FORTINET

DATA SHEET

FortiAuthenticator™

Available in:

| Appliance | Virtual Machine | Hosted | Cloud |

User Identity Management and Single Sign-On

Enterprise Network Identity Policy

Network and Internet access is key for almost every role within the enterprise; however, this requirement must be balanced with the risk that it brings. The key objective of every enterprise is to provide secure but controlled network access enabling the right person the right access at the right time, without compromising on security.

Fortinet Single Sign-On is the method of providing secure identity and role-based access to the Fortinet connected network. Through integration with existing Active Directory or LDAP authentication systems, it enables enterprise user identity-based security without impeding the user or generating work for network administrators.

FortiAuthenticator builds on the foundations of Fortinet Single Sign-on, adding a greater range of user identification methods and greater scalability. FortiAuthenticator is the gatekeeper of authorization into the Fortinet secured enterprise network identifying users, querying access permissions from third party systems, and communicating this information to FortiGate devices for use in Identity-Based Policies.

FortiAuthenticator delivers transparent identification via wide range of methods:

- Polling an Active Directory Domain Controller
- Integration with FortiAuthenticator Single Sign-On Mobility Agent which detects login, IP address changes, and logout
- FSSO Portal-based authentication with tracking widgets to reduce the need for repeated authentications
- Monitoring RADIUS Accounting Start records

FSSO Features

- Enables identity and role-based security policies in the Fortinet secured enterprise network without the need for additional authentication through integration with Active Directory
- Strengthens enterprise security by simplifying and centralizing the management of user identity information
- Secure Multi-factor/OTP Authentication with full support for FortiToken
- RADIUS and LDAP Authentication
- Certificate management for enterprise VPN deployment
- IEEE802.1X support for wired and wireless network security
- SAML SP/IdP Web SSO

HIGHLIGHTS

Key Features and Benefits

|		
	FSSO Transparent User Identification	Zero impact for enterprise users
	Integration with LDAP and AD for group membership	Utilizes existing systems for network authorization information, reducing deployment times and streamlining management processes. Integration with existing procedures for user management
	Wide range of user identification methods	Flexible user identification methods for integration with the most diverse enterprise environments
	Enablement of identity and role-based security	Allows security administrator to give users access to the relevant network and application resources appropriate to their role, while retaining control and minimizing risk

FortiAuthenticator Single Sign-On User Identification Methods

FortiAuthenticator can identify users through a varied range of methods and integrate with third party LDAP or Active Directory systems to apply group or role data to the user and communicate with FortiGate for use in Identity-based policies. FortiAuthenticator is completely flexible and can utilize these methods in combination. For example, in a large enterprise, AD polling or FortiAuthenticator SSO Mobility Agent may be chosen as the primary method for transparent authentication with fallback to the portal for non-domain systems or guest users.
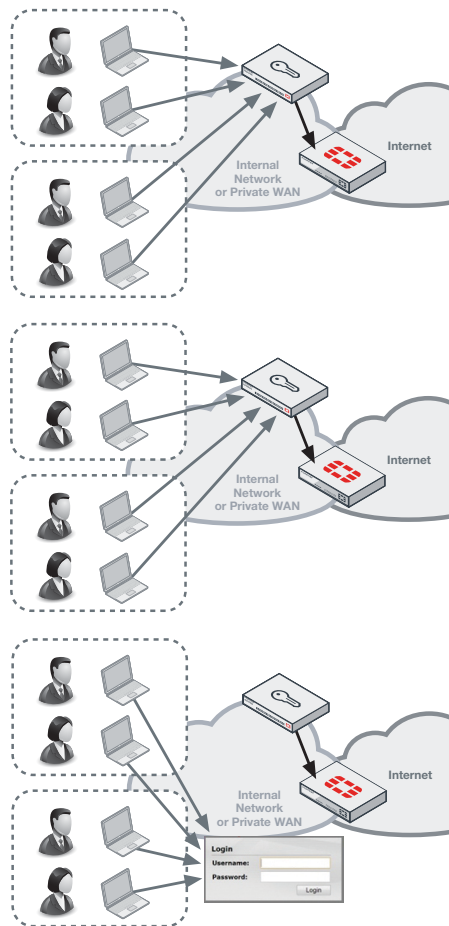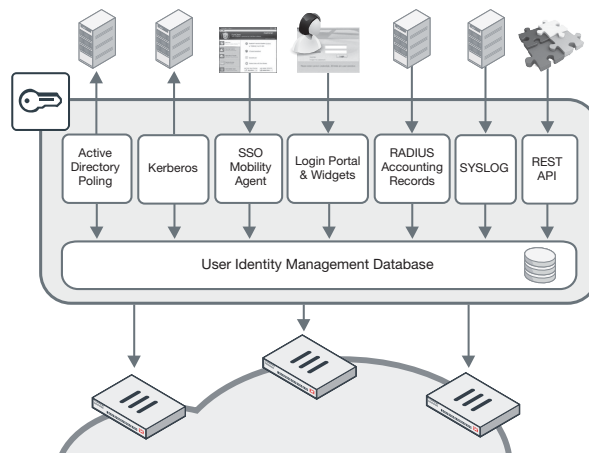
Active Directory Polling

User authentication into an active directory is detected by regularly polling domain controllers. When a user login is detected, the username, IP, and group details are entered into the FortiAuthenticator User Identity Management Database and according to the local policy, can be shared with multiple FortiGate devices.

FortiAuthenticator SSO Mobility Agent

For complicated distributed domain architectures where the polling of domain controllers is not feasible or desired, an alternative is the FortiAuthenticator SSO Client. Distributed as part of FortiClient or as a standalone installation for Windows PCs, the client communicates login, IP stack changes (Wired > Wireless, wireless network roaming), and logout events to the FortiAuthenticator, removing the need for polling methods.

FortiAuthenticator Portal and Widgets

For systems that do not support AD polling or where a client is not feasible, FortiAuthenticator provides an explicit authentication portal. This portal allows the users to manually authenticate to the FortiAuthenticator and subsequently into the network. To minimize the impact of repeated logins required for manual authentication, a set of widgets is provided for embedding into an organization's intranet that automatically logs the users in with browser cookies whenever they access the intranet homepage.

HIGHLIGHTS
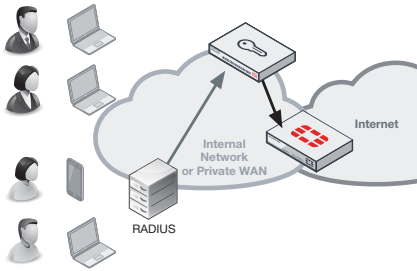
RADIUS Accounting Login

In a network that utilizes RADIUS authentication (e.g. wireless or VPN authentication), RADIUS Accounting can be used as a user identification method. This information is used to trigger user login and to provide IP and group information, removing the need for a second tier of authentication.

Additional Functionality

Strong User Identity with Multi-factor Authentication

FortiAuthenticator extends multi-factor authentication capability to multiple FortiGate appliances and to third party solutions that support RADIUS or LDAP authentication. User identity information from FortiAuthenticator combined with authentication information from FortiToken ensures that only authorized individuals are granted access to your organization's sensitive information. This additional layer of security greatly reduces the possibility of data leaks while helping companies meet audit requirements associated with government and business privacy regulations.

FortiAuthenticator supports the widest range of tokens possible to suit your user requirements. With the physical time-based FortiToken 200, FortiToken Mobile (for iOS and Android), e-mail and SMS tokens, FortiAuthenticator has token options for all users and scenarios. Multi-factor authentication can be used to control access to applications such as FortiGate management, SSL and IPsec VPN, Wireless Captive Portal login and third party, RADIUS compliant networking equipment.

To streamline local user management, FortiAuthenticator includes user self-registration and password recovery features.

Enterprise Certificate-based VPNs

Site-to-site VPNs often provide access direct to the heart of the enterprise network from many remote locations. Often these VPNs are secured simply by a pre-shared key, which, if compromised, could give access to the whole network. FortiOS support certificate-based VPNs; however, the use of certificate secured VPNs has been limited, primarily due to the overhead and complexity introduced by certificate management. FortiAuthenticator removes this overhead involved by streamlining the bulk deployment of certificates for VPN use in a FortiGate environment by cooperating with FortiManager for the configuration and automating the secure certificate delivery via the SCEP protocol.

For client-based certificate VPNs, certificates can be created and stored on the FortiToken 300 USB Certificate store. This secure, pin protected certificate store is compatible with FortiClient and can be used to enhance the security of client VPN connections in conjunction with FortiAuthenticator.

Additional Features and Benefits

RADIUS and LDAP User Authentication	Local Authentication database with RADIUS and LDAP interfaces centralizes user management
Wide Range of Strong Authentication Methods	Strong authentication provided by FortiAuthenticator via hardware tokens, e-mail, SMS, e-mail and digital certificates help to enhance password security and mitigate the risk of password disclosure, replay, or brute forcing
User Self-registration and Password Recovery	Reduces the need for administrator intervention by allowing the user to perform their own registration and resolve their own password issues, which also improves user satisfaction
Integration with Active Directory and LDAP	Integration with existing directory simplifies deployment, speeds up installation times, and reutilizes existing development
Certificate Management	Streamlined certificate management enables rapid, cost-effective deployment of certificate-based authentication methods such as VPN
802.1X Authentication	Deliver enterprise port access control to validate users connection to the LAN and Wireless LAN to prevent unauthorized access to the network

SPECIFICATIONS

FORTIAUTHENTICATOR MODEL NO.	FAC-300F	FAC-800F
Hardware		
10/100/1000 Interfaces (Copper, RJ-45)	4	4
SFP Interfaces	0	2
Local Storage	2× 1TB Hard Disk Drive	2× 2 TB Hard Disk Drive
Power Supply	300W Redundant Auto Ranging (100V-240V), Optional Dual (1+1)	Dual (1+1) 300W Redundant Auto Ranging (100V–240V)
System Performance		
Local + Remote Users (Base / Upper Limit)	1,500 / 3500	8,000 / 18,000
FortiTokens	3,000	16,000
RADIUS Clients (NAS Devices)	500	2,666
User Groups	150	800
CA Certificates	10	50
User Certificates	7,500	40,000
Dimensions		
Height x Width x Length (inches)	1.75 × 17.0 × 15.04	1.75 × 17.0 × 27.61
Height x Width x Length (mm)	44 × 438 × 422	44 × 438 × 701.2
Weight	18.0 lbs (8.2 kg)	33.0 lbs (15.0 kg)
Environment		
Form Factor	Rack Mountable (1RU)	Rack Mountable (1RU)
Power Source	100-240 VAC, 50/60 Hz 300W Redundant (1+0)	100–240V AC, 50/60 Hz
Maximum Current	5A /100V, 2.5A /240V	5A /100V, 2.5A /240V
Power Consumption (Average)	82.35 W	154 W
Heat Dissipation	482 BTU/h	703 BTU/h
Operating Temperature	32–104°F (0–40°C)	32–104°F (0–40°C)
Storage Temperature	-4°F–158°F (-20°C–70°C)	-4°F–158°F (-20°C–70°C)
Humidity	5–90% non-condensing	5–95% non-condensing
System		
Standards Supported	10/100/1000 Base-TX (GE), IP, Telnet, HTTP 1.0/1.1, SSL, RS232, NTP Client (RFC1305), RADIUS (RFC2865), LDAP (RFC4510), x.509 (RFC5280), Certificate Revocation (RFC3280), PKCS#12 Certificate Import, PKCS#10 CSR Import (RFC2986), Online Certificate Status Protocol (RFC 2560), EAP-TLS (RFC2716), Simple Certificate Enrollment Protocol (SCEP), oAuth, and SAML2.0	
Management	CLI, Direct Console DB9 CLI, HTTPS	
High Availability	Active-Passive HA and Config Sync HA	
Compliance		
Safety	FCC Part 15 Class A, RCM, VCCI, CE, UL/cUL, CB	FCC Part 15 Class A, RCM, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST

FortiAuthenticator 300F

FortiAuthenticator 800F

SPECIFICATIONS

FORTIAUTHENTICATOR MODEL NO.	FAC-2000E	FAC-3000E
Hardware		
10/100/1000 Interfaces (Copper, RJ-45)	4	4
SFP Interfaces	2	2
Local Storage	2× 2 TB SAS Drive	2× 2 TB SAS Drive
Power Supply	Dual (1+1) 740W Auto Ranging (100V–240V)	Dual (1+1) 1000W Auto Ranging (100V–240V)
System Performance		
Total Users (Local + Remote)	20,000	40,000
FortiTokens	40,000	80,000
RADIUS Clients (NAS Devices)	6,666	13,333
User Groups	2,000	4,000
CA Certificates	50	50
User Certificates	100,000	200,000
Dimensions		
Height x Width x Length (inches)	3.50 × 17.20 × 25.50	3.50 × 17.20 × 25.50
Height x Width x Length (mm)	89 × 437 × 647	89 × 437 × 647
Weight	32.0 lbs (14.5 kg)	40.0 lbs (18.6 kg)
Environment		
Form Factor	Rack Mountable (2 RU)	Rack Mountable (2 RU)
Power Source	100–240V AC, 50–60 Hz	100–240V AC, 50–60 Hz
Maximum Current	10A /110V, 4A /220V	10A /110V, 5A /220V
Power Consumption (Average)	189 W	347 W
Heat Dissipation	781 BTU/h	1325 BTU/h
Operating Temperature	41–95°F (5–35°C)	50–95°F (10–35°C)
Storage Temperature	-40–140°F (-40–60°C)	-40–158°F (-40–70°C)
Humidity	8–90% non-condensing	8–90% non-condensing
System		
Standards Supported	10/100/1000 Base-TX (GE), IP, Telnet, HTTP 1.0/1.1, SSL, RS232, NTP Client (RFC1305), RADIUS (RFC2865), LDAP (RFC4510), x.509 (RFC5280), Certificate Revocation (RFC3280), PKCS#12 Certificate Import, PKCS#10 CSR Import (RFC2986), Online Certificate Status Protocol (RFC 2560), EAP-TLS (RFC2716), Simple Certificate Enrollment Protocol (SCEP), oAuth and SAML2.0	
Management	CLI, Direct Console DB9 CLI, HTTPS	CLI, Direct Console DB9 CLI, HTTPS
High Availability	Active-Passive HA and Config Sync HA	Active-Passive HA and Config Sync HA
Compliance		
Safety	FCC, ICES, CE, RCM, VCCI, BSMI, UL, CB	FCC Part 15 Class A, RCM, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST

FortiAuthenticator 2000E

FortiAuthenticator 3000E

FortiAuthenticator Virtual Appliance

VIRTUAL APPLIANCES	FAC-VM BASE	FAC-VM-100-UG	FAC-VM-1000-UG	FAC-VM-10000-UG
Capacity				
Local Users	100	+100	+1,000	+10,000
Remote Users	100	+100	+1,000	+10,000
FortiTokens	200	+200	+2,000	+20,000
NAS Devices	33	+33	+333	+3,333
User Groups	10	+10	+100	+1,000
CA Certificates	5	+5	+50	+500
User Certificates	100	+500	+5,000	+50,000
Virtual Machine				
Hypervisors Supported	VMware ESXi/ ESX 4/ 5/ 6, Microsoft Hyper-V Server 2010, 2012 R2, and 2016, KVM, Xen, Microsoft Azure, AWS, Oracle OCI, Alibaba Cloud			
Maximum Virtual CPUs Supported	64			
Virtual NICs Required (Minimum / Maximum)	1 / 4			
Virtual Machine Storage (Minimum / Maximum)	60 GB / 16 TB			
Virtual Machine Memory Required (Minimum / Maximum)	2 GB / 1 TB			
High Availability Support	Active-Passive HA and Config Sync HA			

ORDER INFORMATION

PRODUCT	SKU	DESCRIPTION
FortiAuthenticator 300F	FAC-300F	4x GE RJ45 ports, 2× 1 TB HDD
FortiAuthenticator 800F	FAC-800F	4x GE RJ45 ports, 2x GE SFP, 2× 2 TB HDD.
FortiAuthenticator 2000E	FAC-2000E	4x GE RJ45 ports, 2x GE SFP, 2× 2 TB SAS Drive.
FortiAuthenticator 3000E	FAC-3000E	4x GE RJ45 ports, 2x GE SFP, 2× 2 TB SAS Drive.
FortiAuthenticator-VM License	FAC-VM-Base	Base FortiAuthenticator-VM with 100 user license. Unlimited vCPU.
	FAC-VM-100-UG	FortiAuthenticator-VM 100 user license upgrade.
	FAC-VM-1000-UG	FortiAuthenticator-VM 1,000 user license upgrade.
	FAC-VM-10000-UG	FortiAuthenticator-VM 10,000 user license upgrade.
	FC1-10-0ACVM-248-02-12	1 Year 24×7 FortiCare Contract (1–500 users).
	FC2-10-0ACVM-248-02-12	1 Year 24×7 FortiCare Contract (1–1100 users).
	FC3-10-0ACVM-248-02-12	1 Year 24×7 FortiCare Contract (1–5100 users).
	FC4-10-0ACVM-248-02-12	1 Year 24×7 FortiCare Contract (1–10100 users).
	FC8-10-0ACVM-248-02-12	1 Year 24×7 FortiCare Contract (1–25100 users).
	FC5-10-0ACVM-248-02-12	1 Year 24×7 FortiCare Contract (1–50100 users).
	FC6-10-0ACVM-248-02-12	1 Year 24×7 FortiCare Contract (1–100100 users).
	FC9-10-0ACVM-248-02-12	1 Year 24×7 FortiCare Contract (1–500100 users).
	FC7-10-0ACVM-248-02-12	1 Year 24×7 FortiCare Contract (1–1M users).
FortiClient SSO License for FortiAuthenticator	FCC-FAC2K-LIC	FortiAuthenticator FortiClient SSO Mobility Agent License for 2,000 FortiClient connections (does not include FortiClient Endpoint Control License for FortiGate)
	FCC-FAC10K-LIC	FortiAuthenticator FortiClient SSO Mobility Agent License for 10,000 FortiClient connections (does not include FortiClient Endpoint Control License for FortiGate)
	FCC-FACUNL-LIC	FortiAuthenticator FortiClient SSO Mobility Agent License for unlimited FortiClient connections(does not include FortiClient Endpoint Control License for FortiGate)
Hardware Upgrade Licenses for FAC-300F and FAC-800F	FAC-HW-100UG	FortiAuthenticator 300F or 800F, 100 user upgrade
	FAC-HW-1000UG	FortiAuthenticator 300F or 800F, 1000 user upgrade
	FAC-HW-10KUG	FortiAuthenticator 800F, 10,000 user upgrade
Optional Accessories		
Power Supplies	SP-FML900F-PS	AC power supply for FAC-300F.
	SP-FML900F-PS	AC power supply for FAC-800F.
	SP-FML2000E-PS	AC power supply for FAC-2000E.
	SP-FML3000E-PS	AC power supply for FAC-3000E.

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