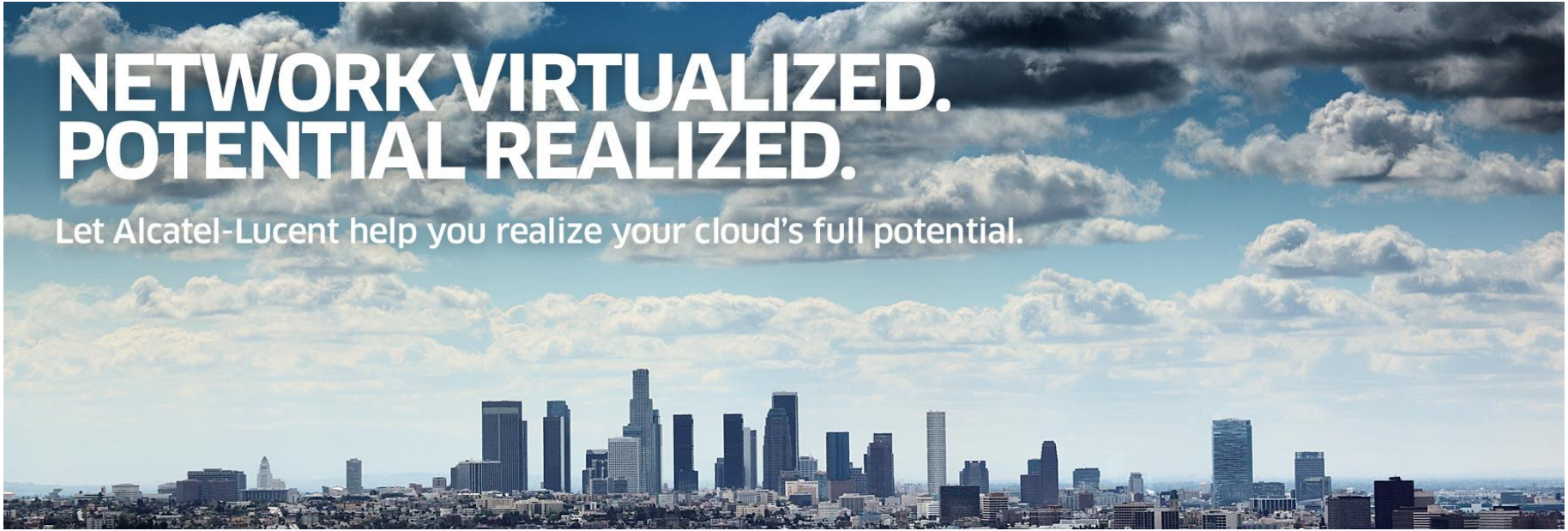
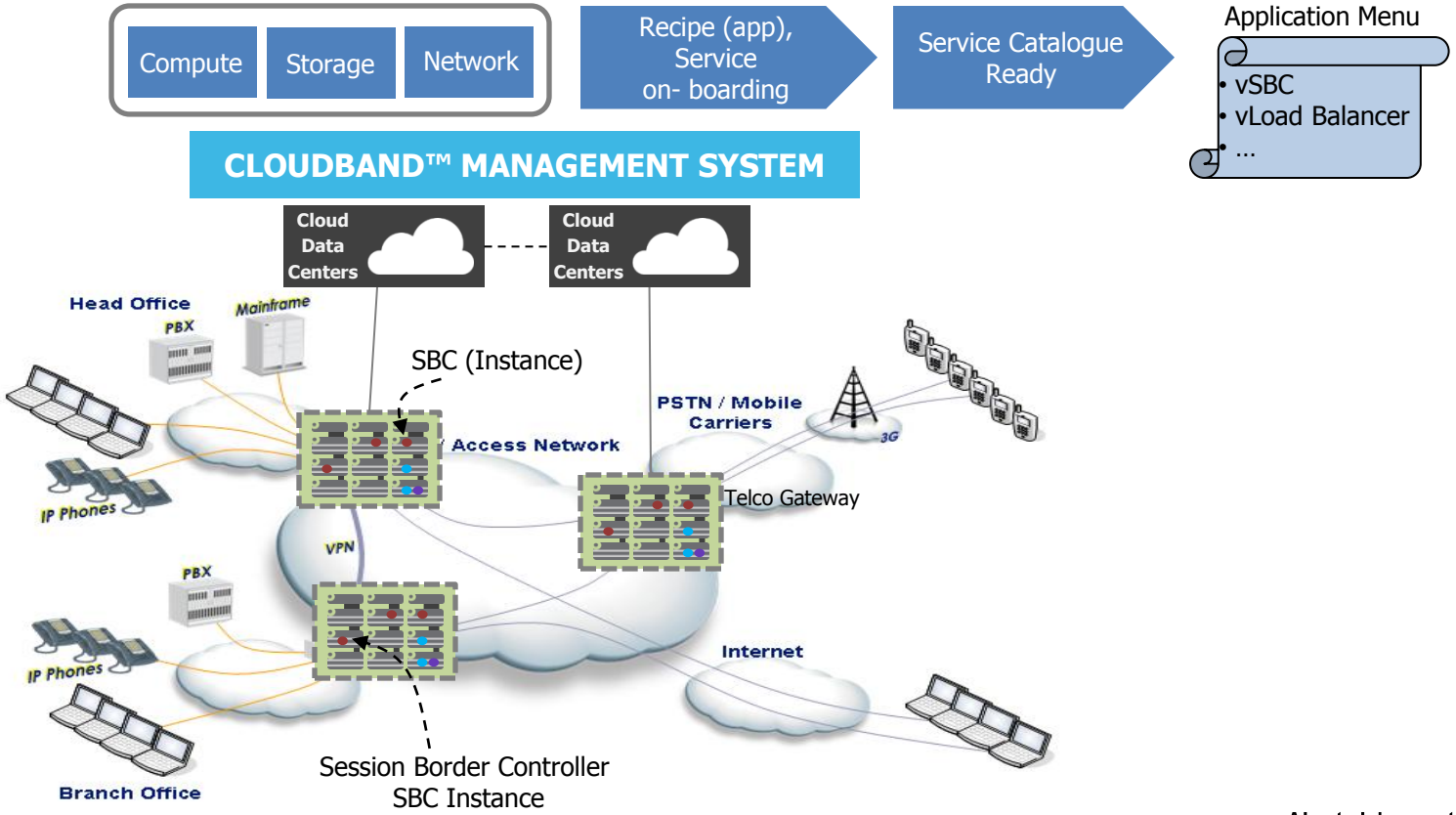


SBC NETWORK FUNCTION VIRTUALIZATION

June 2013

METASWITCH PERIMETA SESSION BORDER CONTROLLER ON CLOUDBAND



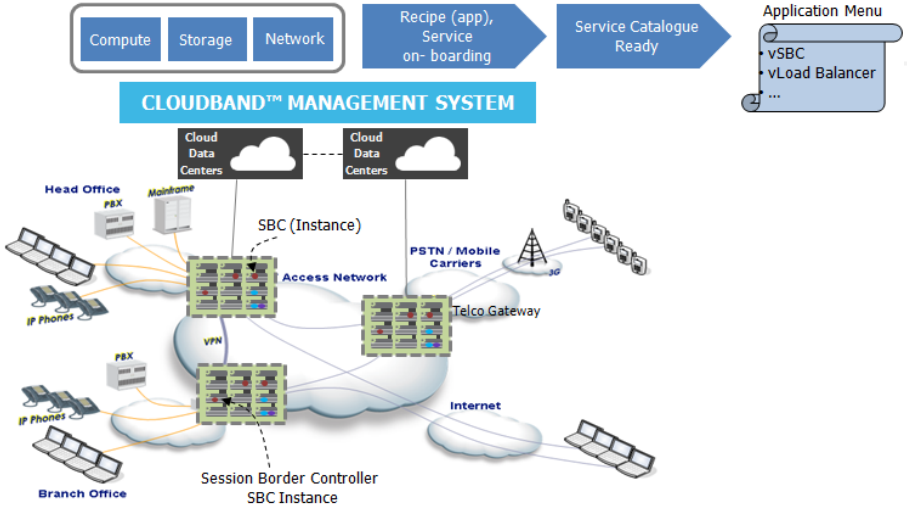
MetaSwitch Perimeta SBC on CloudBand

Cloud-based Deployment of SBC VNF

Cloud-based SBC

Virtualized, software-based Session Border Controller function appliance for access networks deployed as a virtualized network function on CloudBand NFV Platform to create a highly scalable, available, secure and distributed cloud-based SBC solution

- Automated, one-touch deployment of SBC VNF Applicaiton
- Auto or Manual Scaling based on pre-defined KPIs
- Full Life Cycle Management of the Application
- Built-in redundancy and high-availability
- Service Chaining with other VNF Applications



Value Proposition: Perimeta SBC on NFV Platform

New Business Models & Offerings	Ability to create new service offerings and business models such as "SBC as a service" with multi-tenancy that can be appealing to MVNOs.
Elastic, Scalable and high-performance	Built-in mechanisms for rapid and infinite scalability, elasticity and performance based on demand – all on a multi-version, multi-tenant deployment
Service Agility	Accelerated service realization through rapid instance deployments dramatically reduces time to market. Service chaining with other NFV components creates new services easily
Lower TCO	Streamlined operations and processes with cookie cutter deployments on high-volume, COTS hardware

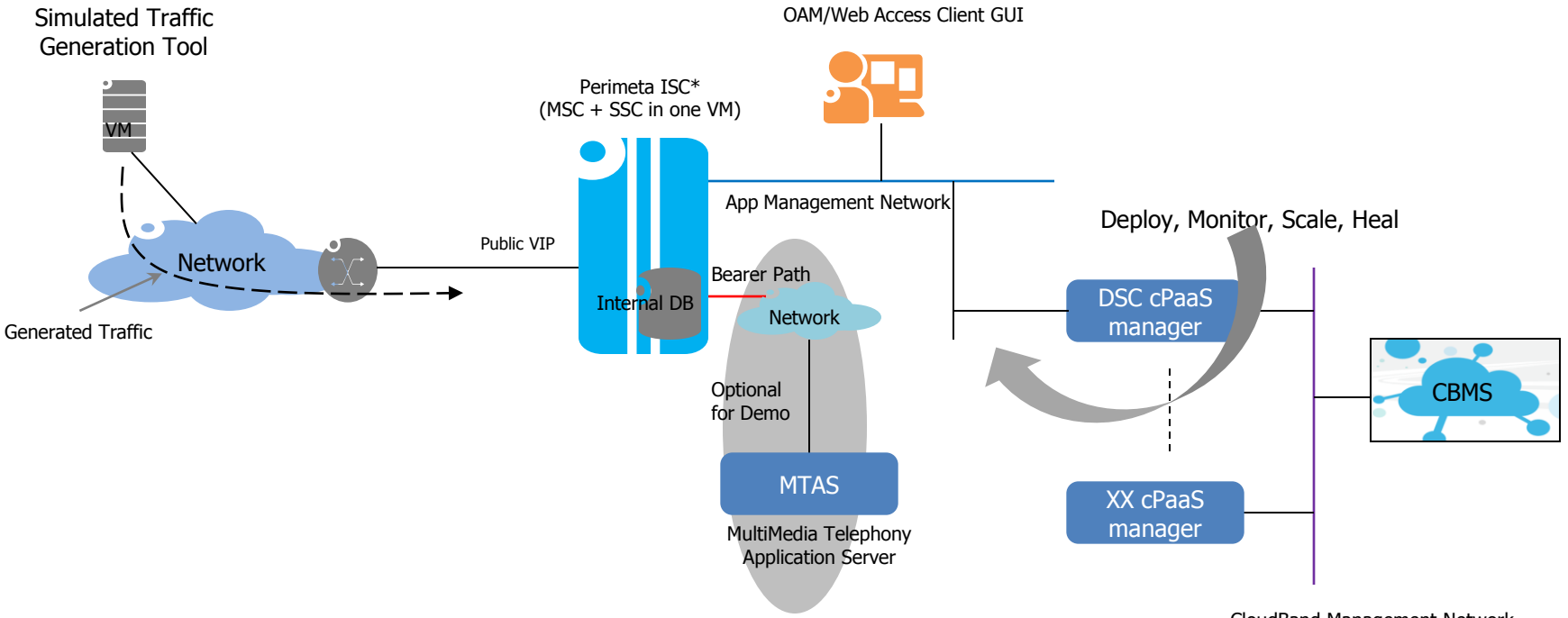
CloudBand NFV Platform: Benefits/Differentiators

Versatile NFV Platform	Industry leading NFV platform with development since 2011 – even before NFV was formed. Fully automated, distributed deployment for NFV apps with cPaaS control
Central management & Orchestration	Centralized management and orchestration framework for provisioning, deploying, configuring and operating of NFV applications
Multi-Tenancy	Multi-tenant deployment with per-tenant monitoring, auditing and reports
Service Provisioning	Rapid, cookie-cutter based service provisioning and configuration of multiple instances of SBCs for multi-tenant deployment

SBC CLOUDIFICATION BENEFITS: OPERATIONAL ASPECTS

Attribute	Conventional	CloudBand
Appliance	Hardware appliance (typically ATCA or x86 bare-metal) architected for peak capacity	Virtualized software appliance on cloud infrastructure architected for current capacity
Deployment	Site engineer investigates, deployment engineer installs, configures and provisions the system and monitors heath	Management and Orchestration system deploys new instance with standard configuration and automatically monitors health
Scale	Add new cards/blades into the system hardware and perform re-configuration	Orchestration system adds additional instances and adds them to the load-balance pool
Upgrade	Replace new upgraded blade with existing blade	Upgrade a new instance and just switch traffic to it. Delete old instance
Operation	Hardware, OS, Application, Alarms	OS, Hypervisor, Application, Alarms
Slicing	Service partitioning of hardware based systems can be very difficult and cumbersome	Simply create a new service slice by deploying new application instance and service chain with other NFV components

METASWITCH PERIMETA SBC ON CLOUDBAND
DEPLOYMENT

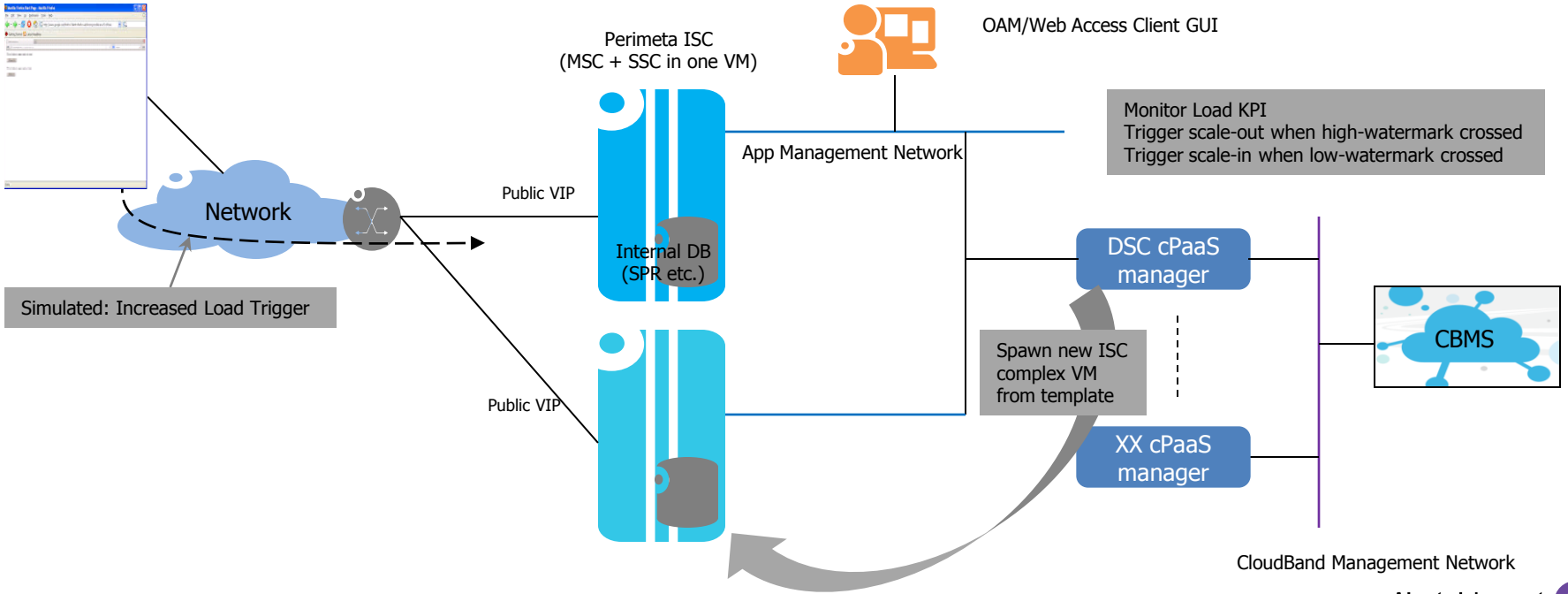


*Integrated Session Controller (ISC): Combines Signaling Session Controller (SSC) and Media Session Controller (MSC)

METASWITCH PERIMETA SBC ON CLOUDBAND

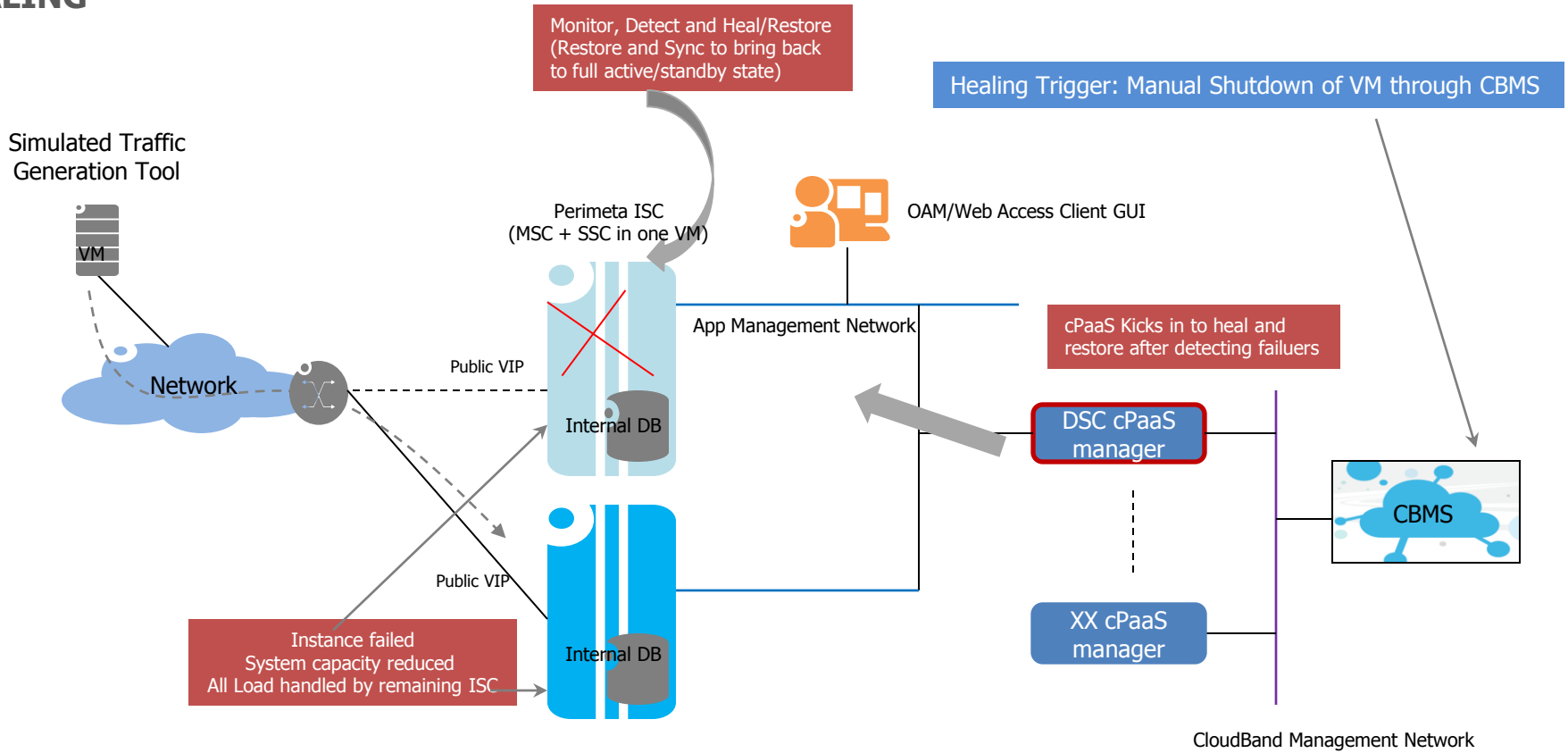
SCALING

Load KPI: Simulated Trigger
Scale-out Threshold: Scale out by 1 unit every 100 (simulated #)
Scale-in Threshold: Scale in when # drops by 50%



METASWITCH PERIMETA SBC ON CLOUDBAND

HEALING



www.alcatel-lucent.com