Flex-ICX Server Data Sheet

PRODUCT OVERVIEW

The Flex-ICX Server is a software application that provides call-routing services in an IP telephony network. Using the Flex-ICX Server, service providers and enterprises can create large-scale, highly reliable packet voice networks.

The Flex-ICX Server is part of the FlexSERV Voice Infrastructure and Applications (VIA) solution for service providers. Service providers can use the Flex-ICX Server to offer voice services between SIP-based application service providers (ASPs) and the public switched telephone network (PSTN). The Flex-ICX Server also provides residential voice services over broadband access as part of the Flexsolv Broadband Local Integrated Services Solution (BLISS). Enterprises can use the Flex-ICX Server for internal IP telephony transit among enterprise voice gateways and SIP-capable IP PBXs, as well as interconnection with the PSTN.
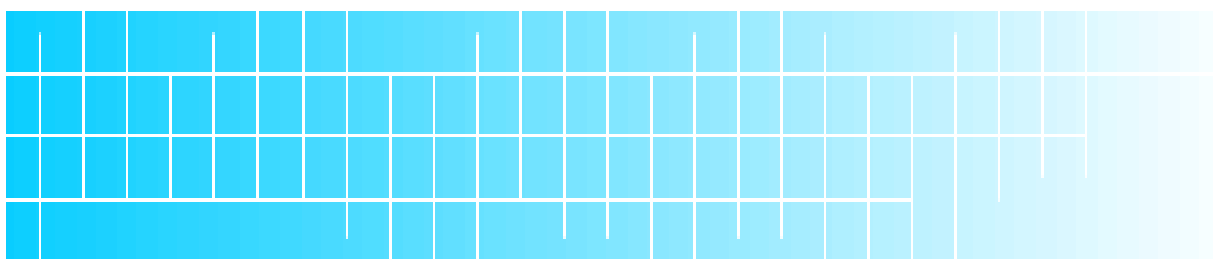
PRODUCT OPERATION

The Flex-ICX Server accepts registration requests from SIP endpoints such as IP telephones, residential voice gateways, and PC applications, creating a dynamic record of the endpoint's current contact address. Static registrations can also be configured directly on desired endpoint. If no match is found in its registry, the Flex-ICX Server can use external Telephone Number Mapping (ENUM) or location request (LRQ) queries, or locally configured static routes to determine where to forward the request.

The Flex-ICX Server can perform a digest authentication of SIP Register and Invite requests, and can encrypt SIP requests and responses using Transport Layer Security (TLS). The Flex-ICX Server can generate RADIUS accounting records for all call attempts.

Redundant deployment of the Flex-ICX Server can provide high availability and increased performance. Both servers in a pair are active, sharing dynamic registration data. An external means, such as Domain Name System (DNS) services (SRV) records, must be used to distribute SIP requests between servers in a redundant deployment.

A Graphical User Interface (GUI) is provided to configure the Flex-ICX Server. Configuration data is stored in a local database, which is automatically replicated in redundant deployments. A Simple Network Management Protocol (SNMP) interface is also provided to monitor and control the Flex-ICX Server.

Product Features

Product Feature	User friendly Web Interface
	CDR (Call Details Record) via Web access
	Remote Extensions
	Voicemail
	Automated Attendant
	Black lists
	Blind Transfer
	Call Detail Records
	Call Forward on Busy
	Call Forward on No Answer
	Call Forward Variable
	Call Monitoring
	Call Parking
	Call Queuing
	Call Recording
	Call Retrieval
	Call Routing (DID & ANI)
	Call Snooping
	Call Transfer
	Call Waiting
	Caller ID
	Caller ID Blocking
	Caller ID on Call Waiting
	IVR Menu System
	Ring Groups
	Call Queues
	Conference Rooms
	Follow-Me
	Time-Based Routing
	Advanced Dialing Rules
	Music-On-Hold
	Paging and Intercom
	Web Access to Voicemail
	Admin Status Screen
	Network Management Tool
	Phone Provisioning Tool
	Remote Network Monitoring

Product Specifications

VoIP Protocols	SIP (Session Initiation Protocol)
	IAX (Inter-Asterisk eXchange)
Codecs	ADPCM
	G.711 (A-Law & μ-Law)
	G.729a
	GSM
Capacity	Concurrent calls: 120 (Recommended)
	Extensions: Unlimited
	Conference Rooms: 24
	Conference Attendees: 350
Software	AsteriskNOW: version 2.02
	Linux version: CentOS 5.8
	GUI: FreePBX
Hardware	Processor: Intel Core 2 Duo E8400
	RAM: 2 GB
	Hard disk: 80 GB 2.5"
	RAID1 - Dual hard drive for increased system reliability

Power and Environment Specifications

Power Supply	Internal Voltage: - 48 VDC
	Power Supply: 1+1 Redundancy, high availability cluster configuration
Nominal Power	90 watt
Environment	-40 to +70°C Ext. operating temp. 5%– 95% humidity non-condensing
	-40 to +85°C storage temp.