

brekeke
SIP Server



brekeke

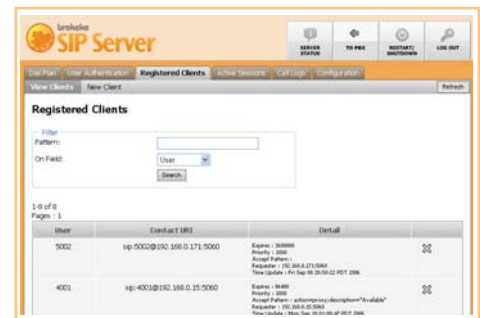
Brekeke Software, Inc.

Outline

Brekeke SIP Server is a SIP-based communication platform for service providers and enterprises. Brekeke SIP Server has original NAT traversal functionality as well as flexible routing control functions. Brekeke SIP Server enables high-quality and reliable communications not just for VoIP but also for any IP communications.

Key Benefits

- Support for Media Stream over NAT Traversal
- Multiple-Domain Support
- Flexible Scalability
- Highly Interoperable with third party products and services
- TCP/UDP Conversion
- Customizable to meet unique needs through Dial Plans & Plug-ins
- Simplified Administration through browser-based management



Sample view of Brekeke SIP Server

Features

- **Registrar Service**
Brekeke SIP Server receives REGISTER requests from SIP UAs and updates its database appropriately. Using the registrar function, you can receive calls from any SIP UA using your unique SIP-URI.
- **Call Routing**
Brekeke SIP Server routes SIP requests from a SIP UA, or other server, to the most appropriate SIP-URI address based on its registrar database and Dial Plan. Brekeke SIP Server supports a SIP redirect feature which allows servers to redirect a request back to SIP UAs.
- **NAT Traversal**
Brekeke SIP Server enables SIP UAs behind the NAT to talk with other SIP UAs, including video over NAT traversal. Using NAT-enabled firewalls ensures the security that you want to retain, while giving users the ability to make media calls over the internet between different networks.
- **Dial Plan**
With the Dial Plan feature, you can use regular expressions to filter and apply rules for headers and IP addresses in the SIP packets. Brekeke SIP Server's Dial Plan feature increases compatibility between SIP compliant products and provide added capability for creating complex call routing.
- **Upper/Thru Registration**
Upper/Thru Registration allows for easy configuration of corresponding users on other SIP servers. With this feature, you can take advantage of SIP communication through ITSP connections or third party SIP Servers.
- **Authentication**
By specifying authentication settings on REGISTER or INVITE requests, you can limit calls that go through Brekeke SIP Server. Authentication Plug-in is available for the users who wish to use an existing user directory service.
- **Multiple-Domain Hosting**
Upper/Thru Registration allows for easy configuration of corresponding users on other SIP servers. With this feature, you can take advantage of SIP communication through ITSP connections or third party SIP Servers.
- **Session Management**
The real-time session management is available through the GUI. View session status or manually terminate any active calls.
- **TCP Transport Support**
Brekeke SIP Server added a new Transport Protocol, TCP, starting in version 2.2. With this support, Brekeke SIP Server is compatible with a variety of TCP enabled UAs, servers, and applications.
- **UPnP**
Brekeke SIP Server can detect UPnP enabled router and control it remotely for NAT traversal.
- **B2BUA**
Brekeke SIP Server can behave as a B2BUA and hide private information from SIP packets.

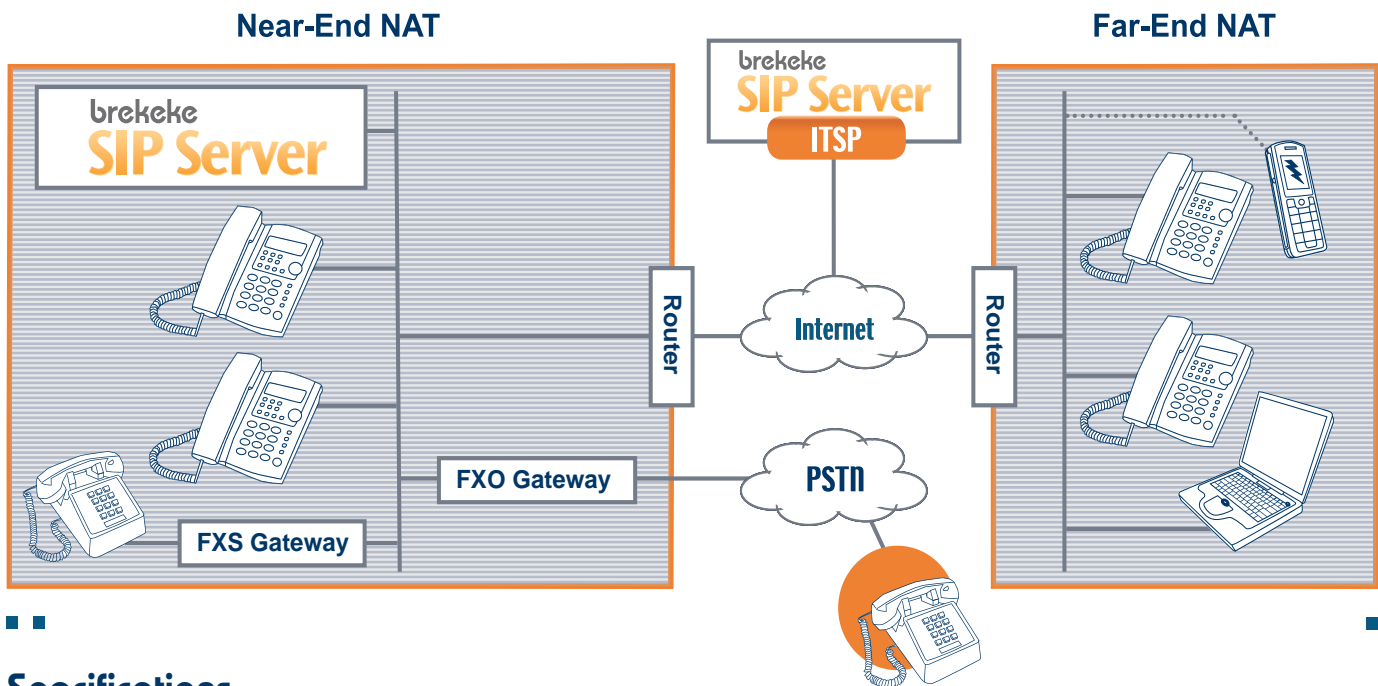


Feature Set Comparison

	Advanced	Standard/ Evaluation	Academic	SIP Server for PBX
Protocols				
- Transport	UDP,TCP	UDP,TCP	UDP	UDP,TCP
- Signaling	SIP	SIP	SIP	SIP
- Media	RTP, RTCP	RTP, RTCP	RTP, RTCP	RTP, RTCP
Multiple Domains Hosting				
- Maximum Domains	Unlimited	2	2	1
SIP Proxy				
- Authentication	✓	✓	✓	✓
- NAT Traversal	✓	✓	✓	✓
- Header Modification	✓	✓	✓	✓
- Redirection	✓	✓	✓	✓
- DNS SRV Resolving	✓	✓	✓	✓
- BZBUA Mode	✓	✓		✓
SIP Registrar				
- Authentication	✓	✓	✓	✓
- Internal Database	✓	✓	✓	✓
- 3rd Party DB Connection	✓	✓	✓	✓
- Upper Registration	✓	✓	✓	✓
- Thru Registration	✓	✓	✓	✓
RTP Relay				
- Audio	✓	✓	✓	✓
- video	✓	✓	✓	✓
Dial Plan				
- Maximum Rules	Unlimited	Unlimited	5	Unlimited
- Multiple Targets Specification	✓			
- SOAP Client	✓			
- Alias Database	✓			
NAT Traversal Methods				
- RTP relay	✓	✓	✓	✓
- UPnP Client	✓	✓	✓	✓
- STUN Client	✓	✓	✓	✓
- Keep Alive	✓	✓	✓	✓
Redundancy Methods				
- Session Mirroring	✓			
- Database Sharing	✓			
Failover/Load-balance Methods				
- Multiple Targets	✓			
- DNS SRV	✓	✓	✓	✓
- Dial Plan	✓	✓	✓	✓
- Heartbeat	✓			
Authentication				
- Radius	✓			
- Database	✓	✓	✓	✓
- IP Address Filtering	✓	✓	✓	✓
- Dial Plan	✓	✓	✓	✓
- Plug-in	✓	✓	✓	✓
Billing				
- Radius	✓			
- Call Logs	✓	✓	✓	✓
- Plug-in	✓	✓	✓	✓
Performance Optimization				
- Thread Pooling	✓			
- Thread Sharing	✓			
Other Features				
- Specify own UA/Sewer Headers	✓			
Plug-in APIs				
-Accounting	✓	✓	✓	✓
-Authentication	✓	✓	✓	✓
- Dial Plan	✓	✓	✓	✓
- Logging	✓	✓	✓	✓
- Remote Mangement API	✓	✓	✓	✓
Administration GUI				
- User Management	✓	✓	✓	✓
- Routing Management	✓	✓	✓	✓
- Registered Clients List	✓	✓	✓	✓
- Active Session List	✓	✓	✓	✓
- Session Logs	✓	✓	✓	✓
- Backup/Restoe	✓	✓	✓	✓
- Update Software	✓	✓	✓	✓
- Alias List	✓			



Sample Network Structure



Specifications

■ Protocol for Signaling	SIP (RFC3261 Standard)
■ Protocols for Delivery of Media	RTP, RTCP (When using NAT Traversal)
■ Routing Methods	Register database, Dial Plan, B2BUA
■ NAT Traversal	Proprietary method, UPnP
■ Maximum Number of Concurrent Sessions	Unlimited
■ Administration	Web-based Administration

Brekeke SIP Server PLUG-IN

■ Accounting Plug-in	Controlling sessions based on Accounting information or collecting call log data for accounting purposes (ex., radius accounting)
■ Authentication Plug-in	Authenticating SIP UAs using existing or customized method (ex., radius authentication)
■ Dial Plan Plug-in	Creating Dial Plan to work with existing or customized programs and services

Operating Environment

■ Operating System Supported	Windows, Linux, Mac OS X, Solaris
■ Java	JDK 1.5 or later
■ Memory	256 MB minimum

Contact Us



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