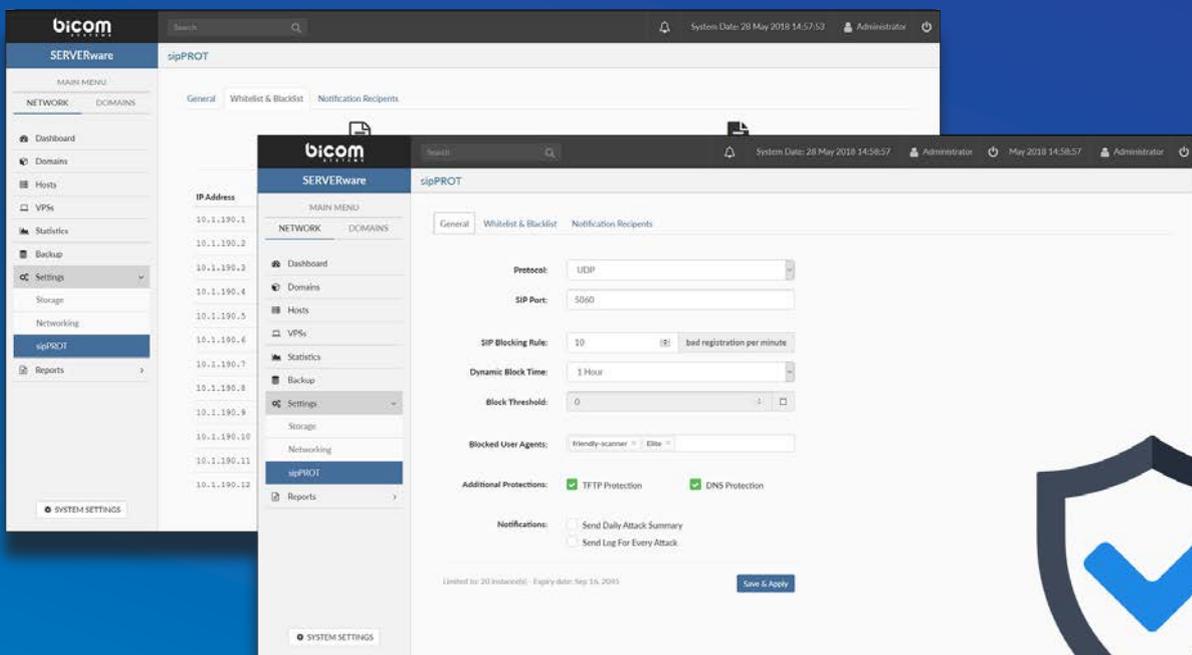


# SIP PROTECTION

keep your system secure



# sipPROT

# IS YOUR DATA SAFE?

sipPROT works with LIVE SIP traffic, constantly monitoring SIP packets being received.



# sipPROT

sipPROT is a PBXware and SERVERware module that provides protection from SIP attacks. Unlike other similar solutions, sipPROT works with LIVE SIP traffic, constantly monitoring SIP packets being received. Potential attacks are instantly detected and sipPROT updates the firewall rules and blocks IP addresses from which the attack is coming for a specific amount of time.

To detect SIP attacks, sipPROT uses the following advanced detection techniques: Pattern recognition, SIP Scanners protection (immediately blocking known SIP scanners), TFTP brute force protection, and SIP protocol anomaly detection.

Brute-force break-in attempts and Denial of Service attacks are quite frequent and an unpredictable threat. sipPROT's main purpose is to prevent those attacks.

The screenshot shows the sipPROT configuration page within the bicom SERVERware interface. The top navigation bar includes the bicom logo, a search bar, system date (28 May 2018 14:58:57), and user information (Administrator). The left sidebar contains a 'MAIN MENU' with options like Dashboard, Domains, Hosts, VPSs, Statistics, Backup, Settings (selected), Storage, Networking, sipPROT, and Reports. The main content area is titled 'sipPROT' and has three tabs: 'General' (active), 'Whitelist & Blacklist', and 'Notification Recipients'. The 'General' tab contains the following settings:

- Protocol: UDP
- SIP Port: 5060
- SIP Blocking Rule: 10 bad registration per minute
- Dynamic Block Time: 1 Hour
- Block Threshold: 0
- Blocked User Agents: friendly-scanner, Elite
- Additional Protections:  TFTP Protection,  DNS Protection
- Notifications:  Send Daily Attack Summary,  Send Log For Every Attack

At the bottom of the configuration area, there is a note: 'Limited to: 20 Instance(s) - Expiry date: Sep 16, 2045' and a 'Save & Apply' button.

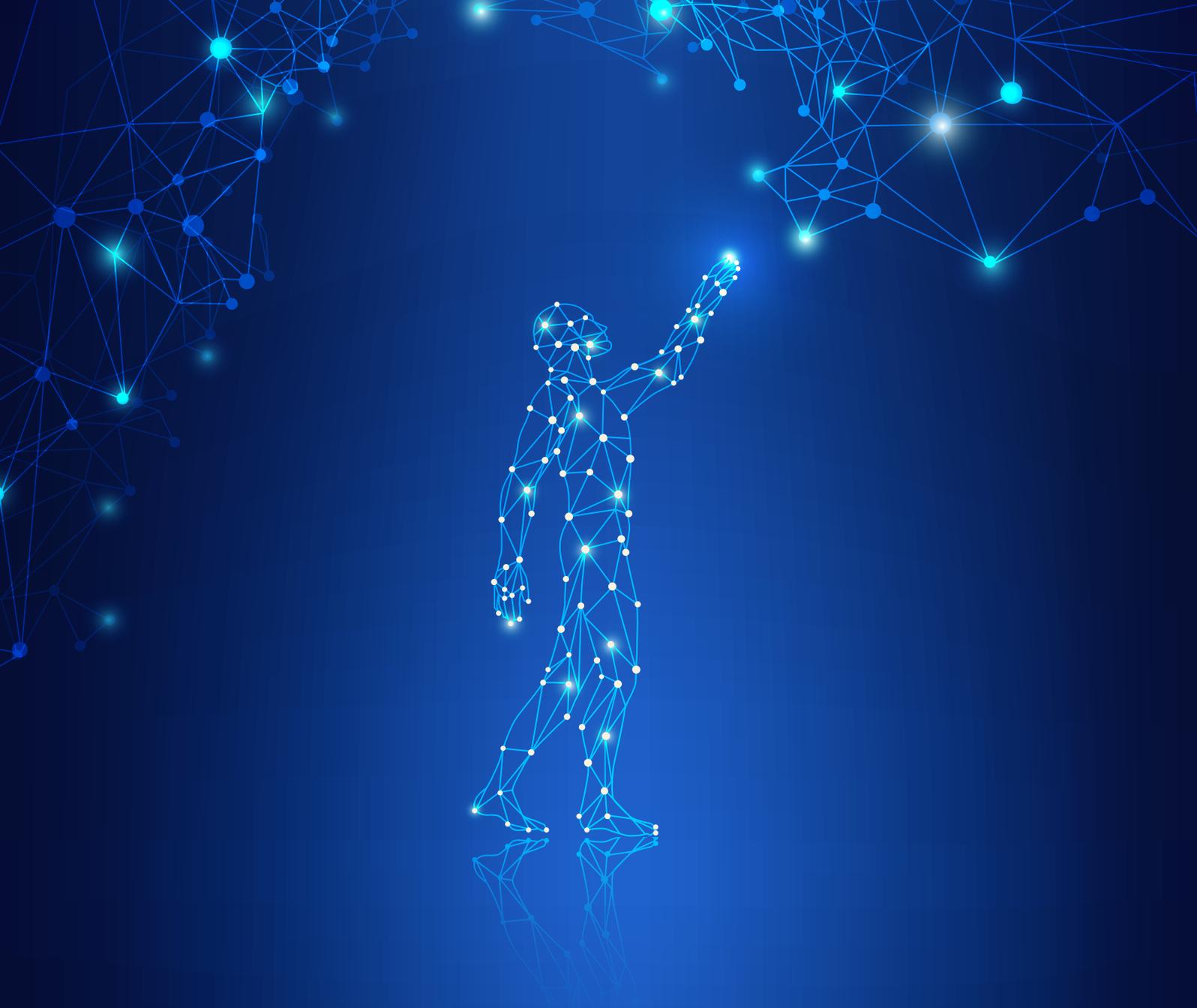
## Dynamic Blocking and Unblocking

sipPROT features a fully automated attack protection system which blocks attacks more efficiently than most other solutions. In the case of an attack, it updates the firewall rules and blocks IP addresses from which the attack is coming for a specific amount of time. If attacks stop in a certain period of time, sipPROT unblocks compromised IP addresses automatically.

## Auto Provisioning Attack Detection

Auto-provisioning service is generally considered one of the most vulnerable spots of a SIP system. sipPROT covers this segment as well through the integrated TFTP Brute Force attack detection. An active attacker can redirect profile provisioning request and change the configuration parameters. Then the attacker can redirect phone calls through a malicious server, change passwords, turn the phone into a bug, and exfiltrate system logs (including those numbers dialed by a user).





## **DID YOU KNOW?**

sipPROT helps prevent huge financial losses, wasted time and customer churn. Our security engineers are constantly developing new and improved ways of protecting your VOIP system from potential threats. We like to stay one step ahead of hackers. Protect your PBXware from attackers.





# HOSTED or ON-PREMISE

At Bicom Systems, we offer both hosted and on-premise solutions for Unified Communications. When you choose the hosted deployment option, you are relieved of the burden of purchasing and maintaining the hardware. Companies that opt for the on-premise solution have the complete control over all their servers and data.

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