



# IOT Devices & BYOD changing what is on your network -How to Gain Visibility and Protection

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# Architecture, Deployment, & Configuration



### Watching every node on the Network



### **Architecture and Deployment**





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# **FortiNAC Configuration**

**Comprehensive Network Security** 



### Visibility

- Discover all endpoints, IoT devices, users, and applications
  - Inputs from RADIUS, CLI, SNMP, syslog, MDM, DHCP, LDAP
  - Can interact more than 2,300 network devices
- Multi-vendor wired and wireless Connectivity
  - · Inputs from virtually all vendors and models
- · Identify and profile every endpoint
  - Enables policy rules created by granular device type
  - Extends vulnerability and patch management to non FortiClient users
  - Leverages FortiGate for passive identification via traffic scanning
- Self-registration to simplify guest management



# **Visibility: Agentless Data Collection**

### Information Gathered from Multiple Sources







# **Providing Endpoint Visibility**

- Who: User
  - Current logged on user
  - Owner: BYOD, guest, contractor
- What: Host/device
  - Network adapter
    - Physical and IP address
    - Media type
    - Vendor
  - Host name
  - Operating system
  - Applications
- Where: Location
- When: Connection times



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# **Enhanced Visibility**

### **Endpoint Identification**

**Corporate Devices** 



### Internet of Things



#### **Operational Technologies**



### Device Classification

- Automatic or manual
  - > Sponsor notification
- Device type
- Confirm on connect
- Disable if confirmation fails

### **18 Profiling Methods**

 More methods = Higher Trust





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## **MDM Integration**

- Synchronize FortiNAC with an MDM
  - Retrieve MDM known hosts
  - Receive MDM host updates
- Mobile device and user association
- Apply security policies
- MDM host view data columns

Modify MD	M Service	X
MDM Vendor:	Fortinet EMS •	Ø
Name:	FortiNAC EMS Server Integration	Ø
Request URL	https://fortinac-ems	ø
User ID:	jhilfiker	0
Password:	jhi03825! Hide	ø
Enable On	Demand Registration	0
Revalic Revalic	late Health Status on Connect	<b>e</b>
Enable Ap	plication Updating	ĕ
Enable Au	tomatic Registration Polling 1 Hours V	ø
	OK	Cancel



## **FortiNAC**

### **Comprehensive Network Security**

### Control

- Automated authentication and authorization
  - Detailed user and device profiles enable automated entry to network
  - · Evaluate role, location, time of day, and device metrics for decisions
- Dynamic network access control
  - · Adjust device access to assets based on changes in activity or profile
- Enable network micro-segmentation
  - · Granular device identification enables thinly sliced networks
  - · Devices have limited access to prevent east-west infection



### **Control: Dynamic Network Access**



## **Pre-Connect Host Evaluation and Onboarding**

- Device isolation
  - Unknown devices can be isolated
  - Devices that fail posture evaluation can be isolated
  - Devices that are administratively denied access can be isolated
- Onboarding
  - User authentication
  - Posture evaluation
  - Customized portal





## Post Connect Control

- The FortiNAC policy engine continuously evaluates endpoints
- Security policies can:
  - Use who, what, where, and when information to dynamically provision the appropriate access
  - Validate endpoint security posture and isolate if necessary





## **Profiles**

- Connected and connecting hosts are continuously evaluated against user/host profiles keying on:
  - Where
  - Who
  - What
  - When
- User/host profiles are components of security policies

Add Network Access Pol	icy	×
Name:	Contractor Access - Wired	
User/Host Profile:	Contractor Production - Wired 🗸 📄 🌌	
Network Access Configuration:	Contractor Production - Wired VLAN 🗸 🔜 🌌	
Note:	Provisions all contractors to the appropriate VLAN when they connect via a wired interface	
	ОК	Cancel

Name:	Contractor Production - Wired	]
Where (Location):	Chicago Wired Ports	Select
Who/What by Group:	Any	Select
	Host [Role: Contractor]	
Who/What by Attribute:		Add Modify Delete
	+	
When:	Specify Time ▼ Edit Time M,Tu,W,Th,F 8:00 AM - 6:00 PM	
Note:	Contractor access on wired ports in Chicago facility. Allows access weekdays 8am-6pm only.	

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## **Logical Networks**

- Logical network segmentation for access policies
- Centralized device configurations
- Device-specific network access values per logical network
- Associates configuration to device(s)
- Globalization Network control manager

Logical networks are an abstraction layer between a user-created name and a defined access value





# **FortiNAC**

**Comprehensive Network Security** 



### **Automated Response**

- Bridge the SOC and NOC
  - Security events move from detection to remediation immediately
- · Rapid security event triage
  - · Automated rules can respond in seconds to bad behavior
  - Anomaly detection of behavioral changes in communication patterns
- · Accelerate threat investigations
  - · Device history compiled from multiple sources is instantly available
- · Granular containment options
  - For example, quarantine or internet-only connectivity





### **Security Automation and Orchestration**

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## **Advance Policies with Trust/Risk Indicators**



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### **Alert and Contextual Information** Host Information

### Security Alert



Field	Value
Vendor	Fortinet
Туре	Threat
Sub Type	Virus
Threat ID	32423
Description	HTTP non RFC- compliant response found
Severity	Critical
IP Address	192.168.102.53



Field	Value
Host Name	Johns PC
Operating System	Windows 10
Adapter Physical Address	00:01:02:04:04:05
IP Address	192.168.102.53
Location	Switch-2 Port 8
IP Address	192.168.1.100

### **User Information**



Field	Value
First Name	John
Last Name	Doe
Role	Contractor
Email	j <u>doe@example.</u> <u>com</u>
Phone	603 717-XXXX
Role	Engineering Contractor

### **Security Rules**

- Ranked security rules process incoming security alerts
- User and end station information is correlated with the security event information
- Workflows including notification and containment actions can be automated

Add Security R	Rule	×
Rule Enabled		ø
Name:	Corporate Code Red	0
Trigger:	Code Red Threat 🗸 🔜 🌌	0
User/Host Profile:	Match 🗸 Corporate Asset 🗸 🔜 🌌	0
Action:	Automatic 🗸 Code Red Response 🗸 🔒 🌌	0
🗹 Send Email wh	en Rule is Matched	0
Admin Group:	HelpDesk ~	
Send Email wh	en Action is Taken	0
Admin Group:	All Management Group ~	
	ОК	Cancel



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# **FortiNAC Management**

### Active Dashboard

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Version



## **FortiNAC Management**

### Easy to Navigate Settings

<b>FortiNAC-VM</b> -CA ★ Se	tings	🗶 😥 🛛 🗶 👔 🖉 Kara kara kara kara kara kara kara kara
Bookmarks 🔻 Users 👻 Hosts	Network Devices ▼ Logs ▼ Policy ▼ System ▼ Help ▼	
+ Expand All Collapse All	Authentication	
<ul> <li>Authentication</li> <li>Control</li> <li>Control</li> <li>Control</li> <li>Reports</li> <li>Security</li> <li>System Communication</li> <li>System Management</li> <li>System Horagement</li> <li>System Management</li> <li>System Management</li> <li>System Management</li> </ul>	Google         Use Google to configure the connection to authenticate using a Google account. Se         LDAP         Use LDAP to configure the connection to one or more authentication directories. Da demographic data for registered users.         RADIUS         Use RADIUS to configure the connection to one or more RADIUS servers for authentication         B         Use RADIUS         Use Roaming Guests         Use Roaming Guests to configure a list of local domains for your local network use qualified domain name that is not on this list are treated as Roaming Guests. Appli	e ta from the Directory populates the FortiNAC database with ntication. rs. Users who connect and attempt to authenticate with a fully es only to wireless 802.1x connections.



# **FortiNAC Management**

### Easy Network Access Policy Management

FortiNAC-VM-CA	★ Netv	vork Acces	s Policies		×	🙍   🔩 👔   Log Out
«	Bookma	arks 🔻 User	s▼ Hosts▼	Network Devices 🗸 🛛 Logs 🗸	Policy  System	Help 🔻
User/Host Profiles	Network	Access Policies	; - Total: 11			22
<ul> <li>Portal</li> </ul>	Rank: 👚	Set Rank	Enable: 🖌 🥝			
Configuration	Rank	Enabled	Name	Network Access Configuration	User/Host Profile	Note
	1	<b>v</b>	Corporate	Corporate Config	Facilities Device Profile	1
Authentication	2	<b>v</b>	BYOD	BYOD Config	BYOD Profile	ſ
Configuration	3	<b>v</b>	Guest	Guest Config	Guest Profile	ſ
	4	<b>v</b>	Printer	Printer Config	Printer Profile	1
Network Access	5	<b>√</b>	Camera	Camera Config	Camera Profile	1
Configuration	6	<b>√</b>	UPS	UPS Config	UPS Profile	1
Logical Networks	7	<b>v</b>	HR Computer NAC Policy	HR Config	HR Profile	ſ
	8	<b>v</b>	Isolate	Isolate Config	Isolate Profile	ſ
Endpoint Compliance	9	<b>v</b>	Facilities	Facilities Config	Facilities Profile	ſ
Configuration	10	<b>v</b>	Contractor	Contractor	Contractor	1
Scans	11	<b>√</b>	Ticketing	Ticketing	Ticketing	r
Supplicant EasyConnect						
Configuration						
Security Rules						
Triggers						
Actions						



#### Database Views – Search & Filter & Export

	FortiNAC-VM-C/	A★Ad	lapter Viev	v								×		🧕   🕹 👔   Log O
Addition	(	K Bool	kmarks 🔻 🛛 L	Jsers 🔻 Hosts	<ul> <li>Network Devic</li> </ul>	es▼ Logs▼ Policy▼ System▼ Hel	p▼							
Het Wer       Umer Version       Control Holds       Contro Holds <thcontrol holds<="" th=""></thcontrol>	Adapter View	Adap	ters - Displayer	: 8105 Total: 12335	5									AC
Wert Mark       Auslik       Internet       Internet       Internet       State       Name       State       State       Name       State       State <td>Host View</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>an Contine United</td> <td></td>	Host View				-								an Contine United	
Control         Control <t< td=""><td>Lieer View</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>col Unine Hosts</td><td></td></t<>	Lieer View												col Unine Hosts	
Application View         State         Find Blass         P. Adde         Construction         Week Frame         Construction         Operating System         Host Name         Hist Name	osci vicu	<< first	t < prev 1	2 3 4 5 6	<u>7 8 9 next≥ l</u> :	ast >>   1000   ~							Shared Filters	
No.12       10/21/20       12/21/20       10	Application View	Status	Host Status	IP Address	Physical Address	Location	Vendor Name	Connecte	d Access Value	Host Created	Operating System	Host Name	5M-4190	S 10
Image: Control (Control (C		1	\$	10.21.26.142	00:E0:0D:E4:6B:79	M31YSEHIR3022SOLs01 Fa0/4	RADIANT SYSTEMS	M	1	07/13/19 07:43 PM EDT			Ca 5M-4190	
Image: No. 10.24.1212       0.90.99.37.35.45       MarySEHR302220L40 F Juli21       ALDIO CODES ITD       Mail       Image: No. 10.71.91.90.73.94.87       MarySEHR302220L40 F Juli21       Contain Registers       MarySEHR30220L40 F Juli21       MarySEHR30220L41 Juli21			Q	10.21.26.132	00:03:4F:07:4C:42	M31YSEHIR3022SOLs01 Fa0/23	Sur-Gard Security	м	1	07/07/19 05:20 PM EDT	ID Dhone		Ala SMUORPINKRKINSS28	
Image:											AudioCodes		Cash Registers	
Image: Section of the section of th			CB	10.241.212.2	00:90:8F:33:54:E9	M31YSEHIR3022SOLs01 Fa0/21	AUDIO CODES LTD.	M	1	07/07/19 04:40 PM EDT	embedded Apple		Voi Corporate Managed	×
No.       0119121430       005000501141 Fab19       NUME PlyTable       M       1       077319027 BPLEST       0770019025 PLEST       077019025 P											embedded HP		Guest	🔁 🗙 👘
Image: 10         10.21 26.00         00.0388/19/E0.201         MI 1000000000000000000000000000000000000		here	œ	10 21 26 142	00-E0-00-E5-70-49	M21XSEUID2022SOL e01 Ee0/19	PADIANT SYSTEMS	м	1	07/12/10 07:26 PM EDT	embedded		Huawei	🔁 🗙 🔚
Image: 10.241.21.4       0.247.9.4.21.4       0.057.9.4.3.4.3.9.4.3.9.2.5.9.4.0.1.5.9.2.0.1.5.0.0.0.1.5.0.0.0.1.5.0.0.0.1.5.0.0.0.1.5.0.0.0.1.5.0.0.0.1.5.0.0.0.1.5.0.0.0.0		in the second se	-	10.21.26.50	C8:CB:B8:19:E0:43	M31YSEHIR3022S0Es01Fa0/10	Hewlett Packard	M	1	07/07/19 04:57 PM EDT			Thi IP Phone	2 × 🔤
Image:       10/21/8 also       00.114/3002.001       M3195EHH302250Lo01 Fav015       DVTES ELEXTRONK       M       1       070719 045 PM EDT       Image:       MACupe		and a	10	10 241 212 14	CC:EE:48:A2:7E:3A	M31YSEHIR3022SOL s01 Ea0/17	Cisco Systems Inc	M	1	07/13/19 07:05 PM EDT			J07ASHISAR5930	📝 🗙 📔
Image: Market State         Content State         Market State         Marke		inter a		10.21.26.88	00:1F:43:00:23:D3	M31YSEHIR3022SOLs01 Fa0/16	ENTES ELEKTRONIK	M	1	07/07/19 04:58 PM EDT			Éle M-Rouge	🖉 🗶 📑
1       10.21.23.0       18.86.03.23.51.5.4       M3YSEHIR302201.031 Fa0/11       Delinc       N       1       0777/19 04.37 PHE DT       MM       M06KUNURC8202       P         1       10.212.86.0       00.037 ED 225.4       V3SEHIR302201.031 Fa0/16       VL/REGX C0       N       1       0777/19 04.37 PHE DT       P       M06KUNURC8202       M0175       M06KUNURC8202       M0175       M06KUNURC8202       M0175       M06KUNURC8202       M0175       M		and a	6	10.21.26.135	7C:1E:B3:00:92:CB	M31YSEHIR3022SOLs01 Fa0/13	2N TELEKOMUNIKACE a.s.	M	1	07/07/19 05:26 PM EDT			Ra M06KASMIRC6194	🖉 🗶 📄
Image: 10:21:26:60       08:00:37FED:24       M1YSEHR3022SOL401 Fa00       FULW-EROX CO, LTD.       M       1       070719 04:47 PM EDT       Phone       Phone       M04KOAUTKE2076       Image: 200 mm       Image: 200 mm <t< td=""><td></td><td>1000</td><td>-</td><td>10.21.26.3</td><td>18:66:DA:3C:81:5A</td><td>M31YSEHIR3022SOLs01 Fa0/11</td><td>Dell Inc.</td><td>M</td><td>1</td><td>07/07/19 04:35 PM EDT</td><td></td><td></td><td>Mic M06KLVANKR5202</td><td><u> </u></td></t<>		1000	-	10.21.26.3	18:66:DA:3C:81:5A	M31YSEHIR3022SOLs01 Fa0/11	Dell Inc.	M	1	07/07/19 04:35 PM EDT			Mic M06KLVANKR5202	<u> </u>
Image         Image <th< td=""><td></td><td>192</td><td><u> </u></td><td>10.21.26.60</td><td>08:00:37:FE:D2:64</td><td>M31YSEHIR3022SOLs01 Fa0/9</td><td>FUJI-XEROX CO. LTD.</td><td>M</td><td>1</td><td>07/07/19 04:47 PM EDT</td><td></td><td></td><td>Pri M06KONUTKE2076</td><td><u> </u></td></th<>		192	<u> </u>	10.21.26.60	08:00:37:FE:D2:64	M31YSEHIR3022SOLs01 Fa0/9	FUJI-XEROX CO. LTD.	M	1	07/07/19 04:47 PM EDT			Pri M06KONUTKE2076	<u> </u>
Image         Image         10.21.26.141         00.E0.0D.ES.38.3C         M3YYSEHIR3022SOL.001 Fa0/7         RADIANT SYSTEMS         M         1         07/13/19 07.28 PH EDT         Cash Register           Image         10.241.217.242         00.90.9F.33.55.DD         M34CAFRAGA3296SOL.001 17         AUDIO CODES LTD.         M         1         07/01/19 09.43 AUE DT         MudeCodes embedded[PIP embedded]         MudeCodes embedded]         MudeCodes embedded[PIP embedded]         MudeCodes embedded]         MudeCodes embedded[PIP embedded]         MudeCodes embedded[PIP embedded]         MudeCodes embedded[PIP embedded]		1000	Ä	10.21.26.59	9C:93:4E:24:17:CA	M31YSEHIR3022SOLs01 Fa0/8	Xerox Corporation	м	1	07/07/19 05:10 PM EDT			Pri M06KUCUKES0390	A
Image:			\$	10.21.26.141	00:E0:0D:E5:36:3C	M31YSEHIR3022SOLs01 Fa0/7	RADIANT SYSTEMS	M	1	07/13/19 07:26 PM EDT			Cash Register	
Image       Image <th< td=""><td></td><td></td><td></td><td>10.241.217.242</td><td>00:90:8F:33:55:DD</td><td>M34CAFRAGA3296SOLs0117</td><td>AUDIO CODES LTD.</td><td>м</td><td>1</td><td>07/01/19 09:43 AM EDT</td><td>IP Phone AudioCodes embedded Apple embedded HP embedded</td><td></td><td>VoíceGateway</td><td></td></th<>				10.241.217.242	00:90:8F:33:55:DD	M34CAFRAGA3296SOLs0117	AUDIO CODES LTD.	м	1	07/01/19 09:43 AM EDT	IP Phone AudioCodes embedded Apple embedded HP embedded		VoíceGateway	
Image         Image <th< td=""><td></td><td>lass.</td><td>CB-</td><td>10.216.202.88</td><td>00:1F:43:00:49:DF</td><td>M34CAFRAGA3296SOLs01 15</td><td>ENTES ELEKTRONIK</td><td>м</td><td>1</td><td>07/09/19 05:53 PM EDT</td><td>Camera GoPro embedded</td><td></td><td>Électric-Metering</td><td></td></th<>		lass.	CB-	10.216.202.88	00:1F:43:00:49:DF	M34CAFRAGA3296SOLs01 15	ENTES ELEKTRONIK	м	1	07/09/19 05:53 PM EDT	Camera GoPro embedded		Électric-Metering	
Image: 10:1218:20:128       00:34:F0:83:1F8       M340/AFRAGA329800.L02: F3:0F18       Sur Gard Security       M       1       07/07/19 04:39 MEDT       Atam System       M       Atam System         Image: 10:1218:20:128       00:23:F7:027:12       M340/AFRAGA329800.L02: F3:0F17       RICOH COMPANYLTD.       M       1       07/07/19 04:39 MEDT       Migges-MTX-Kasa-SRV       M       Migges-MTX-Kasa-SRV       Migges-MTX-Kasa-SRV       M       Migges-MTX-Kasa-SRV       M       Migges-MTX-Kasa-SRV       M       Migges-MTX-Kasa-SRV       M       Migges-MTX-Kasa-SRV       M       Migges-MTX-Kasa-SRV       Migges-MTX-Kas		ins.		10.216.202.85	00:17:FC:3D:EF:2A	M34CAFRAGA3296SOLs01 13	Suprema Inc.	м	1	07/07/19 05:40 PM EDT			ParmakOkuyucu	
Image:         Image:<		1000	Ø	10.216.202.132	00:03:4F:08:31:F8	M34CAFRAGA3296SOLs02 Fa0/18	Sur-Gard Security	М	1	07/07/19 04:39 PM EDT			Alarm System	
Image         Image <th< td=""><td></td><td>1000</td><td>â</td><td>10.216.202.60</td><td>00:26:73:F0:F2:1C</td><td>M34CAFRAGA3296SOLs02 Fa0/17</td><td>RICOH COMPANY,LTD.</td><td>М</td><td>1</td><td>07/01/19 10:19 AM EDT</td><td></td><td></td><td>Printer</td><td></td></th<>		1000	â	10.216.202.60	00:26:73:F0:F2:1C	M34CAFRAGA3296SOLs02 Fa0/17	RICOH COMPANY,LTD.	М	1	07/01/19 10:19 AM EDT			Printer	
im       %       10.214.20.2.14       00500.DE.52.27       M34CAFRAGA3298501.602 F.B0111       RADIANT SYSTEMS       M       1       071/31 07.19 PM EDT       Cash Register         im       %       10.214.20.2.143       00500.DE.52.27       M34CAFRAGA3298501.602 F.B010       RADIANT SYSTEMS       M       1       071/31 07.19 PM EDT       Cash Register         im       %       10.214.20.2.143       00500.DE.494.FB       M34CAFRAGA3298501.602 F.B010       RADIANT SYSTEMS       M       1       071/31 07.49 PM EDT       Cash Register         im       im       10.214.20.2.153       7C1E.B30.09.62       M34CAFRAGA3298501.602 F.B010       RADIANT SYSTEMS       M       1       071/31 07.49 PM EDT       Cash Register         im       im       10.214.20.2.153       7C1E.B30.09.62       M34CAFRAGA3298501.60.2 F.B010       MM EARCHAMA       NM EARCHAMA		)ess	-	10.216.202.3	F8:BC:12:65:66:AE	M34CAFRAGA3296SOLs02 Fa0/12	Dell Inc.	M	1	07/07/19 04:47 PM EDT			Migros-MTX-Kasa-SRV	
im       %       10/214/20/2143       00/E00/DE/28/720       M340/AFRAGA229800.002 F.B0/10       RADIANT SYSTEMS       M       1       07/13/10/74.3P MEDT       Cash Register         im       %       10/216/20.214       00/E00/DE/24/74       M340/AFRAGA229800.002 F.B0/10       RADIANT SYSTEMS       M       1       07/13/10/74.5P MEDT       Cash Register         im       %       10/216/20.214       7/214/07.424       M340/AFRAGA229800.002 F.B0/7       2N TELEKOMUNIKACE a.s.       M       1       07/01/10/14 PMEDT       Cash Register         im       10/216/20.215       7/C18/B0.009 F/2       M340/AFRAGA239800.002 F.B0/5       HewiteP FaceArad       M       1       07/01/01/14 PMEDT       Tim/cioneHranches/Mgros         im       10/216/20.22       C3C/EF #A/26.70       M340/AFRAGA239800.002 F.B0/5       Gios Systems, Inc.       M       1       07/01/01/14 PMEDT       Phone         im       10/216/20.21       01/27.60/20.21       M340/AFRAGA239800.002 F.B0/5       Supremainten       M       1       07/01/01/12 PMEDT       Cash Register         im       10/216/20.21       01/27.60/21.22       M2D/AT       M2D/ATRGA/23980.0012       RADIANT SYSTEMS       M       1       07/20/16/12.2 PMEDT       Cash Register         im       10/20/16/12.2 PMEDT       Cash Reg		1000	\$	10.216.202.141	00:E0:0D:E5:C2:87	M34CAFRAGA3296SOLs02 Fa0/11	RADIANT SYSTEMS	M	1	07/13/19 07:19 PM EDT			Cash Register	
im       \$       10/214/02.24       005/00.05/49/4FB       M34CAFRAGA329850L802.F30/9       RAUMAIT SYSTEMS       M       1       07/21/9.07.46 PM EDT       Cash Register         im       10/21/20.214       70/158.00.00.05/49/4FB       M34CAFRAGA329850L802.F30/7       2111111111111111111111111111111111111		100	\$	10.216.202.143	00:E0:0D:E4:3F:3D	M34CAFRAGA3296SOLs02 Fa0/10	RADIANT SYSTEMS	M	1	07/13/19 07:43 PM EDT			Cash Register	
Image: Marchine		ins.	\$	10.216.202.142	00:E0:0D:E4:94:FB	M34CAFRAGA3296SOLs02 Fa0/9	RADIANT SYSTEMS	M	1	07/13/19 07:46 PM EDT			Cash Register	
Image:		1000	6	10.216.202.135	7C:1E:B3:00:96:F2	M34CAFRAGA3296SOLs02 Fa0/7	2N TELEKOMUNIKACE a.s.	M	1	07/08/19 10:29 AM EDT			Radyo	
Image: March 1241217.23         CCEF 48A226770         M34CAFRAGA239806.102 Fa05         Clic x0 Systems, Inc.         M         M         OP/13/19 07.19 PM EDT         IP Phone           Image: March 2014         10 212.85         0.017F.C30.012 FA         M3YSEHI302250.L02 Fa019         Suptemain         M         1         0700/19 05.55 PM EDT         ParmaKOkyucu           Image: March 2014         0.05.00 ESD RED         M3X3ERLASKEL44330.L013         RXDAMT SYSTEMS         M         1         0720/19 01.28 PM EDT         Cash Register           Image: March 2014         0.65.00 ESD ReD         M3X3ERLASKEL44330.L013         RXDAMT SYSTEMS         M         1         0720/19 01.28 PM EDT         Cash Register           Image: March 2014         0.65.00 ESD ReD         M3XEARLASKEL44330.L013         RXDAMT SYSTEMS         M         1         0720/19 01.28 PM EDT         Cash Register           Image: March 2014         0.61.00 ES0.00 ES0.74         M344ADIK0Y0564/Ha01 Fa0/4         RXDAMT SYSTEMS         M         1         0720/19 01.28 PM EDT         Cash Register           Image: March 2014         0.61.00 ES0.75.74         M344ADIK0Y0564/Ha01 Fa0/1         RXDAMT SYSTEMS         M         1         0720/19 01.28 PM EDT         Cash Register		100	Ch.	10.216.202.50	C8:CB:B8:19:31:0C	M34CAFRAGA3296SOLs02 Fa0/5	Hewlett Packard	M	1	07/01/19 09:11 AM EDT			ThinClient-Branches-Migros	
Image         10212.8.85         00.77FC3.DEF.94         M31YSEHIR30220.0017 BaV19         Suprema Inc.         M         1         0700/19 05.55 PLIEDT         Parmak/Dkayuuu           Image:         102.01.0142         0.0E0/00 E50 BB         M323SFLASKEL45430.013         RADUNT SYSTEMS         M         1         0720/19 0128 PLIEDT         Cash Register           Image:         S         102.01.0143         0.0E0/00 E50 BB         M323SFLASKEL45430.012         RADINT SYSTEMS         M         1         0720/19 0128 PLIEDT         Cash Register           Image:         S         10.13.91.44         0.0E0/00 E58.90 L         M34KADIKOY0564/WING1 Fab/4         RADINAT SYSTEMS         M         1         0720/19 0128 PLIEDT         Cash Register           Image:         S         10.13.91.44         0.0E0/00 E58.97.1         M34KADIKOY0564/WING1 Fab/4         RADINAT SYSTEMS         M         1         0720/19 0128 PLIEDT         Cash Register           Image:         S         10.13.91.44         0.0E0/00 E58.97.1         M34KADIKOY0564/WING1 Fab/4         RADINAT SYSTEMS         M         1         0720/19 0128 PLIEDT         Cash Register           Image:         S         10.13.91.46         0.0E0/00 E58.97.1         M34KADIKOY0564/WING1 Fab/4         RADINAT SYSTEMS         M         1         0720/19		) and		10.241.217.253	CC:EF:48:A2:6C:7D	M34CAFRAGA3296SOLs02 Fa0/5	Cisco Systems, Inc	M	1	07/13/19 07:18 PM EDT			IP Phone	
Image         %         102.01 1.42         00500 E50 BBB         MS23RLASKEL44330La013         RADIANT SYSTEMS         M         1         072019 01.28 PM EDT         Cash Register           102.01 1.42         0.0500 DE50 BB         MS23RLASKEL44330La012         RADIANT SYSTEMS         M         1         072019 01.28 PM EDT         Cash Register           Image:         %         101.39.144         0.0600 DE589.D4         M34KADIKOY0564/vHa01 Fa0/4         RADIANT SYSTEMS         M         1         072019 01.28 PM EDT         Cash Register           Image:         %         101.39.144         0.0600 DE589.D4         M34KADIKOY0564/vHa01 Fa0/4         RADIANT SYSTEMS         M         1         072019 01.28 PM EDT         Cash Register           Image:         %         101.39.146         0.0600 DE587.E1         M34KADIKOY0564/vHa01 Fa0/1         RADIANT SYSTEMS         M         1         072019 01.28 PM EDT         Cash Register			-	10.21.26.85	00:17:FC:3D:EF:94	M31YSEHIR3022SOLs01 Fa0/19	Suprema Inc.	М	1	07/09/19 05:55 PM EDT			ParmakOkuyucu	
Image         Space         10.2.0.10.143         00E00DE5DB9B         Ms235RLASKEL4ASKU2464302.0612         RADIANT SYSTEMS         M         1         07/20/19 0128 PM EDT         Cash Register           Image         Space         10.1.39 144         00E00DE589D4         Ms4XADIKOY0564/Nis01 Fa0/4         RADIANT SYSTEMS         M         1         07/20/19 0128 PM EDT         Cash Register           Image         Space         10.1.39 145         00E00DE5897A         Ms4KADIKOY0564/Nis01 Fa0/2         RADIANT SYSTEMS         M         1         07/20/19 0128 PM EDT         Cash Register           Image         Space         10.1.39 146         00E00DE587E1         Ms4KADIKOY0564/Nis01 Fa0/1         RADIANT SYSTEMS         M         1         07/20/19 0128 PM EDT         Cash Register		1000	ş	10.20.10.142	00:E0:0D:E5:DB:BB	MSZ35RLASKEL4543SOLs01 3	RADIANT SYSTEMS	М	1	07/20/19 01:28 PM EDT			Cash Register	
Image         Space         10.139.144         00E00DE589.04         M34KADIKOY0564/VHs01F80/4         RADIANT SYSTEMS         M         1         0720/19 01.28 PH EDT         Cash Register           Image:         Space         10.139.146         00E00DE587.45         M34KADIKOY0564/VHs01F80/4         RADIANT SYSTEMS         M         1         0720/19 01.28 PH EDT         Cash Register           Image:         Space         10.139.146         00E00DE587.45         M34KADIKOY0564/VHs01F80/1         RADIANT SYSTEMS         M         1         0720/19 01.28 PH EDT         Cash Register			\$	10.20.10.143	00:E0:0D:E5:DB:9B	MSZ35RLASKEL4543SOLs012	RADIANT SYSTEMS	М	1	07/20/19 01:28 PM EDT			Cash Register	
Image         Sp         10 1.38 145         ODE0/DE5897A         M34KADIKVY0564/NIs01 Fa0/2         RADIANT SYSTEMS         M         1         07/2019 01:28 PM EDT         Cash Register           Image         Sp         10 1.39 146         00:00:DE587E1         M34KADIKVY0564/NIs01 Fa0/1         RADIANT SYSTEMS         M         1         07/2019 01:28 PM EDT         Cash Register			\$	10.1.39.144	00:E0:0D:E5:89:D4	M34KADIKOY0564VNs01 Fa0/4	RADIANT SYSTEMS	M	1	07/20/19 01:28 PM EDT			Cash Register	
DU.1.39.140 UULC0UDL587/E1 M34K4JIK0V0544Ns01Fa0/1 RADANI SYSTEMS M 1 U7/2019 0128 PM EDI Cash Register			\$	10.1.39.145	00:E0:0D:E5:89:7A	M34KADIKOY0564VNs01 Fa0/2	RADIANT SYSTEMS	M	1	07/20/19 01:28 PM EDT			Cash Register	
		1		10.1.39.146	00:E0:0D:E5:87:E1	M34KADIKUY0564VNs01 Fa0/1	RADIANT SYSTEMS	M	1	07/20/19 01:28 PM EDT			Cash Register	



### Detailed Customer Reports Using FortiAnalyzer



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### 431 Unique Events – Custom Map Events to Alarm

-	FortiNAC-VM-CA + Event	to Alarm Mappings										log O
Book	narks+ Users+ Heets+	NetworkDevices * Logs *	Policy * System *	<ul> <li>Into *</li> </ul>	2							
Event?	Harm Mappings - Total: 18											20
Enable.												
England	Det	Name	-Cast Event	. Sevents	Nodity-Listens	Troper Naw	Apply Ta	inclose Sand to External Log Hosts	Send to Coaltern Scrapt	EvertLogang	Event Logging Group	1.14
4	Arrest User Lopit Failure	Admin User Login Painare	1	Crecal	10000000	Preparency - 3 within 30 execution	10	160		mental	All Croube	101 4
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1	No Response hars DHCF baser	No Response Non DHCP Same		Office		All Events to One Harm	146	10.		Internal Control	Ad Crisign	- Ih
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## **FortiNAC Feature Overview**

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### **Pro Features**

- Receive trigger event from IPS/SIEM/Tenable/Qualys
- Intelligent containment and notification options based on Host Profile (device type, user etc. )
- Immediately isolate and contain Indicators of Compromise

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### **BASE Features**

- Discovery of Enterprise Network Infrastructure
- Active Directory Integration
- Builds Endpoint Database of MAC/IP/Port/Interface
- Rogue Hunting Tools
  - MDM Integration (AirWatch, InTune, Chromebook etc.)
  - Industrial OT Integration with Nozomi integration
  - FortiClient EMS integration
  - Agentless Device Profiling Active & Passive
  - Fortigate as a sensor & FSSO Integration
    Control
    - Rogue Device Detection and containment
    - Network Access Policies (wired 802.1x not required)

### **PLUS Features**

Lightweight NAC agents (Dissolvable & Persistent)

- Endpoint Compliance for Windows, OSX & Linux
- Captive Portal for BYOD, Contractor and Guests
- Outbound Security Events to SEIM, Syslog or API

## **FortiNAC Components**



Perpetual Licenses: BASE-PLUS-PRO \*Subscription Available For PRO only\*

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#### **FortiNAC Licenses**

	FortiNAC LIC	ENSE TYPES	BASE	PLUS	PRO
bility	Network	Network Discovery	•	•	•
		Rouge Identification	٠	•	•
		Device Profiling & Classification	٠	٠	٠
	Endpoint	Enhanced Visiblity	•	•	•
		Anomaly Detection	٠	٠	٠
		MDM Integration	٠	•	٠
		Persistent Agent		٠	٠
	User	Authentication		٠	٠
		Captive Portal		•	•
omation / Control		Network Access Policies	٠	٠	٠
		IoT Onboarding with Sponsor	•	•	•
		Rouge Device Detection & Restriction	٠	٠	٠
		Firewall Segmentation	٠	•	٠
		BYOD / Onboarding		٠	٠
		Guest Management		•	٠
		Endpoint Compliance		٠	٠
		Web & Firewall Single Sign-on		٠	٠
dent Response		Event Correlation			•
		Extensible Actions & Audit Trail			٠
		Alert Criticality & Routing			٠
		Guided Triage Workflows			٠
grations		Inbound Security Events			•
		Outbound Security Events			٠
		REST API		•	٠
orting			•	•	٠

