



MGCP Call Flows

This section shows and describes a call flow for a successful call using the Cisco ATA and MGCP.



Note

The term *Cisco ATA* refers to both the Cisco ATA 186 and the Cisco ATA 188, unless otherwise stated.

[Figure C-1 on page C-2](#) illustrates a basic call flow between two Cisco ATAs through a VocalData Call Agent.

[Table C-1 on page C-3](#) describes the action the Cisco ATA takes for each step in the call flow illustration and includes the log created by each step.

Figure C-1 Cisco ATA-to-Cisco ATA Through VocalData Call Agent

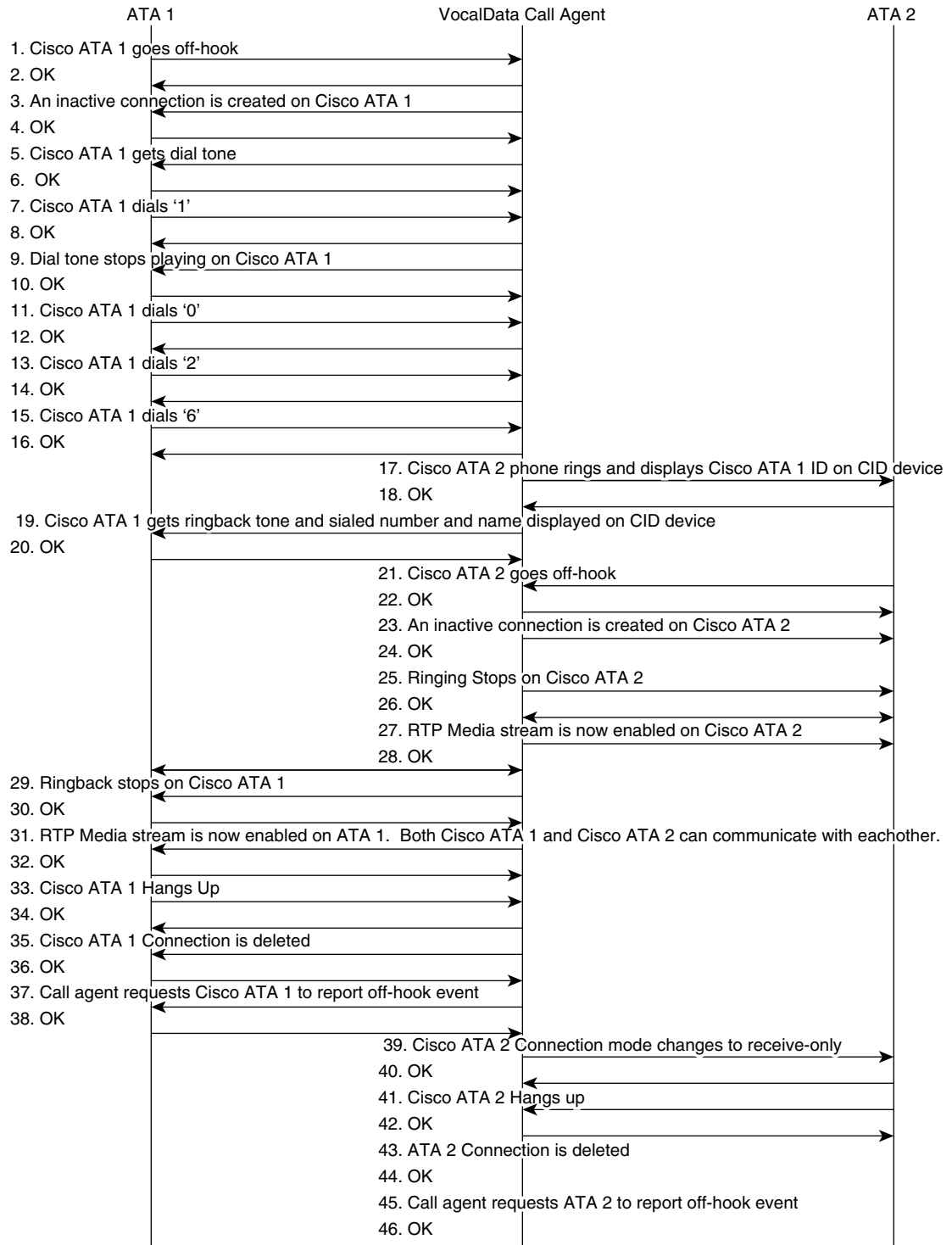


Table C-1 Action Log

Step	Action	Log
1.	Cisco ATA 1 goes off-hook—Cisco ATA 1 to Call Agent	NTFY 16 aaln/1@[192.168.2.45] MGCP 1.0 N: 192.168.3.76:2427 X: 10 O: L/hd K: 15
2.	OK—Call Agent to Cisco ATA 1	200 16 OK
3.	An inactive connection is created on Cisco ATA 1—Call Agent to Cisco ATA 1	crcx 57698 aaln/1@[192.168.2.45] MGCP 1.0 K: 57687 C: 26962 X: 29620 N: 192.168.3.76:2427 L: p:10-20, a:PCMU;G729 M: inactive
4.	OK—Cisco ATA 1 to Call Agent	200 57698 OK I: 0 v=0 c=IN IP4 192.168.2.45 m=audio 10000 RTP/AVP 0 18
5.	Cisco ATA 1 gets dial tone—Call Agent to Cisco ATA 1	rqnt 57699 aaln/1@[192.168.2.45] MGCP 1.0 K: 57698 X: 29621 R: L/hu(N),L/hf(N),D/[0-9*#](N) S: L/dl D: x
6.	OK—Cisco ATA 1 to Call Agent	200 57699 OK
7.	Cisco ATA 1 dials '1'—Cisco ATA 1 to Call Agent	NTFY 17 aaln/1@[192.168.2.45] MGCP 1.0 N: 192.168.3.76:2427 X: 29623 O: D/1 K: 16
8.	OK—Call Agent to Cisco ATA 1	200 17 OK
9.	Dial tone stops playing on ATA 1—Call Agent to Cisco ATA 1	rqnt 57707 aaln/1@[192.168.2.45] MGCP 1.0 K: 57700-57701 X: 29629 R: L/hu(N),L/hf(N),D/[0-9*#](N) S: D: x
10.	OK—Cisco ATA 1 to Call Agent	200 57707 OK
11.	Cisco ATA 1 dials '0'—Cisco ATA 1 to Call Agent	NTFY 18 aaln/1@[192.168.2.45] MGCP 1.0 N: 192.168.3.76:2427 X: 29629 O: D/0 K: 17
12.	OK—Call Agent to Cisco ATA 1	200 18 OK
13.	Cisco ATA 1 dials '2'—Cisco ATA 1 to Call Agent	NTFY 19 aaln/1@[192.168.2.45] MGCP 1.0 N: 192.168.3.76:2427 X: 29629 O: D/2 K: 18
14.	OK—Call Agent to Cisco ATA 1	200 19 OK

Step	Action	Log
15.	Cisco ATA 1 dials “6”—Cisco ATA 1 to Call Agent	NTFY 20 aaln/1@[192.168.2.45] MGCP 1.0 N: 192.168.3.76:2427 X: 29629 O: D/6 K: 19
16.	OK—Call Agent to Cisco ATA 1	200 20 OK
17.	Cisco ATA 2 phone rings and displays Cisco ATA 1 ID on CID device—Call Agent to Cisco ATA 2	rqnt 57713 aaln/1@[192.168.3.33] MGCP 1.0 K: 57676 X: 10 S: L/rg,L/ci(11/13/12/42,9723301011,ATA-2-45-USER1)
18.	OK—Cisco ATA 2 to Call Agent	200 57713 OK
19.	Cisco ATA 1 gets ringback tone and dialed number and name displayed on CID device—Call Agent to Cisco ATA 1	rqnt 57714 aaln/1@[192.168.2.45] MGCP 1.0 K: 57707 X: 29630 R: L/hu(N),L/hf(N),D/[0-9*#](N) S: G/rt,L/ci(11/13/12/42,9723301026,ATA-3-33-USER1) D: x
20.	OK—Cisco ATA 1 to Call Agent	200 57714 OK
21.	Cisco ATA 2 goes off-hook—Cisco ATA 2 to Call Agent	NTFY 18 aaln/1@[192.168.3.33] MGCP 1.0 N: 192.168.3.76:2427 X: 10 O: L/hd K: 17
22.	OK—Call Agent to Cisco ATA 2	200 18 OK
23.	An inactive connection is created on Cisco ATA 2—Call Agent to Cisco ATA 2	crcx 57722 aaln/1@[192.168.3.33] MGCP 1.0 K: 57713 C: 26962 X: 29640 N: 192.168.3.76:2427 L: p:10-20, a:PCMU;G729 M: inactive
24.	OK—Cisco ATA to Call Agent	200 57722 OK I: 0 v=0 c=IN IP4 192.168.3.33 m=audio 10000 RTP/AVP 18 0
25.	Ringling stops on Cisco ATA 2—Call Agent to Cisco ATA 2	rqnt 57723 aaln/1@[192.168.3.33] MGCP 1.0 X: 29641 R: L/hu(N),L/hf(N),D/[0-9*#](N) S: D: x
26.	OK—Cisco ATA 2 to Call Agent	200 57723 OK

Step	Action	Log
27.	Routing Update Protocol (RTP) Media stream is now enabled on Cisco ATA 2—Call Agent to Cisco ATA 2	<pre>mdcx 57724 aaln/1@[192.168.3.33] MGCP 1.0 C: 26962 I: 0 X: 29642 R: L/hu(N),L/hf(N),D/[0-9*#](N) S: D: x N: 192.168.3.76:2427 L: p:20, a:PCMU, t:00 M: sendrecv v=0 c=IN IP4 192.168.2.45 m=audio 10000 RTP/AVP 0</pre>
28.	OK—Cisco ATA 2 to Call Agent	200 57724 OK
29.	Ringback stops on Cisco ATA 1—Call Agent to Cisco ATA 1	<pre>rqnt 57725 aaln/1@[192.168.2.45] MGCP 1.0 K: 57714 X: 29643 R: L/hu(N),L/hf(N),D/[0-9*#](N) S: D: x</pre>
30.	OK—Cisco ATA 1 to Call Agent	200 57725 OK
31.	RTP Media stream is now enabled on Cisco ATA 1. Both Cisco ATA 1 and Cisco ATA 2 can communicate with each other—Call Agent to Cisco ATA 1	<pre>mdcx 57726 aaln/1@[192.168.2.45] MGCP 1.0 C: 26962 I: 0 X: 29644 R: L/hu(N),L/hf(N),D/[0-9*#](N) S: D: x N: 192.168.3.76:2427 L: p:20, a:PCMU, t:00 M: sendrecv v=0 c=IN IP4 192.168.3.33 m=audio 10000 RTP/AVP 0</pre>
32.	OK—Cisco ATA1 to Call Agent	200 57726 OK
33.	Cisco ATA 1 hangs Up—Cisco ATA 1 to Call Agent	<pre>NTFY 21 aaln/1@[192.168.2.45] MGCP 1.0 N: 192.168.3.76:2427 X: 29644 O: L/hu K: 20</pre>
34.	OK—Call Agent to Cisco ATA 1	200 21 OK
35.	Cisco ATA 1 Connection is deleted—Call Agent to Cisco ATA 1	<pre>dlcx 57735 aaln/1@[192.168.2.45] MGCP 1.0 K: 57725-57726 C: 26962 I: 0 X: 29651 S: N: 192.168.3.76:2427</pre>
36.	OK—Cisco ATA 1 to Call Agent	200 57735 OK
37.	Call Agent requests Cisco ATA 2 to report off-hook event—Call Agent to Cisco ATA2	<pre>rqnt 57736 aaln/1@[192.168.2.45] MGCP 1.0 X: 29652 R: L/hd(N) N: 192.168.3.76:2427</pre>

Step	Action	Log
38.	OK—Cisco ATA 1 to Call Agent	200 57736 OK
39.	ATA 2 Connection mode changes to receive-only—Call Agent to Cisco ATA 2	mdcx 57737 aaln/1@[192.168.3.33] MGCP 1.0 K: 57722-57724 C: 26962 I: 0 X: 29653 R: L/hu(N),L/hf(N),D/[0-9*#](N) S: D: x N: 192.168.3.76:2427 L: p:20, a:PCMU, t:00 M: recvonly v=0 c=IN IP4 192.168.3.33 m=audio 10000 RTP/AVP 0
40.	OK—Cisco ATA 2 to Call Agent	200 57737 OK
41.	Cisco ATA 2 hangs up—Cisco ATA 2 to Call Agent	NTFY 19 aaln/1@[192.168.3.33] MGCP 1.0 N: 192.168.3.76:2427 X: 29653 O: L/hu K: 18
42.	OK—Call Agent to Cisco ATA 2	200 19 OK
43.	Cisco ATA 2 Connection is deleted—Call Agent to Cisco ATA 2	d!cx 57740 aaln/1@[192.168.3.33] MGCP 1.0 K: 57737 C: 26962 I: 0 X: 29654 S: N: 192.168.3.76:2427
44.	OK—Cisco ATA 2 to Call Agent	200 57740 OK
45.	Call Agent requests Cisco ATA 2 to report off-hook event—Call agent to Cisco ATA 2	rqnt 57741 aaln/1@[192.168.3.33] MGCP 1.0 X: 29655 R: L/hd(N) N: 192.168.3.76:2427
46.	OK—Cisco ATA 2 to Call Agent	200 57741 OK