



# Auto-IP

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## Auto-IP

In ring topology, when a device is inserted into the ring, the neighboring node interfaces require manual reconfiguration. The auto-IP feature addresses the problem of manually reconfiguring nodes during insertion, deletion, and movement of nodes within the ring. The auto-IP feature automatically provides IP addresses to the nodes inserted into the ring. For information on how to configure Auto-IP, see the [IPv4 Addressing Configuration Guide, Cisco IOS XE Release 15.3\(3\)S](#).

The Auto-IP feature is supported on the Cisco ASR 901 series routers with the following restrictions:

- Auto-IP configuration is not supported on the switch virtual interface (SVI) associated with a port channel.
- Manual intervention is mandatory for inserting and deleting nodes because auto-IP is configured on the SVI.
- Auto-IP configuration is not supported for routers that are connected by a switch. It is supported only for directly connected routers.
- Auto-IP-Ring configuration needs to be removed manually on the SVI before defaulting or removing the SVI.

