

RELEASE NOTES **SipPROT 5.1**



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FEATURES

sipPROT 5.1 comes with a complete makeover, including various enhancements, a faster in-memory database and an updated user interface aimed at boosting the overall functionality and user experience of sipPROT.

sipPROT Dashboard

The sipPROT Dashboard was added to provide a clear overview of blocked attacks, Geo-IP data and overall health status of the firewall.

The attacks per endpoint chart shows the number of attacks for each VPS on the system, or rather, their IPs that were under attack. Hovering on each bar will display the number of attacks which helps administrators see which VPS is most susceptible to them.

The Most Blocked Countries chart shows the number of IPs that were blocked from each country so that administrators can use the data to adjust geo-ip protection policies accordingly.

The Blocked Countries Heatmap visually illustrates the countries with the highest number of blocked IP addresses with the intensity of the color indicating the severity of IP address blocks. The darker the color, the greater the number of blocked IPs.



Attack Logs

sipPROT's Attack Logs will display logs of all SIP attacks on the system with the intention to provide a better insight into the security of the entire system and allow administrators to apply additional measures if necessary.

SipPROT		🗟 Das	hboard 🗲 Attack Logs 🖻 Allowlist	🖻 Denylist 💣 Dynamic Denylist 🔅 S	Settings 🕶
Attack Logs					
Search	AttackType	 Oct 10, 2023 - Oct 17, 2023 	Reset	Show 15 Per Page ▼	۰ -
Attacker IP Address 🗘	Victim IP Address 0	Attack Type 🗘	User Agent 0	Time 0	
∨ 89.239.39.42	45.141.164.98	REGISTER	VaxSIPUserAgent/3.5	Oct 8, 2023 18:11:05 CEST	Ľ
Host Name SW-public1		sipPROT Version	5.1.0+build.1160.rev.3071795		
Geo Protection 🛛 📀		Kernel Version	5.15.103-commsware-00013-gc005a	5174808	
> 45.95.146.4	45.141.164.98	REGISTER	РВХ	Oct 8, 2023 17:55:30 CEST	Ű
> 89.239.39.42	45.141.164.96	REGISTER	VaxSIPUserAgent/3.5	Oct 8, 2023 17:07:36 CEST	Ĉ
> 89.239.32.85	45.141.164.96	REGISTER	VaxSIPUserAgent/3.5	Oct 8, 2023 13:35:01 CEST	ů
> 89.239.32.85	45.141.164.96	REGISTER	VaxSIPUserAgent/3.5	Oct 8, 2023 12:32:47 CEST	Ľ
> 89.239.32.85	45.141.164.96	REGISTER	VaxSIPUserAgent/3.5	Oct 8, 2023 11:31:31 CEST	Ē
> 45.143.9.130	45.141.164.98	REGISTER	Cisco UCM 12.0.1	Oct 8, 2023 06:04:36 CEST	Ĉ
> 45.143.9.130	45.141.164.96	REGISTER	friendly-scanner	Oct 8, 2023 02:58:02 CEST	ů
> 198.50.119.225	45.141.164.98	REGISTER	FPBX	Oct 8, 2023 01:51:03 CEST	Ĉ
> 45.143.9.130	45.141.164.97	REGISTER	friendly-scanner	Oct 8, 2023 00:52:03 CEST	Ů
> 198.50.119.225	45.141.164.97	REGISTER	FPBX	Oct 8, 2023 00:40:22 CEST	ů
> 198.50.119.225	45.141.164.98	REGISTER	FPBX	Oct 7, 2023 23:31:54 CEST	Č
> 45.143.9.142	45.141.164.97	REGISTER	friendly-scanner	Oct 7, 2023 15:37:58 CEST	Ĉ
> 45.143.9.142	45.141.164.96	REGISTER	Cisco UCM 12.0.1	Oct 7, 2023 00:07:56 CEST	ů
> 167.172.180.195	45.141.164.98	REGISTER	FPBX	Oct 6, 2023 23:03:32 CEST	Ĉ
79 total				I < 1 2 3 4 5	> >

The logs will show the attacker's and the victim's IP addresses, the attack type, the user agent and the date and time of the attack. By clicking on the symbol in front of each log, administrators can find more information, namely on which host the attack was detected, whether Geo-IP protection is available on that host and the host's sipPROT and kernel versions.

The logs can be filtered either by utilizing the search bar or by choosing the attack type to be presented from the drop down menu next to the bar.

sipPROT's attack logs will differentiate between two types of attack, REGISTER and OPTIONS.

Attack Logs					
earch	Attack Type	Nov 8, 2023 - Nov 21, 2023		Reset 15 Per Page	• •
Attacker IP Address 0	REGISTER	Attack Type 0	User Agent 0	Time 0	
74.208.230.22	OPTIONS	OPTIONS	friendly-scanner	Nov 18, 2023 21:14:32 CET	Ĉ
74.208.230.22	45.141.164.99	OPTIONS	friendly-scanner	Nov 18, 2023 21:14:32 CET	Ů
74.208.230.22	45.141.164.97	OPTIONS	friendly-scanner	Nov 18, 2023 15:47:50 CET	ľ
74.208.230.22	45.141.164.99	OPTIONS	friendly-scanner	Nov 18, 2023 15:47:50 CET	Ű
74.208.230.22	45.141.164.96	OPTIONS	friendly-scanner	Nov 18, 2023 15:47:50 CET	Ů
85.239.236.254	45.141.164.99	OPTIONS	friendly-scanner	Nov 18, 2023 15:34:03 CET	Ľ
85.239.236.254	45.141.164.97	OPTIONS	friendly-scanner	Nov 18, 2023 15:34:03 CET	Ľ
212.129.52.45	45.141.164.96	REGISTER	pplsip	Nov 15, 2023 13:10:20 CET	Ľ
212.129.55.10	45.141.164.98	REGISTER	pplsip	Nov 15, 2023 13:10:17 CET	Ľ
212.129.52.45	45.141.164.96	REGISTER	pplsip	Nov 15, 2023 13:09:51 CET	Ľ
212.129.55.10	45.141.164.98	REGISTER	pplsip	Nov 15, 2023 13:09:46 CET	Č
212.129.52.45	45.141.164.96	REGISTER	pplsip	Nov 15, 2023 11:52:15 CET	Ľ
212.129.55.10	45.141.164.98	REGISTER	pplsip	Nov 15, 2023 11:52:01 CET	Ĉ
104.225.219.109	45.141.164.99	OPTIONS	friendly-scanner	Nov 14, 2023 16:10:10 CET	Ľ

Known user agents will be singled out on the logs. Logs are kept for three months.

SipPROT		🖁 Dashboard 🥊	Attack Logs	Denylist	🌢 Dynamic Denylist	Settings •
Attack Logs						
Search	AttackType	- Oct 19, 2023 - Oct 26, 2023	Reset		Show 15 Per F	Page 🔹 🕂 🔹
Attacker IP Address 0	Victim IP Address 0	Attack Type 0	User Agent ≎	Tir	me ≎	

>	23.226.138.26	45.141.164.107	OPTIONS	friendly-scanner	Oct 26, 2023 08:04:19 CEST	Ũ
>	96.44.142.14	45.141.164.106	OPTIONS	friendly-scanner	Oct 26, 2023 04:59:02 CEST	Ũ
>	45.155.91.237	45.141.164.106	OPTIONS	friendly-scanner	Oct 26, 2023 02:52:02 CEST	Ũ
>	143.255.183.112	45.141.164.107	OPTIONS	friendly-scanner	Oct 26, 2023 02:36:19 CEST	Ũ
\mathbf{x}	96.44.142.14	45.141.164.111	OPTIONS	friendly-scanner	Oct 25, 2023 23:12:48 CEST	Ů
>	45.155.91.237	45.141.164.120	OPTIONS	friendly-scanner	Oct 25, 2023 21:28:01 CEST	Ũ
>	69.174.102.30	45.141.164.106	REGISTER	PBX	Oct 25, 2023 21:22:29 CEST	Ů
>	23.226.138.26	45.141.164.106	OPTIONS	friendly-scanner	Oct 25, 2023 20:16:43 CEST	Ű
>	69.174.102.30	45.141.164.120	REGISTER	PBX	Oct 25, 2023 20:11:33 CEST	Ů
>	69.174.102.30	45.141.164.106	REGISTER	PBX	Oct 25, 2023 19:04:23 CEST	Ů
>	40.76.249.22	45.141.164.106	REGISTER	pplsip	Oct 25, 2023 18:24:18 CEST	Ũ
>	45.155.91.237	45.141.164.106	OPTIONS	friendly-scanner	Oct 25, 2023 17:55:38 CEST	Ů
>	96.44.142.14	45.141.164.106	OPTIONS	friendly-scanner	Oct 25, 2023 17:34:59 CEST	Ű

IP Addresses Lists - Improved Dynamic Denylist

The dynamic denylist functionality has been further enhanced so that when an address is dynamically blocked on one host, that information is shared among all hosts within the cluster.

Addresses that end up permanently blocked through the dynamic denylist functionality (by exceeding the block threshold) will appear in the denylist.

The dynamic denylist has been further enhanced so it shows the user agent device of the blocked address. If it's a known user agent device, it will appear in bold letters.

🔊 sipPROT		🗂 Dashboard	Attack Logs Allowlist	Denylist 🌢 Dynamic De	nylist 🌣 Settings 🕶
Manage Dynamic	Denylist				Remove
Search	Country	Reset		Show 1	5 Per Page 🔹 😔 💌
IP Address ^	Country 0	Attack Type 0	User Agent 0	Unblock In 0	Actions
□ > 45.143.9.131	United States	REGISTER	Cisco	57m 27s	×
□ > 45.155.91.237	Poland	OPTIONS	friendly-scanner	2m 54s	×
0 selected / 2 total					

Release Notes

Settings

General sipPROT settings can be found under Settings \rightarrow Firewall.

The Host menu provides sipPROT with information for each host in the cluster. Administrators will be able to monitor the health of sipPROT and the Geo-IP service on each host. They will be able to exclude a host from sipPROT with a single click.

📢 sipPROT			🗂 Dashboard	Attack Logs	Allowlist	Denylist 🗈	Oynamic Denylist	🌣 Settii	ngs 🕶
SIP Ports:								Tirev 🗘	wall
× 5060								E Hos	S
SIP Blocking Rule:								A Noti	fications
10							bad registratio	ns per mi	nute
Dynamic Block Time:			Blo	ock Threshold:					
1 Hour			× 3	}					
Blocked User Agents:									
× friendly-scanner ×	sipsak × Elite								×
Geo Protection:	Enabled								
Policy:	🔿 Allow 💿 Deny								
Countries:									
									•
IP Geolocation by DB-IP							Version: 2023-11	⊖Upda	te DB
Additional Protection:	TFTP Protection	DNS Protection							
Notifications:	Enabled Send	I Daily Attack Summary	Send Log For Ever	y Attack					
Mail Recipients:									
mail@provider.com									



sipPROT v5.2.0 (build.1327.rev.5dd9b4a)

Notifications

sipPROT administrators will be able to configure SMTP settings for notifications sent out by sipPROT.

	📓 Dashboard	Attack Logs	Allowlist	Denylist	Dynamic Denylist	Settings
Notification Settings						SMTP -
SSL Encryption: • Enabled						
mail.bicomsystems.com						
Port:						
465						
User:						
systems@bicomsystems.com						
Password:						
						Save Settings

Under Firewall settings administrators can enter the email addresses of all sipPROT notification recipients.

At the moment, sipPROT only supports SMTP for sending out notifications.

💭 sipPROT	🗟 Dashboa	rd 🕴 Attack Logs	Allowlist	Denylist	Oynamic Denylist	🗢 Settings 🕶
SID Date:						Tirewall
						E Hosts
						A Notifications
					had as sistenti	
10		Deak Threehold			bad registratio	ons per minute
		Slock Infestiola:				-
1 Hour	*	3				
Blocked User Agents:						
× friendly-scanner × sipsak × Elite						×
Geo Protection: Enabled						
Policy: O Allow O Deny						
Countries:						
Countries:						*
Countries:					Version: 2023-11	▼ OUpdate DB
Countries:	IC Protection				Version: 2023-11	♥ OUpdate DB
Countries: IP Geolocation by DB-IP Additional Protection:	NS Protection				Version: 2023-11	♥ OUpdate DB
Countries: IP Geolocation by DB-IP Additional Protection: IP TFTP Protection IP DN Notifications: IP Enabled IP Send Daily	NS Protection	ery Attack			Version: 2023-11	Update DB
Countries: IP Geolocation by DB-IP Additional Protection: TFTP Protection DN Notifications: Enabled Send Daily Mail Recipients:	NS Protection Attack Summary 🕝 Send Log For Ev	ery Attack			Version: 2023-11	Update DB
Countries: IP Geolocation by DB-IP Additional Protection: TFTP Protection DN Notifications: Enabled Send Daily Mail Recipients: × admin@sipprot.com × support@sipprot.com	NS Protection Attack Summary 🕝 Send Log For Ev	ery Attack			Version: 2023-11	♥ OUpdate DB
Countries: IP Geolocation by DB-IP Additional Protection: TFTP Protection DN Notifications: Enabled Send Daily Mail Recipients: × admin@sipprot.com × support@sipprot.com	NS Protection Attack Summary 🛛 Send Log For Ev	ery Attack			Version: 2023-11	VUpdate DB
Countries: IP Geolocation by DB-IP Additional Protection: TFTP Protection IDN Notifications: Enabled I Send Daily Mail Recipients: × admin@sipprot.com × support@sipprot.com	NS Protection r Attack Summary ☑ Send Log For Ev	ery Attack			Version: 2023-11	OUpdate DB X Save Settings
Countries: P Geolocation by DB-IP Additional Protection: TFTP Protection DN Notifications: Enabled Send Daily Mail Recipients: × admin@sipprot.com × support@sipprot.com	NS Protection Attack Summary Send Log For Ev sipPROT v5.2.0 (build.	ery Attack			Version: 2023-11	OUpdate DB X Save Settings

Reporting Service

Administrators can choose the type of reports they want to receive from sipPROT.

Notifications:	Enabled	Send Daily Attack Summary	Send Log For Every Attack

The daily reports will provide a list of blocked attacks for the day along with some additional information. The administrators can navigate to the SERVERware GUI by clicking on the link in the report.

sipPROT (192.168.55.13) Daily Firewall Report Mon, 18 Sep 2023								
Attacker IP	Country	Method	Victim IP	Blocks				
192.168.1.1	United States	SIP Scanner	10.0.0.1	50				
192.168.1.5	Australia	SIP Scanner	10.0.0.5	25				
192.168.1.7	India	SIP Scanner	10.0.0.7	45				
192.168.1.9	Russia	SIP Scanner	10.0.0.9	55				
10.0.0.2	Canada	SIP Scanner	192.168.1.2	30				
172.16.0.1	Germany	SIP Scanner	192.168.1.3	20				
10.0.0.4	United Kingdom	SIP Scanner	192.168.1.4	40				
10.0.0.6	France	SIP Scanner	192.168.1.6	35				
10.0.0.8	Brazil	SIP Scanner	192.168.1.8	15				

192.168.1.1	China	SIP Scanner	192.168.1.10	60
				Generated by sipPROT

In case no attacks occurred that day, a notification like the one below will be sent out.



In the event of an ongoing attack on the system, sipPROT will notify the administrators immediately together with the attacker's and the victim's IP addresses, method of attack, as well as what actions were taken.



TFTP attacks will also prompt an email notification from sipPROT.



- Method: TFTP
- Action: TFTP requests from IP address 10.1.0.191 limited at 10/minute

Action Note:

Generated by sipPROT

Bug Fixes & Improvements:

• Fixed a bug where sipPROT would block the country that the IP was accessing from.

Release Notes

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