

sipPROT DATASHEET

sipPROT datasheet contains comprehensive list of features and their detailed description.

KEEP YOUR SYSTEM SECURE

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. Brute-force break-in attempts and Denial of Service attacks are quite frequent and an unpredictable threat. Unprotected VoIP PBX systems are very sensitive to this kind of attacks. The most common consequences of this kind of network attack are VOIP service downtime, Call quality issues due to an overloaded network, and Direct financial loss due to network instability. sipPROT's main purpose is to prevent those attacks.

IP ADDRESS FILTERING AND BLOCKING

Whitelist

List of IP addresses that will not be blocked by sipPROT under any circumstances. IP addresses in the whitelist are added manually by the administrator.

Blacklist

List of IP addresses that will always be blocked by sipPROT. IP addresses in the blacklist are added either manually, by administrator, or automatically by sipPROT, depending on what is set up in sipprot.conf configuration file.

Whitelist/Blacklist Management

Whitelist/Blacklist management using the ipset module if present on the system.

SIP TRAFFIC PROTECTION

Protocols TCP/UDP

sipPROT is monitoring SIP traffic on both TCP and UDP protocols.

Dynamic Blacklist Management

sipPROT will temporarily put any IP address to the dynamic blacklist in case it unsuccessfully tries to register to PBXware multiple times in a short time span. After the predefined period expires, the IP address will be removed from the dynamic blacklist automatically.

SIP Register Protection

SIP REGISTER protection dynamically blocks an IP address if a number of bad SIP registration exceeds the configured threshold (hit_count) within a given monitoring period (monit_period). The block_threshold config parameter defines how many times an IP address will be dynamically blocked before it is added to the static blacklist.

SIP Invite Protection

SIP INVITE rate limitation does not fully protect against a SIP INVITE attack but just mitigates a DoS attack impact. When a number of simultaneous SIP INVITES exceeds the configured limit a notification will be sent to the system administrator. It is up to the system administrator to decide whether to permanently add source IP address to the blacklist or to increase rate_limit if INVITES are coming from a known IP address.

SIP Scanners Protection

Report generator allows users to create a report from historical data based on the preferred criteria.

TFTP Protection

TFTP protection allows you to protect your servers against TFTP brute force attacks by using the rate limit. In an example of default settings, if SIPprot detects more than 100 tftp request from a single IP in one minute, the further requests from that IP will be limited at 10/minute.

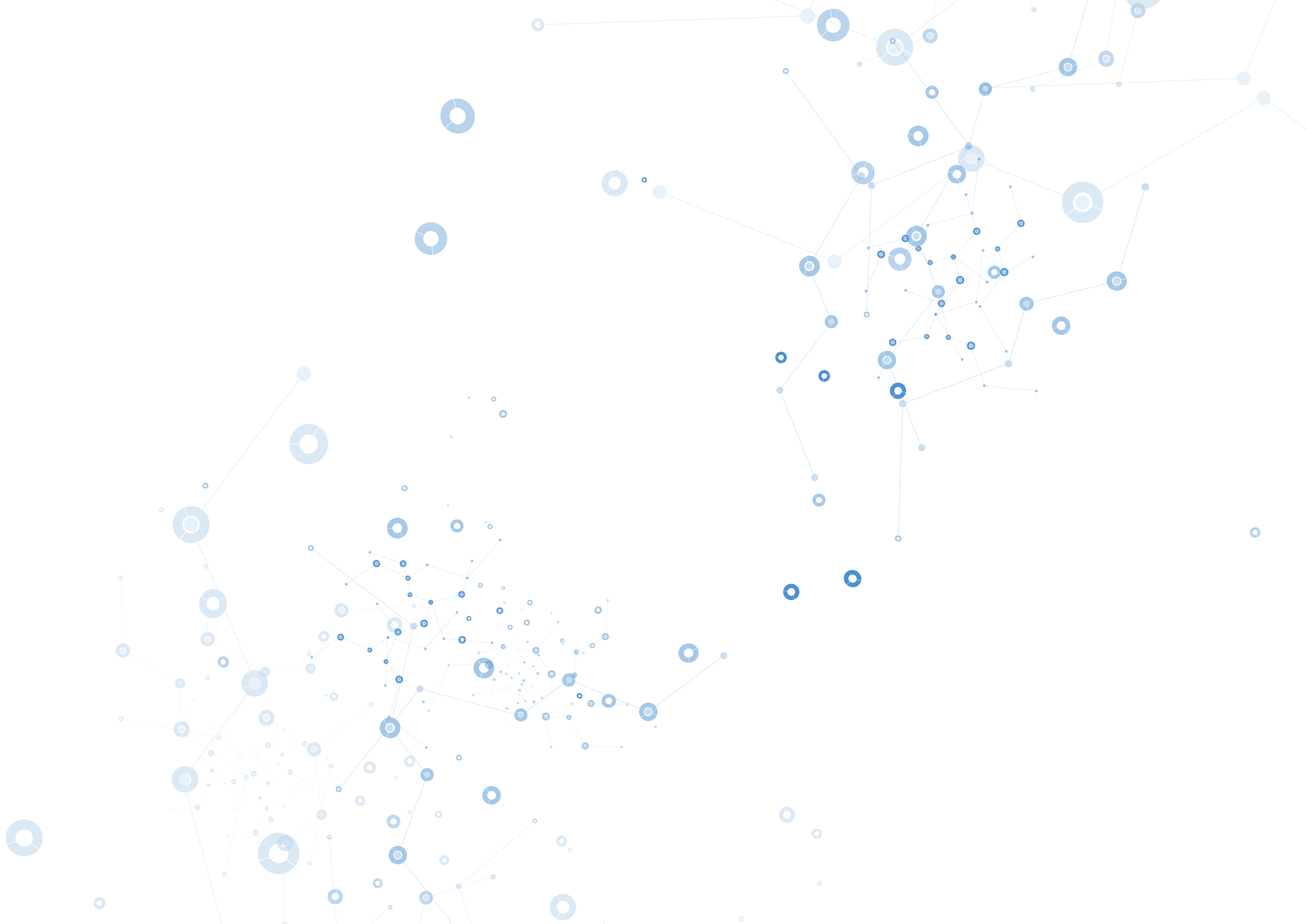
DNS Protection

DNS protection allows you to protect your servers against recent glibc vulnerability (CVE-2015-7547) that affects DNS clients. To enable/disable this kind of protection use the dns_protection config parameter.

LOGGING AND NOTIFICATIONS

Logging and Notifications

You can configure sipPROT to send out notifications informing the administrator of potential attacks.



ONE STEP AHEAD

Our security engineers are constantly developing new and improved ways of protecting your VOIP system from potential threats.



CONTACT BICOM SYSTEMS TODAY

to find out more about our services

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