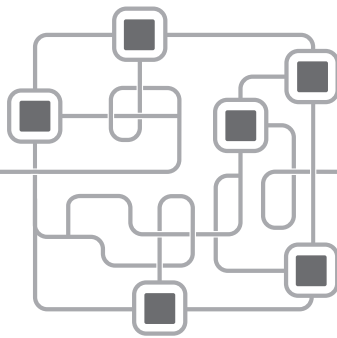


OpenCloud Rhino Telecom Application Server™

Transform your service layer with OpenCloud Rhino Telecom Application Server™



Traditional Service Control Points (SCP), commonly referred to as the Intelligent Network (IN) platform, are high cost, vertically integrated systems. They are simple, static 'one size fits all' solutions which were not built to meet the dynamic nature of today's market.

Although they provide a very robust and reliable platform, today's closed and proprietary SCPs stifle service innovation. New services have to be produced by the SCP vendor, with consequent high costs and long lead times.

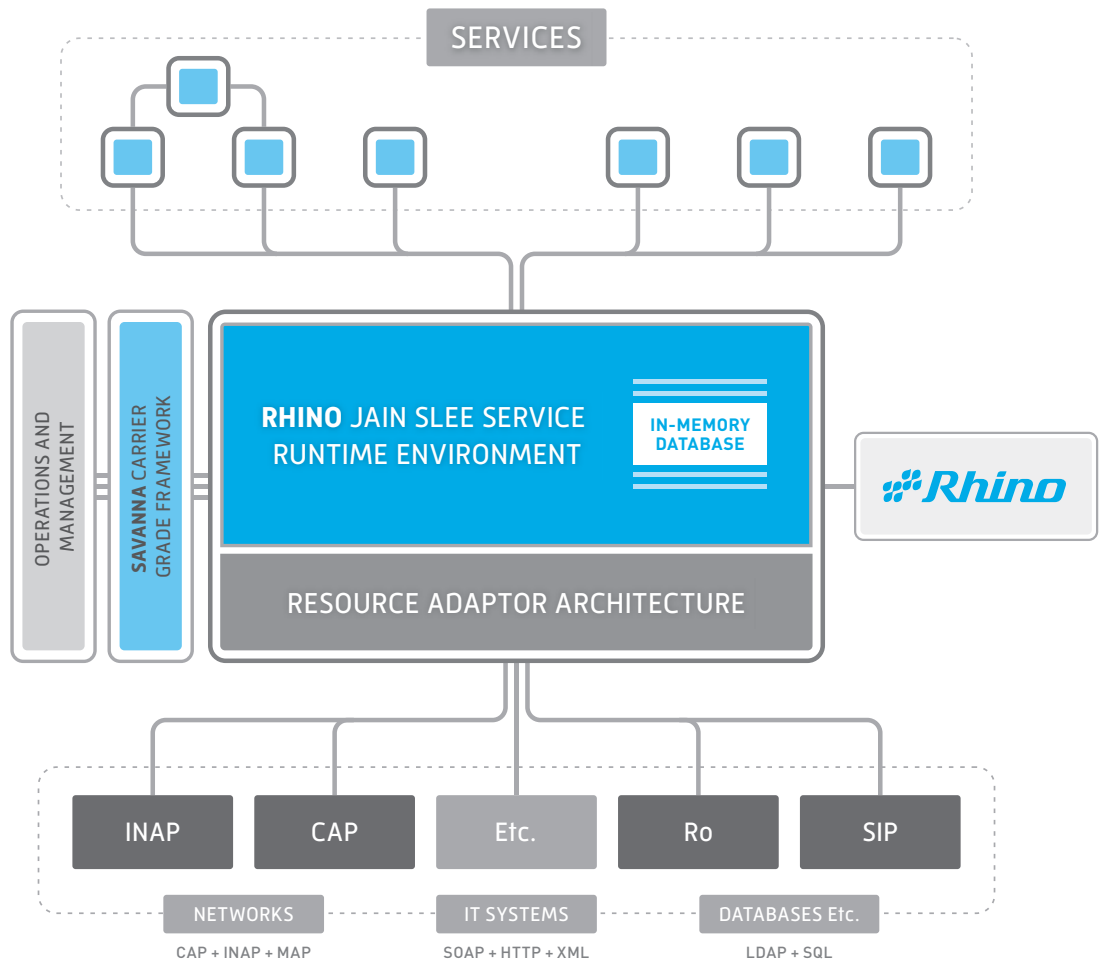
OpenCloud Rhino Telecom Application Server™ (Rhino TAS™) changes all this. OpenCloud enables service agility in the telecoms network through an open, flexible platform that utilises commodity server hardware. Rhino TAS is a modern 'IT' system designed explicitly for the telecoms signalling network.

The platform unlocks the value of the telecom service layer using modern software systems architectures, designed to meet the exacting 'five nines' availability requirements of the telecoms signalling network.



Flexibility at a significantly lower price-point, in an open environment.

OpenCloud's Rhino is a fully convergent, real-time Telecom Application Server (TAS) for agile development, deployment and efficient management of classic and next generation telecommunication services. It can be used to develop and deploy carrier-grade applications that use SS7 and IMS based protocols such as INAP, CAP, Diameter and SIP as well as IT / Web protocols such as HTTP and XML.



BENEFITS

SERVICE AGILITY

Create and deliver innovative, 'smart' next generation services on Rhino TAS whilst retaining existing SCP assets for current services during migration. These new, targeted services can be delivered to customers in days rather than months giving CSPs a competitive edge, encouraging customer loyalty and increasing ARPU.

SIGNIFICANTLY LOWER PRICE-POINTS

Rhino TAS utilises commercial-off-the-shelf (COTS) commodity hardware and software. Coupled with an environment where new services can be developed at a radically lower price-point, or sourced from an open marketplace of application providers and taken to market faster, significantly reduces OPEX.

OPEN STANDARDS ELIMINATE LEGACY SCP LOCK-IN

Regain control of your services roadmap. Open systems and architectures promote competition, result in lower prices and encourage innovation. New and variant services can be procured from an open and competitive market of product and custom-build application providers.

MAXIMISE VALUE OF EXISTING INFRASTRUCTURE

Rhino TAS is an open, scalable platform that integrates with proprietary infrastructures to maximise existing investments. As a first low-cost step, Rhino TAS can be deployed to augment existing SCP assets. Rhino TAS can co-exist with existing SCPs as a separate innovation platform to evolve and create new applications. This strategy offers access to 'smart' next generation services whilst existing SCPs are switched off during migration.

FEATURES

CARRIER-GRADE

OpenCloud's Rhino Telecom Application Server utilises commodity, standard IT server hardware but has all the carrier-grade credentials expected from a traditional SCP:

- 'Five-nines' availability featuring on-line upgrades of the platform and services.
- No single point of failure.
- Clustering for scalability and availability and hot-fail-over of in-flight calls and sessions on node failure with Single Image management of the cluster.
- Capacity can be added as required, transparently joining the cluster to deliver the services.

SERVICE COMPOSITION AND INTERACTION

OpenCloud Rhino TAS can be extended with Rhino Service Interaction Server™ (SIS) – an optional Telecom Service Broker. Rhino SIS is a powerful, flexible and extendable service interaction platform provides Service /Feature Interaction capabilities for both SS7 and IMS networks. New services can be created by blending together multiple independent services (hosted on SCPs, TAS and locally on Rhino SDP) using a drag-and-drop GUI. This means that new service compositions can be created by the operator from existing, proven and functioning assets without requiring specialist programming skills. The platform also makes it commercially viable to innovate in TDM IN services or combinations of IN and SIP based services.

Rhino SIS Translators - SIS SIP-IN Translator and SIS IN-SIP Translator provide interworking between packet and circuit switched user and service layer environments. This allows TDM-based subscribers access to IMS services and vice versa, avoiding duplication of services in either the TDM or IMS network.

Open systems and architectures promote competition, result in lower prices and encourage innovation.

A full range of telecom services are available for Rhino Telecom Application Server

Rhino TAS includes a range of classic IN and SIP services. OpenCloud and third-party ISVs provide a wide array of classic and next generation telecom services such as Personal Call Routing, MultiSIM, Number Translation, Calling Circles, Call Waiting, Home Zone, Call Forwarding, Find me- Follow-me, Who Called, Free Phone, Premium Numbers and Virtual Private Network.

OPEN SERVICE CREATION ENVIRONMENT

Rhino SDP provides a java-based service creation environment (SCE). The SCE produces fully portable Java and supports the design and formal proving of finite state machine-based applications, which are at the heart of all telecommunication services. The Rhino SCE provides a Graphical User Interface (GUI) and schematic representations to help in the design, maintenance and support of in-network telecommunication applications. It also provides a complete network simulation environment – so for the first time, telecom software developers can create and test new services without the need for a live network until the final testing phase.

SUPPORT FOR OPEN STANDARDS

Rhino TAS complies with the Java open standard for telecommunication application servers–JAIN SLEE v1.1. This gives access to an eco-system of suppliers developing person-to-person applications, to rapidly deliver innovative new services to market, without the issue of proprietary protocols.

SUPPORTS SS7 AND SIP /IMS CONNECTIVITY

Unlike a traditional SCP, Rhino TAS supports all SS7 protocols (including vendor variants which have stifled competition in the delivery of telecom services) and all the IP/IMS protocols. Rhino TAS comes with SIP, Ro, Rf, Sh (Diameter) connectivity, ensuring that service layer investment addressing today's challenges is aligned with your all-IP and 3GPP network strategy.

Open systems and architectures promote competition, result in lower prices and encourage innovation.

OpenCloud was formed in New Zealand in 2000 to create open standards-based software technology that would enable the agile development, deployment and efficient management of telecommunication services across current and next generation network technology. OpenCloud works with partners to deliver, integrate and support end-to-end solutions incorporating OpenCloud products to network operators and service providers worldwide. OpenCloud has offices in the United Kingdom, New Zealand, Spain, Singapore and Indonesia.

MORE INFORMATION

Contact (Email): info@opencloud.com

For further information

OPENCLOUD LTD (HQ)

Edinburgh House
St John's Innovation Park
Cowley Road
Cambridge CB4 0DS
United Kingdom

TEL: +44 1223 395 611

FAX: +44 1223 223 021

OPENCLOUD NZ LTD

Level 5
Sovereign House
34 Manners Street
P O Box 606
Wellington 6011
New Zealand

TEL: +64 (0)4 498 0069

FAX: +64 (0)4 385 2794

WEBSITES

www.opencloud.com

<http://developer.opencloud.com>

EMAIL

info@opencloud.com

MEDIA ENQUIRIES

pr@opencloud.com

www.opencloud.com