



## Virtual Domains

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## Information About Virtual Domains

In a remote VSAN, the IVR application does not automatically add the virtual domain to the assigned domains list. Some switches (for example, the Cisco SN5428 switch) do not query the remote name server until the remote domain appears in the assigned domains list in the fabric. In such cases, add the IVR virtual domains in a specific VSAN to the assigned domains list in that VSAN. When adding IVR domains, all IVR virtual domains that are currently present in the fabric (and any virtual domain that is created in the future) will appear in the assigned domains list for that VSAN.



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**Tip** Be sure to add IVR virtual domains if Cisco SN5428 or MDS 9020 switches exist in the VSAN.VSAN. Be

When you enable the IVR virtual domains, links may fail to come up due to overlapping virtual domain identifiers. If this occurs, temporarily withdraw the overlapping virtual domain from that VSAN.



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**Note** Withdrawing an overlapping virtual domain from an IVR VSAN disrupts IVR traffic to and from that domain.

Use the `ivr withdraw domain` command in EXEC mode to temporarily withdraw the overlapping virtual domain interfaces from the affected VSAN.



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**Tip** Only add IVR domains in the edge VSANs and not in transit VSANs.

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## Guidelines and Limitations

IVR has the following guidelines and limitations:

- All border switches in the fabric must be Cisco SAN switches. Other switches in the fabric can be non-Cisco switches.

## Default Settings

Parameters	Default
IVR feature	Disabled
IVR NAT	Disabled
IVR distribution	Disabled
IVR Autotopology	Disabled
IVR VSANs	Not added to virtual domains
QoS for IVR Zones	Low

## Configuring IVR Virtual Domains

### SUMMARY STEPS

1. `ivr virtual-fdomain-add vsan-ranges vsan-range`
2. (Optional) `ivr commit`

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>ivr virtual-fdomain-add vsan-ranges vsan-range</b>  <b>Example:</b> <pre>switch(config)# ivr virtual-fdomain-add vsan-ranges 1-4093</pre>	Adds the IVR virtual domains to the configured VSANs.
<b>Step 2</b>	(Optional) <b>ivr commit</b>  <b>Example:</b> <pre>switch(config)# ivr commit</pre>	Commit the IVR changes to distribute to all IVR-enabled switches in the fabric.

## Verifying IVR Configuration

To display the IVR configuration, perform one of the following tasks:

Command	Purpose
<b>show ivr</b>	Displays the status for the IVR configuration.
<b>show ivr diagnostics</b>	Displays information about IVR diagnostics.
<b>show ivr merge status</b>	Displays information the last IVR merge event.
<b>show ivr pending</b>	Displays information about the IVR pending database.
<b>show ivr pending-diff</b>	Displays the differences between the pending database and the config database.
<b>show ivr vsan-topology [active   configured]</b>	Displays the IVR VSAN topology.
<b>show ivr session status</b>	Displays information about IVR CFS session.
<b>show ivr virtual-domains</b>	Displays information about IVR virtual domains for all local VSANs.
<b>show ivr zone</b>	Displays information about IVR zones.
<b>show ivr zoneset</b>	Displays information about IVR zone sets.
<b>show ivr service-group active</b>	Displays information about the active service group.
<b>show ivr service-group configured</b>	Displays information about the configured service group.
<b>show autonomous-fabric-id database</b>	Displays information about the AFIDs.
<b>show ivr virtual-fdomain-add-status</b>	Displays the status of the IVR virtual domain configuration.

### Related Topics

[Information about IVR Zones and Zonesets](#)

[Configuring IVR Zones](#)

[Configuring IVR Zone Sets](#)

# Feature History

*Table 1: Feature History IVR*

<b>Feature Name</b>	<b>Releases</b>	<b>Feature Information</b>
IVR	5.2(1)	This feature was introduced.