

Chapter 11

SAP and SDP Overview

Session announcements are handled by two protocols, Session Announcement Protocol (SAP) and Session Description Protocol (SDP). These two protocols display multicast session names and correlate the names with multicast traffic.

SDP is a session directory protocol that is used for multimedia sessions. It helps advertise multimedia conference sessions and communicates setup information to participants who want to join the session. SDP simply formats the session description; it does not incorporate a transport protocol. A client commonly uses SDP to announce a conference session by periodically multicasting an announcement packet to a well-known multicast address and port using SAP.

SAP is a session directory announcement protocol that SDP uses as its transport protocol.

This chapter discusses the following topics that provide information about SAP and SDP:

SAP and SDP Configuration Statements on page 90

Summary of SAP and SDP Multicast Configuration Statements on page 90

For information about supported standards for SAP and SDP, see “IP Multicast Standards” on page 28.

SAP and SDP Configuration Statements

SDP is a session directory protocol and SAP is a session directory announcement protocol that display multicast session names and correlate the names with multicast traffic. Enabling SDP and SAP allows the router to receive announcements about multimedia and other multicast sessions. To enable SDP and SAP and the receipt of session announcements, include the `sap` statement include the `sap` statement at the `[edit protocols]` hierarchy level:

```
[edit protocols]
sap {
  disable;
  listen [ address port port ];
}
```

You listen on one or more addresses and ports. You can configure this statement at the following hierarchy levels:

```
[edit protocols]

[edit logical-routers logical-router-name protocols]
```

For an overview of logical routers and a detailed example of logical router configuration, see the logical routers chapter of the *JUNOS Internet Software Feature Guide*.

By default, SAP always listens to the address and port 224.2.127.254:9875 for session advertisements. To add other addresses and ports, specify other address and port numbers.

Sessions learned by SDP time out after 60 minutes.

Summary of SAP and SDP Multicast Configuration Statements

The following sections explain each of the SAP and SDP multicast configuration statements. The statements are organized alphabetically.

disable

Syntax	<code>disable;</code>
Hierarchy Level	<code>[edit protocols sap]</code> , <code>[edit logical-routers logical-router-name protocols sap]</code>
Description	Explicitly disable SAP.
Usage Guidelines	See “SAP and SDP Configuration Statements” on page 90.
Required Privilege Level	<code>routing</code> —To view this statement in the configuration. <code>routing-control</code> —To add this statement to the configuration.

listen

Syntax	listen [<i>address</i> <port <i>port</i> >];
Hierarchy Level	[edit protocols sap], [edit logical-routers <i>logical-router-name</i> protocols sap]
Description	Specify one or more addresses and ports for SAP and SDP to listen on. SAP and SDP always listen on the default SAP address and port, 224.2.127.254:9875. To listen on additional addresses or address ranges, specify one or more addresses with the <i>address</i> and <i>port</i> options.
Options	<i>address</i> —(Optional) Address where the router should listen for session advertisements. Default: 224.2.127.254 <i>port port</i> —(Optional) Port where the router should listen for session advertisements. Default: 9875
Usage Guidelines	See “SAP and SDP Configuration Statements” on page 90.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.

sap

Syntax	sap { disable; listen [<i>address</i> <port <i>port</i> >]; }
Hierarchy Level	[edit protocols], [edit logical-routers <i>logical-router-name</i> protocols]
Description	Enable the router to listen to session directory announcements for multimedia and other multicast sessions. SAP and SDP always listen on the default SAP address and port, 224.2.127.254:9875. To listen on additional addresses or address ranges, specify one or more addresses and ports with the listen statement.
Options	The statements are explained separately.
Usage Guidelines	See “SAP and SDP Configuration Statements” on page 90.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.
See Also	listen on page 91

