SIP Endpoint SDK Developer's Guide

Call Statistics

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Call Statistics

As of release 8.1.100.04 of SIP Endpoint SDK for .NET, two methods have been added to the `ICallControl` interface, so that you can have real-time access to RTP audio and video statistics during a call. These statistics are based on the RTCP packets that have been sent during a call session. The two methods are:

```
Dictionary<String^,Object^>^ GetAudioStatistics(String^ sessionId);
Dictionary<String^,Object^>^ GetVideoStatistics(String^ sessionId);
```

The NET QuickStart Application shows how to monitor statistics while a call is in progress and how to gather the most recent statistics before a call is disconnected.

RTCP is enabled by default.

Available Statistics

SIP Endpoint SDK provides video and audio statistics at the end of each call when the session achieves a status of `SessionStatus.Disconnected`. These statistics have the same names, meanings, and structure for both video and audio.

Local Statistics		
	Got Local Stat	This value is positive if the next 5 fields are valid (which means that local statistics are available)
	Local Frac Lost	The fraction of packets that were lost during this call (that is, packets that were not received by the local endpoint)
	Local Jitter	Interarrival jitter
	Local Oct Count	Local octet count (number of bytes sent)
	Local Pkt Count	Local packet count (number of RTP packets sent from the local endpoint)
	Local Total Lost	Total lost packets (calculated per RFC 3550)
Remote Receiver Report		
	Got Remote RR	This value is true if the next 3 fields are valid (which means that the local endpoint received a Receiver Report from the remote endpoint)
	Remote Frac Lost	The fraction of packets that were lost during this call (that is,

		packets that were not received by the remote endpoint)
	Remote Jitter	Interarrival jitter
	Remote Total Lost	Total lost packets (calculated per RFC 3550)
Remote Sender Report		
	Got Remote SR	This value is true if the next 2 fields are valid (which means that the local endpoint received a Sender Report from the remote endpoint)
	Remote Oct Count	Remote octet count
	Remote Pkt Count	Remote packet count (number of packets sent by the remote endpoint)
Round Trip		
	Round Trip Time	Round-trip time in milliseconds