



**The Power of We™**

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# Avaya Aura® Virtualized Environment

## Avaya Aura® on VMware

Customer Presentation

## Virtualization Among CIO's Top Priorities

**42%**

**OF COMPANIES ARE VIRTUALIZING OR PLANNING TO  
VIRTUALIZE THEIR UC APPLICATIONS**

Nemertes Research March 2012

# Why Virtualization for Unified Communications?

- 
- ▶ **Server infrastructure consolidation**

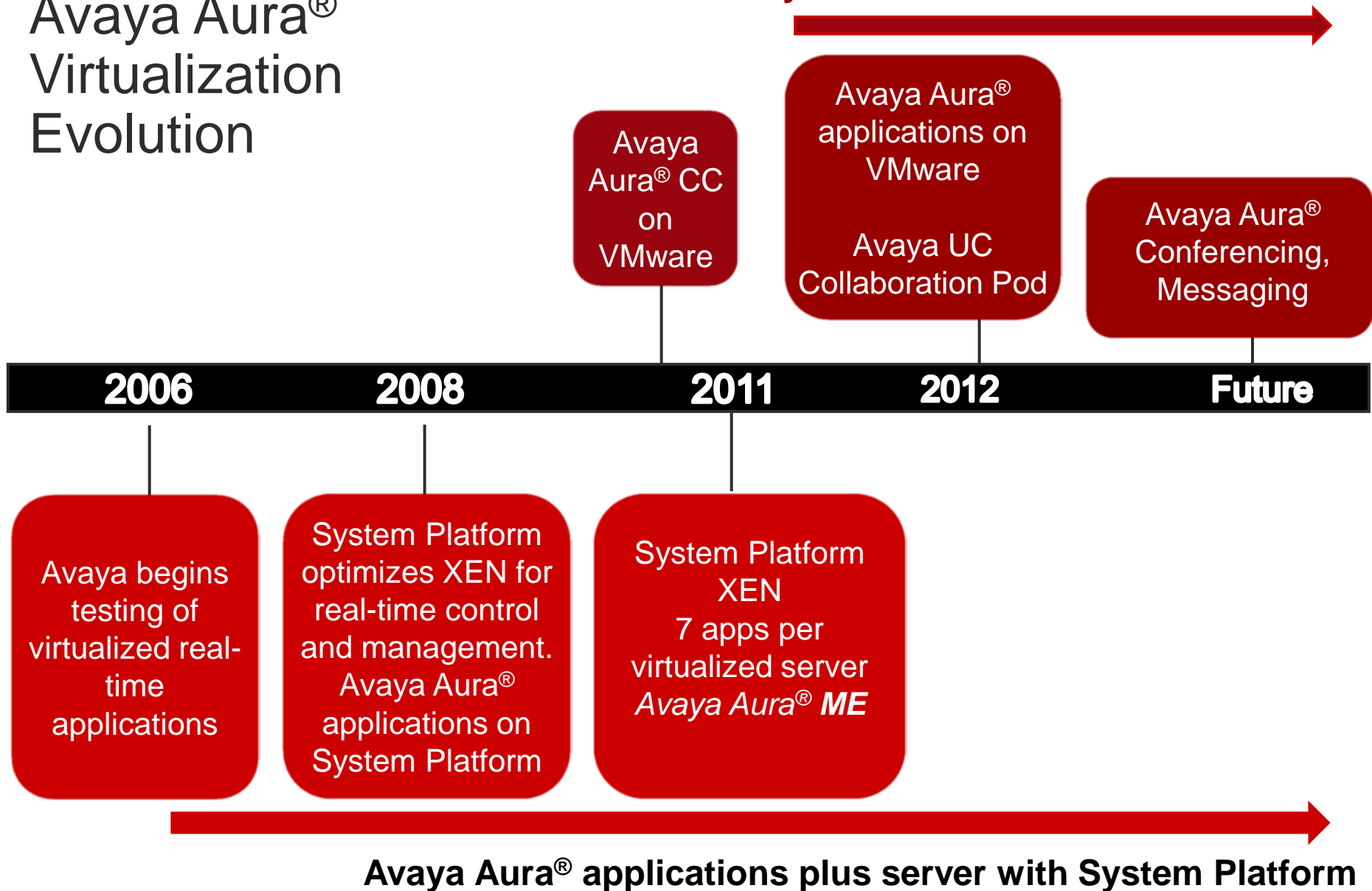
- 
- 
- ▶ **Reduced cost of installs and upgrades**

- 
- ▶ **Faster adoption of collaboration capabilities**

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- ▶ **Enablement of hosted UC services**

# Avaya Aura<sup>®</sup> Virtualization Evolution

## Avaya Aura<sup>®</sup> Virtualized Environment

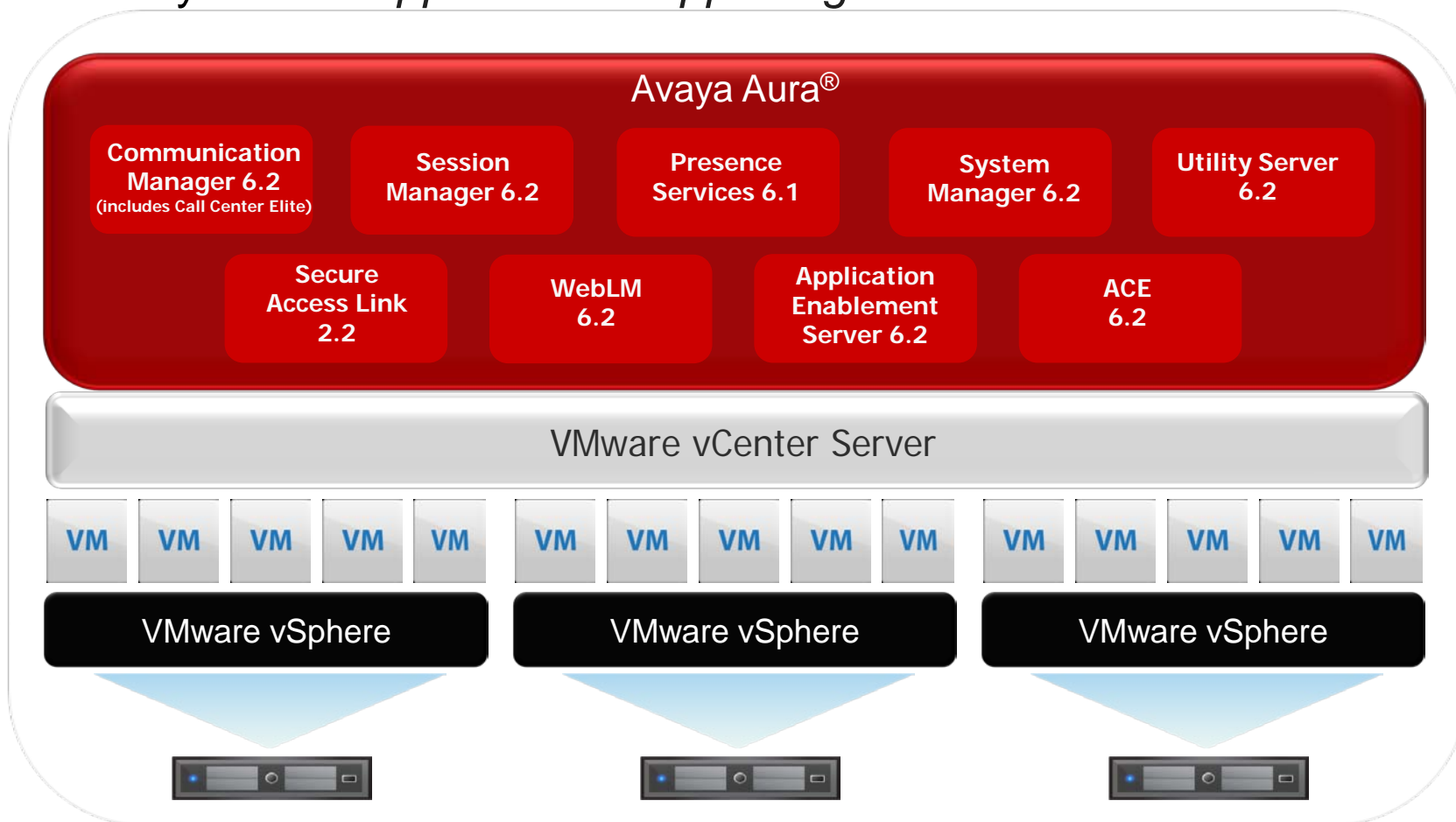


# Introducing Avaya Aura<sup>®</sup> Virtualized Environment

- ▶ **Full Avaya Aura<sup>®</sup> collaboration features on VMware**
  - Accelerates growth in expanded collaboration features
  - Adds VMware vCenter tools to Avaya Aura reliability
  - UC collaboration made available for any VMware customer
    - Includes CC Elite virtualized
- **Now - Three flexible deployment options to meet every need**
  - Software-only (VMware vAppliance)
  - Server plus Avaya Aura<sup>®</sup> application supported by System Platform
  - Turnkey UC Collaboration Pod (VMware and virtualized Avaya Aura<sup>®</sup> applications pre-installed, networking, storage)

# Avaya Aura<sup>®</sup> Virtualized Environment

*Avaya Aura<sup>®</sup> applications supporting virtualization with VMware\**



# Avaya Aura® Virtualized Environment

vCPU = virtual machine CPU

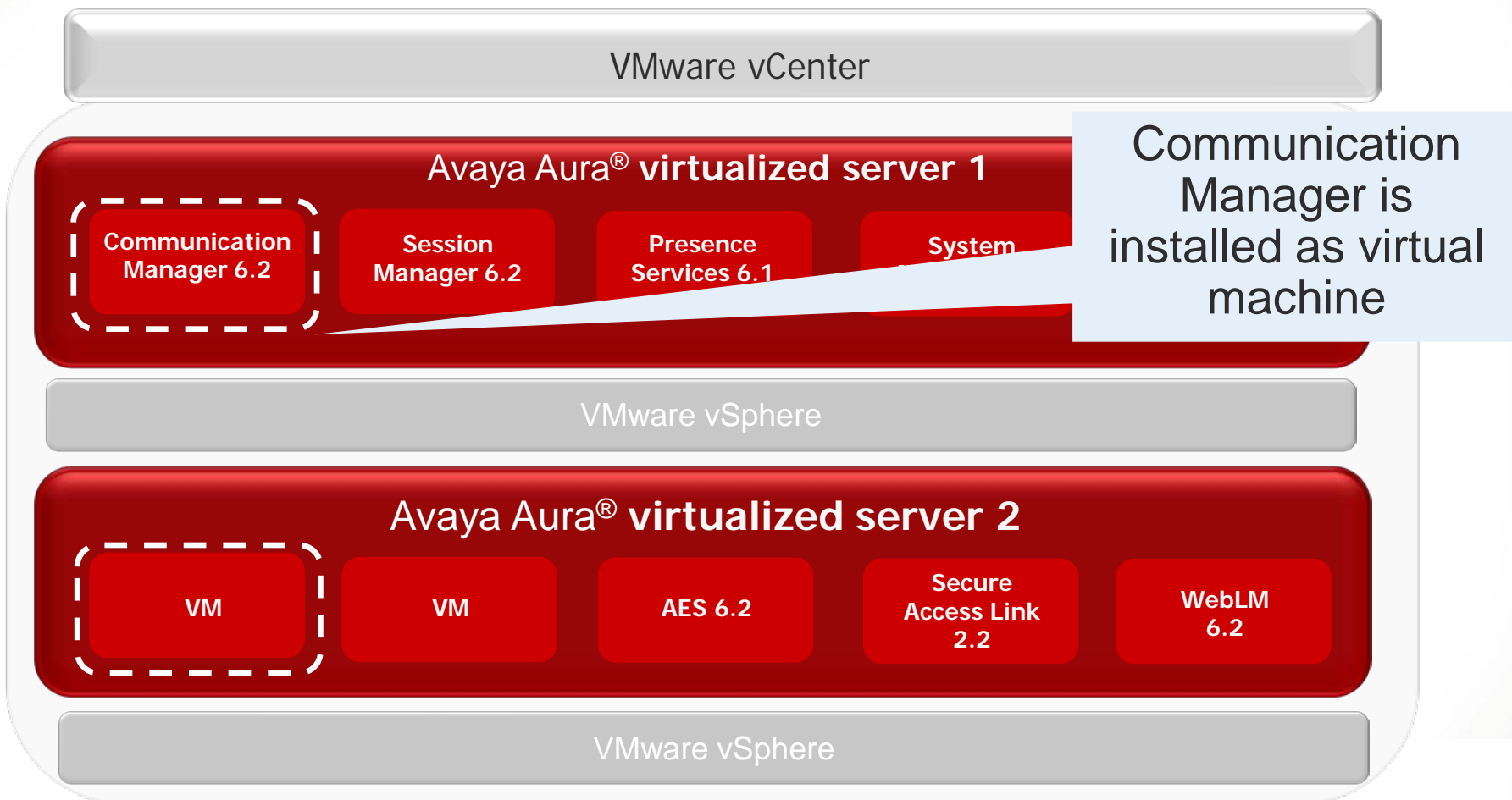
Avaya Aura on VMware	Rel	Capacity (users)	vCPU (virtual CPU)	Virtual Memory (GB)	Virtual Storage (GB)
Communication Manager (Includes CC Elite)	6.2	36K	1	4	30
Communication Manager Software Duplication (Includes CC Elite)	6.2	36K	3	5	30
Application Enablement Services	6.2	20K (simultaneous MOC/LCS users)	4	4	20
Session Manager	6.2	6K	8	12	150
Presence	6.1	2.5K	8	8	80
Utility Services	6.2	Support 5k IP Endpoints	1	1	20
System Manager	6.2	250K (50 simultaneous sessions)	4	6	70
Web LM	6.2	5K request simultaneous	1	1	10
ACE	6.2	4K	4	12	150
SAL	2.2	500 Elements	2	2	40

# Avaya Aura® Virtualized Environment

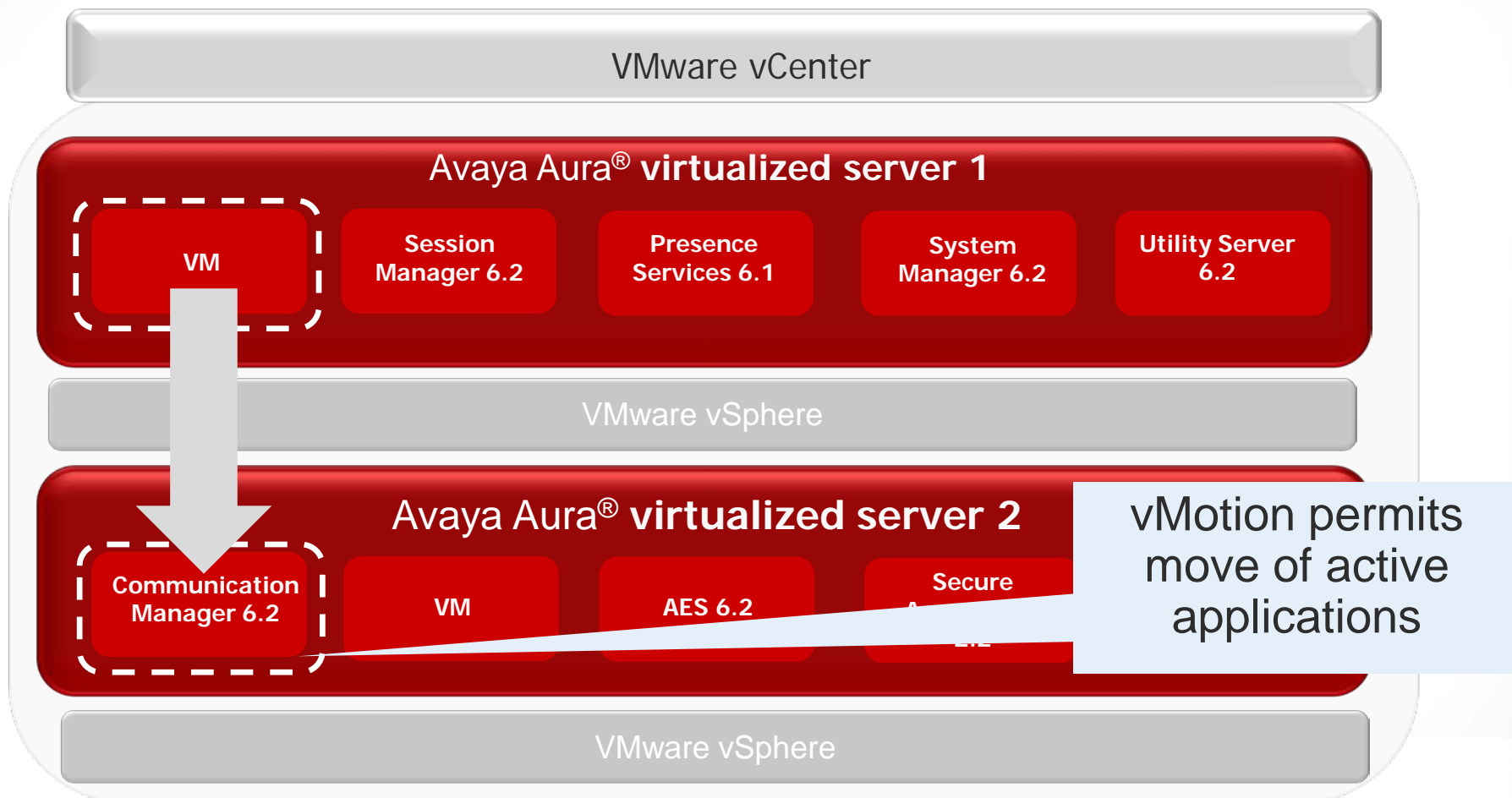
Application	CPU floating cores	vCPU Reservation	CPU Speed (minimum) Or Equivalent	Memory Reservation (GB)	Storage Reservation (GB)	vNIC(s) GigE
CM Simplex	1	2.4 GHz	2.4GHz Xeon E5620	4	30	1
CM Duplex	3	8.7 GHz	2.9GHz Xeon x5670	5	30	2
SM	8	19.2GHz = 8x2.4GHz	2.4GHz Xeon E5620	12	150	4
AES	4	9.6GHz = 4x2.4GHz	2.4GHz Xeon E5620	4	20	1 or 2
US	1	N/A	2.4GHz Xeon E5620	1	20	1
PS	8	19.2GHz = 8x2.4GHz	2.4GHz Xeon E5620	8	82	1



# Move Avaya Aura® apps using vCenter Tools



# Move Avaya Aura® apps using vCenter Tools



**NO LOSS OF CALLS DURING AVAYA AURA® APPLICATION MOVE TO NEW SERVER**

# Delivering Reliability and Resiliency

Avaya Aura® Virtualized Environment

## *Avaya Aura®*

Avaya application level availability

- Communication Manager:
  - Software Duplication for failover
  - Survivable Core and Survivable Remote Geo redundancy
- Session Manager:
  - Active-active clustering, N+M routing



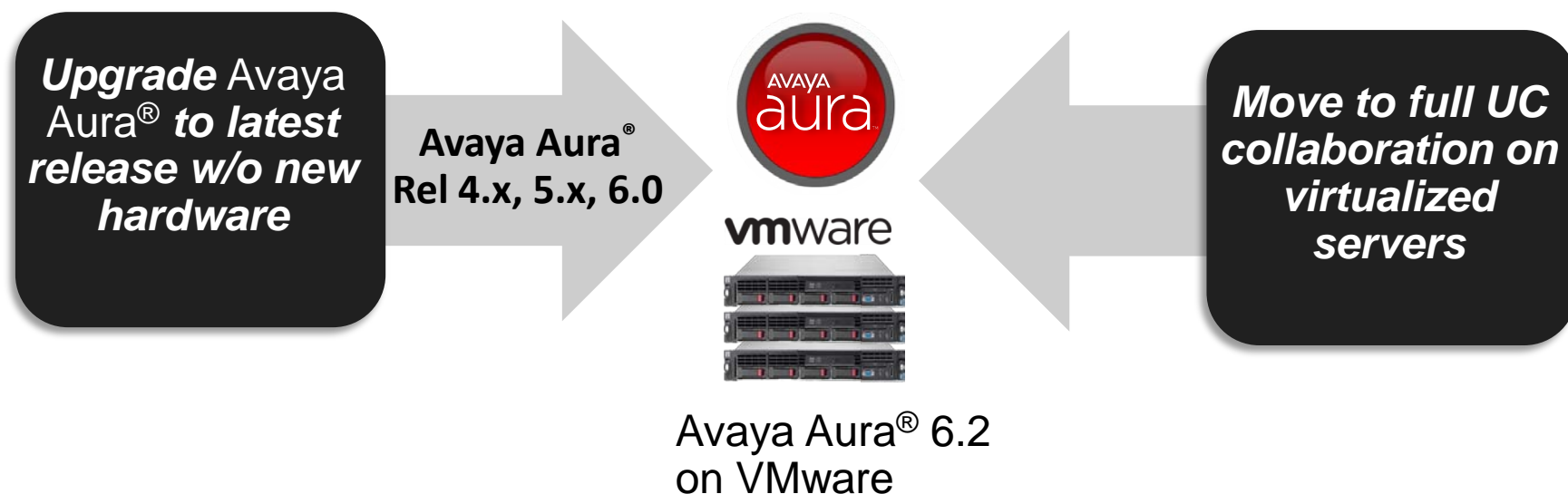
## *VMware*

Avaya Aura VE is tested with VMware availability features

- vMotion
- vMotion Storage
- VMware High Availability
- VMware Snapshot

***Avaya Aura + VMware = Enhanced capabilities for resiliency and survivability***

# Virtualization Enables New UC Opportunities for existing and new UC customers



▶ Reduced upgrade cost, time

▶ Accelerated adoption of new collaboration features

# Virtualization Enables New UC Deployment Opportunities

## Why Avaya Aura 6.2

SIP core for UC

Advanced business  
collaboration

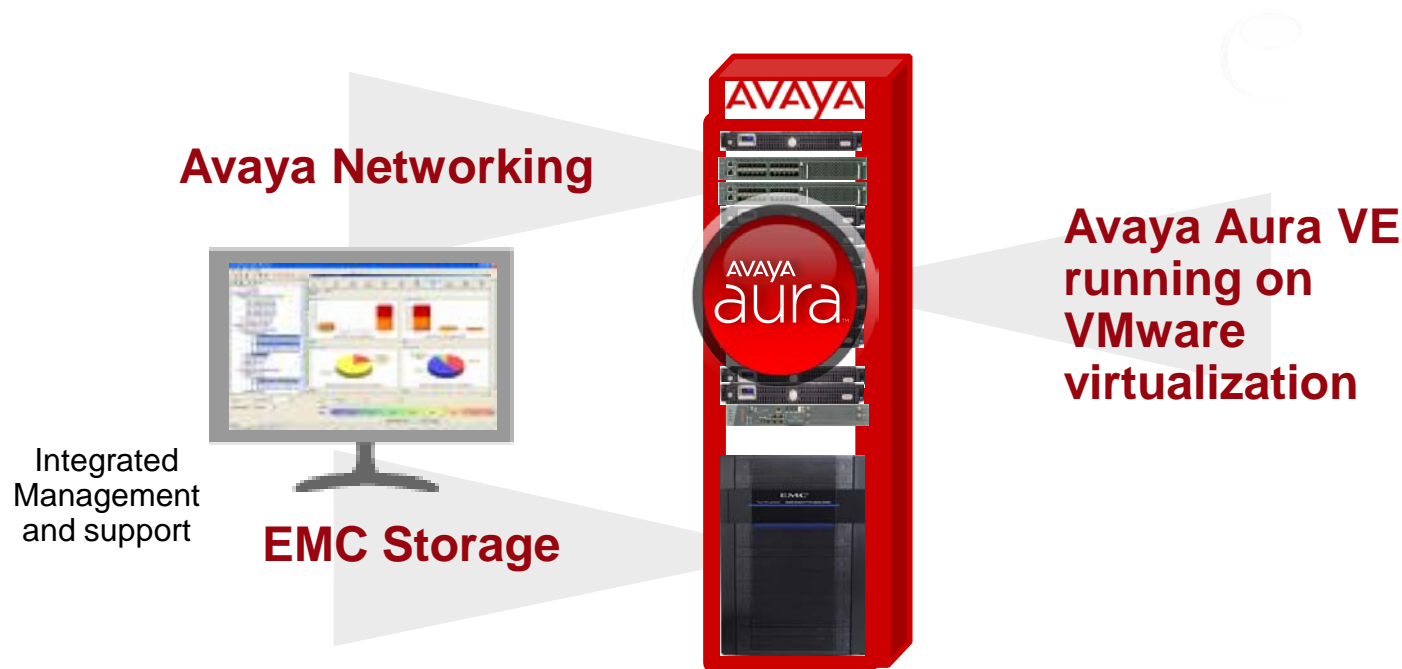
- Ease of management
- Centralized trunking
- Network normalization
- Open standard



- Flare Experience
- Conferencing 7
- Mobility
- Radvision
- Lync Integration

# Virtualization Enables New Deployment Options

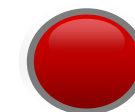
## Turn Key UC Collaboration Pod



- ▶ Virtualized server with UC installed
- ▶ Pre-configured, tested for rapid deployment
- ▶ Single solution with virtualization power + turnkey simplicity

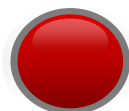
# Advantages Avaya Aura<sup>®</sup> Virtualized Environment

**UC server infrastructure consolidation with virtualization**



**Powerful availability and fast track deployment options**

**Flexible deployment options; software, appliance or  
turnkey**



**Expansion to next generation collaboration capabilities**

# Avaya Aura<sup>®</sup> Virtualized Environment Packaging and Availability

## ▶ **Availability**

- Avaya Aura<sup>®</sup> Virtualized Environment was demonstrated at VMworld 2012 as part of the Avaya Collaboration Pod solution
- Avaya Aura<sup>®</sup> Virtualized Environment is planned for General Availability in 4QCY12 (Controlled Introduction to ensure customer network is ready and customer is successful)

## ▶ **Licensing**

- Standard Avaya Aura application user licensing will apply
- Current licenses are transferrable



# Avaya Aura Virtualized Environment Packaging and Availability

## ► Requirements

- Avaya Aura<sup>®</sup> VE requires customer provided VMware licenses and VMware certified hardware
  - Initial support for VMware ESXi 5\*
- Customer has VMware certified personnel trained staff
- Customer must purchase the VMware Standard, Enterprise or Enterprise Plus licenses

## ► Implementation options

- Experienced customers can use VMware vCenter to download OVA files directly
- Avaya UC Collaboration Pod pre-installed with Avaya Aura VE for turn key install

\*According to VMware, 75% of the customer base has not yet moved to version 5, Avaya chose to implement in the latest version for performance of real time communications

\*\*Nominal charges may apply

# Avaya Virtualization for Unified Communications



▶ **Avaya Aura as software application**



▶ **Feature upgrade on virtualized architecture**



▶ **UC for any VMware user**



▶ **Business acceleration virtually anywhere**



# AVAYA

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