

snom 4S SIP Proxy/Registrar Datasheet Version 2.10

4S

Key Features

- **SIP Proxy, Registrar and Location Server**
- **Stateful Forking Proxy**
- **UDP and TCP Transport Layer**
- **DNS SRV**
- **Integrated Registrar and Location Server**
- **User-based Access Control**
- **Web Interface Maintenance**
- **Available for Microsoft™ Windows™ 2000, XP and Linux**
- **Entry Level, SME and Professional Edition**

snom
VoIP-phones

The snom 4S forking proxy is a low-to-medium scale SIP forking proxy according to RFC 3261.

The proxy is available in Microsoft Windows and Linux versions. The Microsoft Windows version runs as Windows service, the Linux version as daemon.

The proxy comes in three flavours. The entry model is intended for customers that want to set up a small VoIP network and don't need advanced features. The SME version addresses the medium size company with up to 50 users and provides the most relevant SIP features to the user-agents. The Xperienced

version adds features that address SIP based telephony operators with up to a few thousand subscribers.

The proxy supports DNS A/CNAME and DNS SRV based location of destinations. This allows fault redundant setup of network components like media servers. The proxy automatically falls back to UDP transport layer if TCP is not available. This allows seamless operation of RFC2543 compliant equipment supporting only UDP.

The proxy supports the latest routing scheme (loose routing), however also handles old-style strict routing. The proxy is always in the routing

The screenshot displays the web interface for the snom 4S Registrar/Proxy. The main content area is titled "Registrar Settings" and contains the following configuration options:

- Require Authorization: off on
- Trace REGISTER: off on
- Save Registrations to File: off on
- Min. Reg. stry. time (s): 300
- Max. Reg. stry. time (s): 300
- Default Q (0.00-1.00): 0.5
- Reject Registrations across NAT: off on

A "Save" button is located at the bottom right of the settings panel. The interface also includes a navigation menu at the top with "Main", "Registrar/Proxy", and "Registration" options, and a language selector in the top right corner set to "en|gb". On the right side, there are three small images: a person at a computer, a close-up of a telephone keypad, and a hand holding a telephone handset.

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path, which enables features like call logging which can serve for billing purposes in the Xperienced model.

Registrations may include Path headers. This feature allows user agents to register through NAT application layer gateways and makes sure that user agents are addressable behind NAT. Saving registration information to the file system makes system recovery seamless (e.g. after reboot).

If the proxy itself is inside NAT, outgoing packets may be sent through a NAT gateway. That allows operating an NAT application layer gateway parallel to a firewall.

The build-in dial plan can be used to give explicit access or denial to patterns, e.g. international numbers. It can also be used to implement a location specific dial plan that informs the user agent if a number is incomplete. The proxy forwards request to a number of gateways depending on their

destination.

The Find-Me feature searches registered users in parallel according to the probability that was provided with their registration. Using this feature, several user agents may be called parallel and after other until a user picks up. Registering a mailbox redirects calls to the mailbox even if the respective user agent is available (e.g. PC turned off).

User-based authentication challenges users using the MD-5 algorithm. This way the client base of the proxy can be restricted to a list of known users and their rights can be controlled using generic patterns (e.g. access to international numbers).

Sending instant messages to registered users increases the overall acceptance of the new technology.

The number of registrations can be extended with additional licenses.

Feature	Entry	SME	Xperienced
Number of User-Agent Registrations	10	50	500
Call Log Length	10	100	500
Path Registration Support		•	•
Authentication Support		•	•
Static Route, PSTN Gateway Forwarding		•	•
NAT Forwarding		•	•
Find-Me (Sequential Forking)		•	•
Dial Plan, Pattern Based Access Rules		•	•
Error-Info Generation		•	•
Tracing, Message Flow Analysis		•	•
Call Logging			•

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 20 Aug 2002, Version 2.10
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