

iSurfJanus™

Multi-Homed WAN Gateways

iSurfJanus, Your Multi-Homing Solution

- Multi-Homing By Single or Multiple of Service Providers w/o ISP Corporation
- Network WAN Technology Independent – Any Combination of T1/E1, xDSL, MPLS, Cable or Wireless Links
- Inbound & Outbound of Load Balances IP Traffic over Multiple WAN Connections
- Integrated with DHCP, iNAT, DNS Server, Intelligent Routing, PPPoE, QoS & Firewall Features in One Appliance

Introduction

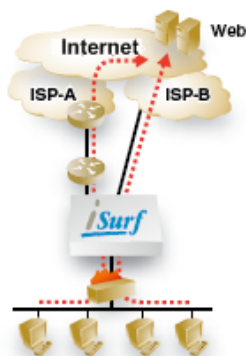
The explosive deployment of broadband IP network services like xDSL, MPLS or Metro-Ethernet and their rapid adoption by businesses present a significant opportunity for Service Providers. Yet the fierce competition to capture broadband customers has made it difficult for Service Providers to maintain high-margin services and strong competitive differentiation. At the same time, businesses are demanding a higher degree of network reliability as they become increasingly reliant on their Internet connectivity.

Addressing both these issues, iSurfJanus products allows any IP broadband service providers to deploy advanced, high-margin business services with high quality of IP services to customers simply and inexpensively.

Inbound Load Balancing

The session-based load balance of incoming traffic from the internet.

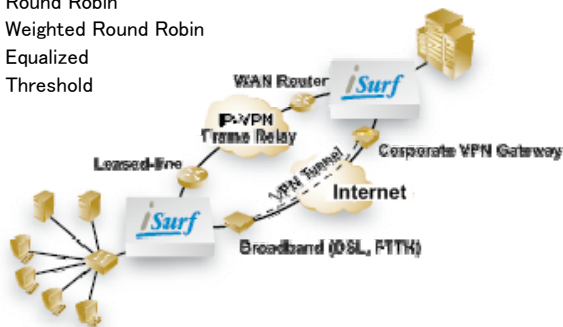
- DNS Round Robin
- Order DNS
- Threshold



Outbound Load Balancing

The session-based load balance of outgoing packet for the internet access, as well as the communication between the site.

- Round Robin
- Weighted Round Robin
- Equalized
- Threshold



iSurfJanus Product Models



iSurfJanus CX

iSurfJanus RX3

iSurfJanus TX2

Overview

- CX: Designed for small/branch offices, 3 WAN ports capable of a total of 100 Mbps throughput. Optional stateful firewall is available in CX.
- RX3: Designed for large/main offices, 3 WAN ports capable of a total of 300 Mbps throughput. Inbox bypass available during a device failure (BP models).
- TX2: Designed for service providers, large enterprises, data center, with 2 Models – TX2-5 & TX2-8 up to 8 WAN ports (with optional fiber interfaces) capable of a total of 1.2Gbps throughput.

Session Management

In the same session, the packet sent and received in the same pathway will be in the same order, even different ISP communication routes between.

Backup Mode

iSurfJanus protects against WAN outages by intelligently monitoring the health of each WAN link and automatically activating backup links when a failure is detected. Email, SNMP traps, and event logs alert administrators of a link failure.

Route Control

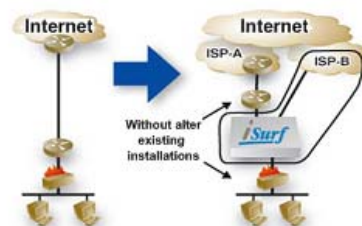
Base on the destination IP address/port number, source IP address/port combinations, iSurfJanus can determine the detail routing path.

Stateful Firewall

iSurfJanus include an integrated stateful firewall that can be implemented on a WAN port-by-port basis, for instance where a WAN port faces a public network. This business-class firewall can identify, alert, and block common attacks like SYN floods, spoofed IP addresses, ICMP floods, and more.

Transparent Configuration & Deployment

iSurfJanus allows delivering a second line to existing installations without reconfiguring the installed firewall or router.







WEB-based GUI for Monitoring & Configuration

All iSurfJanus products can be rapidly provisioned using an intuitive web interface. The password-protected interface can also partition administration rights among multiple administrators. The interface includes graphical reports and charts of individual link utilization.



Hardware Specification

Ordering Model	iSurfJanus CX	iSurfJanus RX3/RX3-BP	iSurfJanus TX2-5	iSurfJanus TX2-8
				
Hardware Appliance	Desktop	1U Rack-mounted	1U Rack-mounted	1U Rack-mounted
Physical Interfaces	4 FE Ports	4 GE Ports	6 GE Ports	6 GE Ports + 4 SFP Ports
WAN/LAN	3 WAN + 1 LAN	3 WAN + 1 LAN	5 WAN FE Port + 1 LAN FE Port	8 WAN FE Port + 1 LAN FE Port
System Console	CLI,RS232 (DB9)	CLI,RS232 (DB9)	CLI,RS232 (DB9)	CLI,RS232 (DB9)
LCD Display	No	Yes	Yes	Yes
System Throughput	100Mbps	300Mbps	1Gbps	1.2Gbps
Sessions Supported	32,000 Session	256,000 Session	1,000,000 Session	1,200,000 Session
Dimension	239x30x156 mm	426x44.4x270 mm	426x44.4x396 mm	426x44.4x396 mm
Weight	1.2 kg	5 kg	8.2 kg	8.2 kg
Power Supply Voltage	36VA	120VA	120VA	120VA
Power Input	AC100-240V@47Hz -63Hz	AC 90-264V@47Hz-63Hz	AC 100-264V@50Hz-60Hz	AC 100-264V@50Hz-60Hz
Operation Temperature	0 – 40 °C	0 – 40 °C	0 – 40 °C	0 – 40 °C
Relative Humidity	5-95% (non condensing)	5-95% (non condensing)	5-95% (non condensing)	5-95% (non condensing)
Safety and Regulatory	FCC Class A, CE, RoHS, VCCI	FCC Class A, CE, RoHS, VCCI	FCC Class A, CE, RoHS, VCCI	FCC Class A, CE, RoHS, VCCI

System Specification

--WAN Features--

Modes of Operation

- Up to 8 Ethernet WAN ports (with Fiber ports)
- Automatic backup
- Automatic VPN backup : CX/RX/TX + VPN device
- Dynamic session-based load balancing
- Per link configuration : NAT, PPPoE, Firewall

Load Balancing

- Inbound & outbound traffic
- Session-by-Session
- IP Mapper & DNS Mapper technology
- Inbound with Round Robin, Specified Order, Downstream / Upstream Threshold / Auto Geographic*
- Outbound with Weighted Round Robin, Downstream / Upstream Equalized, Downstream / Upstream Threshold / Proximity*

Link Monitoring

- Connection to nearest router
- Reachability of up to 4 configurable IPs/host names
- Remote TCP/UDP port monitoring*

--IP Address Management--

IP Forwarding

- Static routing, LAN-side routing
- L4 Source routing with dynamic link assignment
- L4 Destination routing with end point monitoring
- Transparent mode on WAN 1
- INAT: none, 1-to-1, Many-to-1, Many-to-Many
- NAT ALGs : H.323, FTP, SIP
- IPSec pass through and port forward
- Reverse NAT
- IP Mapper for load balancing & backup

WAN IP Assignment

- Direct Ethernet / PPP over Ethernet
- Static IP / DHCP / PPPoE static IP override

LAN IP Assignment

- Up to 8 full Class-A, B, or C Subnets
- DHCP server / DHCP relay

DNS Server

- A & MX records served per load balancing or backup requirements
- Public & private addressing
- Dynamic DNS Client and Server
- High Availability Inbound Load balancing*

Bandwidth Management*

- Class-base bandwidth control on each WANs
- Latency guaranteed

--Security--

Firewall

- Stateful inspection and intrusion detection
- Individual host control
- WAN port forwarding security : WAN to WAN port packet forwarding prohibited
- DMZ support*

--High Availability --

Dual Redundancy

- VRRP (Virtual Redundant Router Protocol)
- Require 2 same model Devices: e.g. CX + CX

--Management --

Configuration

- Web-based, SSL secured
- SNMPv3: MIB I, II, Enterprise
- RS-232 Console Port
- SSH, Telnet
- System status via LCD at front panel

Logs and Reporting

- SNMP traps, Email alert on system status change, Internal or external syslog server
- Reporting on Total Utilization, Link Utilization and Day, Week, Month usage charts
- Reporting on Total Session, Link Session and Day, Week, Month usage charts

* in the product roadmap

Cell NetsVision, Intelligent Cell Management System (iCMS) Specification

Cell NetsVision, an intelligent Cell Management System (iCMS) is the complete, comprehensive and centralized software management platform to monitor, control and manage for all Cell products including Cell IPS, UTM, CMC, Janus and NetsAccess in a highly performance and scalability purpose. It is designed with Cell's proprietary technology of iPlug-in integration and 3-tier system architecture design, it supports powerful capability of operating, administrating, provisioning, and maintaining all system logs or events via a feature-rich Graphical User Interface (GUI) operated by a Java-based server and client based software platform under Linux Operation System. Please refer to Cell NetsVision Datasheet for specification and ordering information.

About Cell Technology

Cell Technology headquartered at Hong Kong SAR, a network & security technology provider specializes in design, develop and deliver innovative and intelligent IP packet processing platform into software and hardware appliances. Cell product solutions including Cell IPS, UTM, CMC, Janus, TMS, NetsVision and NetsAccess address the business needs that optimize the IP network performance, secure the network security and resiliency, and manage the quality of IP services. For more information, please visit www.cell-technology.net.