

Managing an Enterprise of Enterprises:

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Qwest Internet Solutions Hosting



- From a ground-zero start-up as a computer reseller and systems integrator, through a couple of twists and turns along the way, QIS has managed to gain the respect and admiration of many industry watchers in building a top-tier Internet access and web hosting firm.
- In combining a solid system infrastructure and impressive network bandwidth with a strong services component, QIS has the analysts buzzing about its competitive advantage in the ISP market.

Business Problems Overview



- QIS' expanding market share is leading to a complicated IS environment
- QIS is expecting huge growth in the number of hosted systems which must be monitored and managed
- QIS is expanding into potentially thirty Cyber Centers which will require consistent methodology and technology for QIS to be successful
- QIS' current infrastructure management technologies will not easily scale to QIS' expected growth
- Considering the high market demand for talented IT professionals, it will be difficult to staff multiple data centers

Business Goals & Objectives



- Provide an integrated management infrastructure to help maintain QIS' solid reputation with customers while tracking high growth rates in the number of systems under management
- Provide the capability of offering multiple management tiers with differing levels of service as an additional source of revenue
- Establish a system and network management capability as a competitive differentiator
- Improve the effectiveness and productivity of the Operations staff

Why HP OpenView?

- Qwest/HP Alliance
 - Corporate Partnership
 - CyberCenter Support
 - Commitment to OpenView platform
 - Open integration with other vendors
 - Commitment to Qwest requirements
- Speed of Deployment
 - Typical HP OpenView Deployment
 - Enterprise deployment 10-12 months
 - QIS-Hosting deployment 8-10 months
- Scalability
 - Architecture, hardware and software support to scale to 30 data centers hosting over 450,000 systems
 - Highly redundant management systems



Project Success Factors

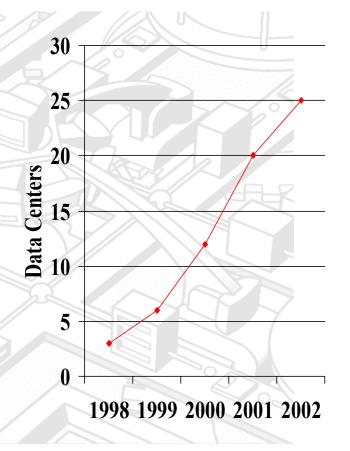


- Provide a successful service strategy that complements the existing expertise rather than replicate or displace it
- The QIS solution can not be implemented in a vacuum
- The QIS Infrastructure Management implementation must integrate into the overall IS strategy
- The NSM strategy will be a continuous evolution based on refining business, technical, and product requirements
- The application and infrastructure management tools must be compatible and highly integrated to ensure a successful enterprise-wide client-server environment

Manageability Requirements

- Cyber Center Growth
 - Up to 30 Cyber Centers
- System Growth
 - Projected 450,000 Nodes
 - OS Types Include: NT, Solaris, HP-UX, Linux, Windows2000
- Management Metrics
 - Network Availability & Event
 - Network Device: Cisco, Extreme
 - System Availability & Event
 - System Performance
 - Database: Oracle, Sybase, MS-SQL
 - Applications: Various
 - Web Server: Netscape, IIS, Apache
 - Firewall: CheckPoint-1



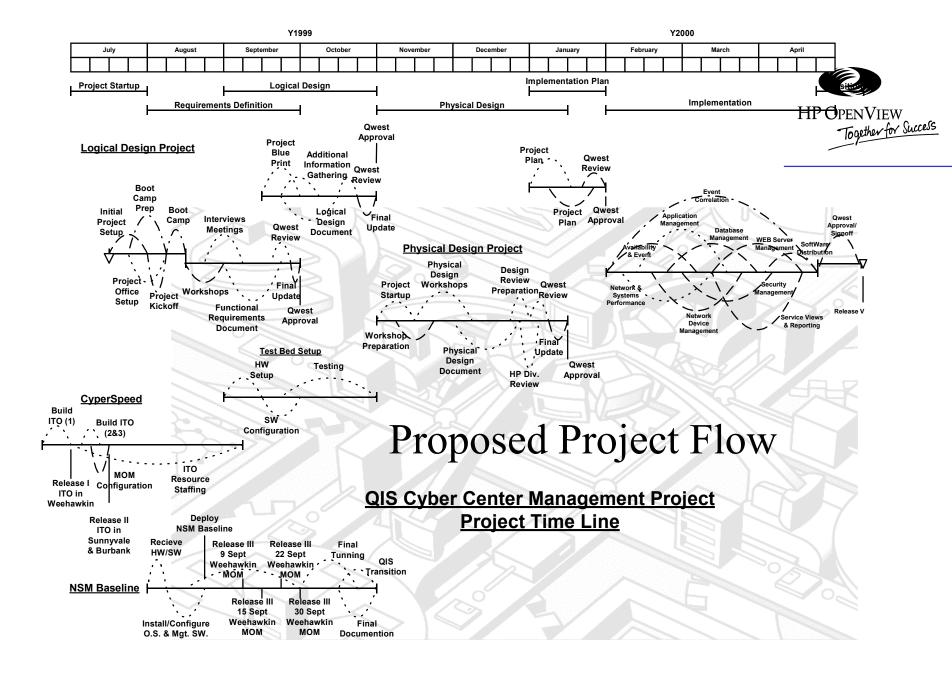


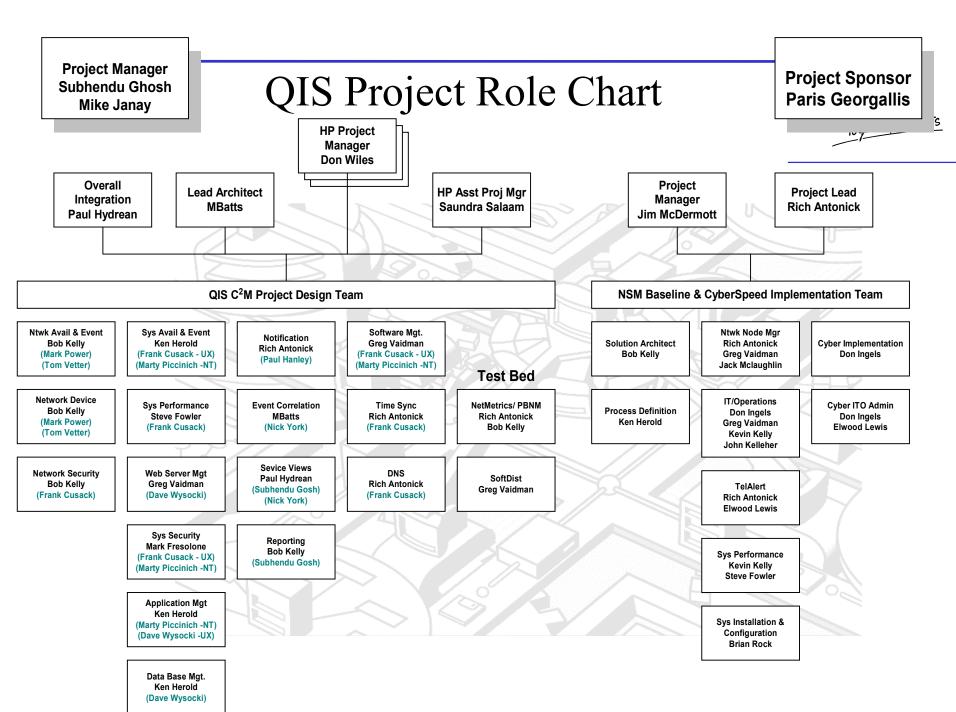
Other Management Areas



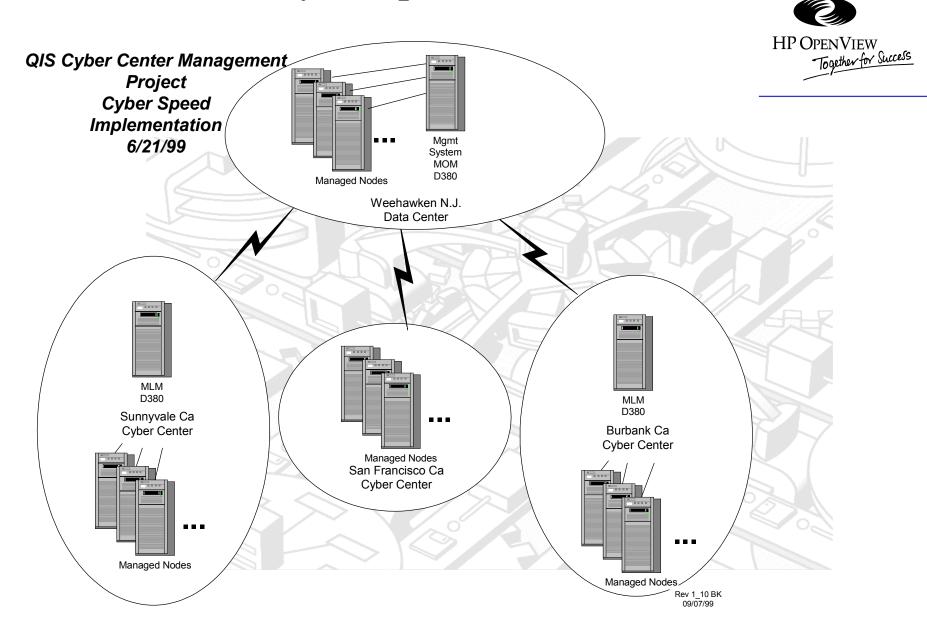
- Event Correlation
- Service Reporting
 - Internal Reporting
 - Product Management
 - Operations
 - Customer Reporting
 - Statistics
 - Status
- Service Views
- Notification
- Help Desk

Management Area	Design	Test Bed
Network Management		
Availability & Event Management	\checkmark	
Device Management	\checkmark	
Performance Management		\checkmark
Policy Based Network Management		\checkmark
Systems Management		
Availability & Event Management	V	
Systems, Database, & Application		
Performance Management		
Web Server Management	\checkmark	
Network & Systems Management		
External Notification	\checkmark	
Event Correlation		
Service Views	V	j
Security	N	
Reporting	\checkmark	
Systems Administration		
User Management/Resource Access		\checkmark
Software Distribution	- P -	

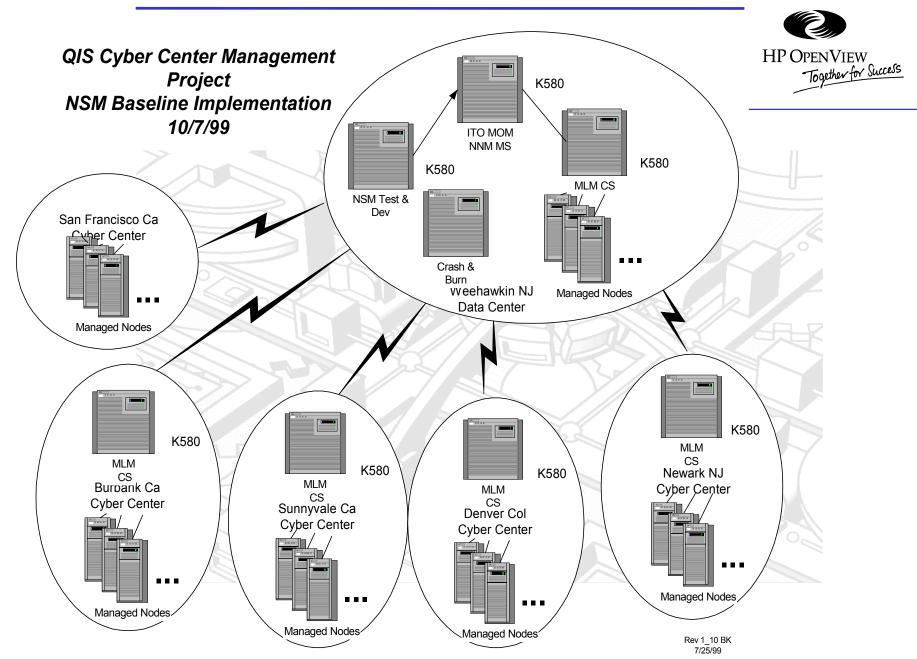




Initial Plan: CyberSpeed



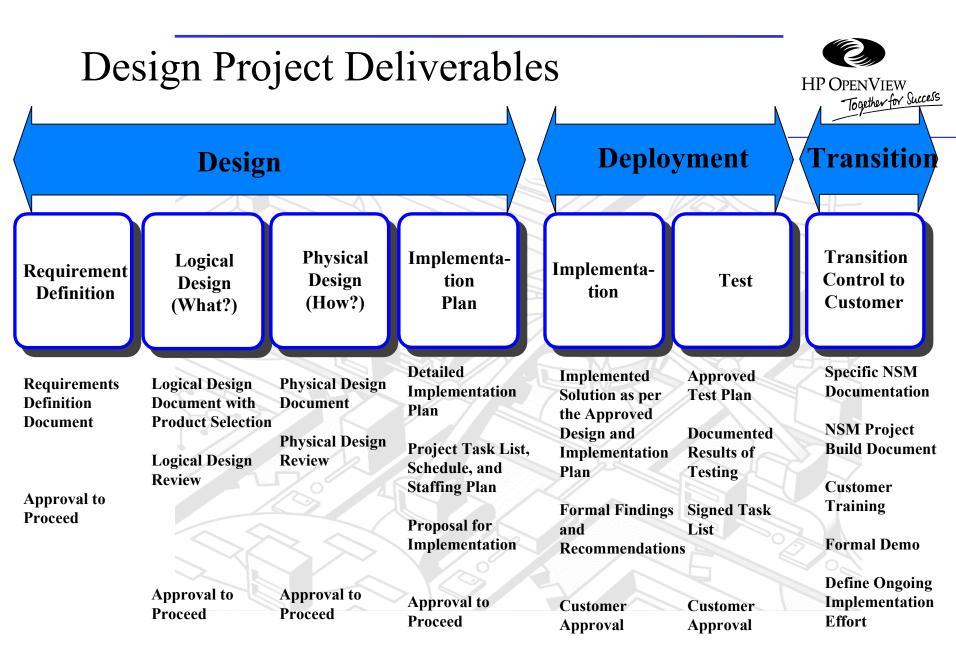
Rapid Deployment: NSM Baseline



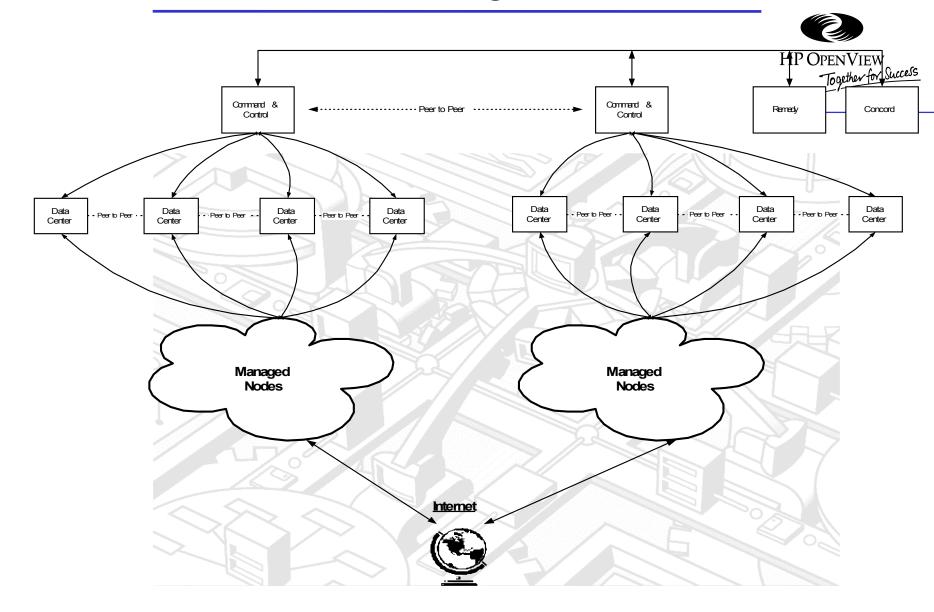


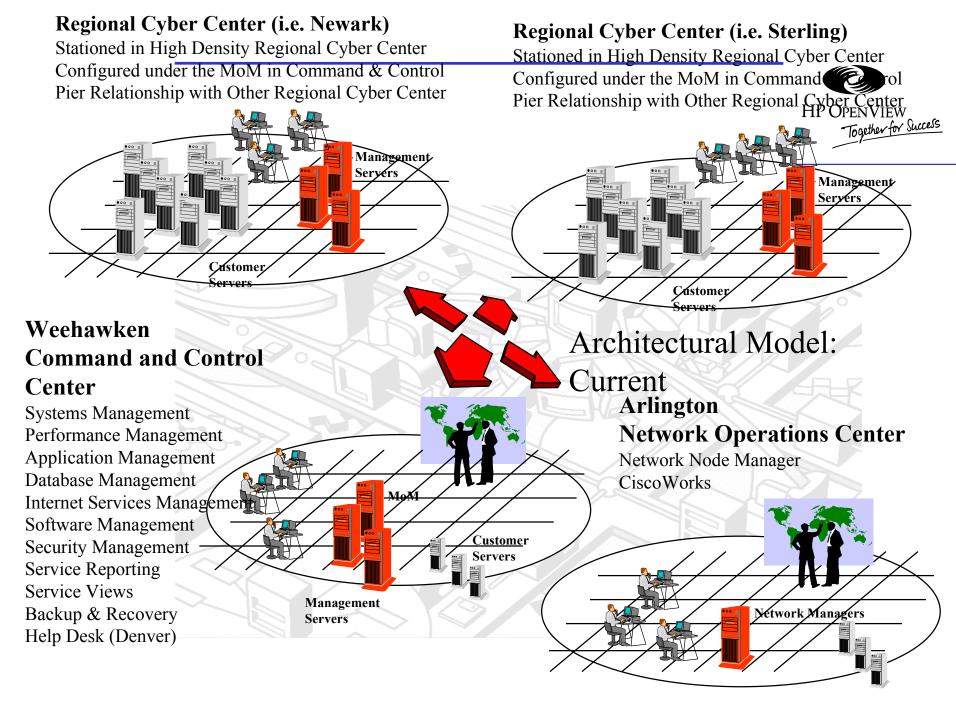
Design Project Methodology

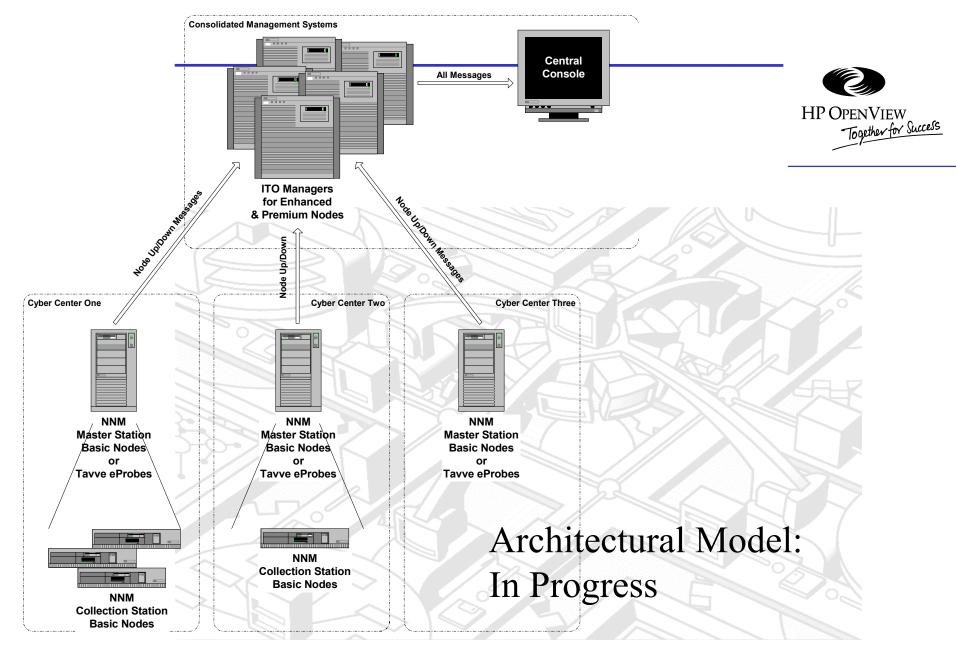
- Design Phase
 - Requirements Definition
 - Logical Design
 - Physical Design
 - Implementation Plan w/Project Schedule
- Deployment Phase
 - Implementation
 - Test
- Transition Phase
 - Training
 - Go Live

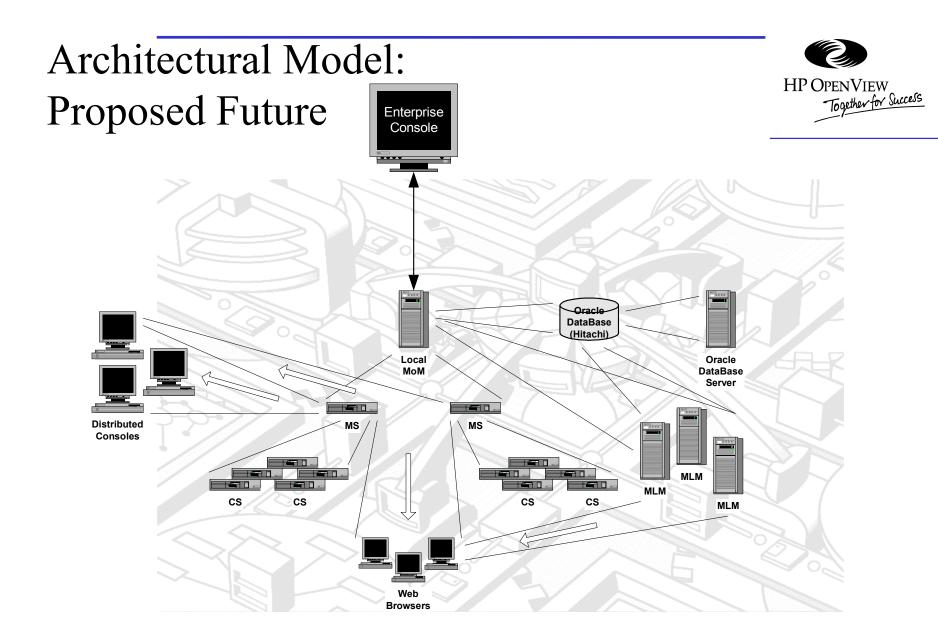


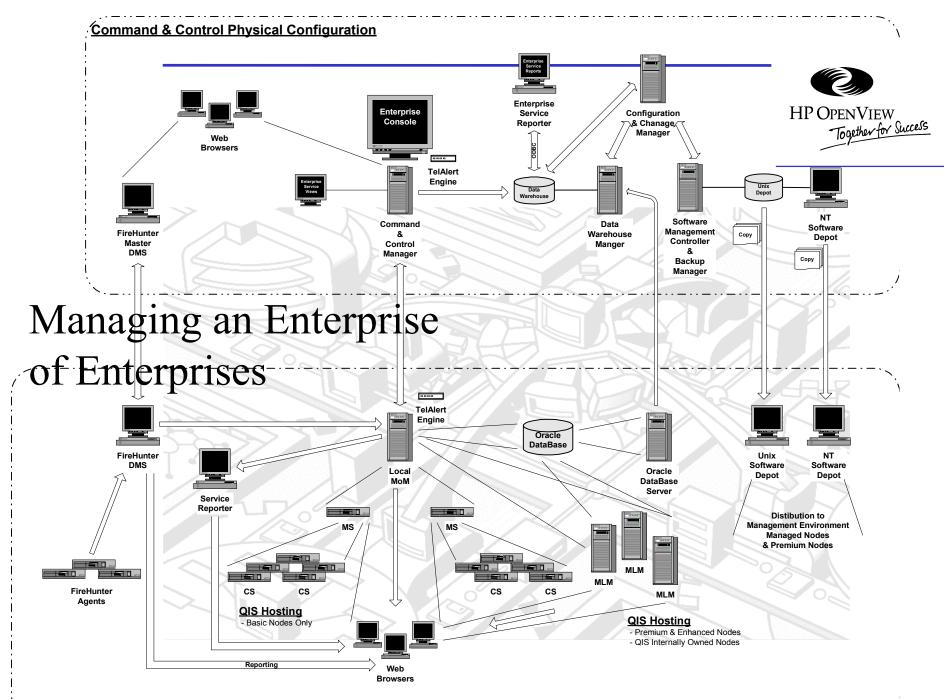
Architectural Model: Original











Individual Cyber Center Physical Configuration/

Thanks for Attending



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Melillo Consulting, Incorporated HP OpenView Platinum Level Partner http://www.mjm.com