

The Protector That Your System Deserves



PRODUCT OVERVIEW  
**sipPROT**

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WHAT IS

# sipPROT?

sipPROT is Bicom Systems' own answer for a defensive measure against SIP attacks. It's a module that works together with PBXware and SERVERware that monitors live SIP traffic and detects potential abnormalities. Once detected, sipPROT locks them out by updating the firewall or by blocking the IP address directly, without requiring any input from your end other than adjusting the length of the lockout period.

sipPROT is equipped with a strong defensive arsenal which protects some of the core aspects of the system, be it from SIP attacks through the use of SIP scanner protection and SIP protocol anomaly detection, or from TFTP attacks by utilizing TFTP brute force protection, all of which are some of the most common and damaging cyber security risks.








## Swift Threat Response

sipPROT rapidly detects and blocks potential security threats in your SIP system, safeguarding it without permanent lockouts. This automated defense minimizes manual intervention and ensures system security.

## Efficient Security Management

sipPROT streamlines security with auto-provisioning attack detection, allowlist/denylist management, and GeoIP blocking. It identifies vulnerabilities, simplifies list management, and enhances security efficiency, reducing administrative workload.

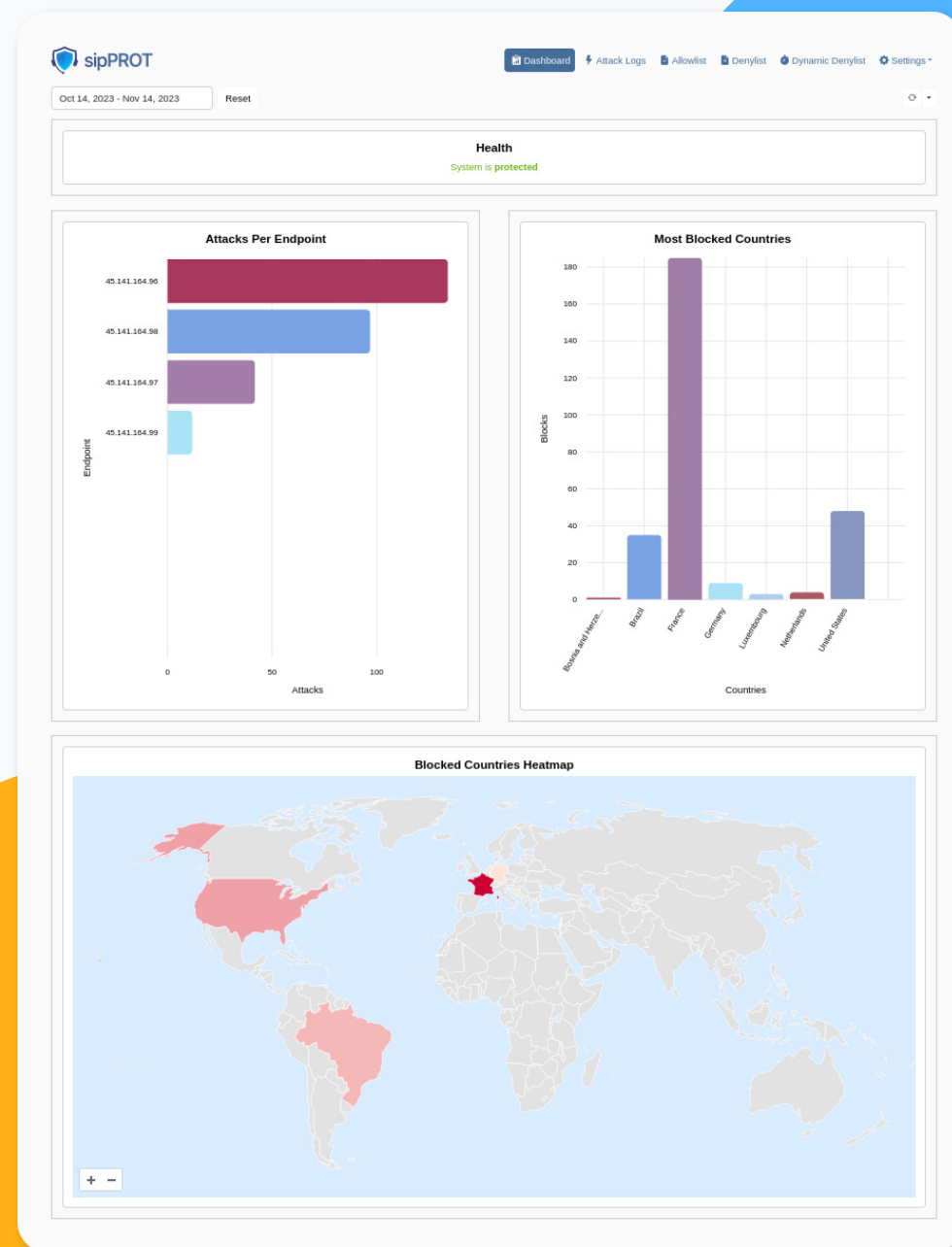


# Essential Unified Communications Features & Benefits

## DETAILED DASHBOARD

Gain complete insight into the inner workings of host operations and actions through the sipPROT dashboard.

Check anything from firewall status to number of attacks per endpoint as well as the corresponding geo-IP data.



## COMPLETE HOST OVERVIEW

Have full insights into the current status of every host within the cluster. Everything from host name and IP address, to each host's Kernel and sipPROT version as well as their sipPROT and Geo protection activity status, making host management a breeze.

You can even remove hosts that sipPROT is not running on at the click of a button or navigate back to the host's corresponding attack log to make host-related actions easier to decide on.

The screenshot shows the 'Attack Logs' section of the sipPROT dashboard. It features a search bar, a date range filter (Mar 29, 2024 - Apr 5, 2024), and a 'Reset' button. The table below lists individual attack events with columns for Attacker IP Address, Victim IP Address, Attack Type, User Agent, and Time. The table is paginated, showing 15 items per page.

Attacker IP Address	Victim IP Address	Attack Type	User Agent	Time
45.143.9.162	45.141.164.100	OPTIONS	friendly-scanner	Apr 5, 2024 08:37:16 CEST
45.143.9.162	45.141.164.95	OPTIONS	friendly-scanner	Apr 5, 2024 08:37:16 CEST
45.143.9.162	45.141.164.101	OPTIONS	friendly-scanner	Apr 5, 2024 08:37:16 CEST
45.143.9.162	45.141.164.92	OPTIONS	friendly-scanner	Apr 5, 2024 08:37:16 CEST
174.142.205.18	45.141.164.92	OPTIONS	friendly-scanner	Apr 5, 2024 08:34:04 CEST
188.166.166.80	45.141.164.97	REGISTER	FPBX	Apr 5, 2024 07:58:49 CEST
188.166.166.80	45.141.164.97	REGISTER	FPBX	Apr 5, 2024 07:58:49 CEST
188.166.166.80	45.141.164.97	REGISTER	FPBX	Apr 5, 2024 07:58:49 CEST
188.166.166.80	45.141.164.97	REGISTER	FPBX	Apr 5, 2024 07:58:49 CEST
185.224.128.12	45.141.164.100	OPTIONS	friendly-scanner	Apr 5, 2024 07:27:02 CEST
185.224.128.12	45.141.164.101	OPTIONS	friendly-scanner	Apr 5, 2024 07:27:02 CEST
185.224.128.12	45.141.164.96	OPTIONS	friendly-scanner	Apr 5, 2024 07:27:02 CEST
185.243.5.55	45.141.164.92	OPTIONS	friendly-scanner	Apr 5, 2024 06:41:19 CEST
185.243.5.55	45.141.164.95	OPTIONS	friendly-scanner	Apr 5, 2024 06:41:19 CEST
188.166.166.80	45.141.164.97	REGISTER	FPBX	Apr 5, 2024 06:39:38 CEST

## DYNAMIC BLOCKING AND UNBLOCKING

One of sipPROT's main assets is its ability to react quickly when it detects a threat, automatically blocking down the IP address of a potential attack and keeping your system safe from what would've been a potential breach.

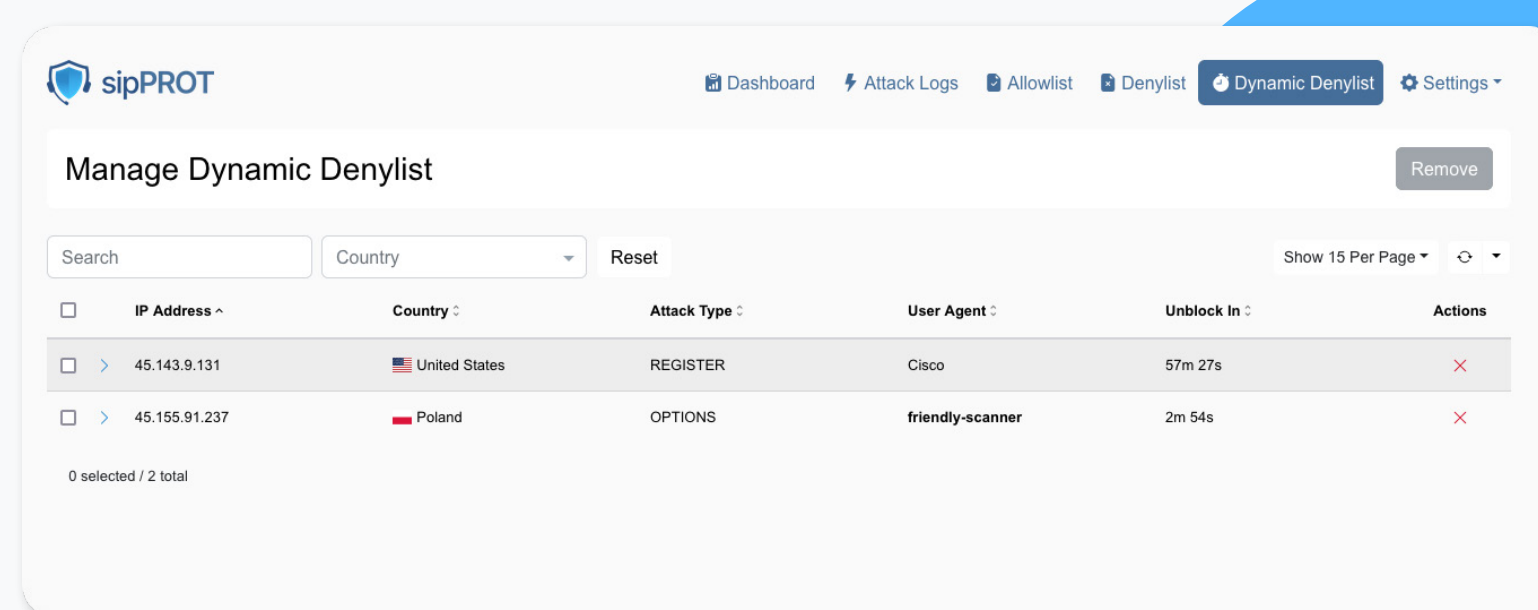
When an IP address gets dynamically blocked on one host, it gets locked out across all hosts.

The lock isn't permanent, but the time can be adjusted to a length more suitable to your preferences so the

user isn't permanently locked out from your services due to the nature of dynamic IPs in most ISPs which can lead to the specific IP address no longer being compromised.

And all of this is done with minimal manpower requirements to maintain it, allowing you to free it up for other tasks.

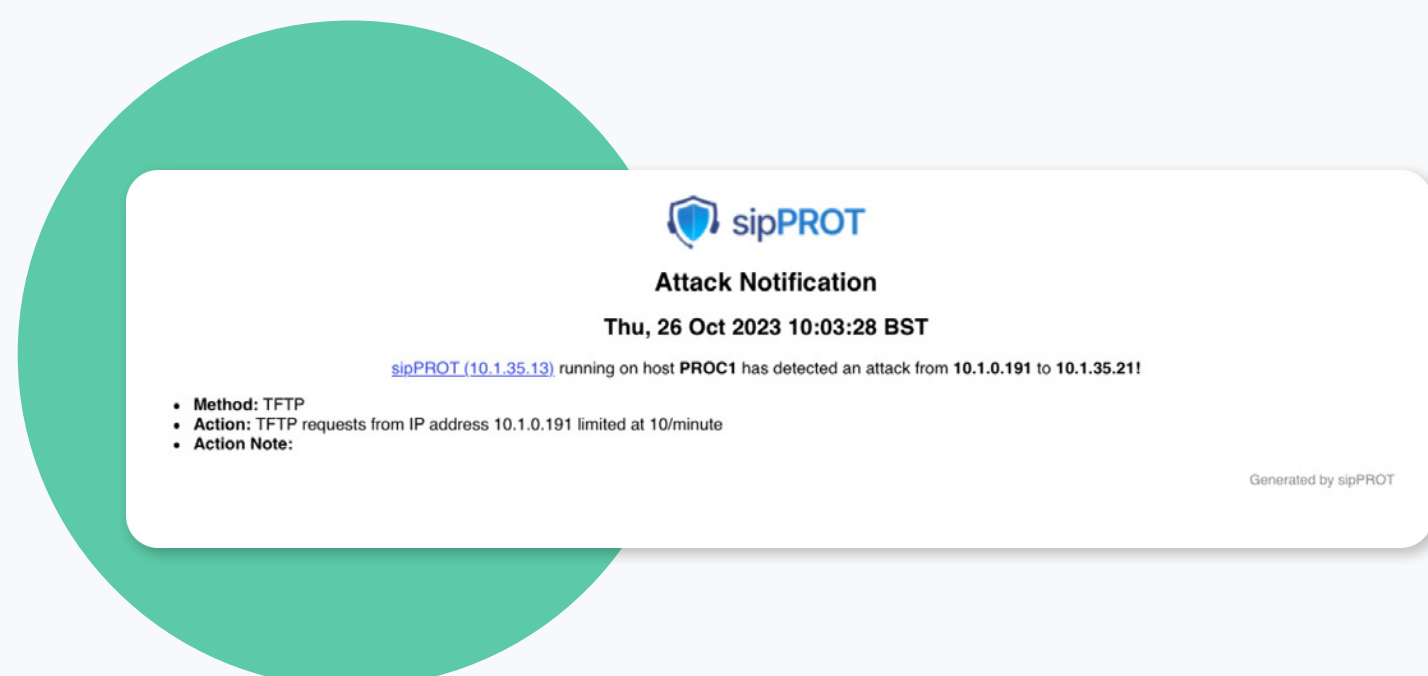
sipPROT covers both IPv4 and IPv6 address ranges, providing you with the utmost level of safety in that regard.



## AUTO-PROVISIONING ATTACK DETECTION

One of the most vulnerable points of a SIP system tends to be its auto-provisioning service, but with sipPROT, even that area is covered thanks to its TFTP Brute Force Attack detection.

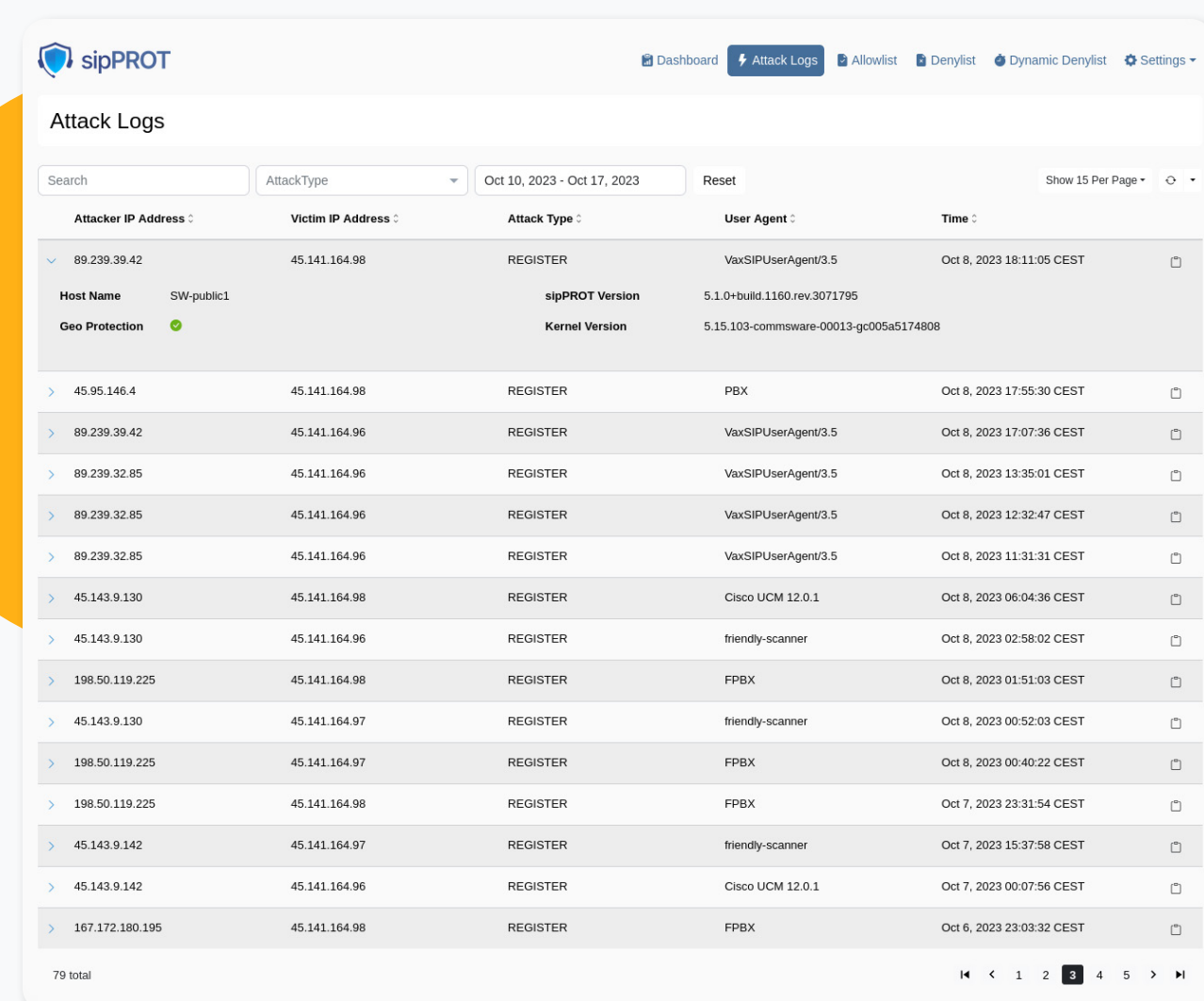
It easily spots potential attacks on the system that are trying to redirect all of the requests and messing with the system to whatever degree and stop them in their tracks.



## CLEAR AND INTUITIVE ATTACK LOG

In order to improve response times and reduce confusion, sipPROT displays a list of all SIP attacks that have targeted the current system with each one containing the relevant information needed for administrators to assess risks and execute swift action when needed.

Each individual log contains the attacker's and victim's IP addresses, the type and time of attack and the User Agent with more information available upon expansion of an individual attack instance.



The screenshot shows the 'Attack Logs' page in the sipPROT dashboard. It features a search bar, a date range filter (Oct 10, 2023 - Oct 17, 2023), and a 'Reset' button. The main content is a table with columns for Attacker IP Address, Victim IP Address, Attack Type, User Agent, and Time. A detailed view of the first log entry is expanded, showing Host Name (SW-public1), Geo Protection (green dot), sipPROT Version (5.1.0+build.1160.rev.3071795), and Kernel Version (5.15.103-commware-00013-gc005a5174808).

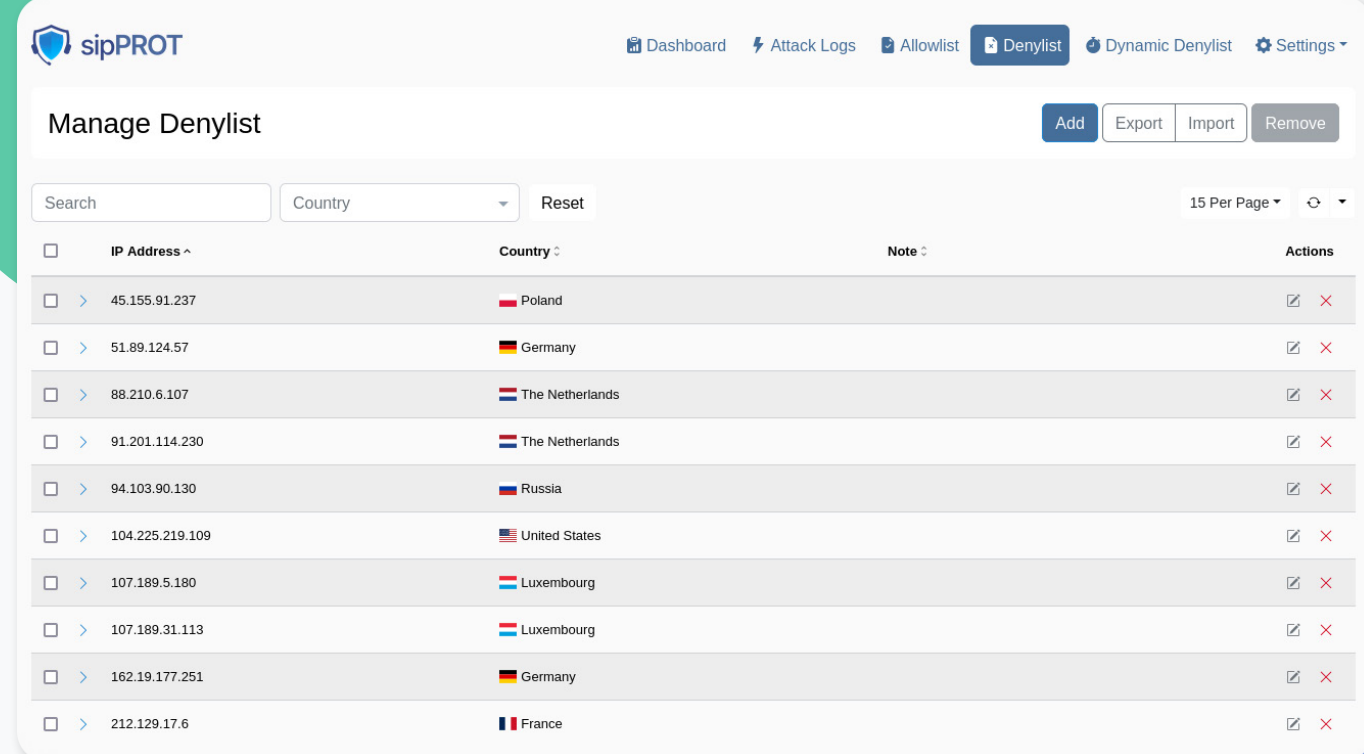
Attacker IP Address	Victim IP Address	Attack Type	User Agent	Time
89.239.39.42	45.141.164.98	REGISTER	VaxSIPUserAgent3.5	Oct 8, 2023 18:11:05 CEST
45.95.146.4	45.141.164.98	REGISTER	PBX	Oct 8, 2023 17:55:30 CEST
89.239.39.42	45.141.164.96	REGISTER	VaxSIPUserAgent3.5	Oct 8, 2023 17:07:36 CEST
89.239.32.85	45.141.164.96	REGISTER	VaxSIPUserAgent3.5	Oct 8, 2023 13:35:01 CEST
89.239.32.85	45.141.164.96	REGISTER	VaxSIPUserAgent3.5	Oct 8, 2023 12:32:47 CEST
89.239.32.85	45.141.164.96	REGISTER	VaxSIPUserAgent3.5	Oct 8, 2023 11:31:31 CEST
45.143.9.130	45.141.164.98	REGISTER	Cisco UCM 12.0.1	Oct 8, 2023 06:04:36 CEST
45.143.9.130	45.141.164.96	REGISTER	friendly-scanner	Oct 8, 2023 02:58:02 CEST
198.50.119.225	45.141.164.98	REGISTER	FPBX	Oct 8, 2023 01:51:03 CEST
45.143.9.130	45.141.164.97	REGISTER	friendly-scanner	Oct 8, 2023 00:52:03 CEST
198.50.119.225	45.141.164.97	REGISTER	FPBX	Oct 8, 2023 00:40:22 CEST
198.50.119.225	45.141.164.98	REGISTER	FPBX	Oct 7, 2023 23:31:54 CEST
45.143.9.142	45.141.164.97	REGISTER	friendly-scanner	Oct 7, 2023 15:37:58 CEST
45.143.9.142	45.141.164.96	REGISTER	Cisco UCM 12.0.1	Oct 7, 2023 00:07:56 CEST
167.172.180.195	45.141.164.98	REGISTER	FPBX	Oct 6, 2023 23:03:32 CEST

## MANAGEMENT OF ALLOWLISTS AND DENYLISTS

sipPROT has another excellent quality of life feature which will save your system admins a lot of man hours, the ability to import and export allowlists and denylists from one system to another in .csv format.

They can also add specific notes to specific IP addresses if necessary so they could be given more attention as well as remove IP addresses from the same lists in bulk and define multiple SIP ports to be protected.

All of this serves to greatly improve their workflow and eliminates a lot of the tedium from their day-to-day duties.

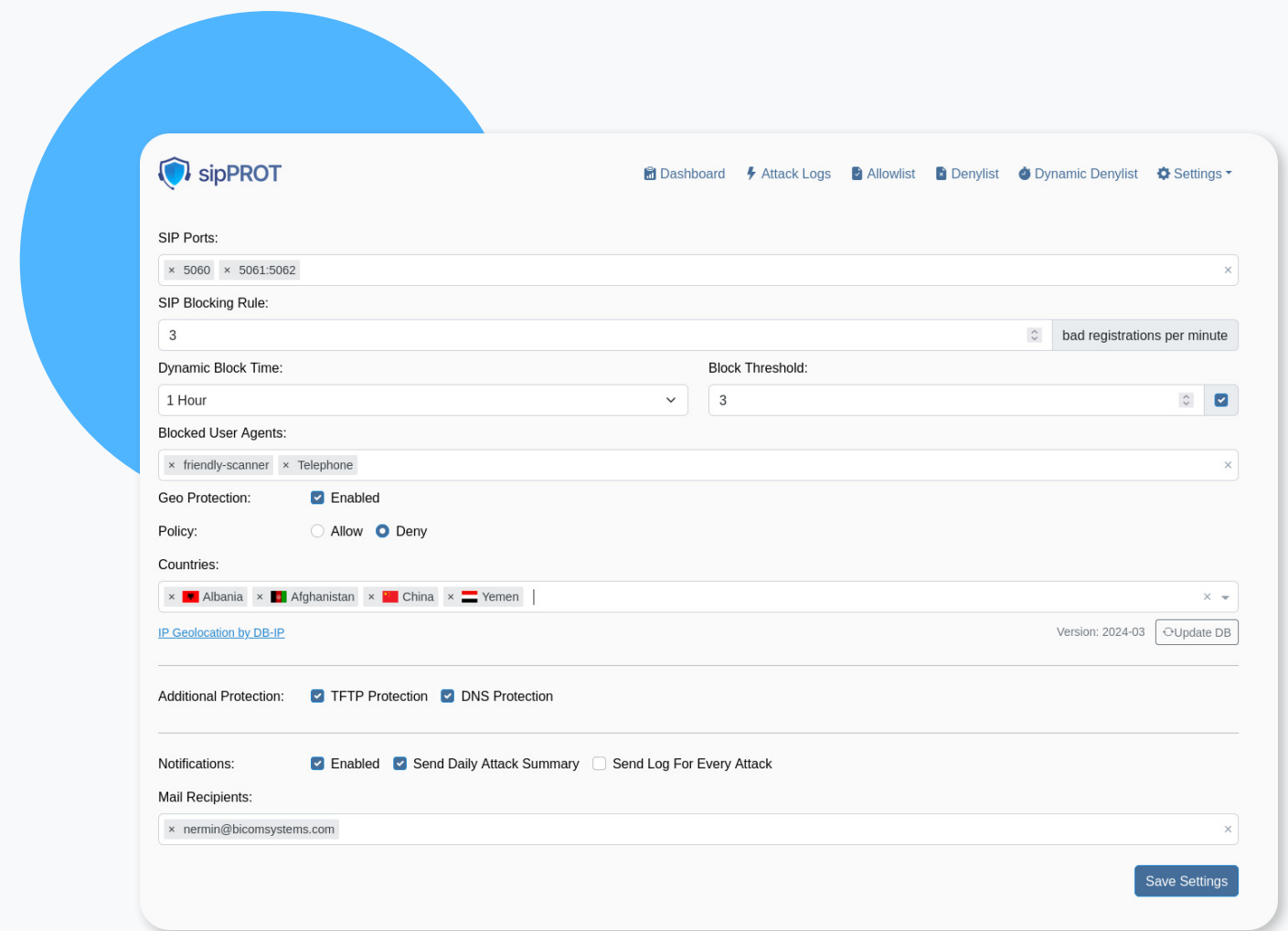


The screenshot shows the 'Manage Denylist' page in the sipPROT dashboard. It includes a search bar, a 'Country' dropdown menu, and a 'Reset' button. The main content is a table with columns for IP Address, Country, Note, and Actions. The table lists several IP addresses with their corresponding countries and flags.

IP Address	Country	Note	Actions
45.155.91.237	Poland		✓ ✕
51.89.124.57	Germany		✓ ✕
88.210.6.107	The Netherlands		✓ ✕
91.201.114.230	The Netherlands		✓ ✕
94.103.90.130	Russia		✓ ✕
104.225.219.109	United States		✓ ✕
107.189.5.180	Luxembourg		✓ ✕
107.189.31.113	Luxembourg		✓ ✕
162.19.177.251	Germany		✓ ✕
212.129.17.6	France		✓ ✕

## GeoIP BLOCKING

Utilize the full power of sipPROT through the use of GeoIP blocking, allowing system admins to lock out the IP range of an entire country in case of a large SIP attack or for any other valid reason.



# Expert Support at Your Fingertips

Our highly trained experts are always available to address any system-related issues or questions that you may have, ensuring seamless operations and peace of mind.





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