



# Integration of Resource Management and SIP

Per RFC 3312, call endpoints can determine whether resources are fully reserved for a media stream before using it. This feature is useful when separate QoS signaling, such as RSVP is used. To accomplish this, RFC 3312 defines three new a=lines at media stream granularity. Endpoints use these lines to signal reservation information and their preconditions for adopting the new SDP.

## Feature History for Integration of Resource Management and SIP Support

Release	Modification
Release 3.5.1	This feature was introduced on Cisco XR 12000 Series Router.
Release 3.6.0	No modification.

## Contents

This module contains the following sections:

- [Restrictions for Integration of Resource Management, page SBC-489](#)
- [Information about Integration of Resource Management, page SBC-489](#)
- [Additional References, page SBC-490](#)

## Restrictions for Integration of Resource Management

- When this feature is implemented, the SBC does not report the media state or generate preconditions. It only detects whether preconditions are present, and whether all the mandatory preconditions have been met if preconditions exist.
- This feature is a SIP-only feature and is not supported by H.323 or SIP-H.323 interworking.
- With RFC 3312 signaling procedures, media renegotiation is completed only when the mandatory preconditions have been met.

## Information about Integration of Resource Management

When the precondition tag appears in the Require or Supported header fields of SIP messages, the SBC allows them to pass through. The SBC also allows the unmodified SDP to pass through, which represents the state and the preconditions.

When processing an offer results in failure, the underlying SIP message is either rejected or the call is torn down. When processing an answer results in failure, the call is torn down, regardless of the reason for the failure.

## Additional References

The following sections provide references related to Integration of Resource Management on the SBC.

## Related Documents

Related Topic	Document Title
Cisco IOS XR master command reference	Cisco IOS XR Master Commands List
Cisco IOS XR SBC interface configuration commands	<i>Cisco IOS XR Session Border Controller Command Reference</i>
Initial system bootup and configuration information for a router using the Cisco IOS XR Software	<i>Cisco IOS XR Getting Started Guide</i>
Cisco IOS XR command modes	<i>Cisco IOS XR Command Mode Reference</i>

## Standards

Standards	Title
No new or modified standards are supported by this feature, and support from existing standards has not been modified by this feature.	—

## MIBs

MIBs	MIBs Link
—	To locate and download MIBs using Cisco IOS XR software, use the Cisco MIB Locator found at the following URL and choose a platform under the Cisco Access Products menu: <a href="http://cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml">http://cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml</a>

## RFCs

RFCs	Title
RFC 3312	Integration of Resource Management and Session Initiation Protocol (SIP)
RFC 3261	<i>SIP: Session Initiation Protocol</i>

## Technical Assistance

Description	Link
The Cisco Technical Support website contains thousands of pages of searchable technical content, including links to products, technologies, solutions, technical tips, and tools. Registered Cisco.com users can log in from this page to access even more content.	<a href="http://www.cisco.com/techsupport">http://www.cisco.com/techsupport</a>

