

# VitalQIP WorkShop Tampere 2014



June 2014

# 1

## The new challenges: Why we need QIP?



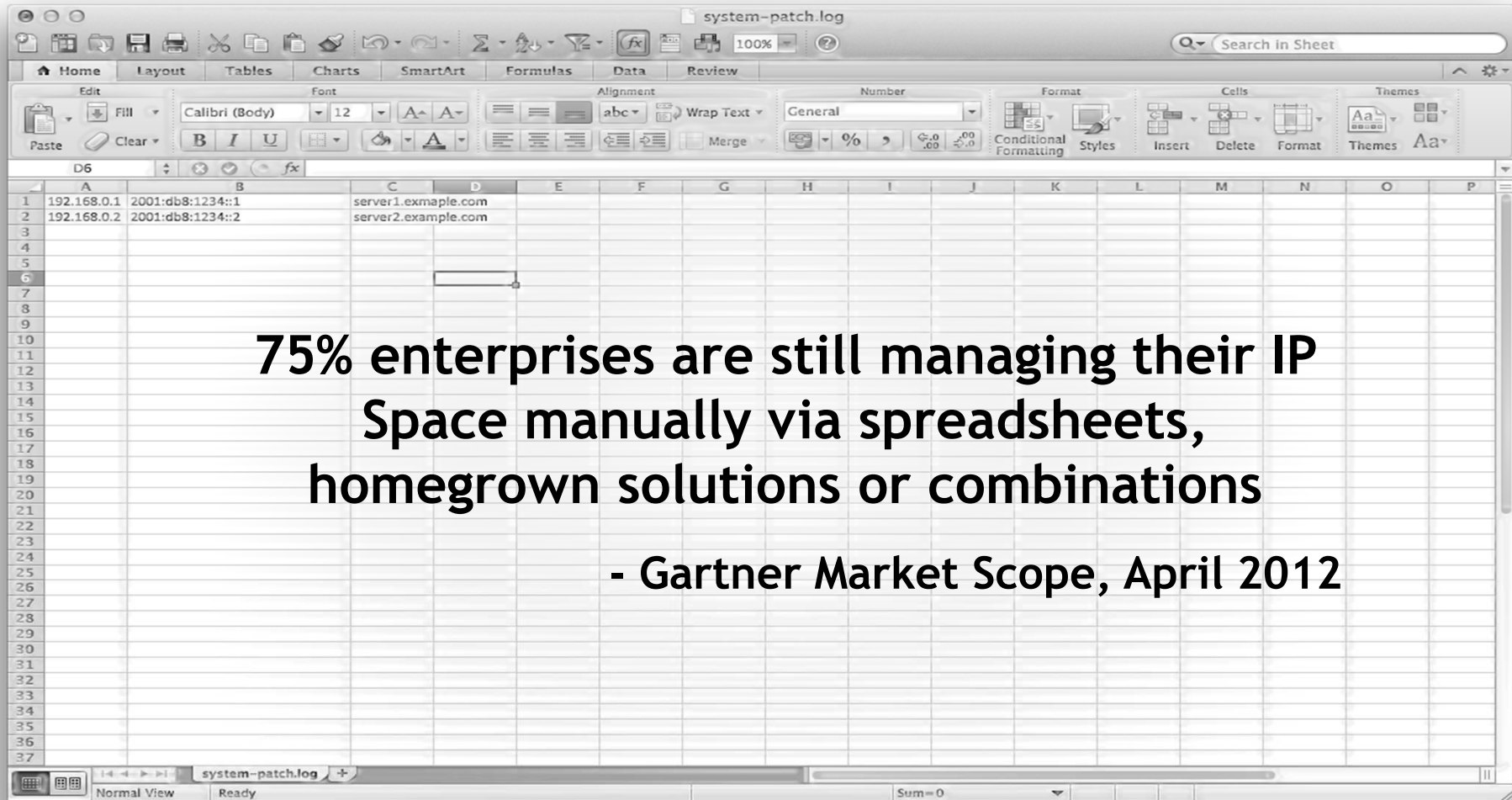
# Everything needs an IP and a DNS entry: Critical Services



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# IPAM Market: The dynamic enterprise challenges

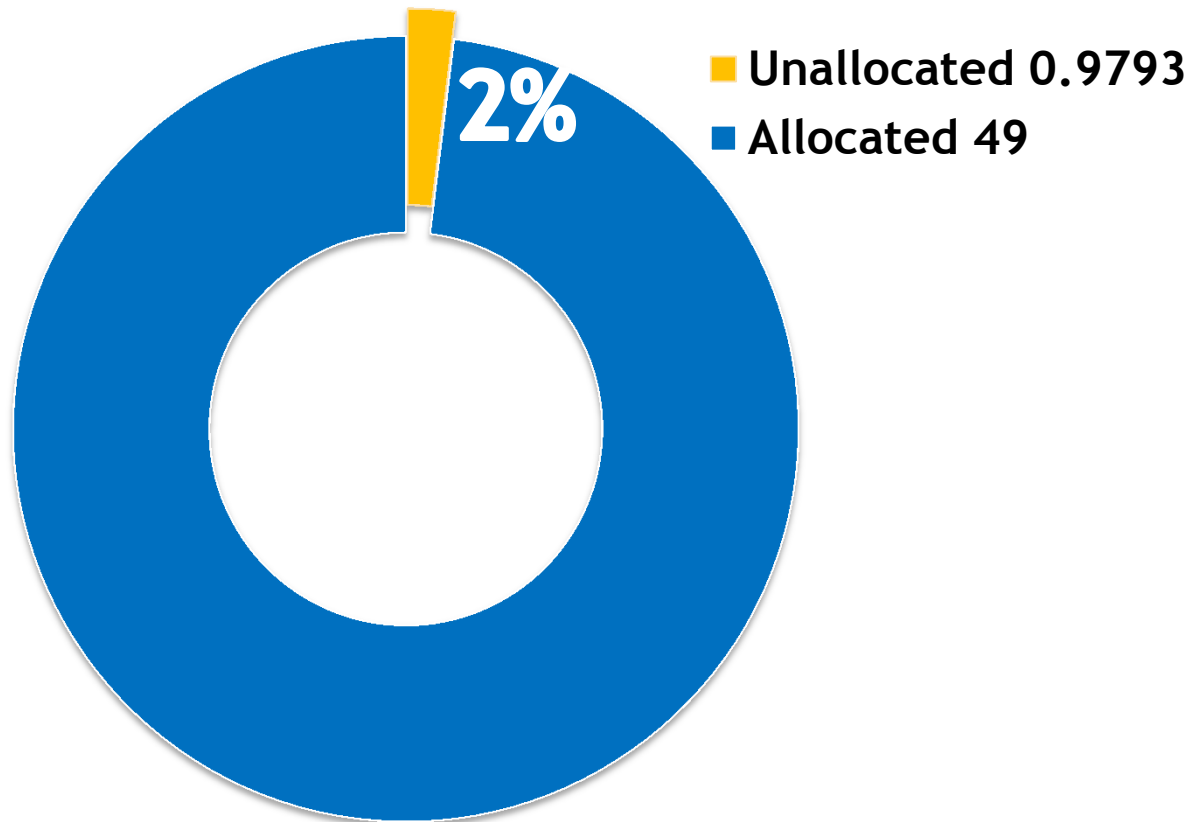


**75% enterprises are still managing their IP Space manually via spreadsheets, homegrown solutions or combinations**

**- Gartner Market Scope, April 2012**

# RIPE NCC

14 Sep 2012 – News: [RIPE NCC Begins to Allocate IPv4 Address Space From the Last /8](#)  
It is now imperative that all stakeholders deploy IPv6 on their networks to ensure the continuity of their online operations and the future growth of the Internet. (Source: RIPE)



RIPE IPv4 Exhaustion 14-Sep-2012

# 2

## VitalQIP Overview

# Introduction: VitalQIP overview



## 1993 - First to market: IPv4 IPAM Solution

20 years of experience in IPv4 Address Management, DNS & DHCP for Major Carriers & Large Enterprises

## 2005 - First to market: IPv6 IPAM Solution

8+ years of experience in IPv6 Address Management, IPv6 Forum member, IPv6 Standards contributions (BBF, IETF), Fully IPv6 capable networking portfolio

## 2012 - 2nd Generation IPv6 IPAM Solution

8+ years of experience in IPv6 Address Management leads to release of VitalQIP 8.0 designed to customers real world requirements for IPv6.

## 2014 - First DHCPv6 Failover Solution

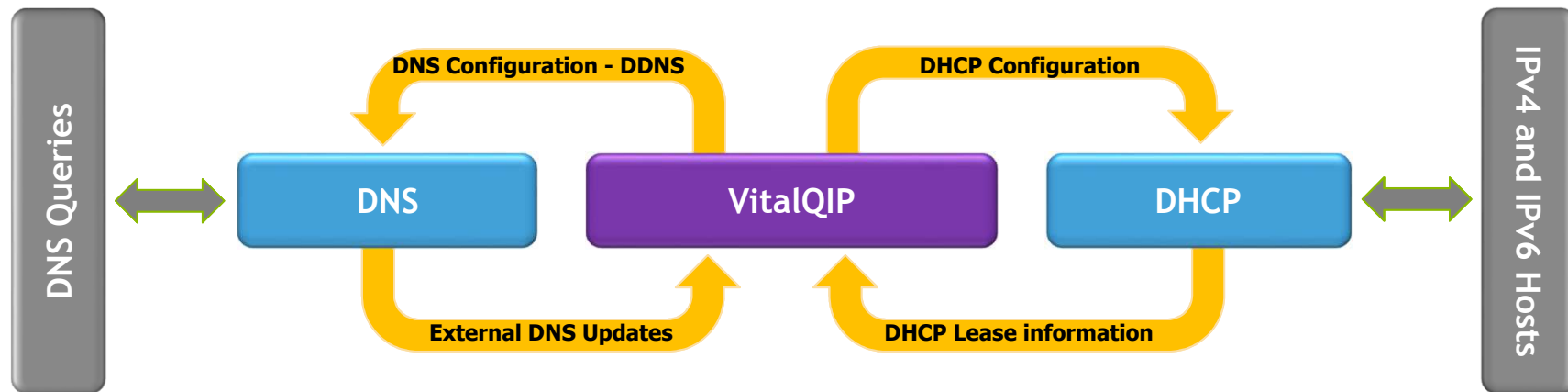
Customer requirement delivered by Alcatel-Lucent. Multi-threaded, Carrier-grade. Naturally.



# Introduction: VitalQIP overview



Provides **full IP address lifecycle** management from providing DHCP leases to clients to updating DNS Servers



- DHCP** = Automated configuration and management of DHCP servers supplying IP addresses and options to the IPv4 and IPv6 clients
- DNS** = Automated configuration of Domain Name System Servers with address-to-name and name-to-address resource records for IPv4 and IPv6 clients
- VitalQIP** = Central IPAM Repository serving as the foundation of DHCP and DNS management  
Facilitates allocation of IPv4 & IPv6 address space to subnets, devices, users, locations



# VitalQIP Offer Overview



## Hardware Appliances



QIP500



QIP700



QIP1210



QIP1210-RAID



QIP6000

## Software Appliances



Software Appliance ISO image  
Appliance installation on a Red Hat Enterprise Linux  
x64 compatible system

## Virtual Appliances



vmware®

riverbed™

## Traditional Software



redhat.  
L I N U X



Windows®



solaris™

**MOST FLEXIBLE SOLUTION ON THE MARKET**

.....  
AT THE SPEED OF IDEAS™

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# Unrestricted Virtualization



Alcatel-Lucent  
Virtual/Software  
Appliance

Unlimited CPU resources

Unlimited Memory  
resources

Unlimited Disk resources

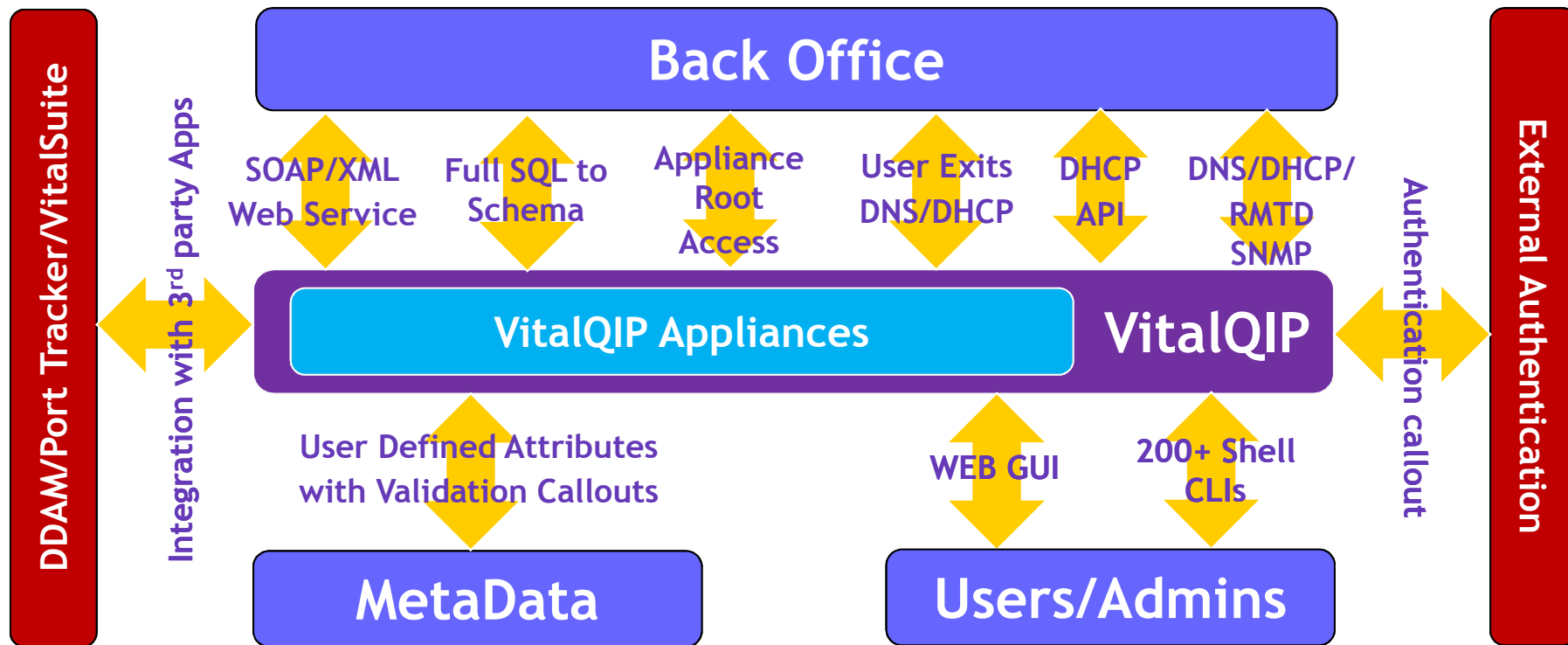
When deploying an Alcatel-Lucent virtual appliance the resources you provide to the virtual host are limited only by the resources available to the host, we do not artificially lock down virtual resources

When deploying a software appliance on your physical hardware, **the choice of hardware is your own**, only x64 Red Hat compatibility is a requirement

We provide a single unlimited/**unlocked ISO image**, we do not artificially limit the performance of our virtual appliances unlike our competitors virtualised solutions which are limited to specific hardware resources per image and rate limited to specific performance levels

**Virtualized or Software appliances from Alcatel-Lucent are not performance/resource restricted**

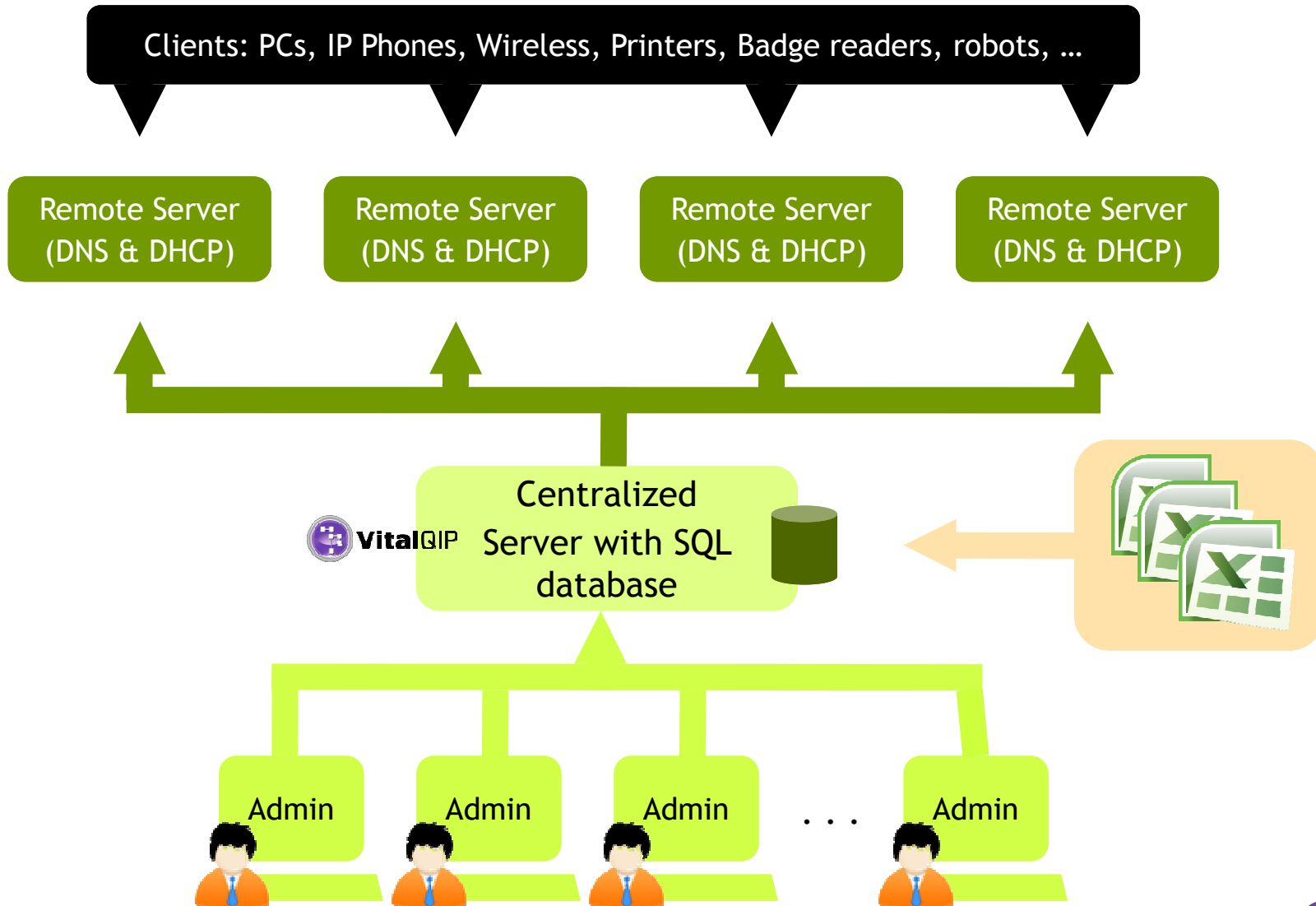
# Open Architecture



# 3

## The new IP management generation

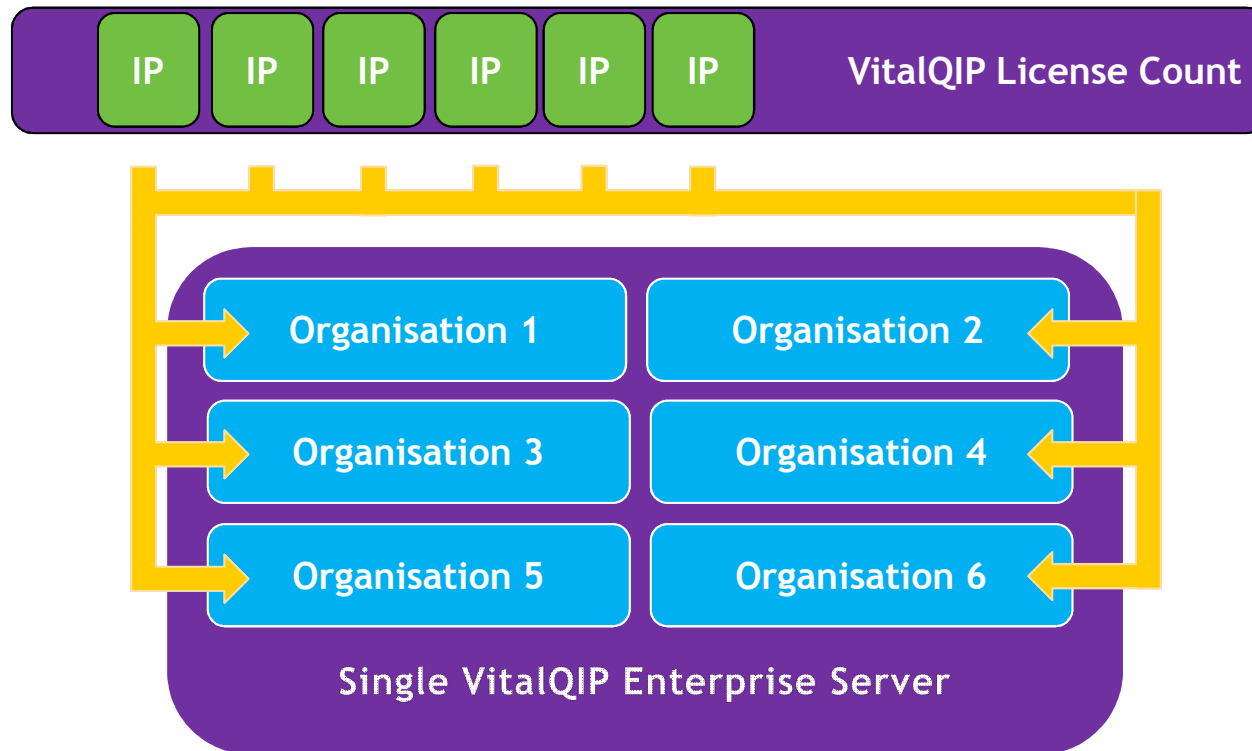
# QIP Overall Solution design



# Multi-tenancy via Organizations



Single VitalQIP Enterprise Server, multiple unique organisations  
VitalQIP license can be finely split over each organisations

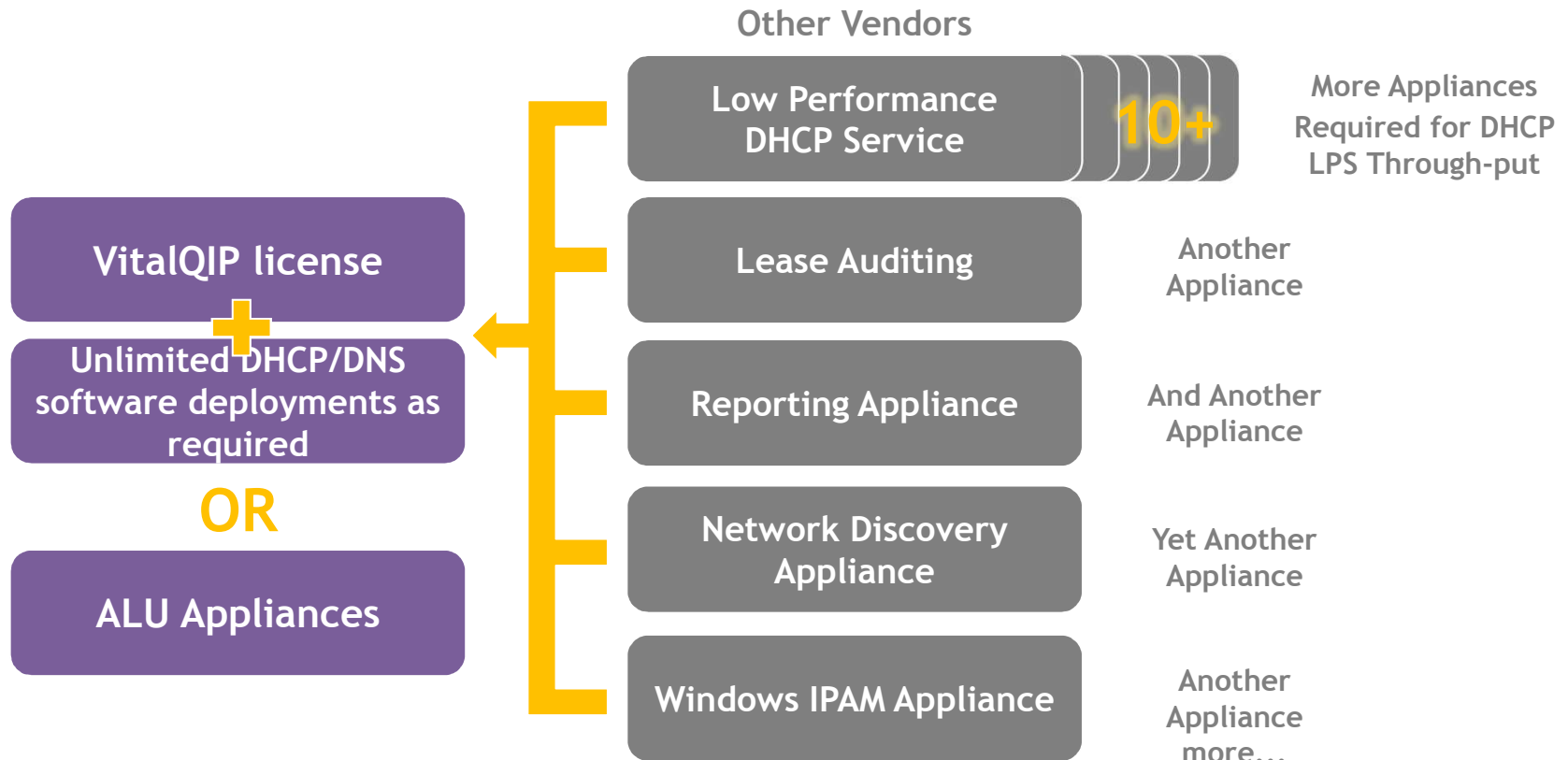


# IPAM Replacement ROI



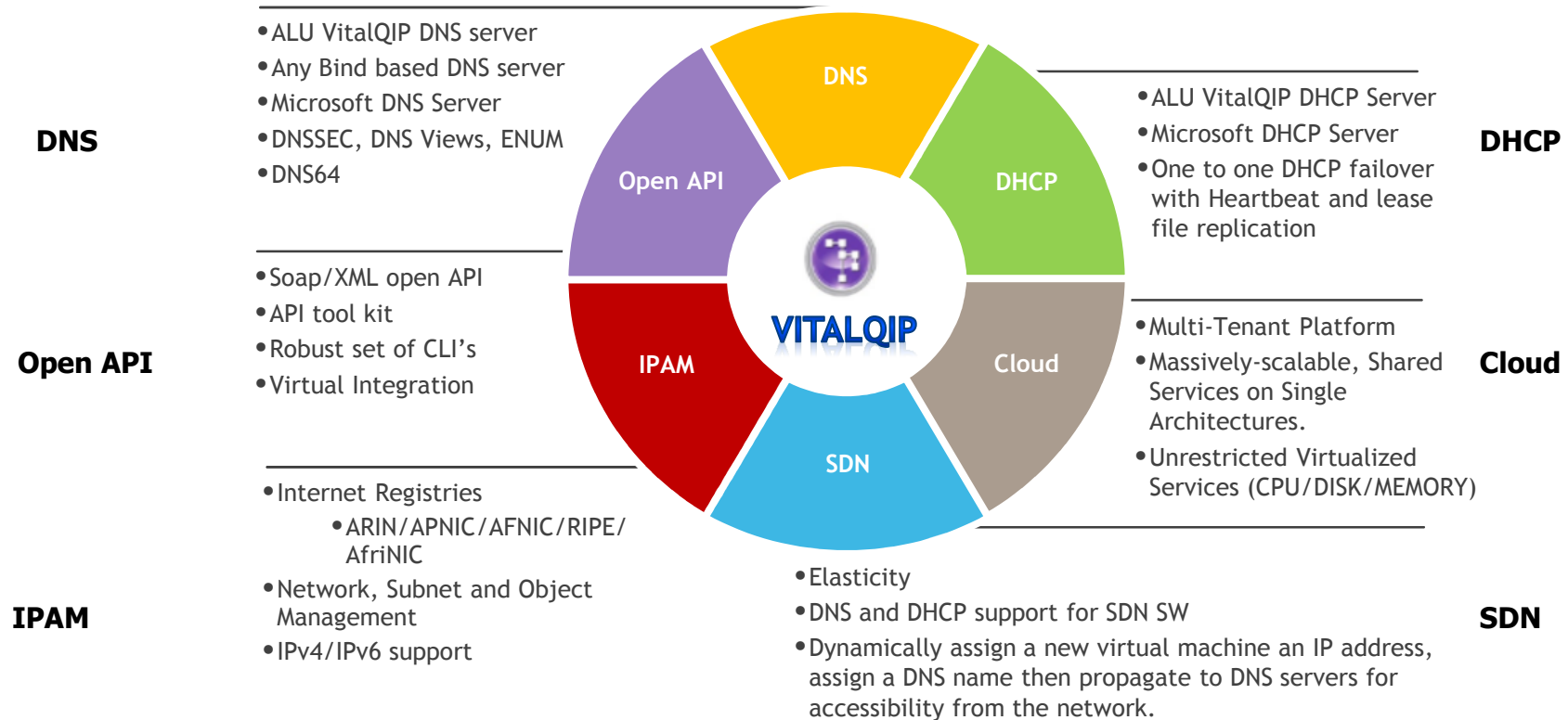
Consider ALL costs

Core functionality integrated not an additional extra





# (D)NS (D)HCP (I)PAM SOLUTION





# SUMMARY



- Control Speed**
  - Centrally manage IP address space, DNS, ENUM and DHCP servers Plan your IP space then simply push server configuration files to distributed DHCP/DNS servers and Appliances
- Accuracy**
  - VitalQIP ensures accurate, properly formatted configuration files are pushed to DNS and DHCP servers to keep IP services available
- Delegation**
  - VitalQIP enables delegation of responsibility with administrator profiles and granular control of user permissions
- Security**
  - VitalQIP provides access controls, SSL communications, DNSSEC, and GSS-TSIG to prevent DNS cache poisoning
- Scalability**
  - Carrier class with proven scalability (millions of IP addresses)
- Evolution**
  - VitalQIP delivers 1 major releases/year, continuing to support latest standards/technologies including IPv6 and appliance based solutions

VitalQIP myynti ja tukipalvelut:

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# QUESTIONS?



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