAE(config-sn)# authentication sha1 key myauthkey</pre>	
Related Commands	<p>(config-sn) description</p> <p>(config-sn) enable</p> <p>(config-sn) shutdown</p> <p>(config) service-insertion</p> <p>show service-insertion</p>	

(config-sn) description

To configure the WN description, use the **description** service node configuration command. To unconfigure the description, use the **no** form of this command.

description *description*

no description *description*

Syntax Description	<i>description</i>	Specifies a description of the node with up to 200 alphanumeric and space characters.
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Defaults	No default behavior or values.	
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Command Modes	Service node configuration	
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Device Modes	application-accelerator appnav-controller	
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Examples	The following example shows how to configure a description:	
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```
WAE(config)# service-insertion service-node
WAE(config-sn)# description London branch node 1
```

Related Commands	(config-sn) authentication (config-sn) enable (config-sn) shutdown (config) service-insertion show service-insertion	
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(config-sn) enable

To enable the participation of the WN in the AppNav Cluster, use the **enable** service node configuration command. To disable the node, use the **no** form of this command.

enable

no enable

Syntax Description This command has no arguments or keywords.

Defaults Disabled.

Command Modes Service node configuration

Device Modes application-accelerator
appnav-controller

Usage Guidelines A WN must be enabled before it can actively participate in an AppNav Cluster and receive traffic for optimization.

Examples The following example shows how to enable a WN for participation in an AppNav Cluster:

```
WAE(config)# service-insertion service-node  
WAE(config-sn)# enable1
```

Related Commands [\(config-sn\) authentication](#)
[\(config-sn\) description](#)
[\(config-sn\) shutdown](#)
[\(config\) service-insertion](#)
[show service-insertion](#)

(config-sn) shutdown

To configure the WN shutdown timeout, use the **shutdown** service node configuration command. To unconfigure the shutdown timeout, use the **no** form of this command.

shutdown max-wait *seconds*

no shutdown max-wait *seconds*

Syntax Description	max-wait <i>seconds</i>	Specifies the number of seconds that the node should wait for all connections to terminate when shutting down. Valid values range from 0-3600 seconds. The default is 0 seconds.
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Defaults	The shutdown waiting time is 0 seconds.
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Command Modes	Service node configuration
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Device Modes	application-accelerator appnav-controller
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Examples	The following example shows how to configure the shutdown timeout for two minutes:
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```
WAE(config)# service-insertion service-node
WAE(config-sn)# shutdown max-wait 120
```

Related Commands	(config-sn) authentication (config-sn) description (config-sn) enable (config) service-insertion show service-insertion
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