

# Chapter 11

## SAP and SDP Overview

Session announcements are handled by two protocols, SAP and 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 73

Summary of SAP and SDP Multicast Configuration Statements on page 74

For information about supported standards for SAP and SDP, see “IP Multicast Standards” on page 25.

### 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 thus enable the receipt of session announcements, include the `sap` statement at the [edit protocols] hierarchy level:

```
protocols {
  sap {
    disable;
    listen <address> <port port>;
  }
}
```

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

<b>Syntax</b>	disable;
<b>Hierarchy Level</b>	[edit protocols sap]
<b>Description</b>	Explicitly disable SAP.
<b>Usage Guidelines</b>	See “SAP and SDP Configuration Statements” on page 73.
<b>Required Privilege Level</b>	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.

### listen

<b>Syntax</b>	listen <address> <port port>;
<b>Hierarchy Level</b>	[edit protocols sap]
<b>Description</b>	Specify one or more addresses 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.
<b>Options</b>	address—(Optional) Address where the router should listen for session advertisements. <b>Default:</b> 224.2.127.254  port <i>port</i> —(Optional) Port where the router should listen for session advertisements. <b>Default:</b> 9875
<b>Usage Guidelines</b>	See “SAP and SDP Configuration Statements” on page 73.
<b>Required Privilege Level</b>	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.

## sap

<b>Syntax</b>	<pre>sap {     disable;     listen &lt;address&gt; &lt;port port&gt;; }</pre>
<b>Hierarchy Level</b>	[edit protocols]
<b>Description</b>	<p>Enable the router to listen to session directory announcements for multimedia and other multicast sessions.</p> <p>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 listen statement.</p>
<b>Options</b>	The statements are explained separately.
<b>Usage Guidelines</b>	See “SAP and SDP Configuration Statements” on page 73.
<b>Required Privilege Level</b>	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.
<b>See Also</b>	listen on page 74

