

Network Services Manager

Whitepaper

FEBRUARY 2009



SASE

Network services manager

<p>1</p> <p>WHAT IS SASE</p>		<p>It is a multiplatform solution that allows the handling of a set of nodes from a network in a simple and efficient way. The system has been conceived in order to turn complex and routine tasks into an easy network management.</p>
<p>2</p> <p>WHY SASE</p>		<p>The traditional networks, which focus in only one service which use technology of a sigle supplier, has been replaced for complex networks which operation depends on several management systems. SASE provides a single interface with simple tools of configuration and an advanced statistics module.</p>
<p>3</p> <p>WHERE CAN YOU USE IT?</p>		<p>SASE is a fault management, performance performance and provisioning platform that can be adapt to several needs, Iquall Networks counts with a development team who is constantly looking for the enlargement of the reach and capacity of the system.</p>

Uses
The most frequent uses of the systems are:

- 1

NETWORK MONITORING PLATFORM
- 2

VPN/MPLS MANAGEMENT
- 3

APPLICATION MONITORING
- 4

FAULT AND PERFORMANCE MANAGEMENT
- 5

KPI MANAGEMENT
- 6

NETWORK CHANGE AND CONFIGURATION MANAGEMENT

Network Services Manager

Make complex operations on your network in seconds, without risk of human mistakes or the need of operators highly qualified.

The modern services networks are in a constant flow of changes of their configuration. The services which are offered are too complex and in result it is needed to make coordinated changes between several networks' nodes. As an example, the 3G service furnished by cell phone operators requires of the configuration of VPNs, MPLS' networks, mobile access' systems, routers, the configuration of APNs, Core' nodes, HLRs impacts, etc. This entire configuration should be made in a synchronized and safe way.

SASE Networks Configuration Manager is a powerful tool that allows to carry out these complex tasks in a simple way, with a high degree of precision, in seconds that will reduce the foreseeable human mistakes which take place when complex tasks are made without the suitable tools.

The system has wizards that make possible the use of services without the need of highly qualified specialists. For example, the system allows generating a VPN of MPL such as multiples routers in few seconds, with the certainty of having hit the right commandos in a safe and efficient way.

Iquall Networks counts with a development equipment that allows the adaptation of this systems to operate in the heterogeneous multiservices networks of last generation, specifically thought by operators Triple and Quad Play.

Be part of our world of solutions, be part of the world of Iquall Networks

Cases of use	Provisioning de nuevos servicios	Change Management	3G Provisioning	MPLS Manager

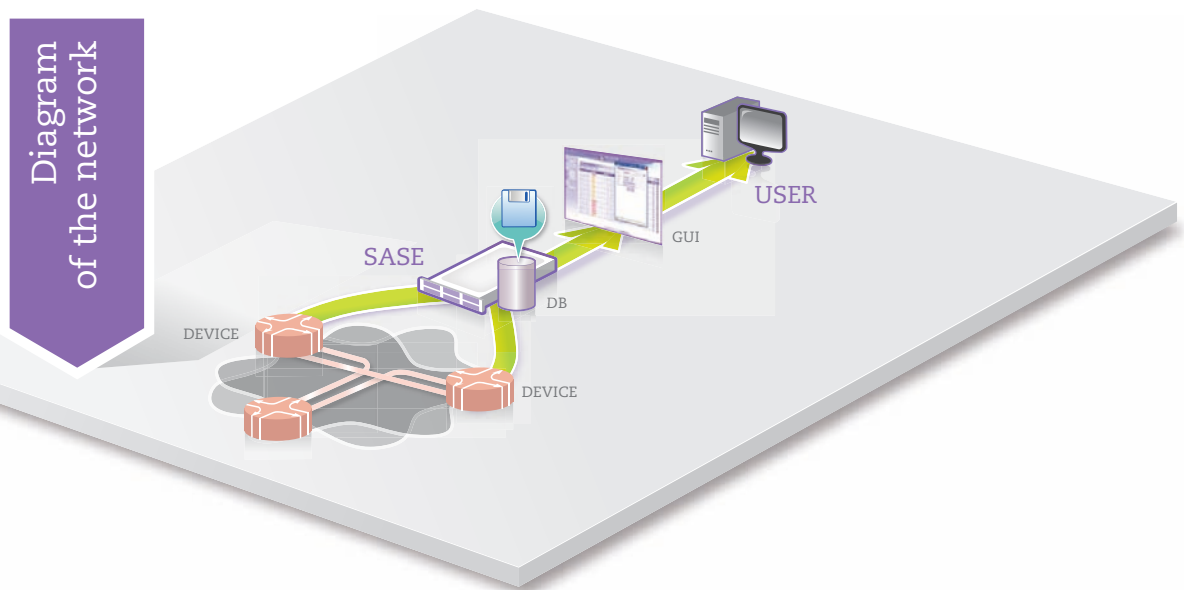
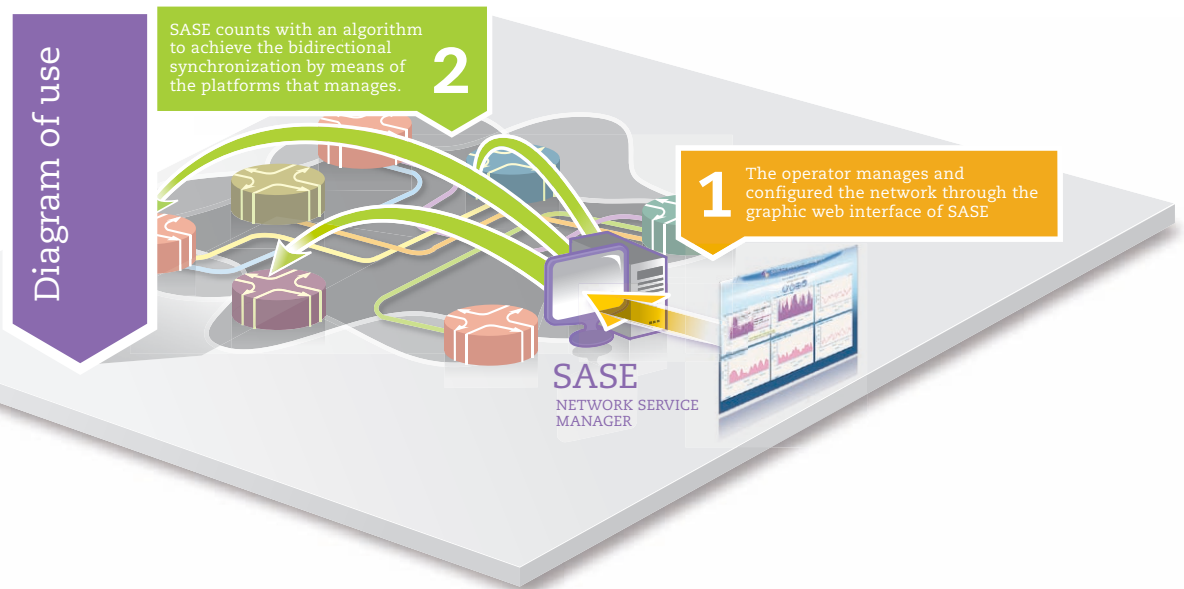
SASE

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Operation

SASE servers centralize the provisioning and the network management avoiding the entry of user who require access to the platforms through the use of an intuitive and graphic interface.



SASE 3G-GPRS / APNs

Network services manager

SASE 3G GPRS/ APNs

Solution for the supply and management of APNs (Access Point Names) of the GPRS network (General Packet Radio Service)

The management of these APNs (Access point Names) of the GPRS/3G is complex because of the variety of network devices and involved technologies.

It is not required to configure only the GGSN (gateway GPRS support node), it is also necessary to discharge the APN in the DNS server also configure switches and routers in the GN and GI networks. In addition, VPNs are often used (IPSec/GRE for example) to achieve a connection between the client and the operator.

This variety of equipments and technologies generates a trouble when operators has to make a supply for the service, causing incorrect, instable and incomplete configurations which will turn harder the accomplishment of troubleshooting tasks.

SASE 3g-GPRS/APNs centralizes the configuration and operation of the APNs in an only and intuitive interface of graphic management.

SASE GPRS/APNs accelerates the implementation of new services and simplifies the management of the systems which were already configured in order to provide to the operator a decrease in operating costs.

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Technical Specifications

Uses	Supply and management of APNs of GPRS
Support Facilities	APNs management Statistics of APN use Troubleshooting capacity Accounting Capacity
Non Stop Operation	Support, SASE GPRS/APNs counts with a redundant architecture for high disponibility
Support GGSN	Ericsson CGSN Ericsson Juniper Networks Mobile IP GGSN (J20 GGSN)
Support Routers MPBN (Gi, Gom y Gn)	Juniper Networks series M-T Juniper Networks series E Juniper Networks series J Cisco IOS RedBack Networks SmartEdge series
Support Firewalls	Juniper Netscreen
Support DNS Servers	DNS Servers Soportados Bind DJB DNS
Capacity	Management of 1500 LSPs * 50 connected users * * Depends on the hardware and the architecture
Remote management	Support, the management manages from an accessible web interface
Platform	The system can be configured in any hardware that is able to handle with Linux or Unix
Operative system	Linux, Solaris, *BSD

SASE RSVP/ TE

SASE RSVP/TE version allows the management of a MPLS network implemented with the extensions for traffic engineering, such as bandwidth reservation, administrative colours, fast reroute, etc.

SASE RSVP/TE has the function abilities to configure, management of traffic engineering, management of performance and management of failures, that's why it is a solution that covers all the administration need of RSVP network.

The capacity of supply simplifies the configuration of the network by the centralization of the administration of Label Switched Paths.

The features of engineering management provide tools to the auto-configuration of the parameters of the traffic engineering according to the utilization of LSPs and Links

The Performance management implements tools for the analysis of the network traffic obtaining as a result a better network design

SASE RSVP/TE also allows a better handling of failures, verifying the network status and detecting temporally and permanents real time troubles.

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Technical Specifications

Uses	Supply, analysis and management of LSPs of MPLS
Support Facilities	Administrative managements (Affinities) Explicit Routes (Paths) Policers LDP Tunneling CSPF Fast Reroute Reservations of band width Services types
Non Stop Operation	Support, SASE TE counts with a redundant architecture for high disponibility
Support Routers	Juniper Networks series M-T Juniper Networks series E Juniper Networks series J Cisco Systems IOS RedBack Networks SmartEdge series
Capacity	50 simultaneous users. * Management of 5000 LSPs. * * It depends on the hardware and the architecture.
Remote management	Support, the management can be manage from an accessible web interface
Platform	The system can be configured in any hardware which can handle with Linux or Unix
Operative System	Linux, Solaris, *BSD

SASE MPLS/ VPNs

Solution for the supply and management of private virtual network of MPLS.

The significant increase of VPNs requirements on the MPLS networks makes necessary the supply of services without the need of operators involved, to avoid operators SASE offered an interface of WEB management that allows through a simple wizard, the generation of new clients and the assignation of several services, like being VPNs state 3 or a circuit of state 2.

All the SASE executed actions are control for the administrator of the system who decides which configuration should be applied in each router.

The getaway and security of the solution manage to interpose SASE MPLS/VPNs such as the ideal solution to Internet suppliers, mobile operators and convergent operators who brings triple-play services.

SASE MPLS/VPN accelerates the implementation of the service of private virtual networks on the MPLS network and brings to the operator a decrease in the operatives costs.

SASE MPLS/VPN also implements interfaces to achieve a communication with extern systems by using Web Services, SOAP/WSDL and APIs owners.

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Technical Specifications

Uses	Supply and management of VPN of MPLS
Support VPNs	VPNs cape 3 based on MP-BGP (RFC2547bis Layer 3 VPN) VPNs cape 2 based on MP-BGP (Kompella Layer 2 VPN) LAN/MPLS VPLS Services(Virtual Private Lan Service) Virtual circuits cape 2 based on LDP (Martini Layer 2 Circuit)
Operation non stop	Support, SASE MPLS/VPNs counts with a redundant architecture for High availability
Support Routers	Juniper Networks series M-T Juniper Networks series E Juniper Networks series J Cisco Systems IOS RedBack Networks SmartEdge series
Capacity	1200 VPNs management * 50 simultaneous users * * Depends on the Hardware and the architecture
Remote Management	Support, the management is prosecute from an accessible web interface through the use of a web explorer
Platform	The system can be installed in any hardware able to handle with Linux or Unix
Operative System	Linux, Solaris, *BSD

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