

System Infrastructure Software for High Availability & Scalability



SAFPlus

OpenClovis SAFplus is a suite of infrastructure software that provides all of the management and underlying system functions for your networking or computing product.

With its modular design the platform can be scaled to meet all of your size requirements, supporting up to hundreds of nodes/computers, all with low latency.

Successfully deployed in the most demanding Tier 1 Networks, it has proven to be highly reliable, affording 99.999% availability.

Key SAFPlus Features

- High Availability
- Scalability
- Low Latency
- In-Service SW Upgrade
- Carrier Qualified
- Rapid Productization
- Fault Detection & Maintenance

Featured Customer Applications Built with SAFPlus

Session Border Controller: SONUS

Networks, Boston, MA: SONUS is one of leading providers of Session Border Controllers. Full functionality of SAFPlus is used in multiple hardware form factors, such as chassis and 1U Servers, and in SONUS's software only solution. SONUS's Session Border Controllers are deployed in thousands of locations worldwide, in both public and private networks.



Micro-Cell Network Controller: IPAccess

Cambridge, UK. An ATCA based system running SAFPlus is used as a network controller that facilitates connectivity with hundreds of micro-cells in the field and at customer premise. Full functionality of SAFPlus is used to ensure availability of the network controller elements and proper network connectivity to micro-cells.



Satellite Monitoring: Mercury Computer Systems

Boston, MA. An ATCA based chassis is used to ensure multi-satellite availability with signal resiliency. Full functionality, system management and high availability, offered by SAFPlus delivers 99.999% satellite reliability.



LTE Product Line: Ericsson-LG, Seoul, Korea. Deployed in Korean public networks, Ericsson-LG uses SAFPlus to implement high availability and multiple system management functions, such In-Service Software Upgrades, across their LTE product line.



C Blade Servers Platform: HP, Plano, TX. HP chose SAFPlus as part of its base HW/SW platform for its C Blade Servers product line. HP's customers have confidently run hundreds of mission-critical applications on the resulting platform.



Inter-Ship Communication: Lockheed Martin

San Jose, CA: An ATCA based chassis is used to ensure highly available communications between various Navy ships. All components of the chassis are monitored to make sure the system is failsafe.



LTE Traffic Management: Avvasi

Waterloo, Canada. Avvasi uses OpenClovis to provide disruptive scalability and availability, including fully redundant HW and automated in-service SW upgrades, for managing and monitoring the exponential growth of video traffic on LTE networks.



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Featured Customer Applications Built with SAFPlus / Cont.



Clustered virtual application servers: Verizon, Boston, MA. Utilizing SAFPlus running on off the shelf hardware Verizon is creating applications that can be deployed virtually, as opposed to point network elements. Indeed, SAFPlus is at the core of this powerful cluster of platforms.

ACTUV Maritime Robot: SAIC, Biloxi, MS. ASW Continuous Trail Unmanned Vessel is a DARPA funded development to keep surface ships from becoming targets of submarines. SAIC based the ACTUV's compute platform on SAFPlus for its high availability and extensive system management capabilities.



Ground Combat Vehicle: Northrop Grumman, USA. The U.S. Army's replacement program for its armored fighting vehicles is the Ground Combat Vehicle (GCV). Northrop chose SAFPlus to implement high availability and system management in the compute platform of its GCV systems.



4G Subscriber Management & Services: Affirmed Networks, Boston, MA. In a move away from proprietary equipment, Affirmed Networks combined open source SAFPlus, Linux and an off the shelf ATCA chassis to create a truly open system. Carriers have embraced this standardized approach for their network data centers.



Broadband Access System: Malaysia Telekom, Malaysia. SAFPlus's high availability feature was trusted to ensure continuous service of up to 100Mbps in Malaysia's Fiber To The Home national network.

Optical Transport: Taseon, San Jose, CA: A high speed backplane based chassis is used to offer optical transport for highly available network connections. SAFPlus is used to ensure high availability and superior system performance management.



Gigabit Ethernet Switch: East China Institute of Technology (ECIT), China. ECIT's routing solution supports multiple form factors and CPU types. SAFPlus's scalability and mixed-endian support makes such an architecture possible.



Optical core router: Padtec, Brazil. High availability is maintained at the network core by SAFplus rapidly detecting a SW or HW failure and then automatically switching over to alternate Padtec applications running on redundant hardware.



Metro service edge platform: MRV, Israel. MRV chose SAFPlus to deliver its scalable, packet/optical, multi-layer service and high capacity aggregation platform for software-defined networking.



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