

Configuring VLAN Ranges for Use with Dynamic Profiles

You define dynamic VLAN ranges under the [edit interfaces] hierarchy. You can configure VLAN ranges in the following ways for use with dynamic profiles:

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Configuring Single-Level VLAN Ranges for Use with VLAN Dynamic Profiles

You configure VLAN ranges at the [edit interfaces] hierarchy level by specifying the `vlan-tagging` statement for the interface and defining VLAN ranges for use with a VLAN dynamic profile.

To configure a VLAN range:

1. Access the interface over which you want to create dynamic VLANs.

```
user@host# edit interfaces ge-0/0/0
```

2. Specify the `vlan-tagging` statement to indicate that this interface is for use with stacked VLAN ranges.

```
[edit interfaces ge-0/0/0]  
user@host# set vlan-tagging
```

3. Access the VLAN [auto-configure] hierarchy level.

```
[edit interfaces ge-0/0/0]  
user@host# edit auto-configure
```

4. Access the [vlan-ranges] hierarchy level.

```
[edit interfaces ge-0/0/0 auto-configure]  
user@host# edit vlan-ranges
```

5. Access the VLAN dynamic profile for which you want to configure VLAN ranges.

```
[edit interfaces ge-0/0/0 auto-configure vlan-ranges]  
user@host# edit dynamic-profile (VLAN) VLAN-PROF1
```

6. Specify the VLAN ranges that you want the dynamic profile to use. The following example specifies a lower VLAN ID limit of 3000 and any upper VLAN ID limit (a range from 1 through 4094).

```
[edit interfaces ge-0/0/0 auto-configure vlan-ranges]  
user@host# set ranges (Dynamic VLAN) 3000-any
```

Configuring Stacked VLAN Ranges for Use with Stacked VLAN Dynamic Profiles

You configure stacked VLAN ranges at the [edit interfaces] hierarchy level by specifying the **stacked-vlan-tagging** statement for the interface and defining stacked VLAN ranges for use with a stacked VLAN dynamic profile.

To configure a VLAN range:

1. Access the interface over which you want to create dynamic VLANs.

```
user@host# edit interfaces ge-0/0/0
```

2. Specify the **stacked-vlan-tagging** statement to indicate that this interface is for use with stacked VLAN ranges.

```
[edit interfaces ge-0/0/0]  
user@host# set stacked-vlan-tagging
```

3. Access the VLAN [auto-configure] hierarchy level.

```
[edit interfaces ge-0/0/0]  
user@host# edit auto-configure
```

4. Access the [stacked-vlan-ranges] hierarchy level.

```
[edit interfaces ge-0/0/0 auto-configure]  
user@host# edit stacked-vlan-ranges
```

5. Access the VLAN dynamic profile for which you want to configure VLAN ranges.

```
[edit interfaces ge-0/0/0 auto-configure vlan-ranges]  
user@host# edit dynamic-profile (Stacked VLAN) VLAN-PROF1
```

6. Specify the outer and inner stacked VLAN ranges that you want the dynamic profile to use. The following example specifies an outer stacked VLAN ID range from 2000 through 4000 and an inner stacked VLAN ID range of **any** (enabling a range from 1 through 4094 for the inner stacked VLAN ID).

```
[edit interfaces ge-0/0/0 auto-configure vlan-ranges]  
user@host# set ranges (Dynamic Stacked VLAN) 2000-4000,any
```

Configuring Dynamic Mixed VLAN Ranges

Dynamic VLAN and dynamic stacked VLAN configuration supports mixed (or flexible) VLAN ranges. You configure mixed VLAN ranges at the [edit interfaces] hierarchy level by specifying the **flexible-vlan-tagging** statement for the interface and defining both VLAN and stacked VLAN ranges for use with different VLAN or stacked VLAN dynamic profiles.



CAUTION: JUNOS VLAN IDs for single-tag VLANs are equivalent to the outer tags used for stacked (dual-tag) VLANs. When configuring mixed (flexible) VLANs, ensure that single-tag VLAN IDs and stacked VLAN outer tag values do not overlap.

To configure both VLAN and stacked VLAN ranges:

1. Access the interface over which you want to create dynamic VLANs.

```
user@host# edit interfaces ge-0/0/0
```

2. Specify the **flexible-vlan-tagging** statement to indicate that this interface is for use with both VLAN and stacked VLAN ranges.

```
[edit interfaces ge-0/0/0]  
user@host# set flexible-vlan-tagging
```

3. Access the VLAN [auto-configure] hierarchy level.

```
[edit interfaces ge-0/0/0]  
user@host# edit auto-configure
```

4. Access the [vlan-ranges] hierarchy level.

```
[edit interfaces ge-0/0/0 auto-configure]  
user@host# edit vlan-ranges
```

5. Access the VLAN dynamic profile for which you want to configure VLAN ranges.

```
[edit interfaces ge-0/0/0 auto-configure vlan-ranges]  
user@host# edit dynamic-profile (VLAN) VLAN-PROF1
```

6. Specify the VLAN ranges that you want the dynamic profile to use. The following example specifies a lower VLAN ID limit of 2000 and an upper VLAN ID limit of 3000.

```
[edit interfaces ge-0/0/0 auto-configure vlan-ranges]  
user@host# set ranges (Dynamic VLAN) 2000-3000
```

7. Access the [stacked-vlan-ranges] hierarchy level.

```
[edit interfaces ge-0/0/0 auto-configure]  
user@host# edit stacked-vlan-ranges
```

8. Access the VLAN dynamic profile for which you want to configure VLAN ranges.

```
[edit interfaces ge-0/0/0 auto-configure vlan-ranges]
user@host# edit dynamic-profile (Stacked VLAN) VLAN-PROF1
```

9. Specify the outer and inner stacked VLAN ranges that you want the dynamic profile to use. The following example specifies an outer stacked VLAN ID range from 3001 through 4000 (to avoid overlapping VLAN IDs with single-tag VLANs) and an inner stacked VLAN ID range of **any** (enabling a range from 1 through 4094 for the inner stacked VLAN ID).

```
[edit interfaces ge-0/0/0 auto-configure vlan-ranges]
user@host# set ranges (Dynamic Stacked VLAN) 3001-4000,any
```

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