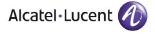


RGB Overview

- Established 2003, leading provider of scalable multiscreen IP video delivery solutions
- Development offices in Sunnyvale, California & Austin, Texas. Support locations in US, EMEA & APAC
- Shipped: \$300m+ lifetime
- 400+ customers in 40+ countries
- Top tier investors and strong board



- 39 patents filed, 25 awarded to date
- Partnerships with Alcatel-Lucent, SeaChange and Ericsson





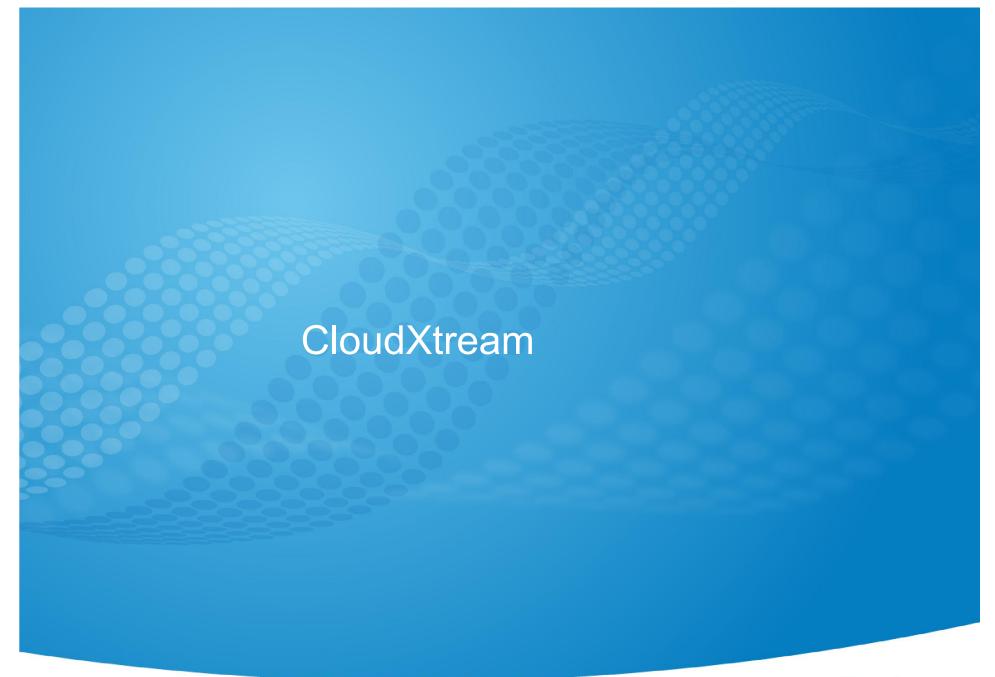






RGB 400+ Customers in 40+ countries







The Big Picture: Industry Trends Converging

Cloud-enabled Video Services

Turn-key Private Cloud applications based on OpenStack



IP Video

Operators are migrating to an all IP video infrastructure

OpenStack

OpenStack becoming the defacto standard for private cloud deployments

IT Cloud

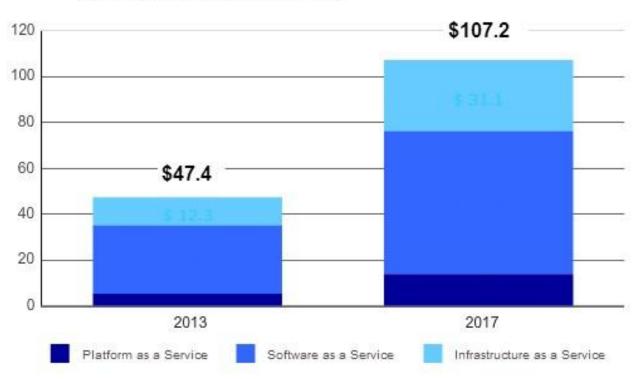
Enterprises are embracing public and private cloud services – SaaS, laaS, PaaS



IDC: Public IT Cloud Services TAM



Worldwide Public IT Cloud Services Spending by Segment (in \$ billion)





Informatica: Cloud Adoption

A Few Enterprise Cloud Adoption Stats

Large, Accelerating Market

4-6x

growth rate of on-premise IT

20-27% CAGR \$20-40B market

60%

of all companies using SaaS w/in 12 months

SaaS

largest category

PaaS

fastest growing

84%

of net new software is now SaaS Led by Large Enterprises

76%

enterprises have a formal cloud strategy

74%

using cloud will increase cloud spend > 20% **Driven by IT**

90%

Cloud decisions and operations involve IT

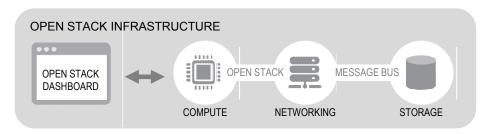
66%

SaaS POs signed by IT

INFORMATICA

What is OpenStack?

- OpenStack is an open source Cloud OS
 - Compute, Networking, Storage



- Launched in 2010 by Rackspace and NASA
- Enables DIY Private Clouds
 - Portability to the public cloud or other private clouds
- Almost all major IT companies (180+) are contributors and members



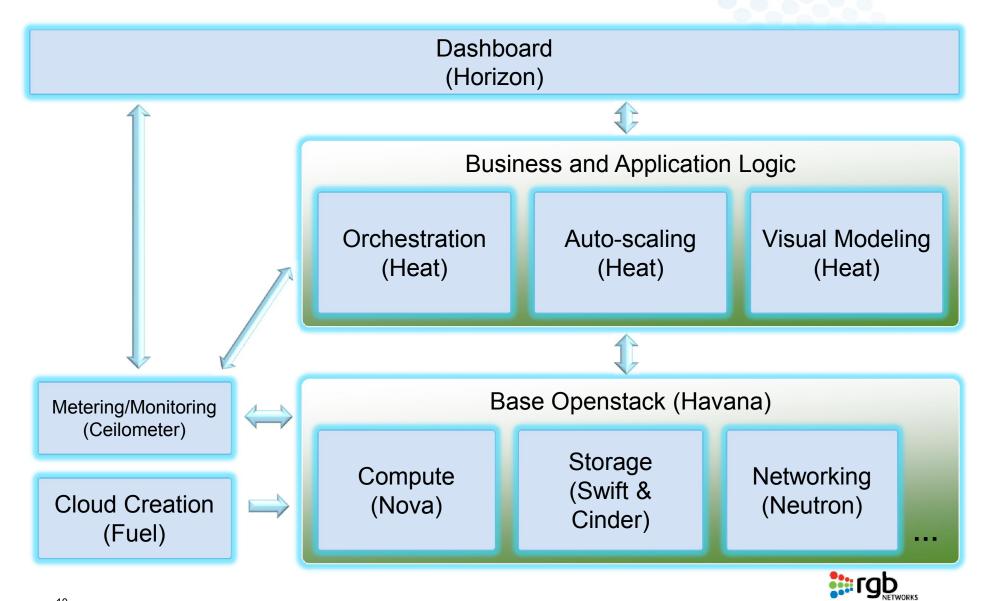
Who uses OpenStack Private Clouds?

- Hosting Companies: Rackspace, IBM (Softlayer), HP
- OS Vendors: RedHat, Microsoft
- Cisco Webex
- Paypal
- Sony Playstation
- Best Buy
- Bloomberg
- Comcast

RedHat launched Openstack compatible products in mid-2013. Openstack went from emerging technology to the defacto industrystandard Cloud OS.



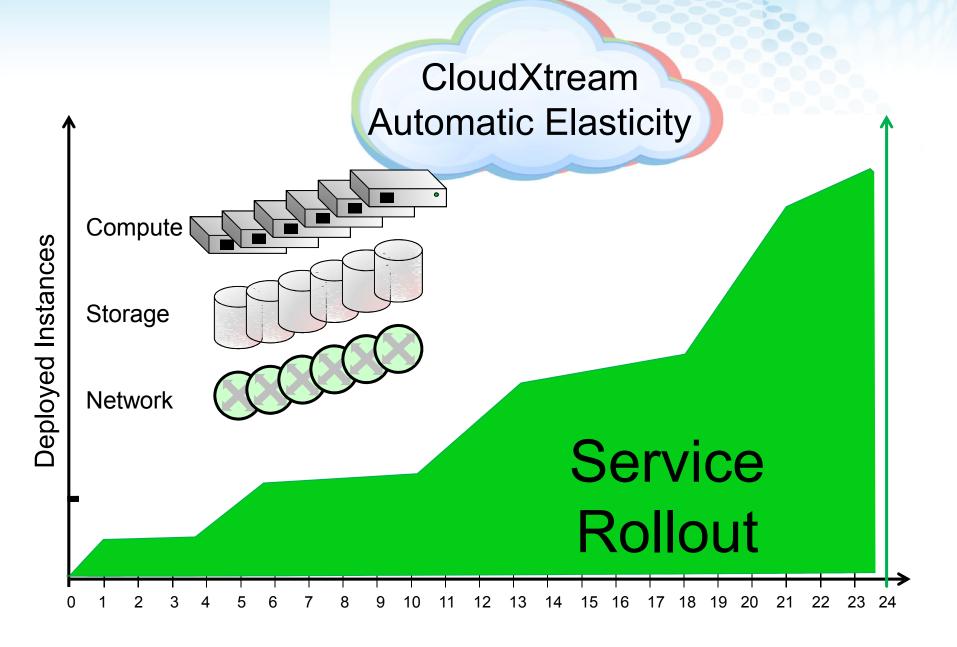
OpenStack Diagram



RGB CloudXtream

- A turnkey deployment for Video Delivery in operator own data center, hosted private cloud, or public cloud
- RGB CloudXtream is built upon the leading open source
 OpenStack Cloud OS
- Infinitely scalable applications
- Enables virtual environments / multi-tenant
- Dynamic provisioning
- Resource sharing and oversubscription







RGB solutions based on OpenStack





Transcoding & Packaging

IPTV/Cable & Multiscreen

Linear & VOD

Transcoding

Hardware

Software

Packaging

All ABR Formats

DRM Encryption

Ad Insertion

Linear Ad Insertion

Multiscreen Ad Insertion

Linear & VOD

Network-based

Blackout Support

Targeted or Zoned

SCTE130/VAST

Unified Solution

nDVR

Catch-up & Restart

Event Based Recording

Continuous Recording

Just-in-Time Packaging

Object Store

Origin



VMG Gen1 and Gen2

- State-of-the art video quality
- Converged: Multi-bitrate + Main-screen in one unit
- High availability: input, output, port, card, and chassis redundancy
- Second generation of a proven, successful, widely deployed product

Redundant Configurations	VMG Gen2	VMG Gen1
Transcodes	264 HD, 792 SD, 1056 MBR	108 HD, 324 SD, 432 MBR
Deinterlacing	Motion Compensated	Simple
Audio Transcodes / Chassis*	913	250
Audio Transcodes / Program**	64, 64, 64	8, 2, 8
I/O ports	8x 10GigE	8x 1GigE
Input Redundancy	Program, SSM, Encryption	Program
Output Redundancy	Mirrored Ports, Hot-Hot	Mirrored Ports



RGB Solutions | TransAct Software Portfolio



TransAct Software Products

- Linear & VOD Transcoder (TAT)
- Linear & VOD Packager & Recorder
- nDVR Services
- Targeted Ad-insertion
- Interactive Services

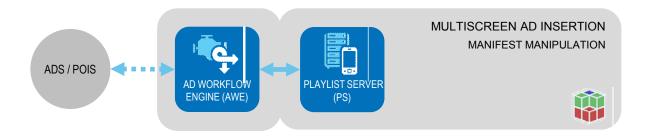
Unique Capabilities

- Linux Based
- Modular SW
- Virtualized VMware, XenServer, KVM
- Feature Rich
- Moving to Cloud OS OpenStack
- Deploy anywhere to any client



AIM – Ad insertion for Multiscreen

- More than a decade of video advertising experience
- Ad ingest, transcode, align & playlist
 - Support for HLS (future MSS & HDS)
 - Support for Live and DVR
 - Per device targeting granularity
- Support for Program substitution & blackouts
- High availability redundancy built in
- Live deployments Serves 22 million subscribers today
- Pre-integrated with leading ecosystem components (BlackArrow, ThisTech, Envivio, Freewheel, Harris Broadcast)

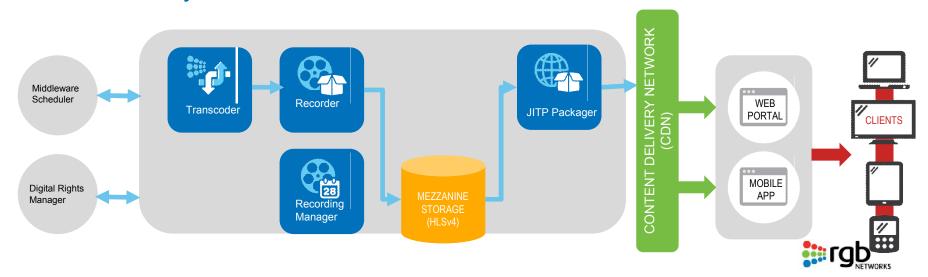




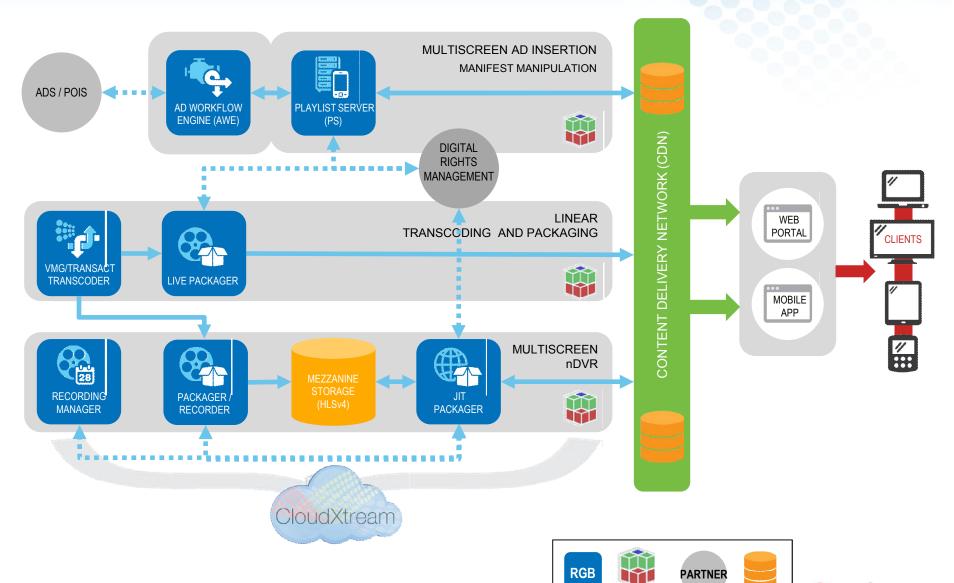


Multiscreen nDVR

- Live-to-file video capture for Multiscreen
 - Event based fixed start and end time of event
 - Continuous record abstracted event, sliding start-stop time
- Operator or user scheduled recordings through Middleware
- Support for
 - Catch-up TV, Time-shift, Hot Record
- Just-in-time Packaging and Origin
 - Delivery of all ABR formats



RGB Product Solutions Dataflow



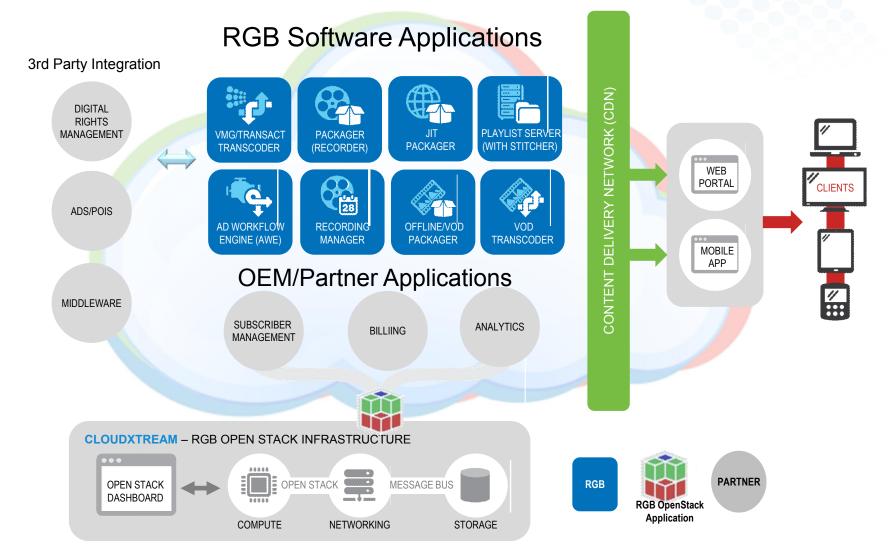


PARTNER

RGB OpenStack

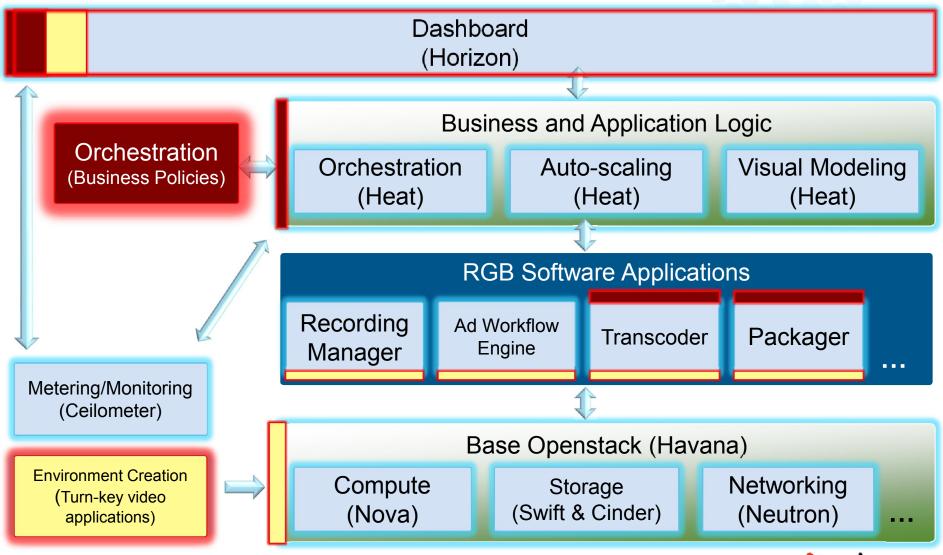
Application

RGB CloudXtream - End-to-End Offering





CloudXtream Video Stack





RGB Networks CloudXtream Benefits

- Turn-key cloud and application installation
 - Transcoding, Packaging, AIM and nDVR
- Built-in load balancing
- Geo-redundancy
- Elasticity and auto-scaling
 - Transcoder, Packager, Playlist Server (AIM) and JITP (nDVR)
- "Rent-able" product licenses for traffic bursts
 - Customer can purchase base licenses + Burst licenses for unanticipated demand
- Ease of upgrade
 - Pre-tested instances (Glance images) can be downloaded and installed





