

Configuring Hierarchical Scheduler on Aggregated Ethernet Interfaces Without Link Protection

On aggregated Ethernet interfaces configured on the IQ2 PIC, you can configure the hierarchical scheduler in non-link-protect mode. The M120, MX Series, and T Series routers with aggregated Ethernet IQ2 PICs in non-link-protect mode support the following scheduler functions:

- Per unit scheduler
- Hierarchical scheduler
- Shaping at the physical interface

To configure the hierarchical scheduler on aggregated Ethernet interfaces in the non link-protect mode, include the `hierarchical-scheduler` statement at the [edit interfaces aeX] hierarchy level:

```
[edit interfaces aeX hierarchical-scheduler]
```

Prior to JUNOS Release 9.6, the hierarchical scheduler mode on these models required the `aggregated-ether-options` statement `link-protection` option, otherwise a configuration error occurs.

To specify the member link bandwidth derivation based on the equal division model (`scale`) or the replication model (`replicate`) on aggregated Ethernet interfaces, include the `member-link-scheduler` (`scale | replicate`) option at the [edit class-of-service interfaces aeX] hierarchy level. The default setting is `scale`.

```
[edit class-of-service interfaces aeX member-link-scheduler (scale | replicate)]
```



NOTE: In link-protect mode, only one link is active at a time and the other link acts as the backup link, whereas in a non link-protect mode, all the links of the aggregate bundle are active at the same time. There is no backup link. If a link goes down or a new link is added to the bundle, traffic redistribution occurs.

- Related Topics**
- Configuring Hierarchical CoS for a Subscriber Interface of Aggregated Ethernet Links
 - For more information on the hierarchical scheduler (CoS), see the *JUNOS Class of Service Configuration Guide*.

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