

Chapter 34

SAP and SDP

Session announcements are handled by two protocols, SDP and SAP. 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. As such, it assists in advertising multimedia conference sessions and in communicating setup information to participants who want to join the session. SDP simply formats the session description; it does not incorporate a transport protocol. SDP commonly is used by a client 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 is used by SDP as its transport protocol.

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

SAP and SDP Standards on page 381

SAP and SDP Configuration Statements on page 382

Summary of SAP and SDP Multicast Configuration Statements on page 382

SAP and SDP Standards

SAP and SDP multicast are defined in the following documents:

RFC 2327, *SDP: Session Description Protocol*

SAP: Session Announcement Protocol, Internet draft draft-ietf-mmusic-sap-00

To access Internet RFCs and drafts, go to the IETF Web site at <http://www.ietf.org>.

SAP and SDP Configuration Statements

SDP is a session directory protocol and SAP is a session directory announcement protocol that displays multicast session names and correlates 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 SPD multicast configuration statements. The statements are organized alphabetically.

disable

Syntax	<code>disable;</code>
Hierarchy Level	[edit protocols sap]
Description	Explicitly disable SAP.
Required Privilege Level	routing—To view this statement in the configuration. routing-control—To add this statement to the configuration.

listen

Syntax	listen <address> <port port>;
Hierarchy Level	[edit protocols sap]
Description	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.
Options	<i>address</i> —Address where the router should listen for session advertisements. Default: 224.2.127.254 <i>port</i> —Port where the router should listen for session advertisements. Default: 9875
Usage Guidelines	See “SAP and SDP Configuration Statements” on page 382.
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 <address> <port port>; }
Hierarchy Level	[edit 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 with the <i>listen</i> statement.
Options	The statement within the <i>sap</i> statement is explained separately.
Usage Guidelines	See “SAP and SDP Configuration Statements” on page 382.
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 383

