



# HP NonStop + HP-UX = Hybrid

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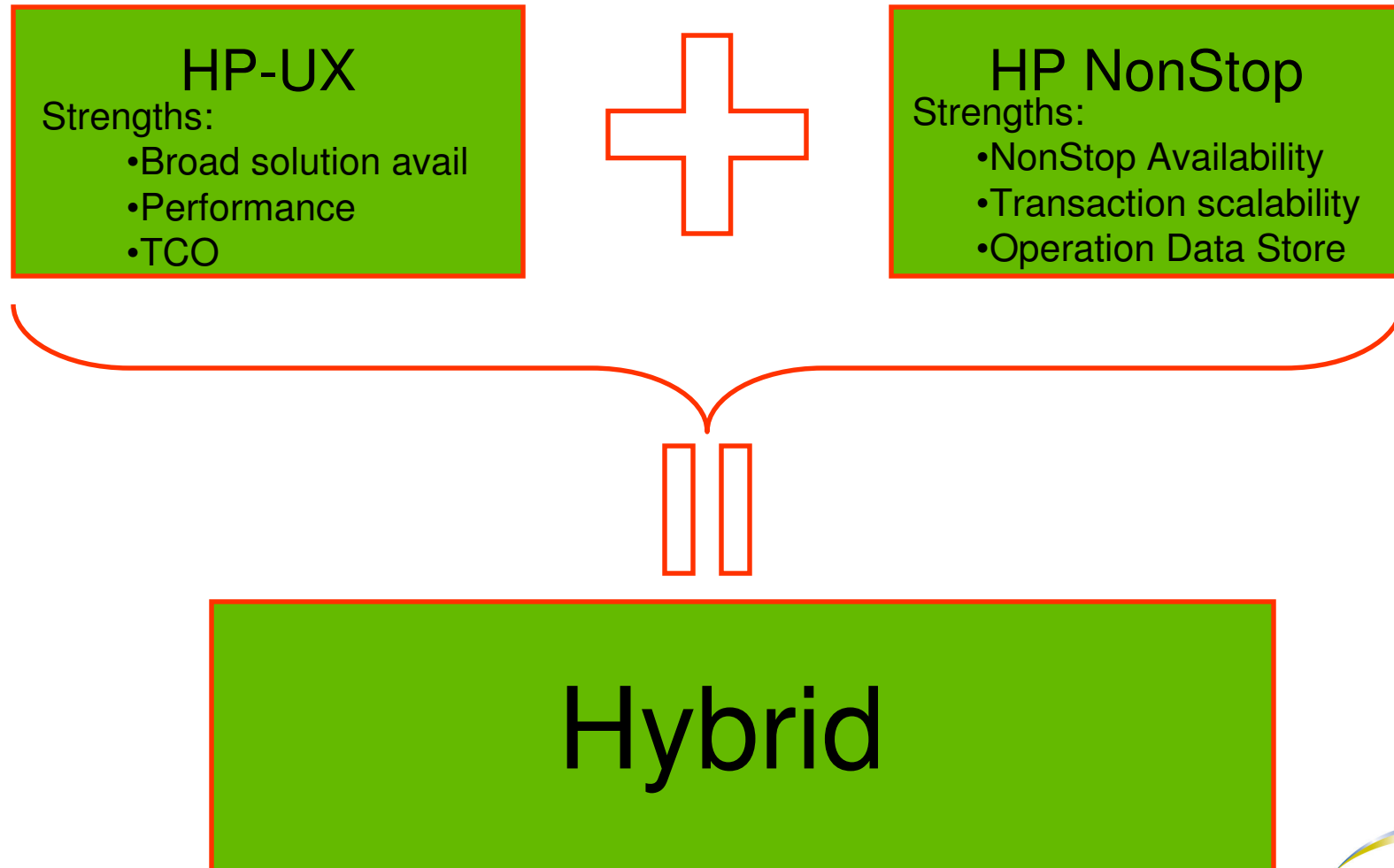
Martin Whittaker  
Director, Engineering  
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# Agenda

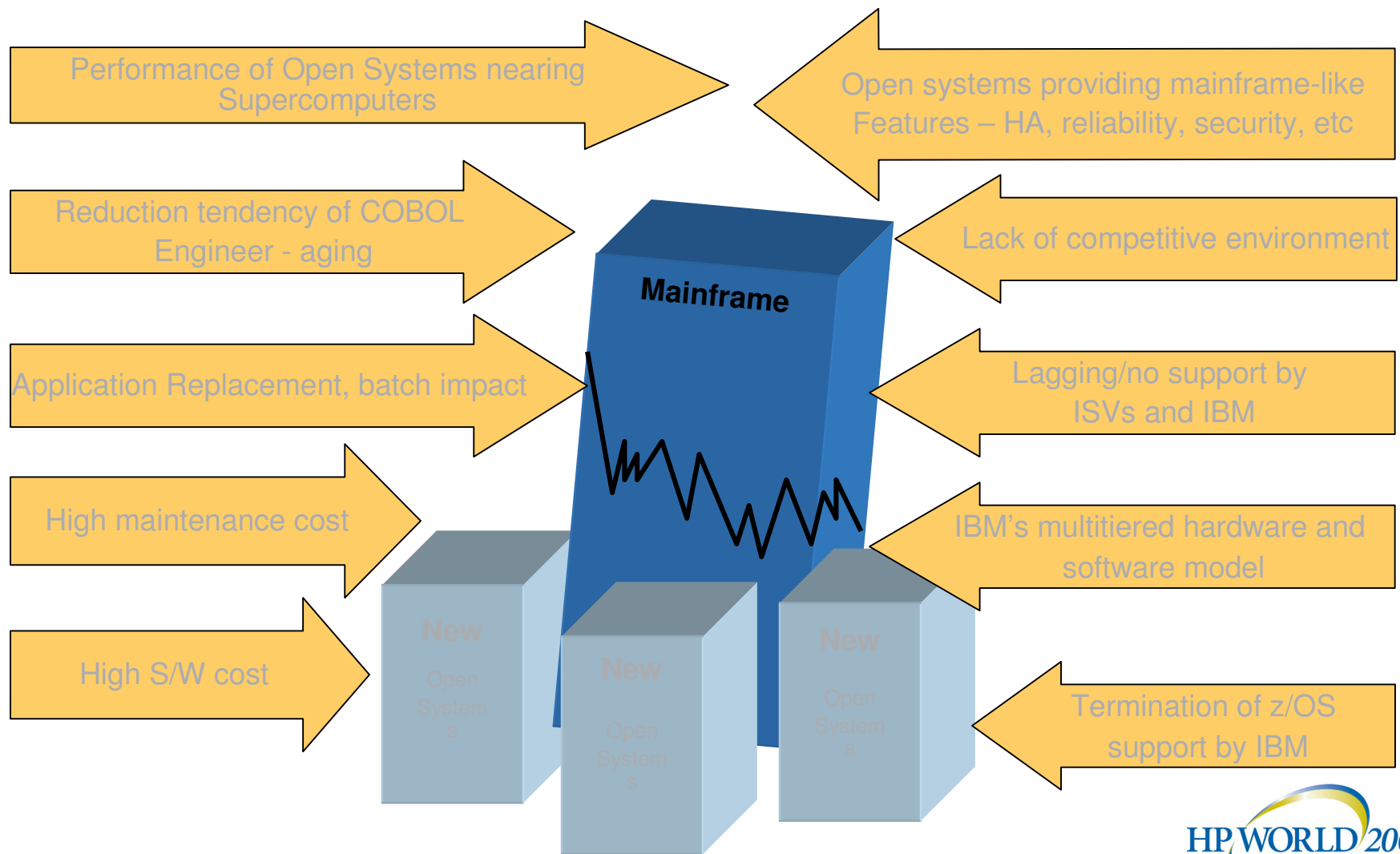
- Program Context
- Program Definition
- Market Proof-points
- Initial Market Entry Segment
- Key ISV Status
- Future Directions

# Hybrid Value Proposition

## The Power of +



# Hybrid – Why Now? Summary



Source: Gartner, META, Aberdeen, TechTarget, IDC, Anderson Consulting, Cambridge Consulting, etc

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# NSK + HP-UX “Hybrid” Program

## **Objectives:**

1. Provide SOLUTIONS to selected sections of the “MainFrame/High End” market:
  - Start with a “better together” HP-UX+NSK “Hybrid” since it already provides the majority of the required “MainFrame” feature/functionality AND “future proofs” existing customer environments.
  - Start with the Banking/Financial Services industry, working with a core set of specialized ISVs, since this provides the most traction and value-add.
2. Develop deep relationships with key lighthouse accounts that can help HP iterate the “Hybrid” offering into long term strategic programs.

## **Sponsors:**

Xuan Bui, Pauline Nist

## **Program Leads:**

Mike Elson, Steve Saltwick, Bob Kennedy

## **Team Leads:**

- NED: Steve Saltwick, Bob Taylor, Mike Dowers, Arun Gaur, Nick Beason, Keith Evans
- BCS: Mike Elson, Bob Kennedy, Dan Osecky, Cindi Schell, Carl Gallozzi
- HPS: Joe Lott



# Hybrid Solutions Definition

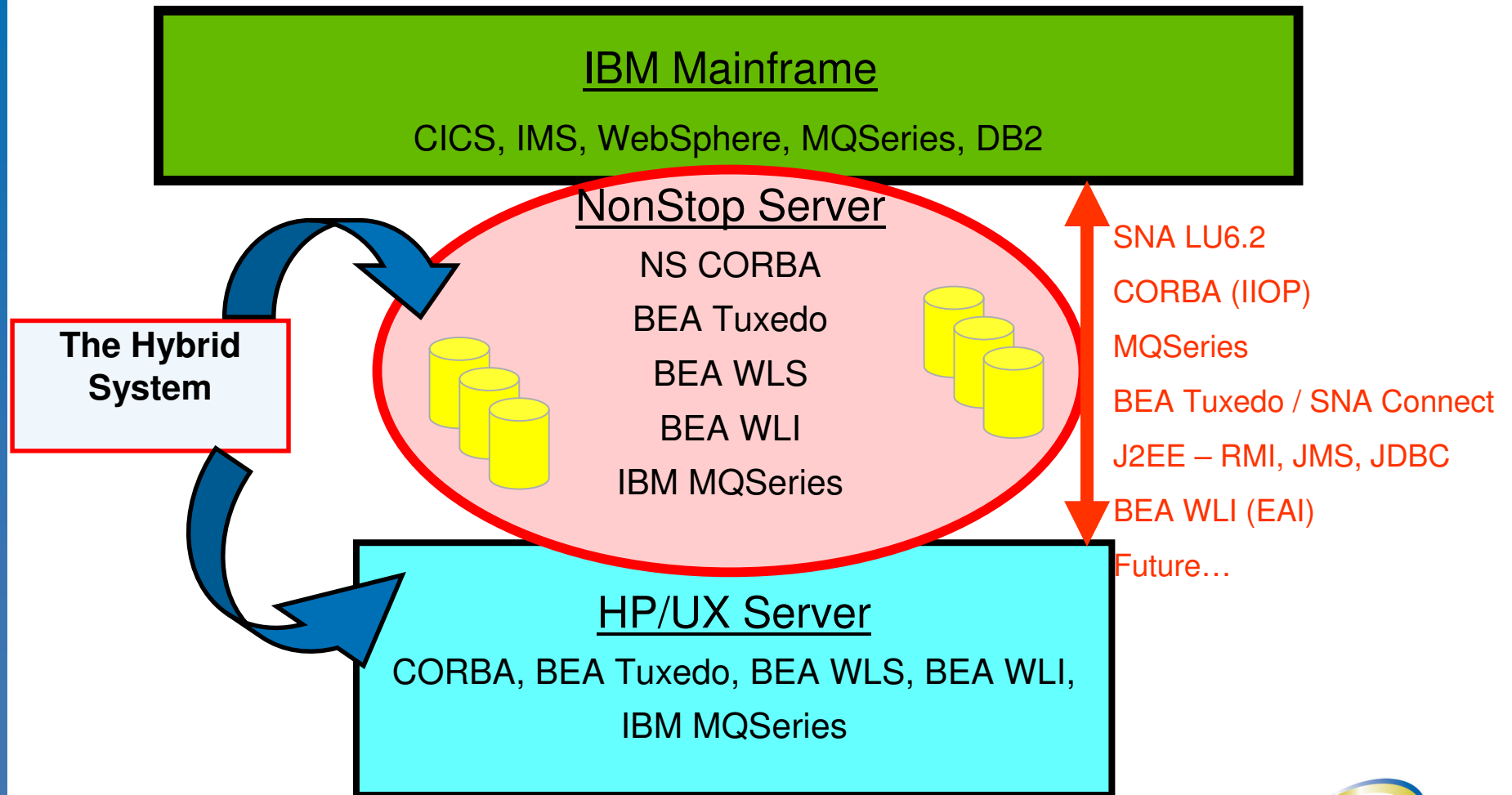
## Hybrid IS:

- One or more NonStop & HP-UX systems providing an “integrated” solution
  - A heterogeneous multi-tier system
  - But providing end-to-end availability, enhanced manageability
  - Capitalizing on the continuous availability of the NonStop system along with the cost effective scalable performance of HP-UX
  - End-to-end solution tested and characterized
  - Supported through a standard field support contract
  - HP Services engagement
  - Targets specific markets with a tool box for C&I customization

## Hybrid is NOT:

- HP-UX running on a NonStop system
- NSK running on a partition of an HP 9000

# Hybrid Architecture





# Agenda

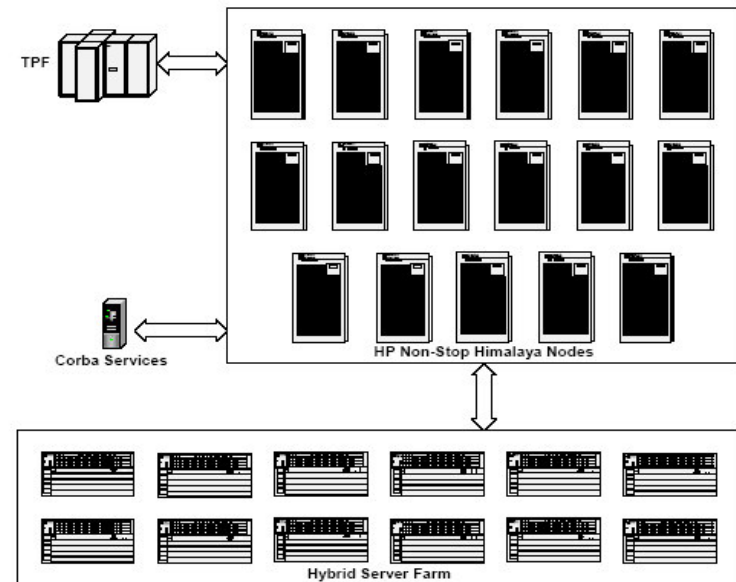
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# Sabre – ATSE Hybrid HP-UX Solution Stack

- **Customer Type**
  - Distributor of Travel
- **Project:**
  - Migrate Leading online travel reservation system from MF for enterprise integration and transaction growth.
- **Project Value**
  - HW/SW sales – part of >\$100M deal.
- **Project scope**
  - Four-year program designed to migrate airfare pricing, schedules, and seat availability.
- **Market differentiator**
  - World's largest distributor of travel with 40% of the reservation business.

# Sabre Hybrid Architecture

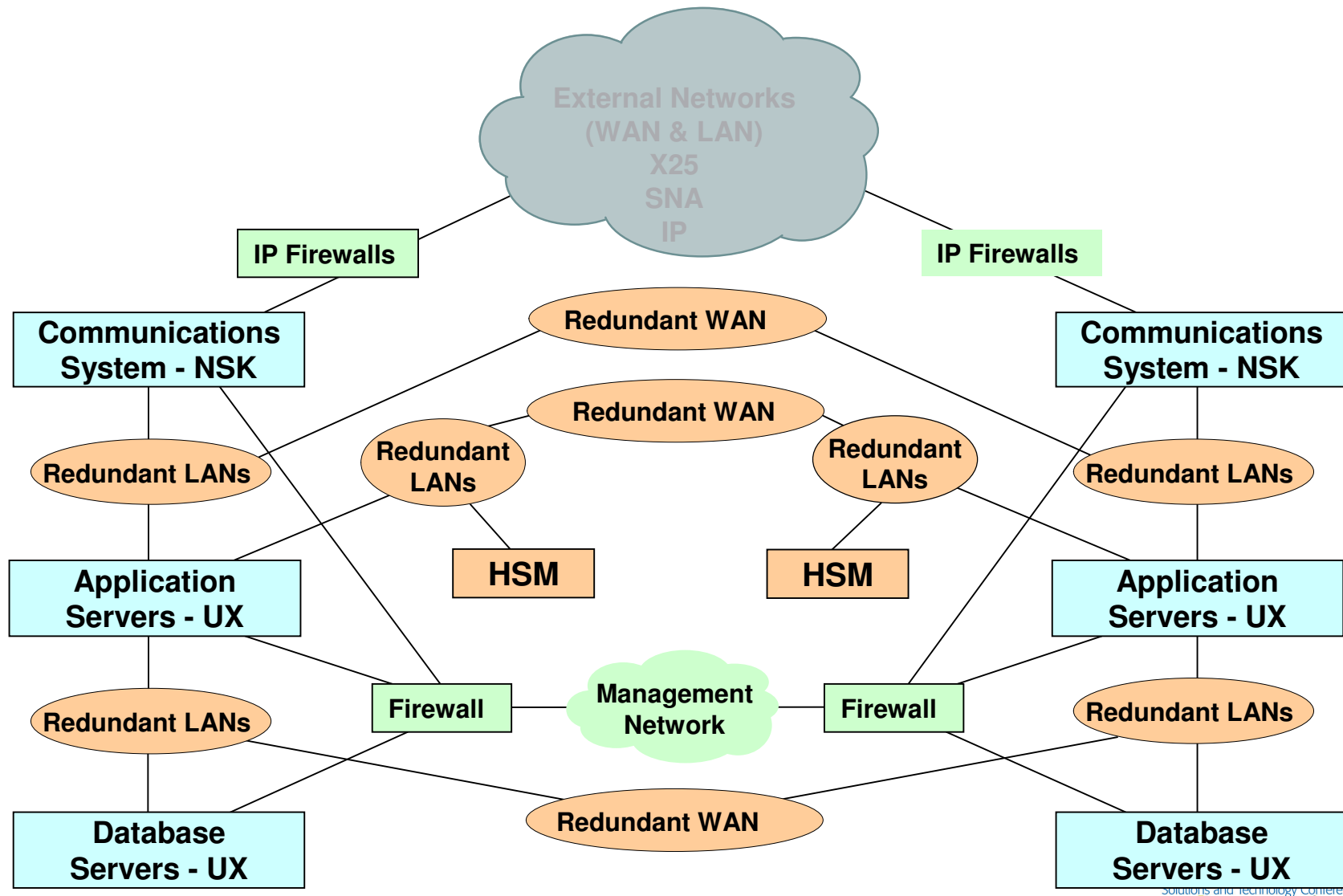
- NonStop
  - 17X16CPU (S86000)
  - Dual SQL/MP database
- HP-UX
  - 28 HP-UX 11i 5405 servers
  - 15 Linux RedHat Advanced Server 2.1 IA64 HP5670 servers
- Linux
  - Expect to add “hundreds” of linux servers to hybrid server farm



# Hybrid benefit to Sabre

- Availability and Transaction capacity/response equivalent to TPF
- TCO lower by >50%
  - Industry standard application environment (C++/Corba) and relational database enhanced programmer productivity
- NonStop relational database allowed new uses of data, new services
- HP-UX and MySQL  
allowed less critical transactions to be run more cost effectively while maintaining integrated data

# Hybrid System for Major Bank



# Hardware – Production Sizings

## Communications Server

- NonStop S7604, 4 CPU

## Application Server

- Integrity Itanium 2, rx5670, 4 CPU, 16GB Memory

## Database Server

- Integrity Itanium 2, rx5670, 4 CPU, 32GB Memory
- EVA 3000s
  - VSTS & STS, 390GB
  - Redo logs, undo tables, 390GB
  - LTS, 2.4TB

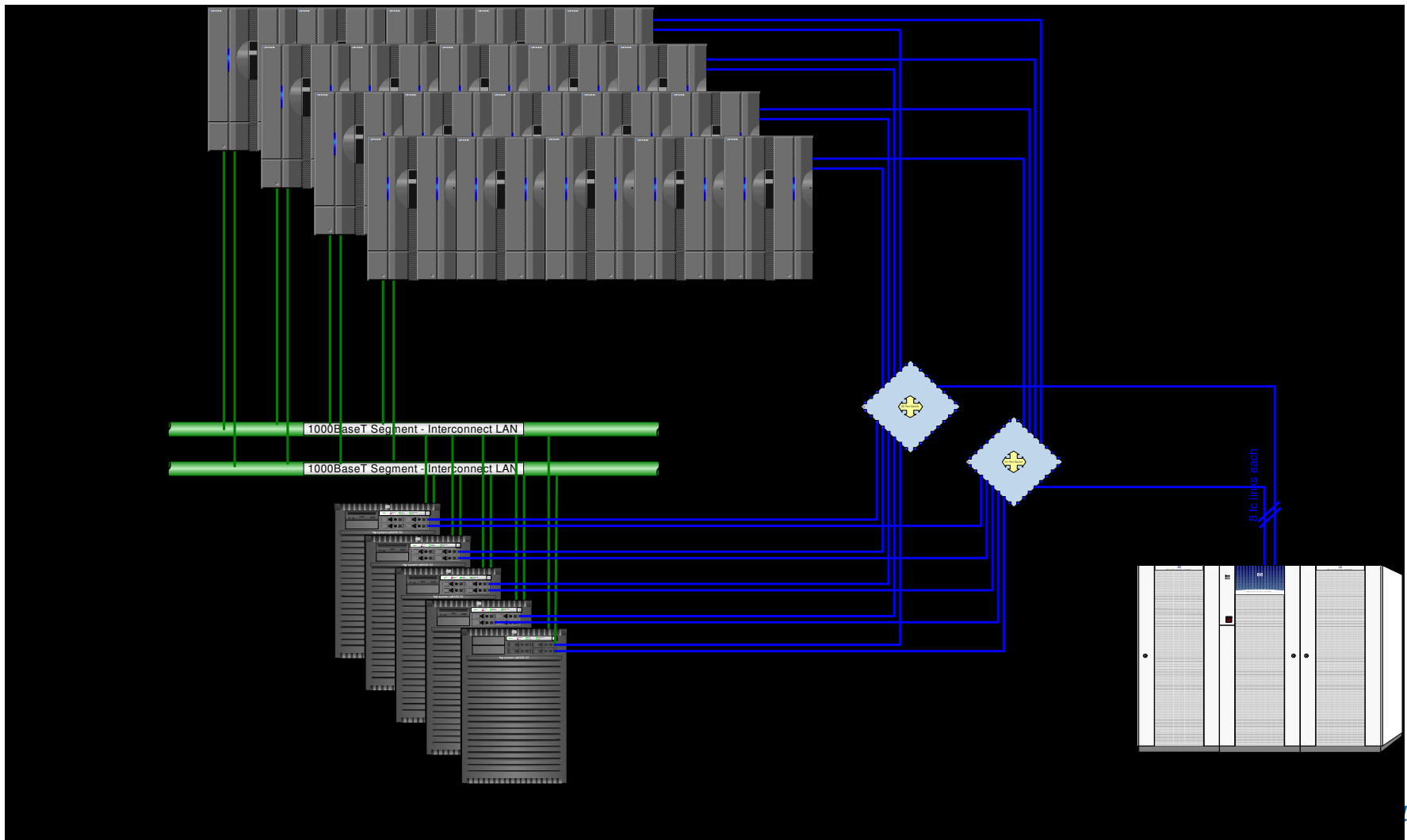
## Management Server

- Dual rp2470, 2 CPU, 4GB memory

## HSM (Hardware Security Module)

- 1200 function calls per sec, dual ported

# Nonstop & HP UX Hybrid: Telecommunications Proposed Architecture



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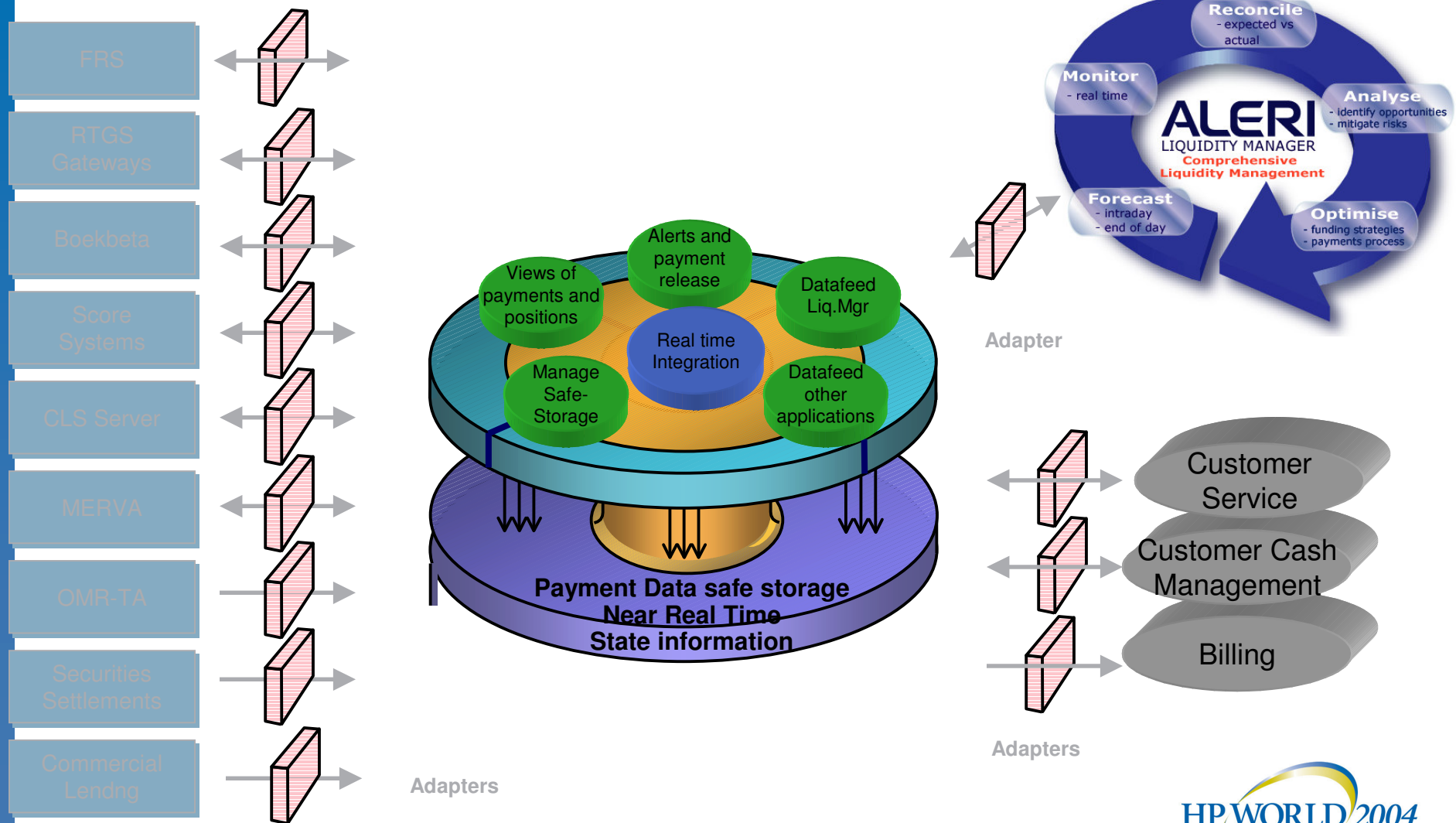
# Available Niches to a Hybrid Solution As Hp sees it...

- Legacy “Conversions” – AVAILABLE, but
  - Technically very difficult to provide a true legacy conversion
  - Mixed results reported
  - Mainframe J2EE immature (GG)
- New “Integration Contexts” – BEST TARGET NICHE
  - 80% of IS orgs predicted to re-use apps, rather than re-write (GG)
  - 35% of “mission critical” apps expected to be “wrapped” in new solutions by 2006

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# Real Time Global Liquidity Management



# Liquidity Management – Value Proposition

- Consolidate expected and actual cash flow and collateral information
  - in-real time
  - from internal and external systems
  - Across all clearing channels, currencies and business entities
  - .....Reduce operational costs and provide complete information
- Forecast intra-day liquidity positions
  - By time
  - By multiple configurable criteria
  - ..... Minimise funding costs and reduce operational risk  
(1% = £1M savings pa)
- Reconcile expected and actual events
  - As activity occurs
  - ..... Reduce cash and collateral balance requirements
- Monitor intra-day liquidity utilisation
  - ..... Improve liquidity utilisation
- Analyse liquidity information
  - Current, future and historical data
  - To identify trends, opportunities and business opportunities
  - ..... Identify optimal liquidity strategies

# ACI: A JOINT NonStop & HP-UX ISV

## Staggering Numbers

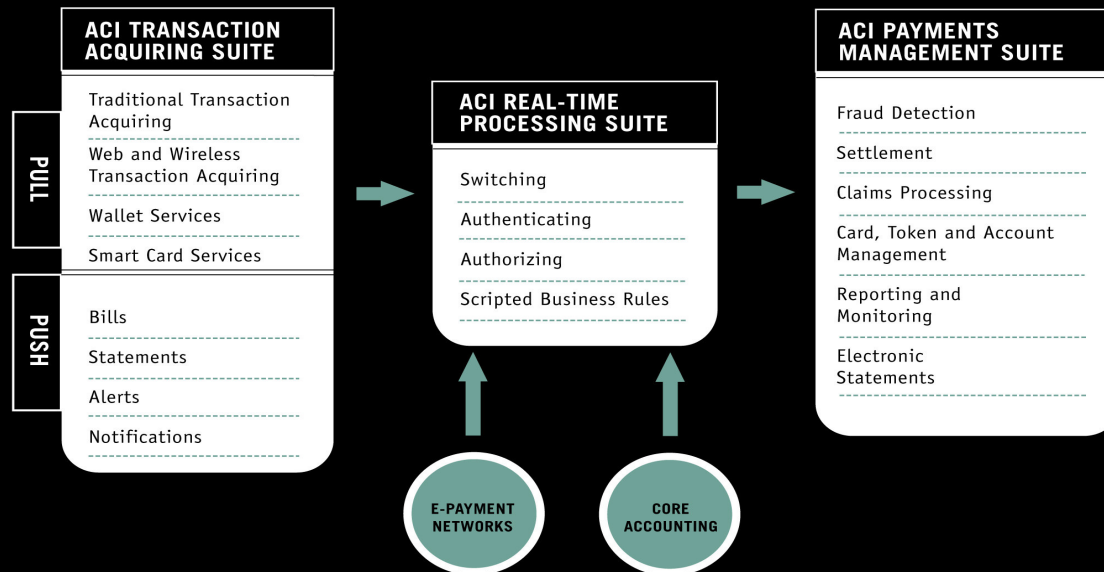
- Our U.S. customers processed over 3.5 billion ATM transactions last year
- Our UK customers processed over 6 billion ATM/POS transactions last year
- Our Australian customers processed over 2 billion ATM/POS transactions last year
- Our customers worldwide processed over 32 billion e-payment transactions last year
  - That's over **\$1,600,000,000,000 (\$1.6T)**
  - BTW: GDP of France, UK, CA are each all ~ **\$1.3T**

# Scope of Hybrid Potential

TRANSACTION  
ORIGINATION



## The ACI Commerce Framework



# Some key facts on LogicaCMG

- LogicaCMG ( £1.8B turnover)
  - Conducts more than half of the world's energy trades
  - Delivers 75% of the world's text messaging traffic
  - Has delivered more than 400 SAP implementations
  - Has 40 of the world's top 50 banks as clients
  - Transfers funds for 150 international banks
  - Provides regulatory software for 250 banks
  - Built the national payments infrastructures for 25 countries
  - Is the world's leading provider of managed training services
  - Processes 20m payslips per annum
  - Brings the weather worldwide to you and 2bn others



# LogicaCMG Agreement on Hybrid

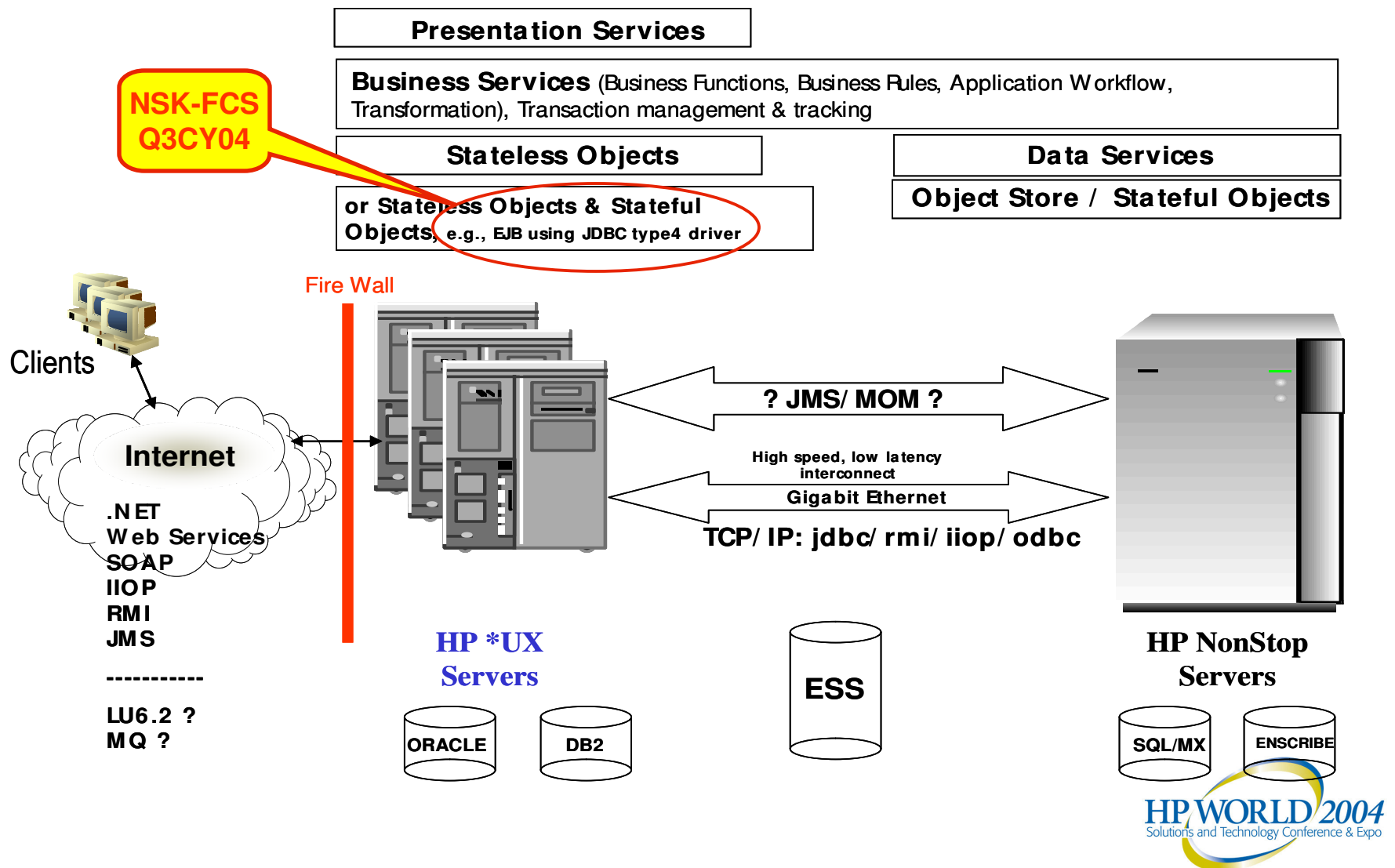
- Nick Caplan, Managing Director of Financial Services executive sponsor
- Full participation in outbound communications
  - Logica Payments Architecture (LPA) focus
  - Sales intelligence and collateral
  - HPS (FSI) joint planning meeting and alignment
    - MIRVA application replacement program
    - Billing Presentment program
    - Liquidity Management
- Proceeding with Hybrid for next generation Logica BESS application (wire transfer/wholesale payments)



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# Working Future Architecture



## Discussion

- Do you have an account where this solution set could win a project? If so, what is the essential characteristics?
- Is there a “big thing” missing?
- Do you know an ISV that is a good target, and could help us sell them?

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