



CHAPTER 3

Overview of the SIP

This chapter provides an overview of the release history, and feature and Management Information Base (MIB) support for the Cisco ASR1000-SIP10.

This chapter includes the following sections:

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- [Supported SIP Features, page 3-2](#)
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Release History



Note

For release history information about the introduction of SPA support on the SIP, refer to the corresponding “Overview” chapters in the SPA technology sections of this document. In addition, features specific to certain SPA technologies are documented in the corresponding SPA sections of this document.

Release	Modification
Cisco IOS XE 2.4	Information added for the following SPAs: <ul style="list-style-type: none">• 2-Port, 4-Port, and 8-Port OC-12 POS SPA• 1-Port OC-48 POS SPA• 8-Port OC-3 POS SPA• 1-Port OC-192 POS SPA• WMA-K9 SPA
Cisco IOS XE 2.3	Information added for the following SPAs: <ul style="list-style-type: none">• 1-Port and 3-Port OC-3 ATM SPA

Cisco IOS XE 2.2	Information added for the following SPAs: <ul style="list-style-type: none"> • 2-Port and 4-Port OC-48c/STM-16 POS/RPR SPA • 1-Port Channelized STM-1/OC-3 SPA
Cisco IOS XE 2.1	First release.

Supported SIP Features

The Cisco ASR1000-SIP10, is a high-performance, feature-rich SPA interface processor that functions as a carrier card for shared port adapters (SPAs) on the Cisco ASR 1000 Series Aggregation Services Routers. The SIP is supported on the Cisco ASR 1000 Series Routers, and is compatible with one or more platform-independent SPAs. For more information on SPA compatibility, see the [“SIP and SPA Compatibility” section on page 2-2](#).

This section provides a list of some of the primary features supported by the SIP hardware and software. For feature compatibility information by SIP and SPA combination, and information about configuring these features, see [Chapter 4, “Configuring the SIP.”](#)

Cisco ASR1000-SIP10 Features

- Field-programmable device (FPD) upgrade support

The Cisco ASR1000-SIP10 supports the standard FPD upgrade methods for the Cisco ASR 1000 Series Routers. For more information about FPD support, see [Chapter 24, “Upgrading Field-Programmable Devices.”](#)

Cisco ASR1000-SIP10 High Availability Features

- Online insertion and removal (OIR) of the SIP and SPAs
- Nonstop Forwarding (NSF)
- Stateful switchover (SSO)
- Frame Relay switching
- VC bundle Class of Service (CoS) precedence mapping

Supported MIBS

The following MIBs are supported in Cisco IOS XE Release 2.2 and later for the Cisco ASR1000-SIP10 on a Cisco ASR 1000 Series Router:

- ENTITY-MIB (RFC 4133)
- CISCO-ENTITY-FRU-CONTROL-MIB
- CISCO-ENTITY-ALARM-MIB
- ENTITY-SENSOR-MIB (RFC 3433)
- CISCO-ENTITY-SENSOR-MIB

- SONET MIB (RFC 2558)
- MIB II
- CISCO-ENTITY-ASSET-MIB
- CISCO-EXTENDED-ENTITY-MIB

Command Reference Information

For command reference information, refer to the Cisco IOS command reference and master index publications.

