

مادختسالا تالاح يي في SIP تافي صوت مادختسالا CUBE Enterprise ل عئاشلا

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عمدق حمللا

[لمع قسلج ادب لوكوتورب في رعت فلم رابتخا اءاد](#) مادختسالا في فيك دن تسم الال اذه حضوي
Cisco.com الال مادختسالا ل عرفوت حمللا (SIP).

قيساس الال تابلطت حمللا

تابلطت حمللا

Cisco IOS® جم انرب لغشت يي تالال ISR تاصنم الال دن تسم الال اذه في قدر اولال تامول عم الال دن تست
و Cisco IOS® XE.

عمدختس حمللا تانوك حمللا

ةي لال عيضاوم لال ا فرعم كي دل نوك ت ناب Cisco في صوت

- Cisco IOS® جم انرب ربع لقن تالال

- اهتاك رحو SIP لئاسرر قيسنت

ةصاخ ةي لم عم ةئي ب ي ف ةدوحو م لا ةزهجأ ل نم دنت س م لا اذه ي ف ةدراولا تامو ل عم ل اءاش ن ا م ت تناك اذ ا (يضا رت ف ا). حوس م م نيوك ت ب دنت س م لا اذه ي ف ةمدخت س م ل ةزهجأ ل ا عي م ج ت ا د ب رم ا ي ا ل م ت ح م ل ر ي ث ا ت ل ل ك م ه ف ن م د ك ا ت ف ، ل ي غ ش ت ل ا د ي ق ك ت ك ب ش

ةيساس ا تامو ل عم

ءار ج ا ل ا ه م ا د خ ت س ا ن ك م ي ا م ك . SIP لئاسرر ي ف س ا ر ل ا تامو ل عم ةج ل ا عم ل SIP ت ا ف ي ص و ت م د خ ت س ت ي ل ع ض و ا ف ت ل ل ه م ا د خ ت س ا م ت ي ي ذ ل ا و ، (SDP) ةس ل ج ل ا ف ص و ل و ك و ت و ر ب ي ف ت ا ر ي ي غ ت طئاسو ل ا .

ةعئاش ل ل SIP لئاسرر عي ب ط ت ت ا ه و ي ر ا ن ي س

ر ر ك ت م ل ك ش ب ا ه ت ي و ر م ت ي ت ل ل SIP لئاسرر عي ب ط ت ت ا ه و ي ر ا ن ي س ن م د ي د ع ل ا م س ق ل ا اذه ر ف و ي ن م ة ش ا ش ة ط ق ل و ك ع ج ر م ل Cisco IOS ج م ا ن ر ب ي ل ع ب و ل ط م ل ا ن ي و ك ت ل ا و ي ر ا ن ي س ل ك ن م ض ت ي ة م د ق م ل ا ي ف ا ه ر ك ذ م ت ي ت ل ل SIP ف ي ر ع ت ف ل م ر ا ب ت خ ا ة ا د ا .

SIP لئاسرر ي ل ع ة ب و ل ط م ل ا ي ر خ ا ل ا ة ج ل ا عم ل ل ع ج ا ر م ك ت ا ه و ي ر ا ن ي س ل ا ه ذ ه م ا د خ ت س ا ن ك م ي

ن م س ا ر ي ل ل ا ل ي و ح ت ل ا س ا ر ن م ة م ي ق ل ا خ س ن

```
voice class sip-profiles 1
request INVITE sip-header Diversion copy "< sip:(.*)@.*" u01
request INVITE sip-header From copy ".*< sip:(.*)@.*" u02
request INVITE sip-header From modify "(.*)< sip:.*@(.*)" "\1< sip:\u01@\2"
request INVITE sip-header From modify "< sip:@ " "< sip:\u02@"
```

SIP-Profile:

```
voice class sip-profiles 1
request INVITE sip-header Diversion copy "<sip:(.*)@.*" u01
request INVITE sip-header From copy ".*<sip:(.*)@.*" u02
request INVITE sip-header From modify "(.*)<sip:.*@(.*)" "\1<sip:\u01@\2"
```

Input Message	Output Message
<pre>INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Supported: 100rel,timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: <sip:88882614@17.0.44.11>;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>	<pre>INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:88882614@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Supported: 100rel,timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: <sip:88882614@17.0.44.11>;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>

15.4 رادصالا لبق) REQ-URI عم ل عمل اى لى دراو ؤوع د ي ف س ا ر لى ل ن م م قر خ س ن
ن م Cisco IOS)

ة: رادصالا ؤوع د ل ل يد ع ت ب م ق و ؤ دراو ؤوع ؤ ل س ر ي ف " لى ل " س ا ر ي ف د و ج و م ل م قر ل ا خ س ن ا

```
voice class sip-copylist 1
sip-header TO
```

```
voice class sip-profiles 2
request INVITE peer-header sip TO copy "sip:(.*)@" u01
request INVITE sip-header SIP-Req-URI modify ".*@(.)" "INVITE sip:\u01@\1"
```

SIP-Profile:

```
voice class sip-copylist 1
sip-header TO

voice class sip-profiles 2
request INVITE peer-header sip TO copy "sip:(.*)@" u01
request INVITE sip-header SIP-Req-URI modify ".*@(.)" "INVITE sip:\u01@\1"
```

Input Message	Output Message
<pre>INVITE sip:+18774116700@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Supported: 100rel,timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: <sip:88882614@17.0.44.11>;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>	<pre>INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Supported: 100rel,timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: <sip:88882614@17.0.44.11>;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>

في رعت تافل م عم) REQ-URI م عمل ال ال ة دراو ة وعد ي ف س أ ر ال ال ن م م قر خ سن
(ة دراو ال SIP)

```
voice class sip-profiles 1
  request INVITE sip-header TO copy "sip:(.*)@" u01
  request INVITE sip-header SIP-Req-URI modify ".*@(.*)" "INVITE sip:\u01@\1"

voice service voip
  sip
  sip-profiles inbound
  sip-profiles 1 inbound
```

SIP-Profile:

```
voice class sip-profiles 1
  request INVITE sip-header TO copy "sip:(.*)@" u01
  request INVITE sip-header SIP-Req-URI modify ".*@(.*)" "INVITE sip:\u01@\1"

voice service voip
  sip
  sip-profiles inbound
  sip-profiles 1 inbound
```

Input Message	Output Message
<pre>INVITE sip:+18774116700@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Supported: 100rel,timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: <sip:88882614@17.0.44.11>;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>	<pre>INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Supported: 100rel,timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: <sip:88882614@17.0.44.11>;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>

رفو م ال عم رشاب م ال ريغ / ي دا ح ال ال ي توصل ال ق فاو ت ال ال ك شم

```
voice class sip-profiles 200
  request ANY sdp-header Audio-Attribute modify "a=inactive" "a=sendrecv"
  request ANY sdp-header Audio-Connection-Info modify "0.0.0.0" "CUBE's IP"
```

SIP-Profile:

```
voice class sip-profiles 200
request ANY sdp-header Audio-Attribute modify "a=inactive" "a=sendrecv"
request ANY sdp-header Audio-Connection-Info modify "0.0.0.0" "10.10.10.1"
```

Input Message	Output Message
<pre>INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Content-Disposition: session;handling=required Content-Length: 261 v=0 o=CiscoSystemsSIP-GW-UserAgent 1796 4793 IN IP4 17.0.44.11 s=SIP Call c=IN IP4 17.0.44.11 t=0 0 m=audio 0 RTP/AVP 0 101 19 c=IN IP4 0.0.0.0 a=rtpmap:0 PCMU/8000 a=inactive a=rtpmap:101 telephone-event/8000 a=fmtp:101 0-16 a=rtpmap:19 CN/8000 a=ptime:20</pre>	<pre>INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Content-Disposition: session;handling=required Content-Length: 273 v=0 o=CiscoSystemsSIP-GW-UserAgent 1796 4793 IN IP4 17.0.44.11 s=SIP Call c=IN IP4 17.0.44.11 t=0 0 m=audio 0 RTP/AVP 0 101 19 c=IN IP4 10.10.10.1 a=rtpmap:0 PCMU/8000 a=sendrecv a=rtpmap:101 telephone-event/8000 a=fmtp:101 0-16 a=rtpmap:19 CN/8000 a=ptime:20</pre>

يني بل لي غش تال ةي لباق لكاش م بنج تل شي دحت لل بولسأ معد ةلازا

```
voice class sip-profiles 200
request ANY sip-header Allow-Header modify ", UPDATE" ""
```

SIP-Profile:

```
voice class sip-profiles 200
request ANY sip-header Allow-Header modify ", UPDATE" ""
```

Input Message	Output Message
<pre>INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 148F665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER Content-Length: 0</pre>	<pre>INVITE sip:18774116706@172.30.238.49:5071 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 148F665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER Content-Length: 0</pre>

لاجل م سا لى ل IP ناوع لي وحت

```
voice class sip-profiles 1
request ANY sip-header SIP-Req-URI modify "10.67.138.241:5060" "sipp.cisco.com"
```

SIP-Profile:

```
voice class sip-profiles 1
request ANY sip-header SIP-Req-URI modify "10.67.138.241:5060" "sipp.cisco.com"
```

Input Message	Output Message
<pre>INVITE sip:9819940331@10.67.138.241:5060 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER Content-Length: 0</pre>	<pre>INVITE sip:9819940331@sipp.cisco.com SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER Content-Length: 0</pre>

ليوحتل سار ي في ةئداب ةفاض

```
voice class sip-profiles 1
request ANY sip-header Diversion modify "sip:(.*)@" "sip:704264\1@"
```

SIP-Profile:

```
voice class sip-profiles 1
request ANY sip-header Diversion modify "sip:(.*)@" "sip:704264\1@"
```

Input Message	Output Message
<pre>INVITE sip:9819940331@10.67.138.241:5060 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER Diversion: <sip:2614@17.0.44.11>;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>	<pre>INVITE sip:9819940331@10.67.138.241:5060 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bK6740831D5B From: <sip:8152456266@17.0.44.11>;tag=DEC125B4-3F9 To: <sip:18774116706@172.30.238.49> Date: Tue, 02 Sep 2014 17:33:26 GMT Call-ID: 14BF665C-31FE11E4- FFFFFFFF8168E118-52ABD3C1@17.0.44.11 Allow: INVITE, OPTIONS, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY, INFO, REGISTER Diversion: <sip:7042642614@17.0.44.11>;privacy=off; reason=unconditional,screen=no Content-Length: 0</pre>

ليوحتل سار ي في DID مقرر ني عت

```
voice class sip-profiles 1
request INVITE sip-header Diversion modify "sip:(.*)@" "sip:7042642614@"
```


SIP-Profile:

```
voice class sip-profiles 1
request INVITE sip-header Diversion modify "sip:(.*)@" "sip:7042642614@"
```

Input Message	Output Message
<pre>INVITE sip:18774116706@172.30.238.49:5060 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bKD23DB From: <sip:8152456266@17.0.44.11>;tag=28B470-1CC0 To: <sip:18774116706@172.30.238.49> Date: Thu, 10 Sep 2020 06:02:45 GMT Call-ID: 1462FCC6-F26211EA-813AE871- 299EC8ED@17.0.44.11 Supported: timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: <sip:88882614@17.0.44.11>;privacy=off; reason-unconditional,screen=no Content-Length: 0</pre>	<pre>INVITE sip:18774116706@172.30.238.49:5060 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bKD23DB From: <sip:8152456266@17.0.44.11>;tag=28B470-1CC0 To: <sip:18774116706@172.30.238.49> Date: Thu, 10 Sep 2020 06:02:45 GMT Call-ID: 1462FCC6-F26211EA-813AE871- 299EC8ED@17.0.44.11 Supported: timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: <sip:7042642614@17.0.44.11>;privacy=off;reason- unconditional,screen=no Content-Length: 0</pre>

ليوحتلا سار ةلازا

```
voice class sip-profiles 1
request INVITE sip-header Diversion remove
```

SIP-Profile:

```
voice class sip-profiles 1
request INVITE sip-header Diversion remove
```

Input Message	Output Message
<pre>INVITE sip:18774116706@172.30.238.49:5060 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bKD23DB From: <sip:8152456266@17.0.44.11>;tag=28B470-1CC0 To: <sip:18774116706@172.30.238.49> Date: Thu, 10 Sep 2020 06:02:45 GMT Call-ID: 1462FCC6-F26211EA-813AE871- 299EC8ED@17.0.44.11 Supported: timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Diversion: <sip:88882614@17.0.44.11>;privacy=off; reason-unconditional,screen=no Content-Length: 0</pre>	<pre>INVITE sip:18774116706@172.30.238.49:5060 SIP/2.0 Via: SIP/2.0/UDP 17.0.44.11:5060;branch=z9hG4bKD23DB From: <sip:8152456266@17.0.44.11>;tag=28B470-1CC0 To: <sip:18774116706@172.30.238.49> Date: Thu, 10 Sep 2020 06:02:45 GMT Call-ID: 1462FCC6-F26211EA-813AE871- 299EC8ED@17.0.44.11 Supported: timer,resource-priority,replaces,sdp-anat Min-SE: 1800 Content-Length: 0</pre>

رشن تاي لمع) ةي لحم ل ةباوب ل ي ف لصتم ل فرعمل ع قوم ل مقرر سن
(وكي روتروب و ادنكو ةدحتم ل تاي الولا ي ف Webex ءاعدت سا

User > Calling > Caller ID

Caller ID

Choose which information will be displayed when this User makes an outgoing call.

Caller ID Phone Number

- Direct Line: 9194381001, Ext 1001
- Location Number: +19194380841
- Assigned number from user's location

Caller ID First Name

User01



Caller ID Last Name

User01



```
voice service voip
sip
sip-profile inbound
```

```
voice class sip-profiles 201
rule 1 request INVITE sip-header From copy "< sip:(.*)@" u01
rule 2 request INVITE sip-header P-Asserted-Identity modify "< sip:.*@(.)>" "< sip:\u01@1>"
```

```
voice class tenant 200
sip-profiles 201 inbound
```


SIP-Profile:

```
voice class sip-profiles 201
rule 1 request INVITE sip-header From copy "<sip:(*)@>" u01
rule 2 request INVITE sip-header P-Asserted-Identity modify "<sip:.*@(.*)>" "<sip:\u01@1>"
```

Input Message	Output Message
INVITE sip:+19199614190@1.1.1.1:5061;transport=tls;dtg=rtplgw9687_lgu SIP/2.0 Via:SIP/2.0/TLS 139.177.65.12:8934;branch=z9hG4bKBroadworksSSE.-1.1.1.1V57722-0-100-973405068-1626801459363- From:"User01 User01"<sip:+19194380841@139.177.65.12;user=phone>;tag=973405068-1626801459363- To:<sip:+19199614190@90444895.cisco-bcld.com;user=phone> Call-ID:SSE1717393632007211706552365@139.177.65.12 CSeq:100 INVITE Contact:<sip:139.177.65.12:8934;transport=tls> P-Asserted-Identity:"User01 User01"<sip:+19194381001@10.21.0.214;user=phone>	INVITE sip:+19199614190@pstn.com:5080 SIP/2.0 Via: SIP/2.0/UDP 1.1.1.1:5060;branch=z9hG4bK13CA141F20 From: "User01 User01" <sip:+19194380841@pstn.com>;tag=CB0B7295-DB7 To: <sip:+19199614190@pstn.com> Date: Tue, 20 Jul 2021 17:59:26 GMT Call-ID: E50FFB7-E8BB11EB-B57BD6D5-6AE138B@1.1.1.1 Contact: <sip:+19194380841@1.1.1.1:5060> Allow-Events: telephone-event Max-Forwards: 68 P-Asserted-Identity: "User01 User01" <sip:+19194380841@1.1.1.1>

ةلم تحملا اياضقلا

اهت هجاوم كنكمي يتلا ةلم تحملا تالكشمل اضعب يلي اميف

- SIP لئاسر ليدعتل SIP فيرعت فلم ةزيم مي دقت متي، 15.4 رادصلإا، Cisco IOS دعب اضيأ ةدراول
- رداصلإا هاجت ايف SIP تافيصوت ال مدقألا تارادصلإا او 15.3 رادصلإا، Cisco IOS معددي ال

ةلص تاذا تامولعم

[Cisco IOS و IOS-XE تاملاكم هي جوتل قمعت م حرش](#)

[IOS تاصنم صلح رداصلإا دراولا يف تاهلا بلطلا عارظن ةقباطم مهف](#)

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسم ل ا اذ ه Cisco ت مچرت
م ل ا ل ا ا ن ا ع مچ م ف ن م دخت س م ل م عد و ت م م م دقت ل ة م ش ب ل و
م ك ة ق ق د ن و ك ت ن ل ة ل ا ة مچرت ل ض ف ا ن ا ة ظ ح ا ل م م چ ر م . ة ص ا خ ل م ه ت غ ل ب
Cisco م ل خ ت . ف ر ت م م مچرت م ا ه م د ق م م ل ا ة م ف ا ر ت ح ا ل ا ة مچرت ل ا م ل ا ح ل ا و ه
ل ا ا م ا د ا د ع و چ ر ل ا ب م ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت م ل و ئ س م Cisco
Systems (ر ف و ت م ط ب ا ر ل ا) م ل ص ا ل ا م ل م ل ا ح ل ا ن ا ل ا دن ت س م ل ا