



PacStar IQ-Core[®] Software



Summary Dashboard

Devices

- Cisco 3560 Switch
- Cisco NME-16 Switch
- Cisco 3825 Gateway
- CUCM Publisher Server
- REDCOM Phone Switch
- Cisco 5510 Security Appliance
- Microsoft Exchange Server
- DRS 2000TR-III UPS
- IQ-Core Server

Phone System Status

- Number of Traces: 0
- Heart Beat: 737271
- Attempted Calls: 2
- In Progress Calls: 0
- Connected Calls: 0
- Completed Calls: 1
- Registered Phones: 35
- Trunks In Service: 4
- Channels In Use: 0

Recent Events

Type	Time	Source	Text
Notice	2011/10/06 10:31:34	IQ-Core Server	Backup of test ended
Notice	2011/10/06 10:31:34	IQ-Core Server	Backup of device (ID: 'IQCoreServer') succeeded.
Notice	2011/10/06 10:31:34	IQ-Core Server	Saved configuration of IQCoreServer.
Notice	2011/10/06 10:31:33	Cisco 3825 Gateway	Backup of device (ID: 'Router1') succeeded.
Notice	2011/10/06 10:31:33	IQ-Core Server	Saved configuration of Router1 to backup.
Notice	2011/10/06 10:31:33	Cisco NME-16 Switch	Backup of device (ID: 'Switch1') succeeded.
Notice	2011/10/06 10:31:33	IQ-Core Server	Saved configuration of Switch1 to backup.
Notice	2011/10/06 10:31:31	Cisco 3560 Switch	Backup of device (ID: 'Switch2') succeeded.
Notice	2011/10/06 10:31:31	IQ-Core Server	Saved configuration of Switch2 to backup.
Notice	2011/10/06 10:31:30	IQ-Core Server	Backing up configuration data of test
Notice	2011/10/06 10:30:38	IQ-Core Server	Backup of test backup ended
Notice	2011/10/06 10:30:38	IQ-Core Server	Backup of device (ID: 'IQCoreServer') succeeded.
Notice	2011/10/06 10:30:38	IQ-Core Server	Saved configuration of IQCoreServer.
Notice	2011/10/06 10:30:38	REDCOM Phone Switch	Backup of device (ID: 'TDMSwitch') succeeded.

IQ-Core Software simplifies the setup and management of commercial-off-the-shelf (COTS) networking/communications solutions - protecting systems from mis-configuration, reducing downtime, training, and support requirements. Today, IQ-Core Software manages the PacStar 2000, 4000, and 6000-series products and is deployed broadly throughout the US Department of Defense as well as in civilian and public safety situations.

IQ-Core Software is also available for integration into custom deployable, OEM or enterprise-class solutions. The software is designed with "net-centric" principles, including open/flexible APIs enabling rapid customization and support for new networking equipment and applications. PacStar can quickly adapt the user interface to support specific customer requirements using IQ-Core Software's module, plug-in architecture.

Features

- Dashboard view for "at a glance" status information
- Wizards replacing hundreds of third-party device screens
- Automation and simplification of complex tasks
- Unattended monitoring/alerting
- Low-bandwidth protocol, minimizing bandwidth consumption
- Available in DoD JITC-certified versions
- PDF-based, user documentation and context-sensitive online help

Client/Server Approach

IQ-Core Software runs on Microsoft® Windows Server® 2003/2008, Windows XP and Windows 7. The server portion of the software contains the monitoring and middleware functions. The client portion enables viewing and controlling of the system and its devices.

Flexible Plug-in Architecture

PacStar can quickly integrate support for nearly any hardware or software system. Supported devices:

- Cisco® 1800, 2800 and 3800 series Integrated Services Routers (ISRs)
- Cisco 1900, 2900 and 3900 series ISRs

- Cisco 3251 Mobile Access Router
- Cisco Catalyst® 3560 and 3750 series switches
- Cisco ASA (Adaptive Security Appliance) 5500 series
- Cisco Unified Communications Manager (UCM)
- Cisco UCM Express
- NET VX 400 and VX 900
- REDCOM® SLICE® TDM gateway
- REDCOM HDX·C TDM gateway
- NEXUS HAWK cellular/Wi-Fi/3G gateway
- Microsoft Exchange
- DRS UPS 2000 TR-III
- Microsoft Windows servers and workstations
- Generic device interfaces

Real-Time Data Display

IQ-Core Software captures and processes system information in real-time. Examples:

- Device up/down status
- Phone trunk up/down and usage statistics
- Phone call statistics (attempts, in use, etc.)
- Router and switch interface status

- Device internal temperatures, when available
- WAN/LAN bandwidth utilization
- Router CPU utilization

Eventing, Alerting, Auditing

IQ-Core Software consolidates events from devices (syslog and SNMP), Windows event logs, and internally detected conditions.

- Real-time events displayed as they happen
- Events are stored, enabling troubleshooting of past problems
- Alerts are generated for important events
- Alerts are configurable
- Alerts can be emailed to multiple recipients
- System usage is audited with logging of users
- Audit data is stored for historical viewing



Configuration Backup/Restore

IQ-Core Software can backup and restore configurations for controlled devices at any time.

- Back up one or more devices
- Configurations are compressed into a single file
- Restoration of one or more devices
- Download configurations from remote locations
- Backups can be put on auto-run to fit a schedule

Device Management

- Soft reset
- Hard reset (with PacStar IQ-Core Case)
- Built-in diagnostic utilities
- Easy password changing
- Fast console (Telnet/SSH) access (no manual login)
- View device interface information and configurations
- View, enable/disable switch ports
- Execute customized command scripts

Real-Time Network Performance Data

- Built-in diagnostic utilities
- Trunk channel usage
- Phone statistics summary
- Server memory and disk usage
- Data retrievable by time period
- Consolidates and correlates disparate data from multiple devices
- Advanced DSN Integrated Management Support System (ADIMSS) integration

Real-Time Call Tracing

- Source phone number
- Destination phone number
- Source trunk when available
- Call start time and stop time

Phone and Line Configuration

- Add and remove analog, BRI, VoIP phones
- Detailed display of phone and line information
- Associate phone numbers with user names
- Phone type, IP, MAC, and registration status
- MLPP configuration
- Easy creation of hotlines
- View Cisco UCM search space, partition settings
- View Cisco UCM route plan



The screenshot shows the 'Add VoIP Phone Wizard' dialog box, specifically the 'Choose the Switch and Port Script' step. The dialog prompts the user to select the port into which this VoIP phone is or will be plugged on the switch. It includes a table with columns for Switch, Port, and Script. The 'Show port command preview' checkbox is checked. The dialog has 'Help', 'Cancel', '<Back', and 'Next>' buttons at the bottom.

Switch	Port	Script
Cisco 3560 Switch	FastEthernet0/1	Set to Voice VLAN Only

The screenshot shows the 'Add VoIP Phone Wizard' dialog box, specifically the 'Enter the Phone MAC Address' step. The dialog prompts the user to type the MAC address for this phone. It includes a text input field for the MAC address and 'Help', 'Cancel', '<Back', and 'Next>' buttons at the bottom.