intercloud systems™

InterCloud Systems

Products Overview

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INTERCLOUD SUMMARY

Mission Statement: **Enabling Carriers to accelerate the deployment of Virtualized Network and IT Services**

Our product differentiation factors: **NFV enablement platform, Advanced ML-based Analytics, Hyper Converged Delivery platform**

Our deployment differentiation factors: **Advanced professional services capability backed by the rapid deployment of custom engineering**

Go to Market Strategy: **Capitalize on changing channel market dynamics and need for born-in-the-cloud integrators**

Operational Model: **Consult, design, build, customize operate, transfer**

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MARKET DYNAMICS AND APPROACH

Journey to Next Gen Service

Next Gen Enterprise Services

Analytics

Security

SDN/NVF

Reduce Opex

Static Networks

Telco Providers

Operationalize → Monetize

InterCloud

VNF Validate

Customization

Professional Services

Analytics

Orchestration

NVF Grid

Open-stack

Unification

DPOD

TRANSFER

OPERATE

CUSTOMIZE

BUILD

DESIGN

CONSULT

Advantages of virtualized network equipment vs physical

	Time	Space	Money
Physical Network Equipment	Takes weeks to procure Requires Wiring/Installation	Takes Physical Space Per box Security	Requires Truck roll CAPEX
Virtual Network Functions	Instant Instant automated provisioning	Fully Virtual Unified Security	Cloud-based Deployment OPEX

Much faster → Deployment

More Efficient → Management

Lower cost, better structure → Budget

OUR PRODUCTS AND SOLUTIONS

NFVGRID – NFVO MANAGEMENT & ANALYTICS PLATFORM

Full scale Next Generation Networking platform for Virtualized Network functions

NFVGrid

- True Multi-vendor
- Converged Platform
- Customizable API's

- Predictive Network Analytics
- Next Gen Security
- Open Source

NFVGrid is proprietary IP yet fully embraces Open Source

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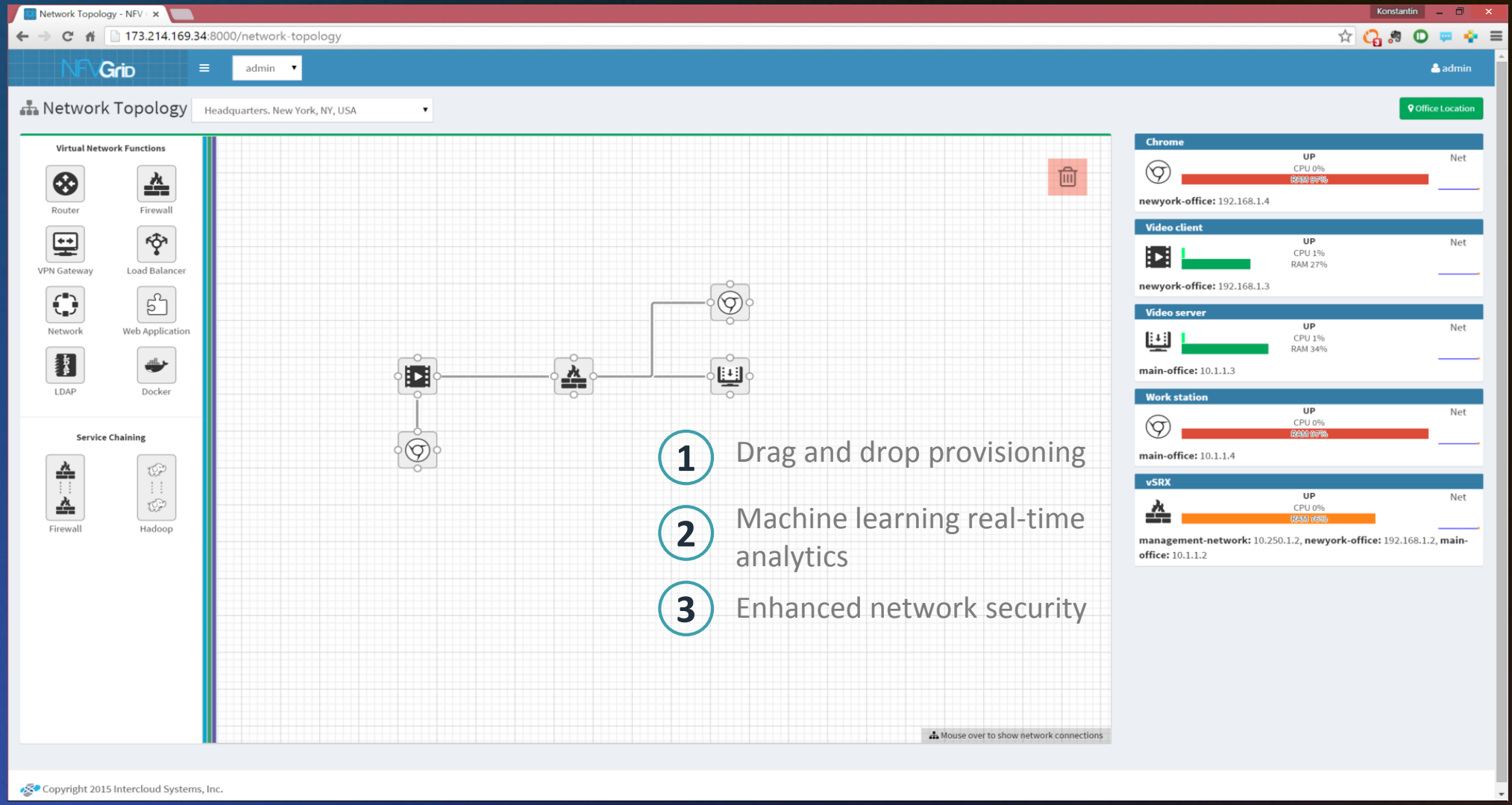
NFVGRID'S UNIFIED ORCHESTRATION DASHBOARD



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NFVGRID –HIGH LEVEL ARCHITECTURE

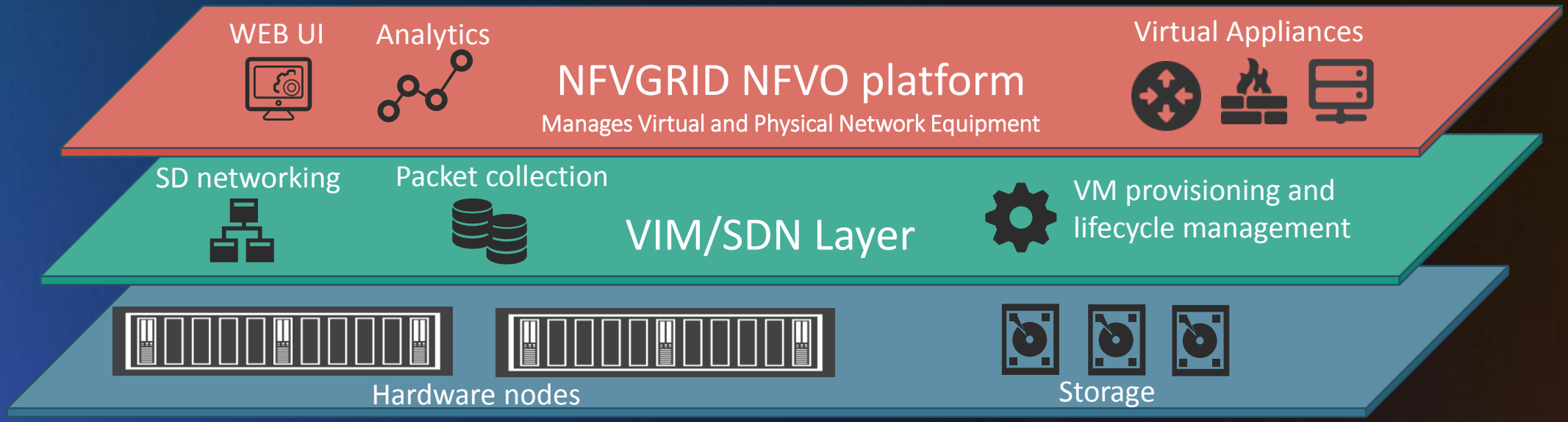
THREE LAYERS OF ABSTRACTION AND INTERCONNECTION

Customer Facing

VNF provisioning
Life-cycle management
Basic troubleshooting/probing
Analytics

Service Engineering

Product Catalog
Service Definition
Service Chaining
Enhanced Troubleshooting



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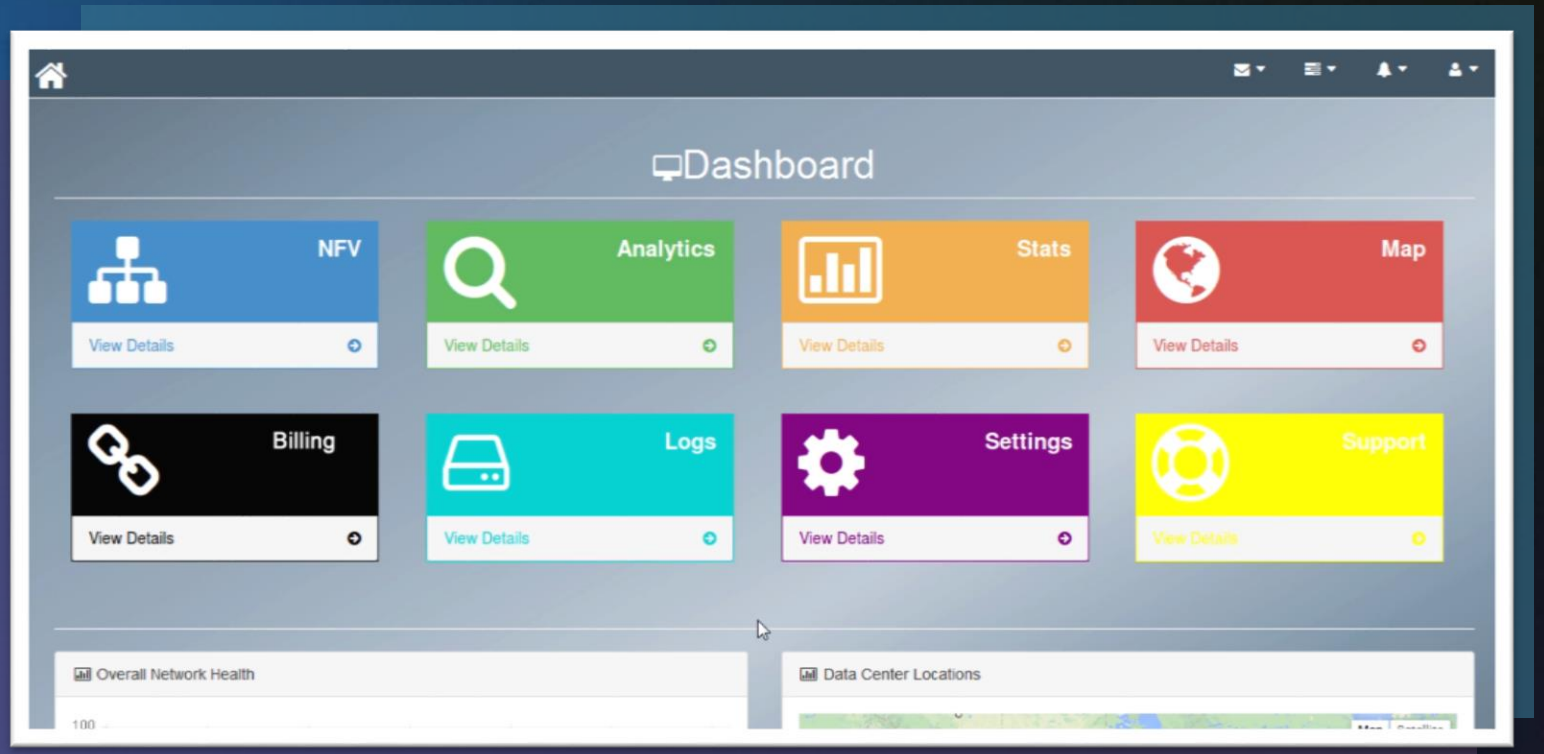
NVFGRID NFVO – VIRTUAL APPLIANCE MANAGEMENT SYSTEM

NFVGRID NFVO– NETWORK FUNCTION VIRTUALIZATION ORCHESTRATION, MANAGEMENT, ANALYTICS, BILLING



MAIN FUNCTIONALITY:

1. Automates virtual network appliance spawning, configuration, monitoring, recycling
2. Allows firewall, VPN, Internet, VoIP and other VNFs to be provisioned within minutes
3. Big Data-based analytical system for stats and troubleshooting
4. API access to all major functions to minimize integration time
5. System Engineering view for making templates and service chaining

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NEW DIMENSION OF ANALYTICS FOR SDN/NFV

2-3% of traffic captures hardware-based Network Equipment

And it **IMPACTS** network performance

VS

100% can be captured with SDN/NFV networking

No **AFFECT** on network performance

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DPOD – CONVERGED NETWORK AND IT DEPLOYMENT

DPOD Management System

NFV Grid Orchestration

SDN Configuration & Management (*Contrail*)

Open-Stack Platform (Canonical)

Hypervisor Layer (*KVM*)

Physical Hardware (*Juniper, Super Micro, Ceph*)

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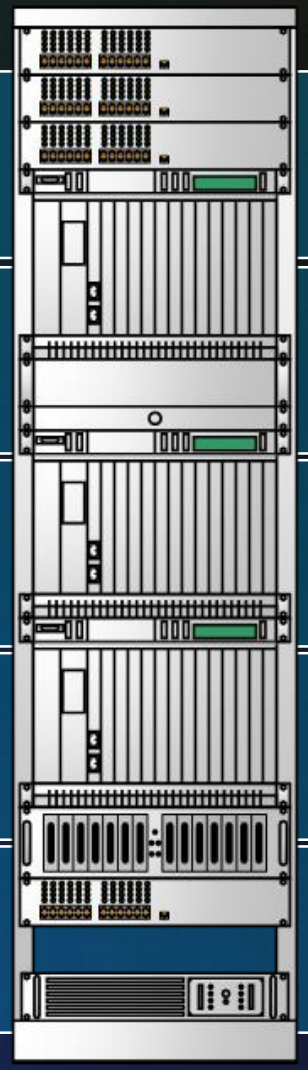
DPOD ARCHITECTURE

NFV Orchestration	• InterCloud's Unified Orchestration (NFVgrid)
SDN Layer	• OpenDayLight SDN • Contrail SDN
Cloud Layer	• OpenStack (Canonical, Mirantis, RedHat)
Hypervisor Layer	• KVM, ESXi, Hyper-V Hypervisor • MAAS for Automation
Hardware Layer	• ToR the Rack Switches (Juniper, Cisco, Brocade) • Ceph Distributed Storage • Super Micro FatTwin Servers / HP Blade systems



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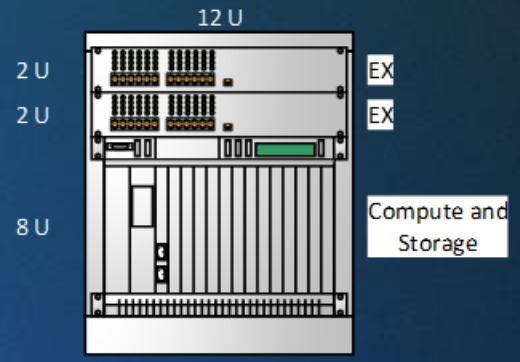
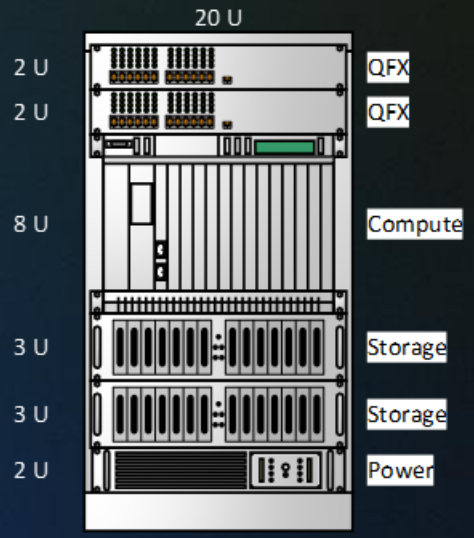
DPOD MODELS



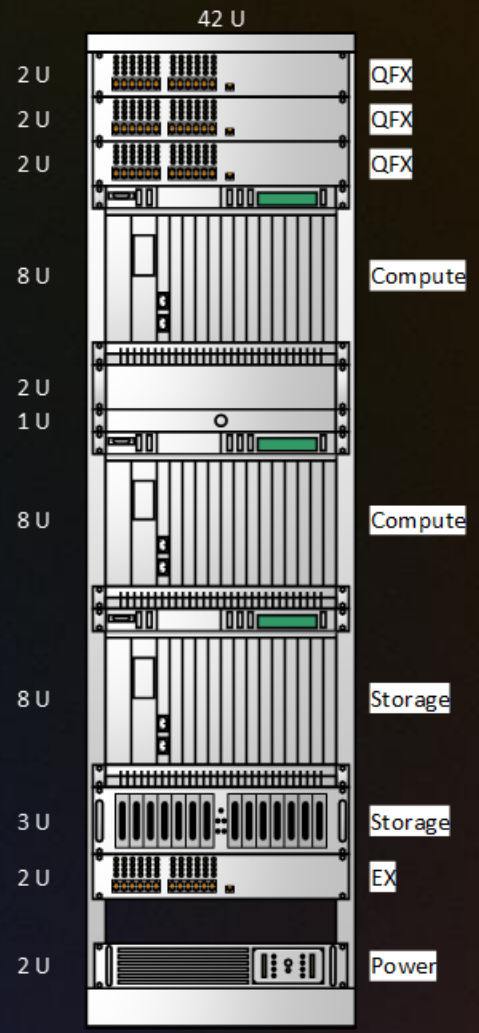
¼ Cabinet DPOD 100

Capacity
- Up to 1 TB RAM
- Up to 160 GHz CPU
- Up to 30TB Storage



½ Cabinet DPOD 200

Capacity
- Up to 3TB RAM
- Up to 320 GHz CPU
- Up to 200TB Ceph Storage



Full Cabinet DPOD 300

Capacity
- Up to 8TB RAM
- Up to 500 GHz CPU
- Up to 600TB Ceph Storage

- InterCloud's automation tools included for rapid deployments
- 4 – 6 weeks deployment time frames
- BOT Model : build, operate and transfer
- 24 x 7 Managed services for hardware, software and orchestration
- 3rd party OSS/BSS integration

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CONTRAIL-OPENSTACK VALIDATION TESTING SERVICES

Function	Silver	Gold	Platinum
VNF's documentation analysis and determining certification scope	✓		
Environment preparation	✓	✓	✓
VNF On-boarding to ICLD's Lab environment (OpenStack/Contrail)	✓		
Basic functional testing (according to NFVO Architecture)	✓		
VIM Level Monitoring Setup and Testing	✓		
Service Chaining		✓	
OSS Integration readiness		✓	✓
Performance and Load Testing		✓	
Software defined networking setup (SFC/NS)		✓	
Stability testing			✓
App-stream OSS adapters			✓
VNF life-cycle management efficiency testing			✓
Statistics and analytics gathering testing			✓

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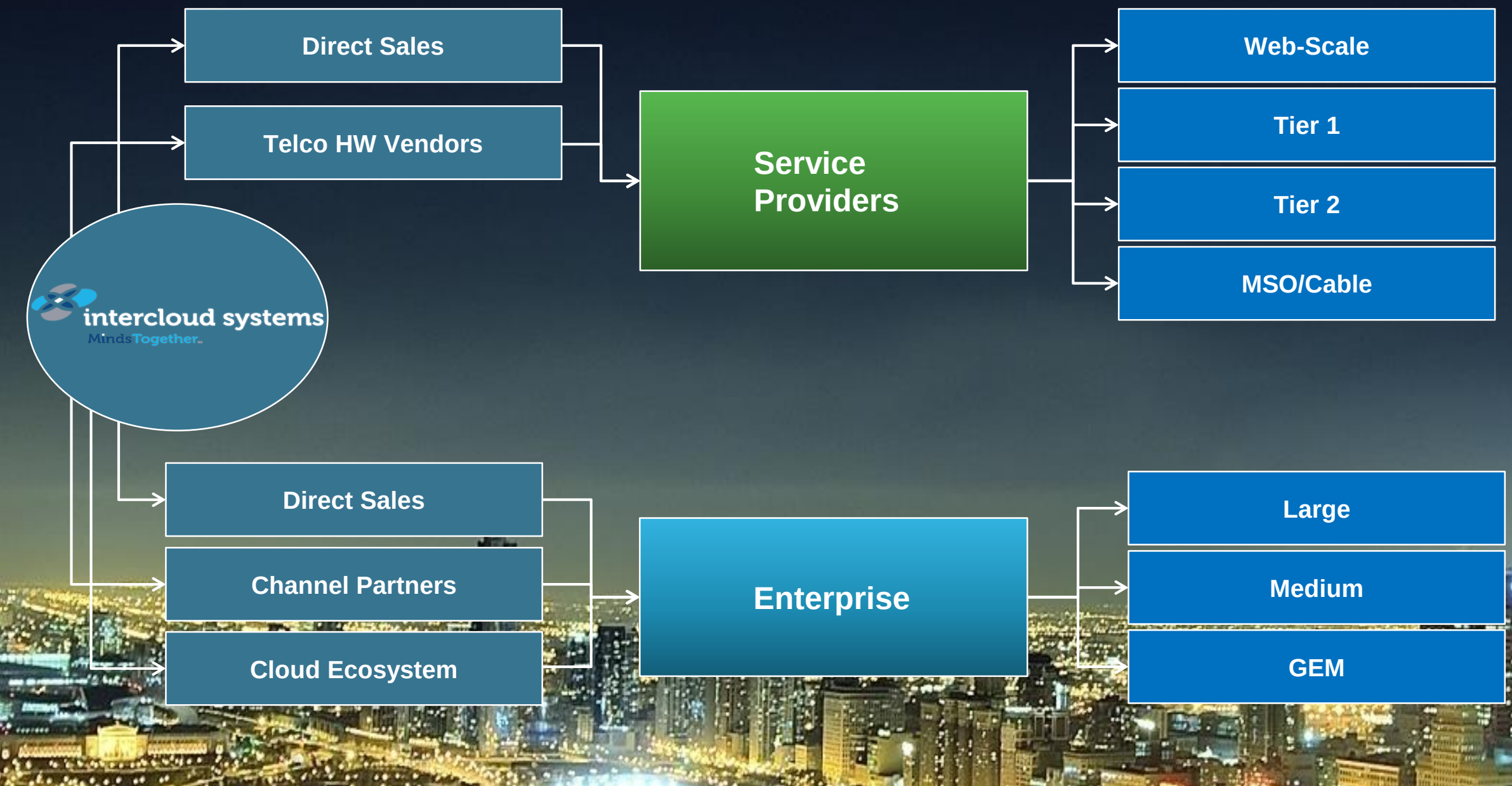
GO TO MARKET STRATEGY

GO-TO-MARKET STRATEGY



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