

# **Thunder Series for MobileIron Sentry**

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### 1 Overview

MobileIron Sentry is a component of a MobileIron deployment that interacts with your company's ActiveSync server, such as a Microsoft Exchange Server. The ActiveSync server allows employees to access to their email, contacts, calendar, tasks, and notes from their mobile devices. MobileIron Sentry, with input from the Virtual Smartphone Platform (VSP), protects the ActiveSync server from wrongful access from the devices.

MobileIron is an integrated Mobile Device Management (MDM) platform that covers device and data access management. MobileIron Sentry offers a standalone solution or a cloud service solution that can support all the major mobile operating systems, such as Blackberry, Symbian, and Windows. It supports both corporate-liable and individual-owned devices, offering true multi-OS management across the leading mobile OS platforms.

### 2 Deployment Guide Overview

This deployment guide shows how to install and configure the A10 Networks® Application Delivery Controller (ADC) with MobileIron Sentry servers. The A10 Thunder™ ADC and AX Series product lines offer additional security, reliability, and optimization features, such as: HTTP Compression, SSL Offload, and HTTP Connection Reuse, which are discussed in this deployment guide.

# 3 Deployment Guide Prerequisites

This MobileIron integration has the following prerequisites:

#### Tested ACOS configuration

- The A10 Networks AX Series ADC must be running on ACOS® version 2.6.x or higher (while the AX Series is is referenced throughout the guide, the Thunder Series ADC appliance can be used as well)
- · MobileIron Sentry has been tested with A10 hardware and virtual appliances.
- MobileIron device requirements
  - MobileIron Sentry
  - Running CentOS 6.4 (Operating System)
  - Running Sentry version 4.5 (or higher)
  - Apache 2.2 HTTP Server ("Apache" and "httpd")
  - Microsoft Exchange 2008 (or higher)
- Client Access (tested)
- All smart mobile devices have been tested and are supported (except Blackberry Z10)

**Note**: Generally, if the Mobilelron Sentry Virtual IP (VIP) is accessed from an external client, the AX device is deployed in routed mode. If the Mobilelron services are accessed internally, the AX device is deployed in one-arm mode. If the Mobilelron applications are accessed from both internal and external clients, then the AX device must be deployed in one-arm mode.

*Note*: For a list of additional deployment modes that the A10 device can support, please visit the following URL: <u>http://www.a10networks.com/products/axseries-load-balancing101.php</u>

### 4 Accessing the AX Series Load Balancer

This section describes how to access the AX Series device from a Command Line Interface (CLI) or Graphical User Interface (GUI):

- CLI The CLI is a text-based interface in which you type commands on a command line. You can access the CLI directly through the serial console or over the network using either of the following protocols:
  - Secure protocol Secure Shell (SSH) version 2
  - Unsecure protocol Telnet (if enabled)
- GUI This is a web-based interface in which you click buttons, menus and other graphical icons to access the configuration or management pages. From these pages, you can type or select values to configure or manage the device. You can access the GUI using the following protocol:

- Secure protocol – Hypertext Transfer Protocol over Secure Socket Layer (HTTPS)

Note: HTTP requests are redirected to HTTPS by default on the AX device.

#### Default Access Information:

- Default Username: "admin"
- Default password: "a10"
- Default IP Address of the device: "172.31.31.31"

(For detailed information on how to access the AX Series device, refer to the A10 Networks AX Series System Configuration and Administration Guide.)

### 5 Arcitecture Overview

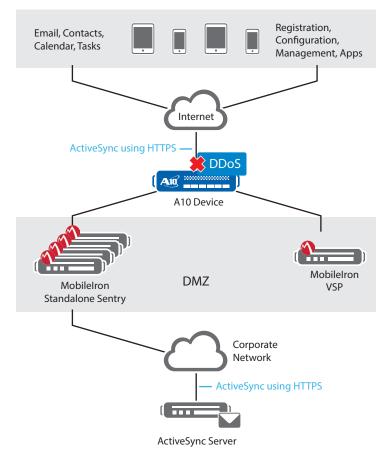


Figure 5: Configuration overview

### 6 Basic Configuration

This section contains detailed instructions for installing the real servers, service group, virtual services, and virtual services in a basic MobileIron Sentry server.

You must configure HA health monitoring. If your network topology is based on "one-arm" deployment, and internal clients reside on the same subnet as the virtual server for the MobileIron Sentry server, then IP Source Network Address Translation (SNAT) also is required.

Note: The Virtual Server is also known as the "Virtual IP" (or "VIP") that a client accesses during an initial request.

# 7 Health Monitor Configuration

The AX Series can be configured to automatically initiate health status checks for real servers and service ports. Health checks are used to assure that all requests are sent to functional and available servers. If a server or a port does not respond appropriately to a health check, then the server is temporarily removed from the list of available servers until it starts responding appropriately to the health checks. At this point, the server is automatically added back to the list of available servers.

To configure a health check on the AX device:

- 1. Navigate to Config Mode > SLB > Service
- 2. Select Add from the Health Monitor drop-down list. In the Name field, enter "MISHC".
- 3. Select Method "HTTPS".
- 4. Click OK, and then proceed to the next section to configure the Service Group.

Health Monitor	
Name: *	MISHC
Retry:	3
Consec Pass Req'd:	1
Interval:	5 Seconds
Timeout:	5 Seconds
Strictly Retry:	
Disable After Down:	
O Method	
Override IPv4:	
Override IPv6:	
Override Port:	
Method:	Internal     O External
Туре:	HTTPS 🗸
Port:	443

*Figure 6: Health monitor configuration* 

### 8 Source NAT Configuration

This section shows how to configure the IP Address pool to be used for IP Source Network Address Translation (SNAT). When incoming traffic from a client accesses the VIP address (for example: 192.168.2.100), the client requests are "source NAT-ed", which means that the AX device replaces the client's source IP address with an address from a pool of source NAT addresses. SNAT is required when your network topology is based on "one-arm" mode deployment and if you have internal clients that reside on the same subnet as the VIP.

Follow the procedure below to configure the address pool used in Source NAT.

- 1. Navigate to Config Mode> Service > IP Source NAT > IPv4 Pool.
- 2. Click Add.
- 3. Enter the following:
  - a. NAT: "MISNATPOOL"
  - b. Start IP Address: "192.0.2.100"
  - c. End IP Address: "192.0.2.100"
  - d. Netmask: "255.255.255.0"

IPv4 Pool		
Name: *	MISNATPOOL	
Start IP Address: *	192.0.2.100	
End IP Address: *	192.0.2.100	
Netmask: *	255.255.255.0	
Gateway:		
HA Group:	<b>•</b>	
IP-RR:		

#### Figure 7: Source NAT pool configuration

4. Click OK, then click Save to save the configuration.

Note: In the Virtual Service configuration section, you can apply the Source NAT pool to the VIP.

**Note**: When using the AX device in a High Availability (HA) configuration, an HA Group must be selected to prevent duplicate IP addresses from occurring within the Source NAT Pool.

### 9 Server Configuration

Follow the procedure below to configure the MobileIron Sentry on the AX Series.

- 1. Navigate to **Config Mode > Service > SLB > Server**.
- 2. Click **Add** to add a new server.
- 3. Within the Server section, enter the following required information:
  - a. Name: "MIS1"
  - b. IP address /Host: "192.0.2.4"

Note: Enter additional servers if necessary.

General	
Name: *	MIS1
IP Address/Host: *	192.0.2.4
GSLB External IP Address:	
Weight:	1
Health Monitor:	(default) -
Status:	Inabled Obsabled
Connection Limit:	8000000
Connection Resume:	
Slow Start:	
Spoofing Cache:	
Stats Data:	Enabled
Extended Stats:	Enabled     O     Enabled
Server Template:	default 👻

Figure 8: Server configuration

- 4. To add a port to the server configuration:
  - a. Enter the port number in the **Port** field.
  - b. Select the **Protocol**.
  - c. Click Add.

0	• Port												
Port:* 443 Protocol: TCP 🗸 Weight( <u>W</u> ):* 1 🔲 No SSL							💿 Add						
Connection Limit( <u>CL</u> ):8000000 🛛 Logging Connection Resume( <u>CR</u> ):								🥥 Update					
	Server Port Template(SPT): default   Stats Data(SD):   Enabled   Disabled								Delete				
	Healt	h Mor	nitor( <u>HM</u> )	: (def	ault)	•	© Fo	ollow Port	:	TCP	~		📀 Enable
	Exter	ided S	Stats( <u>ES</u> )	: O Enab	led 🔍 Disab	led							😣 Disable
			Port	Protocol	CL	CR	W	No SSL	SPT	НМ	SD	ES	
		0	443	TCP	8000000 🥑		1	8	default	(default)	0	8	

Figure 9: Server port configuration

5. Click OK, and then click Save to save the configuration.

### **10 Service Group Configuration**

Follow the procedure below to configure a service group.

- 1. Navigate to **Config Mode > Service > SLB > Service Group**.
- 2. Click Add.
- 3. Enter or select the following values:
  - a. Name: "MISGROUP"
  - b. Type: "TCP"
  - c. Algorithm: "Round Robin"
  - d. Health Monitor: "MISHC"
- 4. In the Server section, select a server from the Server drop-down list and enter "443" in the Port field.
- 5. Click Add. Repeat for each server.

Service Group	
Name: *	MISGROUP
Туре:	TCP 🔹
Algorithm:	Round Robin 👻
Health Monitor:	MISHC -
Min Active Members:	
	Send client reset when server selection fails
	Send log information on backup server events
Stats Data:	Enabled     Disabled
Extended Stats:	© Enabled
Description:	ł.

Figure 10: Service group configuration

Server				IPv4	IPv6		Port: *	443		O Add
	Server: * Server Port Template( <u>SPT</u> ):		default		-	Priority:	1	•	🥥 Update	
		Data	-	Enabled	O Disabl			Defender.	atota Data	Delete
			Server		Port	SPT		Priority	Stats Data	Senable
		$\bigcirc$	MIS1		443	default		1	<b>Ø</b>	😢 Disable

Figure 11: Server configuration

6. Click OK, then click Save to save the configuration.

# **11 Virtual Server Configuration**

This section contains the basic configuration for a Virtual Server. The Virtual Server is also known as the "Virtual IP" ("VIP") and is the IP address that a client accesses during an initial request.

- 1. Navigate to Config Mode > Service > SLB > Virtual Service.
- 2. In the General section, enter the name of the VIP and its IP address:
  - a. Name: "MISVIP"
  - b. IP Address: "203.0.113.200"

General						
Name: *	MISVIP 🔲 Wildcard					
IP Address or CIDR Subnet: *	203.0.113.200  IPv4  IPv6					
Status:	<ul> <li>Enabled</li> <li>Disabled When All Ports Down</li> <li>Disabled When Any Port Down</li> <li>Disabled</li> </ul>					
ARP Status:	Inabled Obsabled					
Stats Data:	Enabled Obisabled					
Extended Stats:	Enabled     Isabled					
Redistribution Flagged:						
HA Group:	▼					
Virtual Server Template:	default 👻					
Policy Template:	▼					
Description:	.#					

Figure 12: Virtual server (VIP) configuration

3. In the Port section, click Add.

Virtual Server Port	
Virtual Server:	MISVIP
Type: *	TCP
Port: *	443
Service Group:	MISGROUP -
Connection Limit:	■ 8000000
	Use default server selection when preferred method fails
	Use received hop for response
	Send client reset when server selection fails

#### Figure 13: Virtual-server port configuration

- 4. Select the following values:
  - a. Virtual Server: "TCP"

Note: The port number will be pre-selected after selecting the protocol type.

- b. Port: 443
- c. Address: MISVIP
- d. Service Group: "MISGROUP"
- 5. Click OK, then click Save to save the configuration.

### **12 Advanced Configuration**

This section contains the advanced configuration of the AX Series with MobileIron Sentry. The advanced configuration increases server performance with features such as SSL Offload, HTTP Connection Reuse, DDoS, and DNS Application Firewall.

The first step in the advanced configuration is to predefine all the optimization and performance features in configuration templates. Once all the performance features are defined in the templates, you can bind the features to the VIP.

**Note**: This section moves directly from the basic configuration into advanced configuration, based on the assumption that you already familiar with the basics of configuring the server, service group, virtual service, and virtual server.

# 13 SSL Offload

SSL Offload mitigates the performance impact associated with encrypting and decrypting traffic on a web server. SSL Offload is a performance optimization feature that enables a server to offload the SSL traffic to the AX Series. Additionally, SSL Offloads provides ease of administration; only the ADC requires an SSL certificate, as opposed to each server.

To configure AX SSL Offload for the MobileIron Sentry server, navigate to the MobileIron virtual service on the AX device, and change the virtual service type from 443 (TCP) to 443 (HTTPS).

- 1. Navigate to Config Mode > Service > SLB > Virtual Service.
- 2. Click on the service name.
- 3. Select "HTTPS" from the **Port** drop-down list.

**Note**: You also may want to change the name to correlate with the virtual port name. (As an example, the "\_203.0.113.200\_TCP\_443" service should be renamed "\_203.0.113.200\_HTTPS\_443" when updating the virtual port from TCP to HTTPS service type.)

**Note**: If you are using identity or device certificates, do not configure SSL Offload as the Sentry needs the certificate to determine who the user is and there is no way to pass the certificate from the AX to the Sentry.

Virtual Service		
Virtual Service: *	_10.0.0.200_HTTP_80	
Type: *	HTTP	
Port: *	HTTP HTTPS	
Address *	Fast-HTTP & TCP UDP	
HA Group:	RTSP	
Service Group:	MMS	
Connection Limit:	SSL-Proxy SMTP	C Logging
	SIP SIP-TCP	eferred method fails
	SIP-TLS	
	TCP-Proxy DNS-UDP	tion fails
Status:	Diameter	
SYN Cookie:	TFTP Others	

Figure 17: Virtual service configuration

### 13.1 Import or Generate the Server Certificate

Since the AX device acts as an HTTPS proxy for the MobileIron Sentry servers, the AX device must have a certificate from each server.

There are two options that must be configured when installing an SSL template from the AX Series:

- Option 1: Generate a self-signed certificate on the AX device.
- Option 2: Import an SSL certificate and key signed by a Certificate Authority (CA).

#### 13.1.1 Option 1: Generate a Self-Signed Certificate

- 1. Navigate to Config Mode > Service > SSL Management > Certificate.
- 2. Click Create.
- 3. Enter the File Name of the certificate, "MISCERT".
- 4. From the Issuer drop-down list, select "Self".
- 5. Enter the following values:
  - a. Common Name: "AS"
  - b. Division: "A10"
  - c. Organization: "A10"
  - d. Locality: "San Jose"
  - e. State or Province: "CA"
  - f. Country: "USA"
  - g. Email Address: "misadmin@example.com"
  - h. Valid Days: "730" (Default)
  - i. Key Size (Bits): "2048"

Note: The AX Series supports 512-bit, 1028-bit, 2048-bit, and 4096-bit keys.

General	
File Name: *	MISCERT
Certificate	
Issuer:	Self -
Common Name: *	MIS
Division:	410
Organization:	A10
Locality:	SanJose
State or Province:	CA
Country (C): *	United States of America US
Email Address:	misadmin@example.com
Valid Days:	730 days
🔿 Key	
Key Size:	2048 - Bits

#### Figure 18: Self-signed certificate configuration

6. Click OK, then click Save to save the configuration.

#### 13.1.2 Oprtion 2: Import the Certificate and Key

- 1. Navigate to Config Mode > Service > SSL Management > Certificate.
- 2. Click Import.
- 3. Enter the Name, "MISCERT".
- 4. Select "Local" or "Remote", depending on the file location.
- 5. Enter the certificate Password (if applicable).
- 6. Enter or select file location and access settings.
- 7. Click OK.

**Note**: If you are importing a CA-signed certificate for which you used the AX device to generate the CSR, you do not need to import the key. The key is automatically generated on the AX device when you generate the CSR.

Import	
Name: *	MISCERT
Import Certificate from:	Local Creater Content Conte
Certificate Format:	PFX 🔻
Password:	•••
Certificate Source:	C:\MISCERT.pfx.bxt Browse_

Figure 19: SSL certificate import

8. Click OK, and then click Save to save the configuration.

### 13.2 Configure and Apply Client SSL Template

This section describes how to configure a client SSL template and apply it to the VIP.

- 1. Navigate to Config Mode > Service > Template > SSL > Client SSL.
- 2. Click Add.
- 3. Enter or select the following values:
  - a. Name: "Client SSL-MIS"
  - b. Certificate Name: "MISCERT"
  - c. Key Name: "MISCERT"
  - d. Pass Phrase: "example"
  - e. Confirm Pass Phrase: "example"

Client SSL		
Name: *	Client SSL-MIS	
Certificate Name:	MISCERT -	-
Chain Cert Name:		•
Key Name:	MISCERT -	-
Pass Phrase:	•••	
Confirm Pass Phrase:	•••	
Cache Size:	0	
SSL False Start:	Enabled Disabled	

Figure 20: Client SSL template

Once the Client SSL template is completed, you must bind the template to the HTTPS VIP (port 443), as follows:

- 1. Navigate to **Config Mode > Service > SLB > Virtual Server**.
- 2. Click on the virtual server name.
- 3. Select "443" and click Edit.
- 4. Apply the Client SSL template created by selecting it from the Client-SSL Template drop-down list.

RAM Caching Template:	<b>•</b>
Client-SSL Template:	Client SSL-MIS -
Server-SSL Template:	•

#### Figure 21: Client SSL template selection

5. Click OK, then click Save to save the configuration.

### **14 TCP Connection Reuse**

- 1. Navigate to Config Mode > Service > Template > Connection Reuse.
- 2. Click Add.
- 3. Enter Name: "MISconnectionreuse".

Connection Reuse		
Name: *	MISconnectionreuse	
Limit Per Server:	1000	
Timeout:	2400	Seconds
Keep Alive Connections:		

#### Figure 22: TCP Connection Reuse template

4. Click OK, then click Save to save the configuration.

**Note**: For the best connection reuse results, these are the recommend MobileIron Sentry Apache HTTP web server settings in the Apache httpd.conf file.

- KeepAlive On
- MaxKeepAliveRequests 0 or a high number such as 800+. The value 0 = unlimited.
- KeepAlive Timeout high value, 250+
- MaxRequestsPerChild 5000-10000

### **15 HTTP-to-HTTPS Redirect**

This section explains how to redirect MobileIron Sentry traffic that originates from HTTP (80) to HTTPS (443) using AX aFleX® scripts. aFleX is based on a standard scripting language, TCL, and enables the AX device to perform Layer 7 deep-packet inspection (DPI). For examples of aFleX scripts, please refer to the following URL: http://www.a10networks.com/products/axseries-aflex\_advanced\_scripting.php

As an example, one of the most commonly used aFleX scripts is the "HTTP redirect to HTTPS traffic" script. You can download additional aFleX script examples from the URL listed above.

#### To configure a transparent HTTPS redirect using aFleX:

- 1. Navigate to Config Mode > Service > aFleX
- 2. Create the aFleX script.
- 3. Configure a VIP with virtual service HTTP (port 80).
- 4. Apply the aFleX script to the virtual port on the VIP.

aFleX	
Name: *	MISRedirect
Definition: *	<pre>when HTTP_REQUEST { HTTP::redirect https://[HTTP::host][HTTP::uri] }</pre>

Figure 23: Redirect script

#### Redirect Script Copy and Paste:

```
when HTTP_REQUEST {
HTTP::redirect https://[HTTP::host][HTTP::uri]
}
Note: The aFleX script must be bound to virtual-server port 80.
```

# 16 Apply Optimization and Acceleration Feature Templates on VIP

After configuring the optimization and acceleration features, you must bind them to the virtual port on the VIP to place them into effect.

- 1. Navigate to Config Mode > Service > SLB > Virtual Service.
- 2. Click on the virtual service name.
- 3. Apply the features by selecting the templates from the applicable drop-down lists.

Client-SSL Template:	Client SSL-MIS -
Server-SSL Template:	<b>•</b>
Connection Reuse Template:	MISconnectionreuse -
TCP-Proxy Template:	•
Persistence Template Type:	Cookie Persistence Template 👻
Cookie Persistence Template:	miscookie 👻

Figure 24: Applying features

4. Click OK, then click Save to save the configuration.

# **17 Other Optional Features**

The AX Series adds another security layer for load balanced servers and applications. Adding to an in-depth defense strategy, key protections are architected into A10 device hardware and software.

A10 provides high-performance detection and prevention against distributed denial-of-service (DDoS) and protocol attacks that can cripple servers and take down applications. Since the AX Series is placed between the routers and data center resources, it is ideally positioned to detect and stop attacks directed at any data center server or application. Using specialized ASICs in select models, A10 can continue to inspect, stop, and redirect all application traffic at network speeds.

- 1. To install a standard set of DDoS mitigation features, navigate to Config Mode > Service > SLB > Global > DDoS Protection.
- 2. Select all the checkboxes for the DDoS Protection features you would like to activate.

DDos Protection				
Drop All	<ul><li>✓ IP Option</li><li>✓ TCP No Flags</li></ul>	Land Attack TCP SYN Fin	Ping-of-Death	✓ Frag
Out of Sequence:	10			
Zero Window:	10			
Bad Content:	10			

Figure 25: DDoS Protection

3. Click **OK** and then click **Save** to store your configuration changes.

For other DDoS protection mechanisms please refer to the standard Systems Configuration and Administration Guide.

### **18 Summary and Conclusion**

The sections above show how to deploy the ACOS device for optimization of MobileIron Sentry servers. By using the ACOS device to load balance traffic across a pool of MobileIron servers, the following key advantages are achieved:

- High availability for MobileIron servers helps prevent ActiveSync sessions failures, with no adverse impact on mobile access to applications.
- Seamless distribution of client traffic across multiple MobileIron servers for site scalability.
- Higher connection counts, faster end user responsiveness, and reduced MobileIron Sentry server CPU utilization by initiating SSL Offload, TCP Connection Reuse, and DDoS mitigation.
- Improved site performance and reliability to end users by deploying DDoS mitigation features from A10 Networks.

By using A10 Networks Thunder ADC or AX Series line of Application Delivery Controllers, significant benefits are achieved for all MobileIron Sentry ActiveSync users. For more information about A10 Networks products, please refer to the following URLs:

http://www.a10networks.com/products/axseries.php

http://www.a10networks.com/products/thunder-application-delivery-controller.php

http://www.a10networks.com/resources/solutionsheets.php

http://www.a10networks.com/resources/casestudies.php

### A. CLI Commands for Sample Basic Configuration

The following sections show the CLI commands for implementing the sample configurations described above:

```
hostname basmis
ip nat pool MISNATPOOL 192.0.2.100 192.0.2.100 netmask /24
health monitor MISHC
method tcp
slb server MIS1 192.0.2.4
  port 443 tcp
slb server MIS2 192.0.2.5
  port 443 tcp
slb service-group MISGROUP tcp
   health-check MISHC
   member MIS1:443
   member MIS2:443
slb template connection-reuse MISconnectionreuse
slb virtual-server MISVIP 203.0.113.200
  port 443 tcp
     name 203.0.113.200 HTTPS 443
      source-nat pool MISNATPOOL
      service-group MISGROUP
```

### **B. CLI Commands for Sample Advanced Configuration**

```
hostname advmis
ip nat pool MISNATPOOL 192.0.2.100 192.0.2.100 netmask /24
health monitor MISHC
method https
ip anomaly-drop frag
ip anomaly-drop ip-option
 ip anomaly-drop tcp-no-flag
ip anomaly-drop tcp-syn-fin
ip anomaly-drop tcp-syn-frag
ip anomaly-drop ping-of-death
ip anomaly-drop land-attack
slb server MIS1 192.0.2.4
  port 443 tcp
slb server MIS2 192.0.2.5
  port 443 tcp
slb service-group MISGROUP tcp
   health-check MISHC
   member MIS1:443
   member MIS2:443
slb template connection-reuse MISconnectionreuse
slb template tcp-proxy test
   receive-buffer 512000109
slb template client-ssl "Client SSL-MIS"
  cert MISCERT
   key MISCERT pass-phrase encrypted
XL6aAvKM5xQ8EIy41dsA5zwQjLjV2wDnPBCMuNXbAOc8EIy41dsA5zwQjLjV2wDn
slb virtual-server MISVIP 203.0.113.200
  port 443 https
     name 203.0.113.200 HTTPS 443
      source-nat pool MISNATPOOL
      service-group MISGROUP
      template client-ssl "Client SSL-MIS"
      template connection-reuse MISconnectionreuse
```

### **About A10 Networks**

A10 Networks is a leader in application networking, providing a range of high-performance application networking solutions that help organizations ensure that their data center applications and networks remain highly available, accelerated and secure. Founded in 2004, A10 Networks is based in San Jose, California, and serves customers globally with offices worldwide. For more information, visit: **www.a10networks.com** 

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