PacStar™ IQ-Core™ Software

IQ-Core Software provides comprehensive, system self-management for PacStar 4000-, 5000-, and 6000-series products. IQ-Core Software simplifies setup and management of COTS networking/communications solutions, protects the system from misconfiguration by preventing many operator errors, and reduces training and support requirements.

Patent-pending IQ-Core Software is also available for integration into custom, deployable and custom, fixed, enterprise-class solutions (public sector and military). 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.

When using the software to manage systems deployed with IQ-Core Case, the software provides additional options for COTS systems. These options include temperature monitoring, remote power management, and remote system console management.

Features

- Dashboard view of the entire system
- Integrated, easy-to-use system management interface
- Wizards replace hundreds of different third-party device screens
- Automation and simplification of complex tasks
- Client/server architecture maximizes usability while reducing bandwidth
- Architecture allows for rapid localization into many languages
- Unattended monitoring/alerting
- Available in DoD JITC-certified versions
- Award-winning, PDF-based, user documentation
- Context-sensitive, PDF-based, online help

Client/Server Approach

IQ-Core Software runs on Microsoft® Windows® Server® 2003 or XP. The server portion of the software runs all of the functionality, and rich clients enable 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. Currently supported devices:

- Cisco® 1800-, 2800-, and 3800-series ISRs (Integrated Services Routers)
- Cisco 3725 Multiservice Access Router
- Cisco Catalyst® 3560- and 3750-series switches
- Cisco ASA (Adaptive Security Appliance) 5500-series
- Cisco Unified Communications Manager (CUCM)
- CUCM Express
- DTECH WHISPER™ 400
- NET VX 400
- REDCOM® SLICE® TDM gateway
- REDCOM HDX•C TDM gateway
- DRS Universal Power Systems UPS 2000 TR-III
- 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 states
- Phone trunk up/down and usage states
- Phone call statistics (attempts, in use, etc.)
- Router and switch interface states
- Device internal temperatures when available
- Multiple clients can view any piece of data (efficient transfer, asynchronous)

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Eventing, Alerting, Auditing

IQ-Core Software consolidates events from devices (syslog and SNMP), Windows event logs, and internally detected conditions.
- Real-time events view as they happen
- Events persisted for troubleshooting past problems
- Alerts generated for important events
- Alerts are configurable
- Alerts can be emailed to multiple recipients
- System usage is audited with user who performed the function
- Audit data persist for historical viewing

Backup/Restore

IQ-Core Software can 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 auto-run on a schedule

Device Functionality

- 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 sets

Real-Time Network Performance Data

- 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 state
- MLPP configuration
- Easy creation of hotlines
- Search space, partition settings
- Route plan viewing

IQ-Core Case Integration

- Plug-n-play integration with IQ-Core Case platform
- Device information automatically integrated with software
- New trays (devices) auto-recognized
- Remote hard (AC power) reset of devices
- Remote console (serial) access to any device
- Full case/device temperature monitoring and control
- Extended device information in case display (no additional laptop needed)
- Alerts on secondary displays