Planning a technology transition, Tru64 UNIX to HP-UX: tips, tools and methodologies

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interex March, 2004

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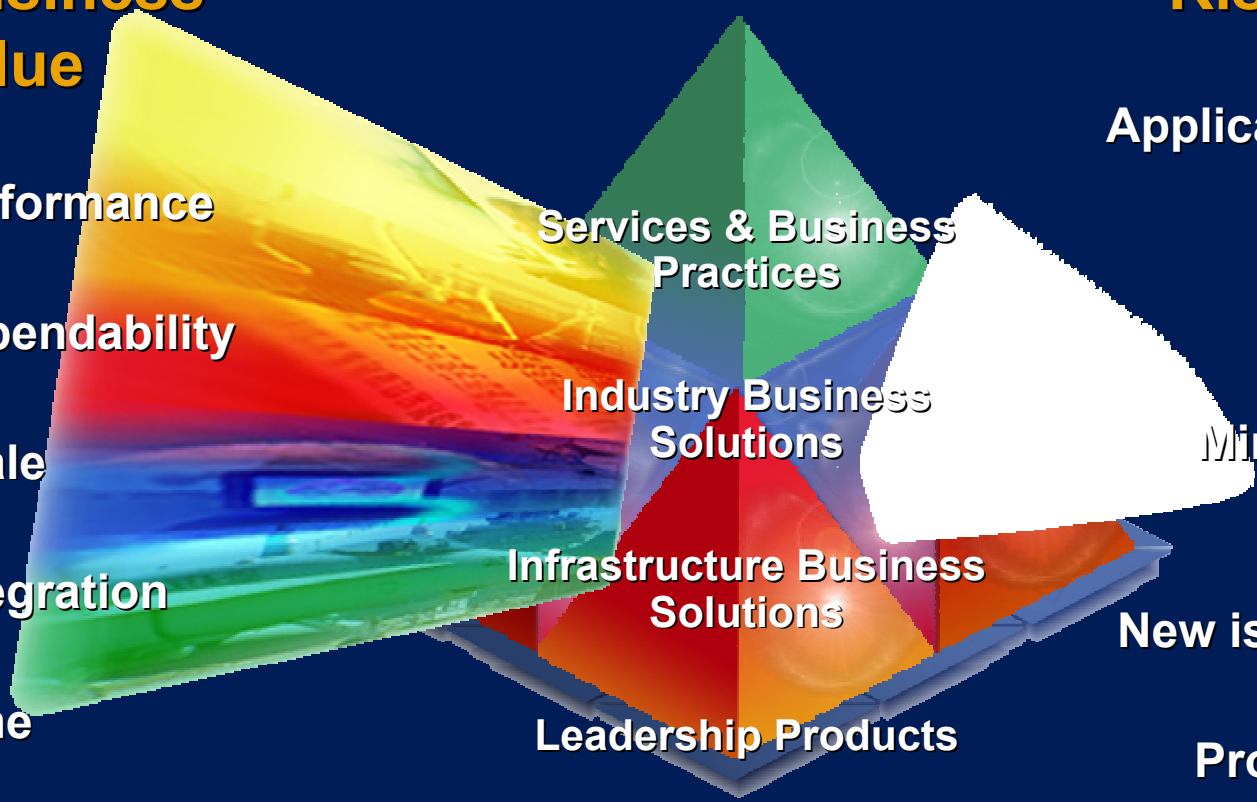
Topics for today's presentation

- Intro to Alpha RetainTrust Program
- What transition?
  - Tru64 UNIX®/AlphaServer road map
  - Goals
- Transition planning
  - Approach
  - Framework
    - Customer activities
    - Complementary HP offerings
  - Transition packages & modules
- Targeted customer ecosystem
  - Platform
  - Database
  - Custom code
  - Packaged (ISV) applications
- Resources

The Alpha RetainTrust program business value through evolution

Business value

- Performance
- Dependability
- Scale
- Integration
- Time



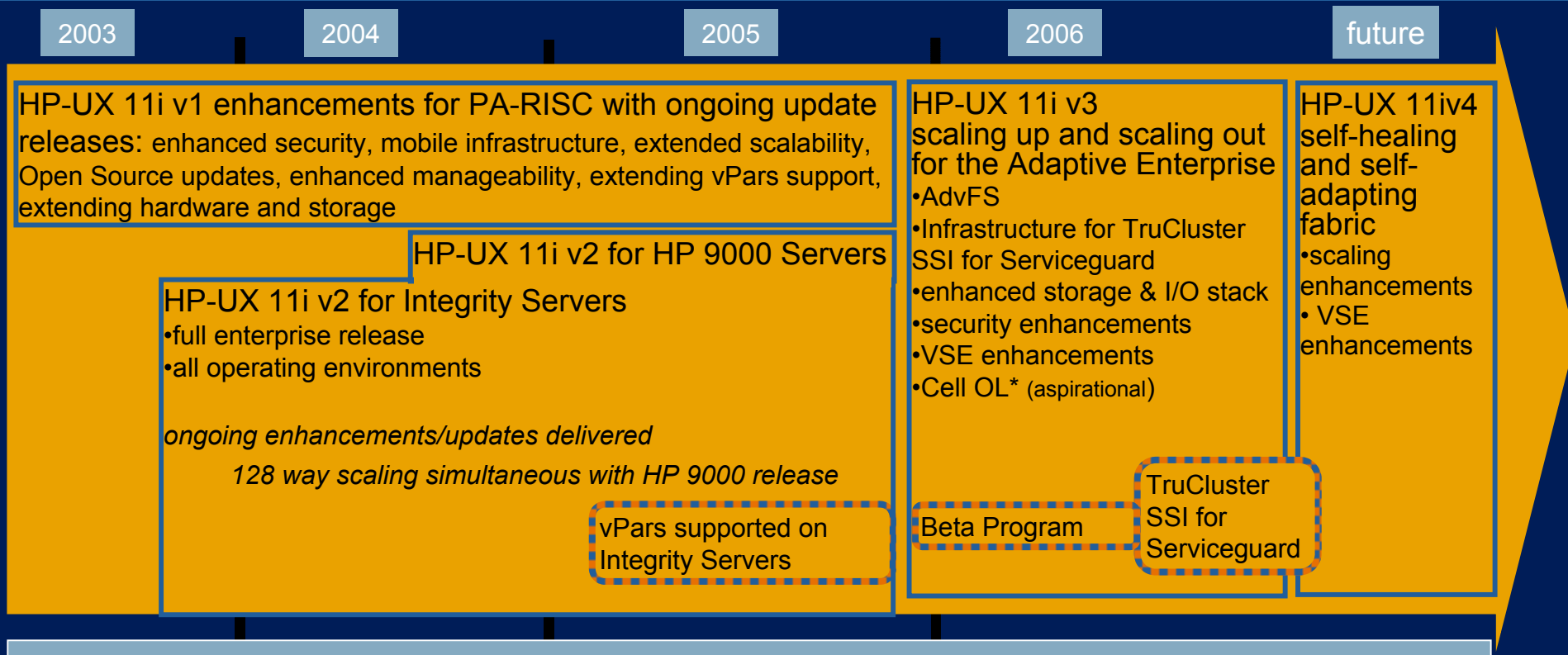
Risk mitigation

- Application availability
- No unplanned downtime
- Minimize impact to support staff
- New is superset of old
- Prove commitment and no forced transition

Alpha RetainTrust program business benefits

- HP's commitment to pre-merger product roadmaps, ensuring long-term sales and support
- ISV enthusiasm about the transition to the Itanium® architecture while continuing to support the AlphaServer platform
- Investment in transition tools, services and programs
- Transition to the Itanium architecture on your timetable
- Continued delivery of the capabilities and solutions on which you depend

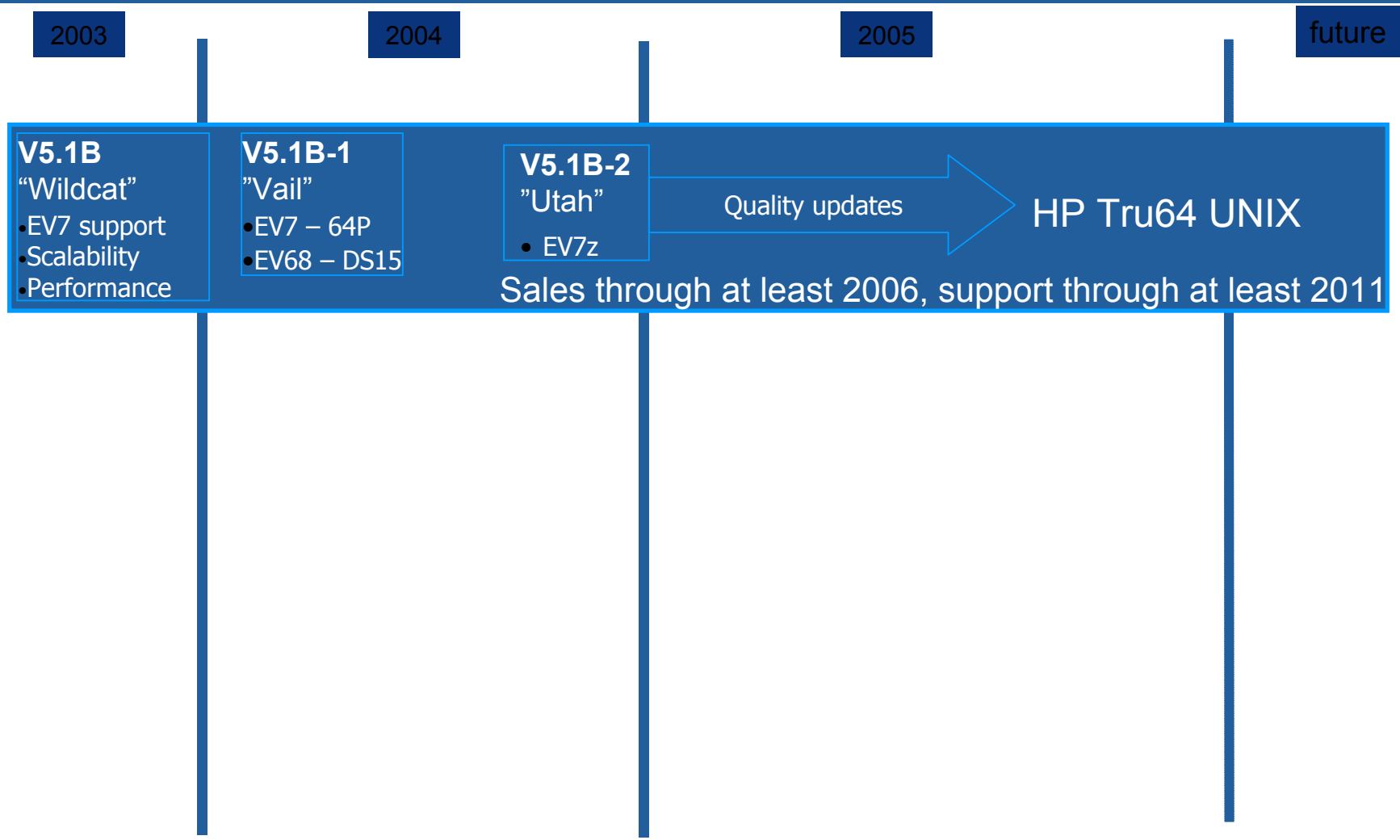
HP-UX 11i Roadmap:
The UNIX® Foundation of the Adaptive Enterprise



HP-UX 11i v2 on Integrity full ecosystem accelerated making it the version of choice
- **preserves and builds on HP-UX 11i v2 ISV momentum**
- **accelerated vPars availability**
- **accelerated common release for PA-RISC based HP 9000 and Itanium®-2 based Integrity servers**

HP-UX 11i v3 will advance leadership in scale-up and scale-out
- **HP remaining committed to Tru64 UNIX customers bringing best technology from Tru64 UNIX into HP-UX & Serviceguard (AdvFS and TruCluster Single System Image)**

HP UNIX® operating system roadmap
HP Tru64 UNIX



Customer value: investment protection and a better HP-UX

Your goals – what you have been telling us

What you have told us you would like to see in a transition

- Preserve integrity of solutions architecture
- Deliver value with
  - Exploit op ties for clean-up
  - Us on to re-align with futu usiness needs

add end value

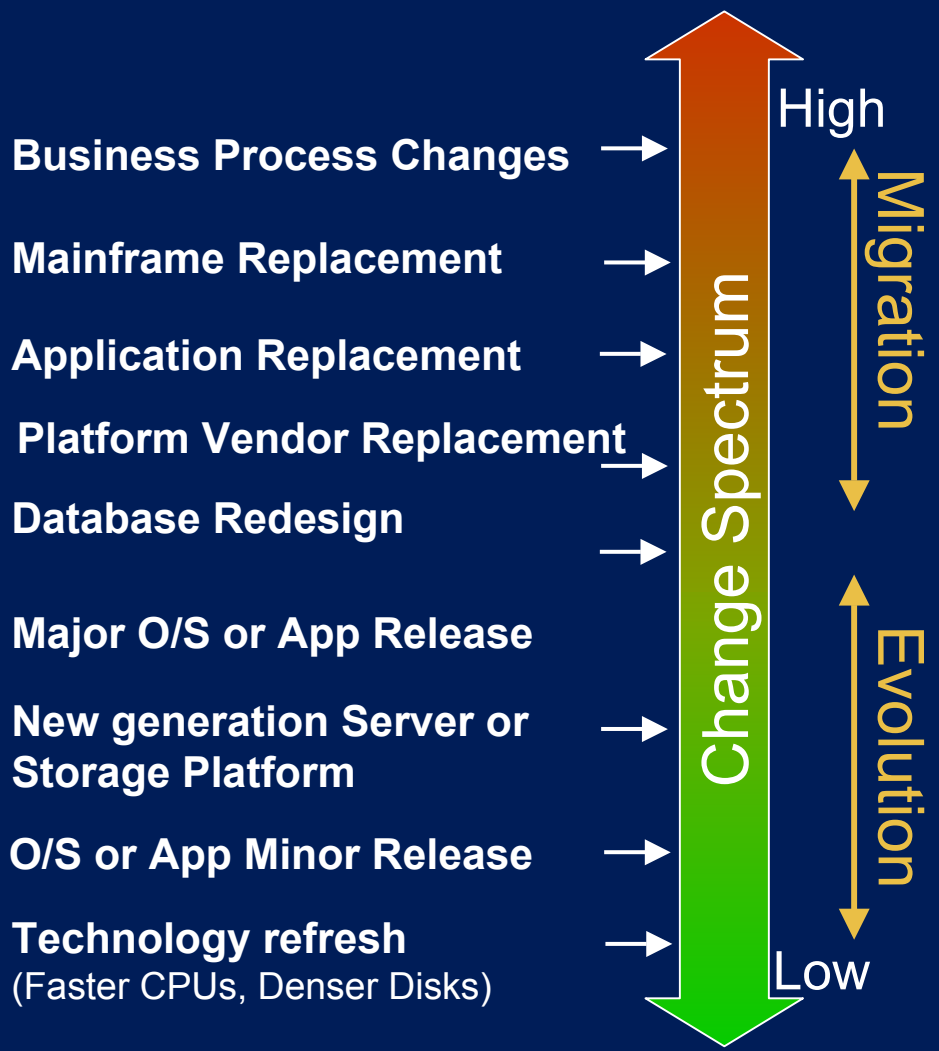
- Minimize disruptions
  - Continued business cri operation during tr
- Minimize increp ds on staff
  - Se ntial
- I tection

minimal IT team resource impact

- No surprises during tr on lifecycle
  - Careful pl s paramount
- You de ing of transition.
  - ition aligned with business metable & other customer planned changes

low operational risk

Transitions & technology driven change



- Not all change is equal
- HP offers the best alternatives for preserving our customer's solution architecture while extracting incremental value
- HP Tru64 UNIX® and AlphaServer roadmaps provide great flexibility to align transition plans with our customer's own business timetable

When to migrate?

- The Tru64 UNIX® / Alpha product roadmap gives you flexibility.
- Migrate when it fits your business needs/when it provides a compelling business value.

Migration scenarios

- **Early adopter**: HP-UX 11i v2 on Itanium®
  - HP-UX business critical UNIX® features on an Itanium® Platform
  - Starting CY'03+, driven by solutions availability
  - Candidates: systems or system elements without strong dependence on Tru64-unique features
- **Conservative path:** HP-UX 11i v3 on Itanium®
  - Key Tru64 UNIX®-unique features incorporated into HP-UX
  - Starting H2'05+
  - Candidates: databases, systems with large AdvFS filesystems, other TruCluster dependencies
- **Today:** HP-UX 11i on PA-RISC
  - Rich application portfolio today
  - Straight-forward future Itanium® migration, including selective in-cab Itanium® server upgrades
  - Candidates: new systems, major solutions upgrades, customers concerned with Tru64 application availability
- **Staying with Alpha**
  - Timeframe: through 2011--
  - Systems with stabilizing functional requirements
  - Systems where mission lifetime fits comfortably with Tru64 UNIX® upgrade and support window

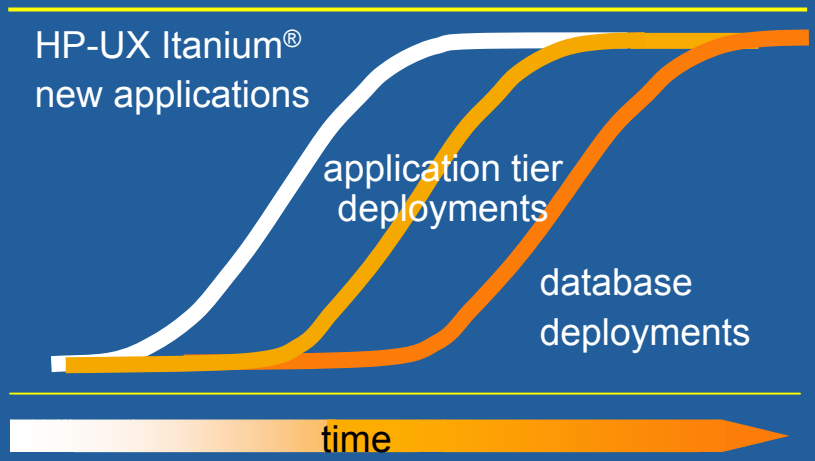
So, once you decide it is time to migrate

Why migrate with HP?

- Best enterprise UNIX
  - Industry's best enterprise UNIX
  - Broad application portfolio
  - TruCluster features best preserve customer's solution architecture
- Itanium® 2 platform
  - Exploits industry standard dynamics & economics
  - Universal Platform: UNIX®, Windows® Server Linux and OpenVMS (8.2
- Evolutionary migration options supported by a single vendor
- We understand the unique needs of Tru64 UNIX® / AlphaServer users better than anyone else.
- We're investing in transition – to minimize risk and cost to you.
- Adaptive Enterprise capabilities such as VSE provides compelling value to current and future environments

Transition timeline

start time determined by customer / application environment



elapsed time determined by customer / application environment

Seamless interoperability and integration in existing environment

Facilitate customers ability to take advantage of Itanium®-based technology in their current solution environments

1st wave: new deployments on HP-UX Itanium

- Early exploitation to avoid transition
- New applications
- Existing applications redeployed on Itanium-based systems
- Interoperability features

2nd wave: applications tier deployments

- Working with ISVs on application roll-out
- Take advantage of “platform independent” applications tier and implement HP-UX Itanium platform without business disruption
- Experience the reliability and ‘ease of management’ of the HP-UX Itanium platform

3rd wave: database tier deployments

- Use optimized DB migration process/practice and business terms
- Development of tools and services to enable a transition that is non-disruptive to customer business operations

Model for transition planning: awareness-planning-designing-implementing-managing (APDIM)

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The approach

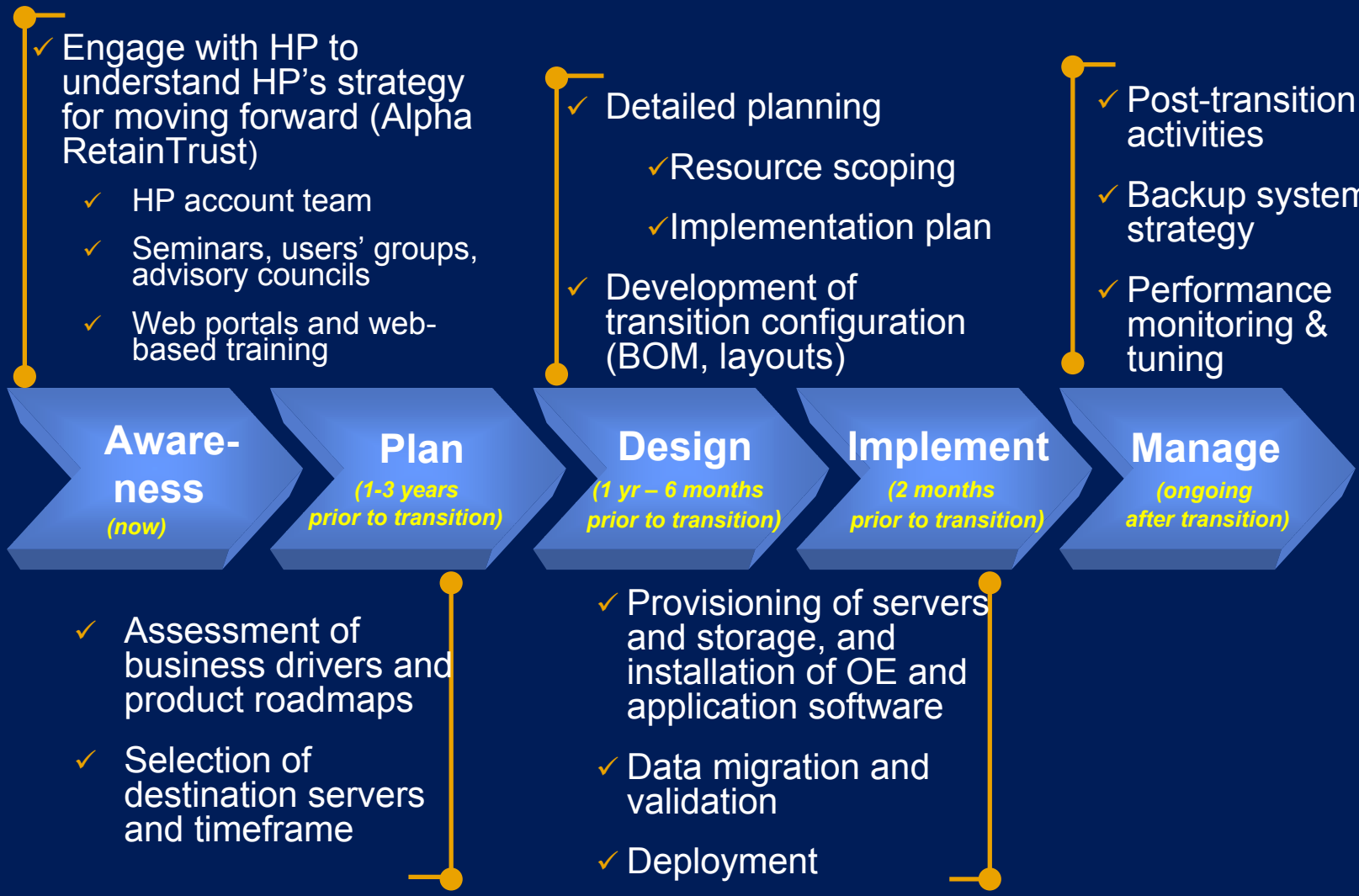
- You:
  - Determines business needs
  - Defines optimal IT strategy
  - Identifies best timeframe
- HP Transition Engineering & Consulting – focused Team at HP
  - Developing a comprehensive set of tools and services
  - Addressing the transition in its entirety
- Considerations
  - Special consideration to current business conditions
  - Risk mitigation and cost containment are key
  - Maintaining focus on continuous operation throughout stages of transition.

The framework

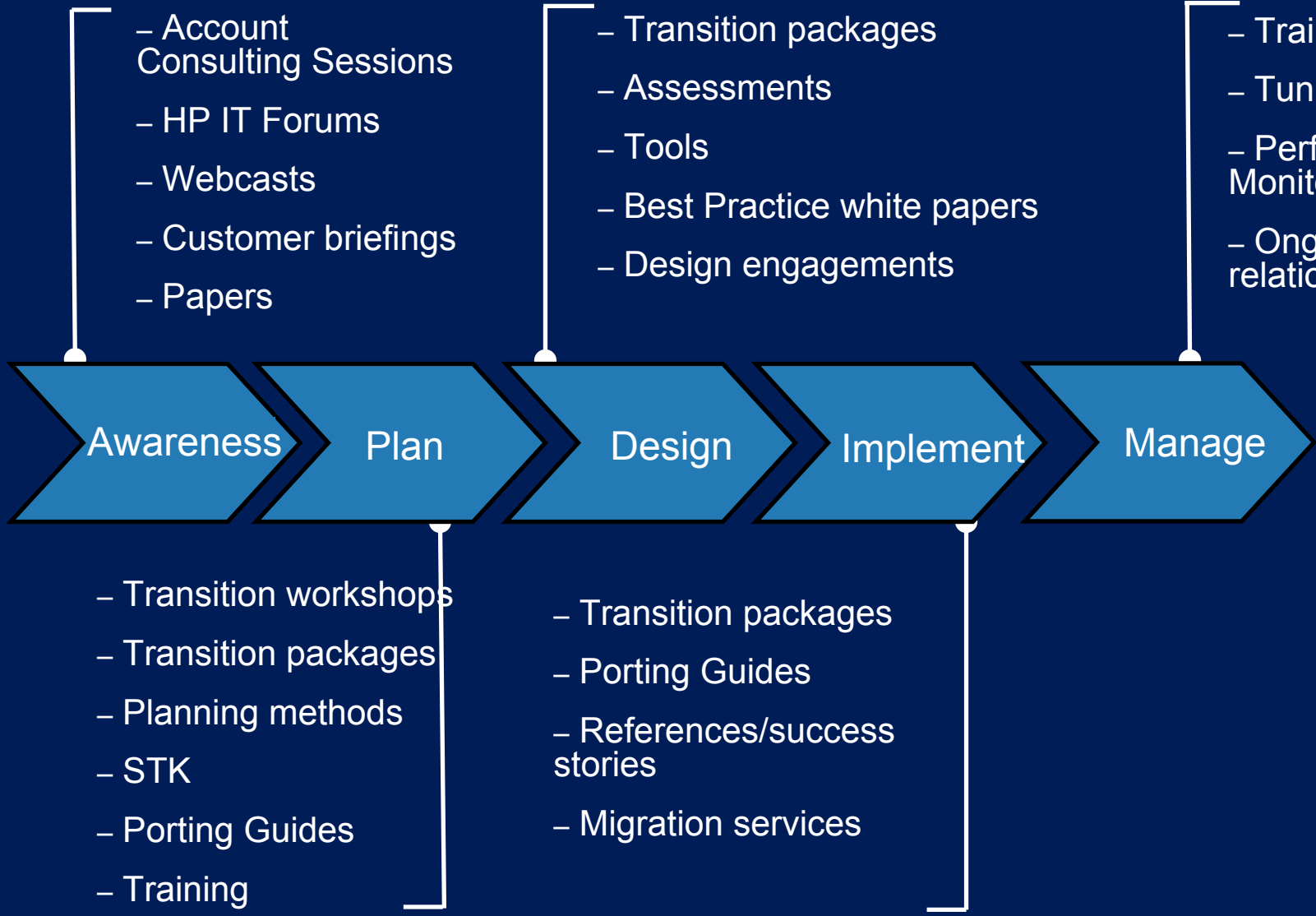
- Breaking down the phases of the transition task:
  - Awareness
  - Planning
  - Designing
  - Implementing
  - Managing

- Provides a comprehensive way of looking at transition focused on an end-to-end solution

Transition lifecycle: a systematic approach: Customer Activities

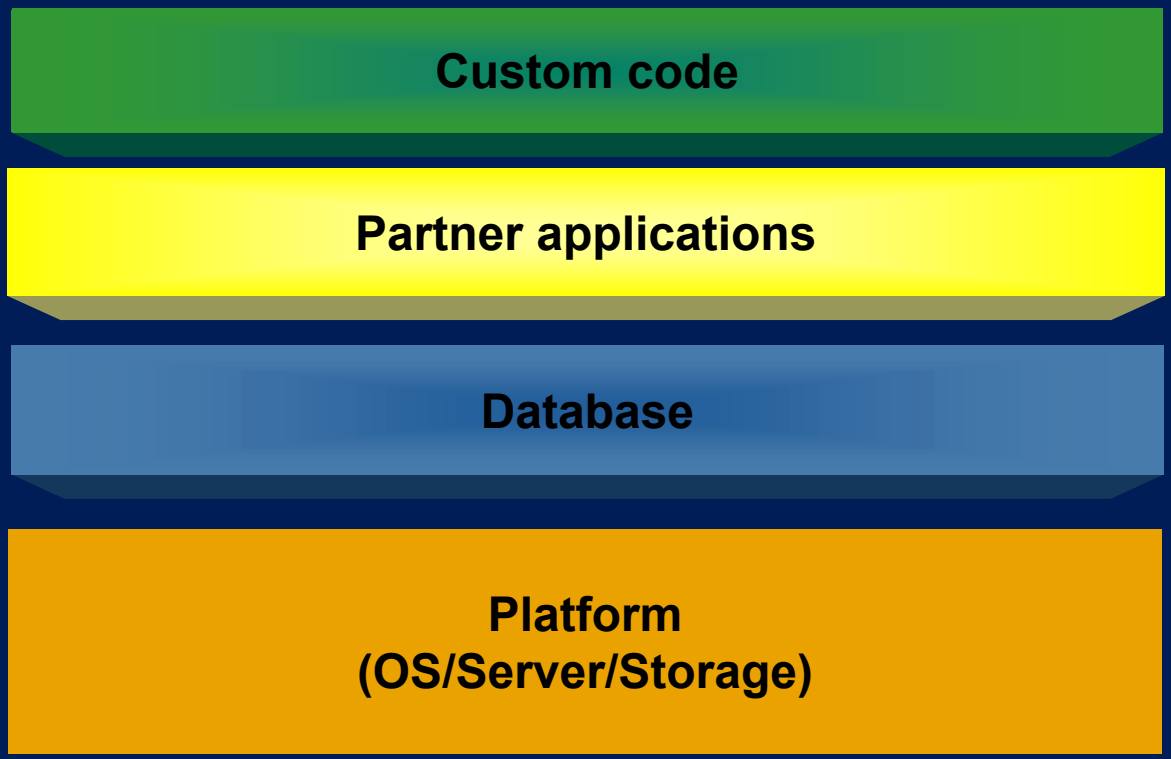


Alpha RetainTrust services and resources - available at each stage of lifecycle



Customer ecosystems to be addressed

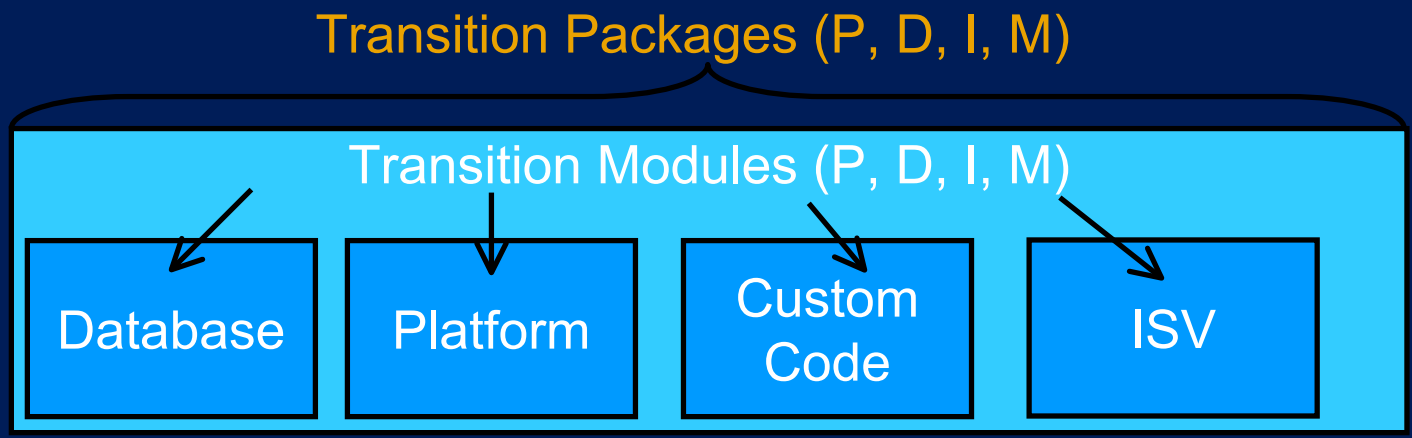
Possible layers in solution stack



- Solution defined by modular components working together across a stack
- Targeted to different user communities
  - Database for DBA management
  - Platform for IT management
  - Custom code solutions for application developers
  - Partner application for business/IT management

Transition Packages: Applying PDIM to the Migration Process

- What is a Transition Module?
  - Packaging of collateral
    - advice, white papers, porting guides, best practices, s/w tools, etc.
  - Mapped to a specific transition activity



Transition packages: applying PDIM to the Migration Portfolio – and creating customer deliverables

What is a transition package?

A packaging of collateral such as white papers, porting guides, best practices, s/w tools, advice etc., focused on a specific transition phase. Transition packages consist of one or more Transition modules pertaining to a given transition phase and mapped to a specific transition activity.

What is a Transition module?:

These are the specific sets of material pertaining to a given phase within a transition suite. For example, there will be a database module for Oracle in the transition planning package.

Example: Tru64 UNIX to HP-UX transition planning package

- Database module for Oracle
- Custom code module
- Platform module
- Packaged (ISV) application module

What you can expect from a transition planning package

- Ability to assess the impact of a topic on your particular environment.
- Ability to create a customized list of items that may warrant further investigation.
- Utilize the customized list for more detailed planning or design of your migration.
- Links to usage of set of transition modules for design

Benefits of the Transition packages and framework

For you:

- Provides a staged approach, with heavy emphasis on up-front planning to mitigate risk
- Provides you with a framework for how to approach your transition planning.

For HP:

- Provides a comprehensive way of looking at the task.
  - Helps to identify areas needing focus.
- Provides an end-to-end solution focus so HP can provide a more complete solution for you!

Taking a detailed look at the key transition areas of:

- Platform
- Database
- Custom code
- Packaged applications

and HP's engineering efforts to address your transition.

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Platform transition

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Considerations for platform transition

- Considers the general question of “How do I get from here to there?” … from a base system perspective…
  - How do I map my current Alpha system into the current/future Itanium®-based systems?
  - What storage subsystems are supported on Itanium®?
    - Can I utilize my current storage on this new platform?
  - What are the differences operationally?
    - System administration tasks
    - Backups
    - User environment differences – user interfaces

Addressing the considerations of platform transition

- System hardware
  - Provisioning tool/guide that maps system across performance, price, capacity, I/O
- Operating systems
  - Release and support road maps
- Storage
  - Tru64 UNIX® and HP-UX will co-exist on common SAN infrastructure as part of heterogeneous datacenter
  - Support for StorageWorks arrays on both Tru64 UNIX® and HP-UX
  - Parallel SCSI-based direct-attached storage technologies will not directly migrate
  - Data migration, storage consolidation, backup and SAN implementation services are offered
- System administration staff
  - Minimize the time for experienced Tru64 UNIX administrators to becoming productive on an HP-UX system
  - Minimize the operational complexity of transferring selected sysman functions from tru64 UNIX to HP-UX

HP AlphaServer evolution

GS80
GS160
GS320

GS1280
8p, 16p

GS1280
32p

GS1280
64p

CPU: EV7 1.15GHz
Type: new-box
OS: HP Tru64 UNIX, HP OpenVMS

CPU: EV7z
Type: in-box
OS: HP Tru64 UNIX, HP OpenVMS

Superdome

CPU: Itanium next gen.
Type: new box
OS: OpenVMS
HP-UX 11i v3
Linux
.NET

rx86xx

CPU: Itanium next gen.
Type: new box
OS: OpenVMS
HP-UX 11i v3
Linux
.NET

ES45

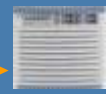
ES47

ES80

CPU: EV7 1GHz
Type: new-box
OS: Tru64 UNIX, OpenVMS

CPU: EV7 1GHz
Type: new-box
OS: Tru64 UNIX, OpenVMS

CPU: EV7z
Type: in-box
OS: Tru64 UNIX, OpenVMS



rx76xx

rx56xx

CPU: Itanium next gen.
Type: new box
OS: OpenVMS
HP-UX 11i v3
Linux
.NET

DS10,
DS10L
DS20E
DS20L
DS25

DS15

CPU: EV68 1GHz
Type: new-box
OS: Tru64 UNIX, OpenVMS

rx2600

CPU: Itanium next gen.
Type: new box
OS: OpenVMS, Linux
HP-UX 11i v2, .NET

CPU: Itanium next gen.
Type: in-box
OS: OpenVMS
HP-UX 11i v3
Linux
.NET

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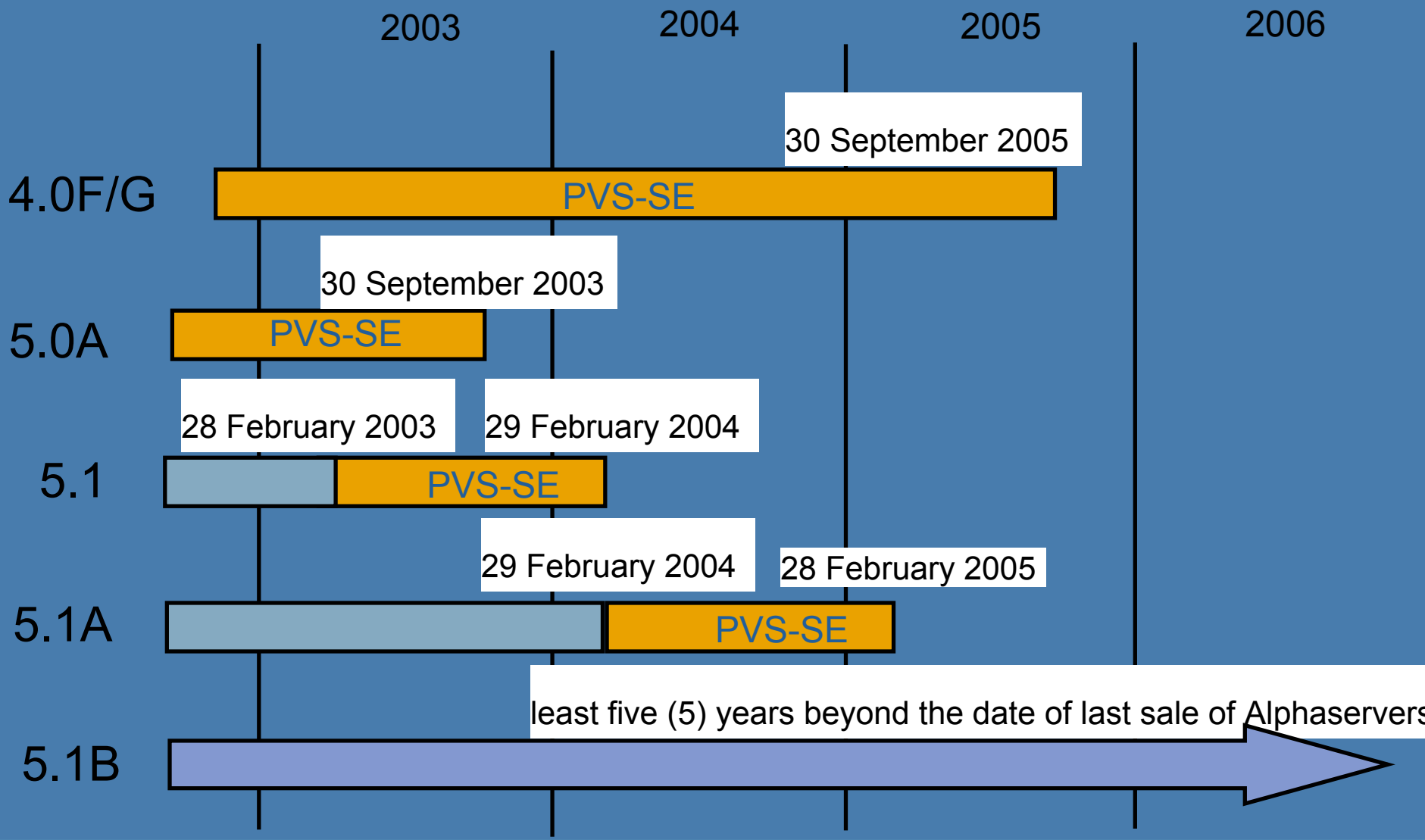
Tru64 UNIX O/S support windows



HP Tru64 UNIX® HP-UX storage co-existence

Tru64 UNIX® and HP-UX to co-exist on common SAN infrastructure as part of heterogeneous datacenter

- Common SAN Fabric
- Common Data Management Software
- Common Tape Libraries

Support for StorageWorks arrays on both Tru64 UNIX® and HP-UX

- StorageWorks EVA
- StorageWorks XP
- Storage Works MSA1000 (2H 2004)

Support for HSG80 arrays on HP-UX on the Itanium processor family

Parallel SCSI-based direct-attached storage technologies will not directly migrate

- HSZ40/50/70/80
- JBOD SCSI Storage
- Backplane RAID

Data migration, storage consolidation, backup and SAN implementation services are offered

Platform Planning Module – Wave 1 (December 2003)

- Planning Assessment Documents
  - File System Transition
  - Storage Transition
  - Archival Tapes (Legato & Veritas)
  - Endian differences
  - Clustering Considerations
  - Tape Hardware
  - System Administration
- Supporting Documentation & Training
  - Tru64 UNIX ® Transition training
  - Plus more ….
- Transition Tools
  - Tru64 UNIX ® Migration Environment for HP-UX v1.0
  - Plus more ….

Database transition

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A word about database migrations…

- This isn't new!!!
- HP has successfully migrated large databases from Tru64 UNIX® to HP-UX in the past
  - We used to be competitors …
- None of the leading database vendors support direct movement of binary data between different O/S
  - Tools and services exist today to migrate customers
- Opportunity exists to "value add" to current offerings for our customers
- HP is investing in developing and verifying techniques that will help you successfully migrate your Oracle® database from Tru64 UNIX® to HP- UX.

Database migration 101

- Database migration typically involves:
  - Provisioning new (target) database server
  - Transfer of database layout, schemas, triggers, stored procedures
  - Bulk transfer of data tables
  - Build indices
  - Optionally: application of recent updates if bulk transfer based on point-in-time copy
  - Optionally: support side-by-side operation during trial period

Database migration scenarios

Smaller, less critical database

Larger, mission critical database

Snap-shot permits production database to remain on-line during bulk data transfer

Database migration – engineering optimized solutions

- Development of optimized processes focused on selected vendors and targeted customer scenarios
  - Based upon intimate knowledge of the from and to states
- Remove the ‘rocket-science’ element
  - Predictable
  - Repeatable
  - Scalable
  - Documented
- Customer results
  - More efficient and cost-effective database migration
  - Some customers can be self migrating

Sample content for the database module for Oracle

- Overview
- Planning Assessment materials– navigating through this part of the process, including topics such as:
  - How and when to migrate
  - Review current procedures and processes
  - Review business and technical reasons for timing
  - Risk mitigation
  - Migration tools from Oracle (and others)
- Supporting documentation
  - White Paper – “Oracle Database Migration – Tru64 UNIX to hp-ux”
  - Case study
- Transition tools
  - Database Migration Planning Assistant Tool

Custom code transition

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Goals for Custom Code

- Enable you to transition from Tru64 UNIX® to HP-UX with minimal disruption
- By reusing to the greatest extent possible existing solutions
  - Software
  - Procedures
  - Data
- And personnel/knowledge
  - Software developers
  - Users
  - System administrators

Custom code scenarios

- Platform independent
  - Examples: Java, Oracle PL/SQL, SAP Adabas
  - Magnitude of migration effort is primarily sensitive to application level version changes
- Platform dependent
  - UNIX standards compliant
    - Code easily ports/just runs
    - Emphasis on migration of development environment
      - Shells, make dialects and so forth
      - Training
  - Non-portable/platform specific
    - Requires deeper analysis of specific platform feature usage

Standards conformance and custom code migration

- Tru64 UNIX and HP-UX are more common than they are different
  - Tru64 UNIX and HP-UX conform to the same major industry standards (POSIX, X/Open, UNIX 95, FIPS, LP64)
  - Each is compatible with and/or uses major components from the two main UNIX variants, BSD and UNIX System V.

- Due to these common features, application migration sometimes involves recompile and run.
  - For applications designed and developed with portability as a goal
    - Strict adherence to standards
    - “Well behaved” applications: no kernel intrusive functions, documented interfaces only, etc.

Platform-dependent applications

- Provide planning and code analysis tools
  - Migration Assistant:
    - Identify the “it’s different” items that need to be addressed in migration of code
    - Determine resulting migration effort
- Significantly reduce the effort to move applications and their environments from Tru64 UNIX® to HP-UX.
  - Provide Migration Environment on HP-UX
- Enable Tru64 UNIX® applications to evolve into HP-UX native applications.
  - Inclusion of Tru64 UNIX® features into core HP-UX where significant functional differences exist
  - Compatibility aides permit an evolutionary process

Tru64 UNIX to HP-UX application software transition aids

Migration Assistant

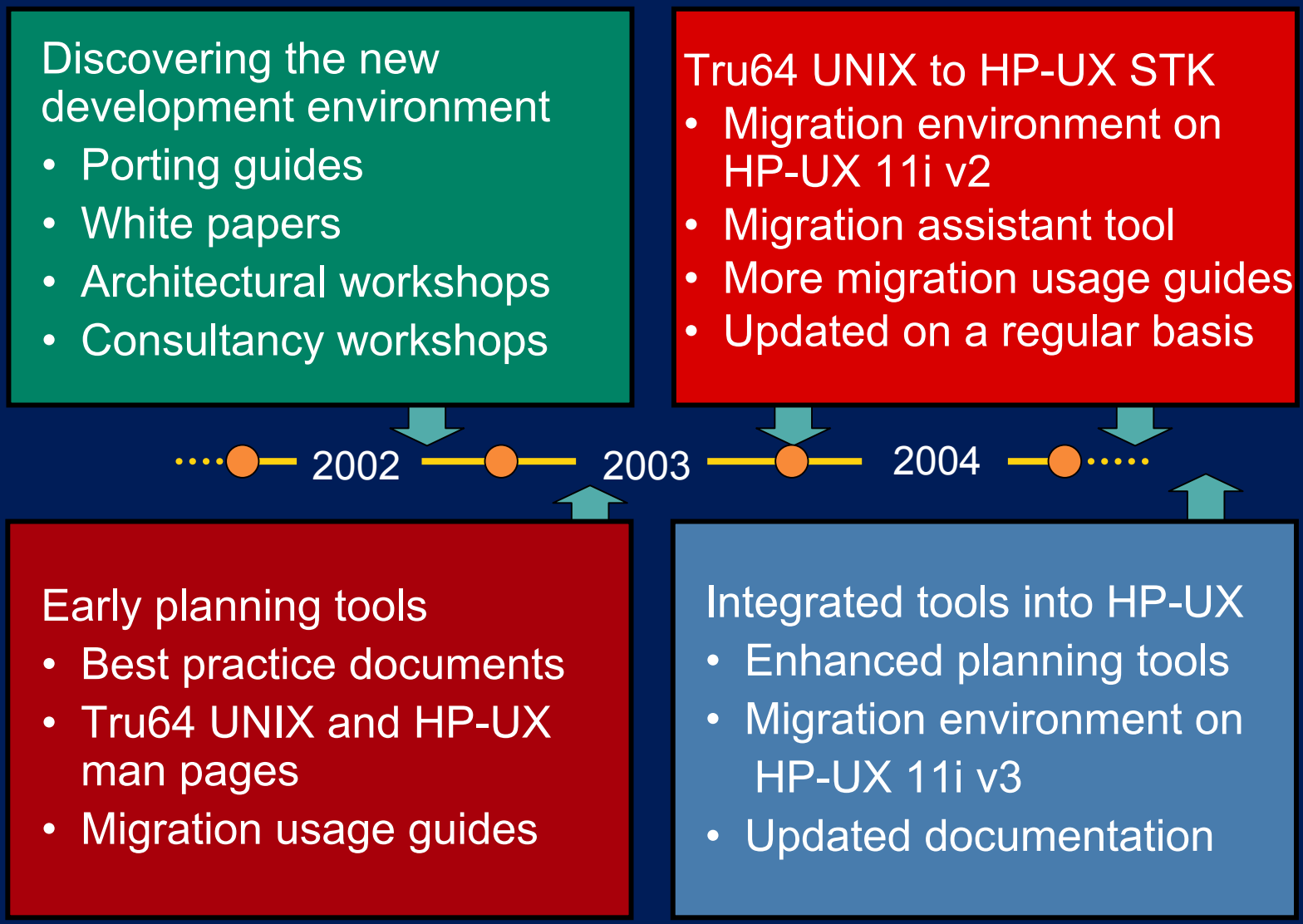
- Based on HP-UX *filescanner* tool included in Software Transition Kit
- Scans source files
  - C, C++, Fortran
  - makefiles
  - shell scripts
- Produces HTML report identifying issues to be resolved and guidance on how to resolve them

Tru64 UNIX to HP-UX application software transition aids

Migration Environment

- Software compatibility layer on HP-UX includes select Tru64 UNIX components:
  - APIs
    - most critical and frequently used libraries
    - libraries that most customers will be dependent on
    - examples: libc, libm, CXML etc.
    - New in April kit: setenv(), unsetenv()
  - Development tools
    - compiler compatibility: makefiles, compiler switches, dialect
    - New in April kit: significant enhancements to C, C++ and Linker dirvers
  - Commands and utilities
    - most critical to users' existing scripts (ie shells)

HP Tru64 UNIX application transition roadmap



Transition Custom Code Planning Module – Wave 1 (December 2003)

Planning Assessment Documents

- Porting Overview
- Application Code
  - Threads
  - Tool differences
  - API considerations
  - Development environment considerations
  - Operating System Differences

Transition Custom Code Planning Module – Wave 1 (December 2003)

Supporting Documentation & Training

- Tru64 UNIX ® to HP-UX 11i Porting Guide
  - for PA-RISC and Itanium-based ® Systems
- Getting Started Porting Tru64 UNIX ® Applications to HP-UX 11i White Paper
- HP Porting Checklist
- Success Stories:
  - FMS (Fraud Management System)
  - SUN-compatible Threads Library (ScTL)
  - Development Environment Test Harness (DETH)

Transition Tools

- Appscan/Early Adopters Kit (EAK) v2.1
- Hpuxman
- Software Transition Kit (STK) v2.1
- Tru64 UNIX ® Migration Environment for HP-UX v1.1

Packaged applications: the ISVs

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Leading Partners Committed to Tru64 UNIX®

Recently completed discussions with key ISVs aligning application roadmaps with Tru64 UNIX® and HP-UX/Itanium® release plans

- Other ISV discussions on-going

Virtually all key ISVs are committed to remain current with their applications on Tru64 UNIX® through 2004

Anticipate bridging application releases, supporting both Tru64 UNIX® and HP-UX/Itanium®, from most key ISVs

- Allows application upgrade issues to be addressed separately from platform transition

Discussions with ISVs around development of joint migration best practices for our mutual customers

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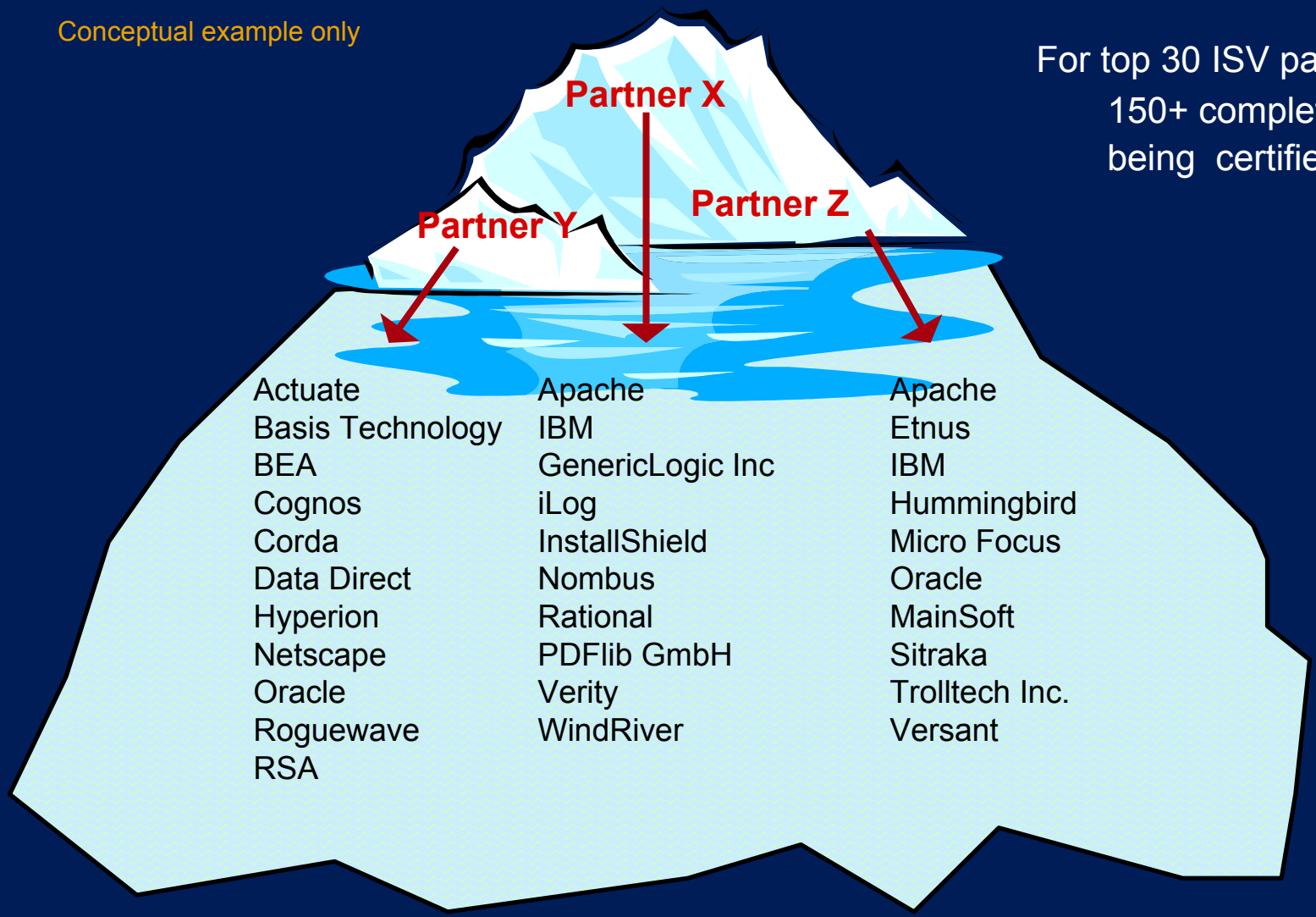
Finding the timing windows …

- Starting with the ISVs roadmaps…
  - Tru64 UNIX/AlphaServer
    - When will Tru64 UNIX no longer be a viable platform for application?
      - Tru64 UNIX version of the current release – 5.1A, 5.1B?
      - Future versions of application - will any more updates on Tru64 UNIX be coming?
      - Life cycle – once delivered on Tru64 UNIX, typical support duration
  - HP-UX on Itanium
    - When will comparable functionality application be available on HP-UX on Itanium?
      - Which HP-UX version?
  - HP-UX/PA-RISC
    - In almost all cases, application will be available on PA-RISC today with a healthy roadmap

Don’t overlook hierarchical dependencies

Conceptual example only

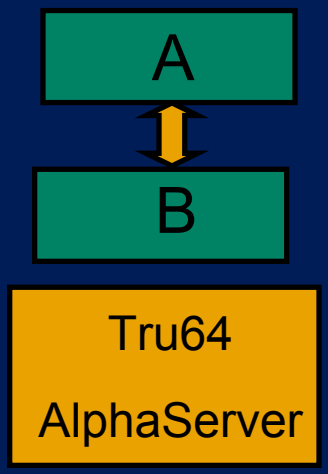


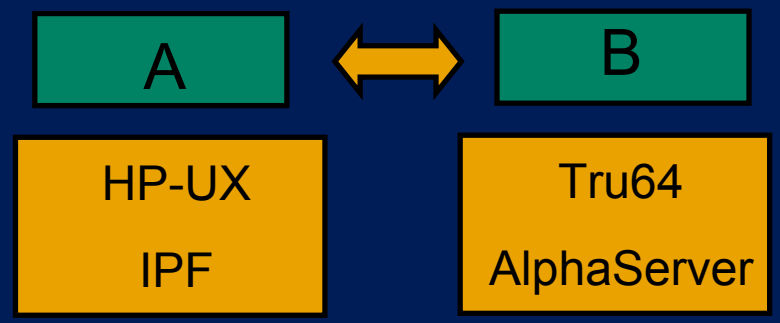
For top 30 ISV partners:

150+ completer applications being certified

Evaluate application structure

- Is there internal layering in the application
  - Client/server
  - Tiers
- Ideally application moves to new platform as is, but if particular pieces (ISVs) have very different timing windows
  - Evaluate splitting out components for early/late migration



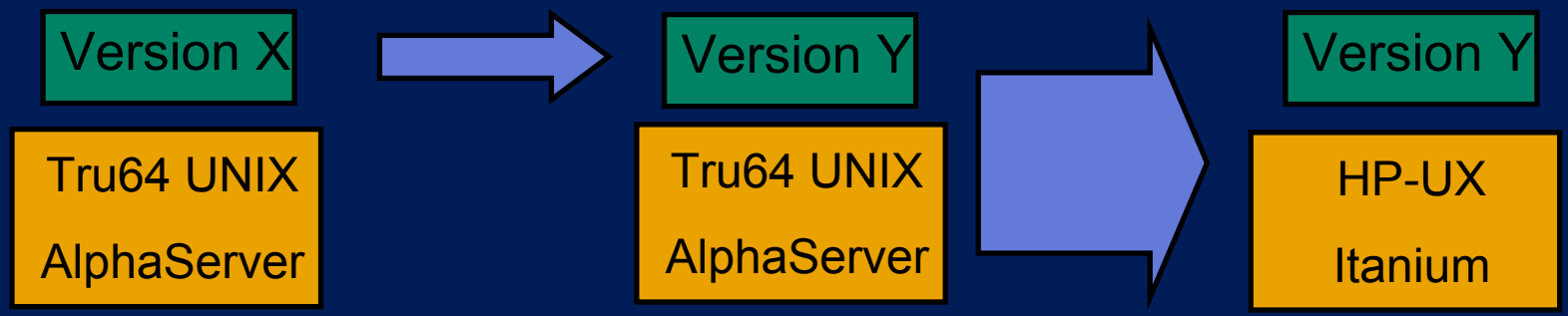


Multi-tier environments – application tier

- Many partner-based solutions employ multi-tier architectures (a/k/a client/server)
- Application tier:
  - Contains business logic
  - Isolated from database tier via database connectivity and middleware.
    - Main sensitivity is to database versions
  - Limited dependencies on Tru64 UNIX-unique features
    - Good fit with HP-UX 11i or 11i v2
  - Relatively straight-forward to migrate

Other considerations – will you need to upgrade on Tru64 UNIX before moving to new environment?

- Many customers are running older versions of application and database software
- Example
  - SAP system will need to be at 4.6C (or later) before migrating the application tier to HP-UX/Itanium®
    - Significant SAP version upgrades can have greater impact than platform migrations
  - SAP system will need to be at Oracle 9i Release 2 before migrating the database tier
  - SAP has its own unique database migration process and require engagement of certified SAP migration consultants



Transition Packaged Applications Planning Module – Wave 1 (December 2003)

- ISV Roadmap Advisory Tool – customized report available to customers by contacting their hp rep ***
- Several ISV specific white papers – considerations for planning their application migration
  - Oracle Database Migration white paper
  - Several Peoplesoft Migration planning papers

What's Next?

- New Transition Module Coming – March 2004
  - Planning – Oracle Database Migration
- Updates (as needed) to existing Planning Modules
- Followed by Design-focused Transition Modules

Summary…

- Providing a staged approach, with heavy emphasis on up-front planning; to mitigate risk…
- Providing customers with a framework for how to approach transition planning. (Plan-Design-Implement-Manage).
- Providing Transition Modules to assist customers through each phase of transition, beginning with the Planning phase.
- ISV Planning Tool, to be utilized by hp account reps, to assist customers in planning their application migration, is available now.

Resources to assist along the way…

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The information contained herein is subject to change without notice.

Where to Find the Transition Modules

- To obtain the current Planning Transition Modules, go to:
  - http://www.hp.com/go/transition-modules/

- These are also referenced off of the Alpha RetainTrust web site (so you'll only have to remember one source!)
  - http://www.hp.com/go/alpha-retaintrust

What You'll See…

- Initial page – introducing you to the Transition Modules
- Information about downloading information (the ZIP file of the web tree) – once you accept the 'terms and conditions" for this information
- If you accept the "terms and conditions", you will fill out a short form to supply your customer info.
  - You can then download an encrypted zip file
  - Includes a "readme.txt" file with specific instructions on how to unzip the file Requires a decryption key.
- Once your info is validated, you will receive (within 2-3 days) a key to decrypt the file and access the Transition Modules.

Links to Additional Information

- To obtain the current Planning/Design Transition Modules, go to:

  http://www.hp.com/go/transition-modules/

- More information on Tru64 UNIX® Application Transition Tools at:

  http://www.hp.com/go/tru64appmigration/

- Alpha RetainTrust web site:

  http://www.hp.com/go/alpha-retaintrust

Alpha RetainTrust Complimentary Training: Webcasts

- Technical webcasts to date:
  - Tru64 UNIX® & HP-UX: Side-by Side Comparison for System Administrators
  - Tru64 UNIX®: Side-by-Side Comparison: Clusters & Disaster Tolerance
  - Tru64 UNIX® & HP-UX: Side-by-Side Comparison: Storage Platform Configurations
  - Tru64 UNIX® & HP-UX: Side-by-Side Comparison: Resource and Workload Management {slide set only; look for a new recording soon}
  - Transitioning your Applications from Tru64 UNIX® to hp-ux on Itanium®: Application Transition Tools
  - Tru64 UNIX® & HP-UX: Planning a Technology Transition
  - Tru64 UNIX® & HP-UX: Enterprise Server Evolution

Playback recordings as well as download slide deck are available at:

- **www.hpbroadband.com**
- Enter email address and keyword tru64unix

Complimentary Customer Training: Web-based Courses - available with an e-coupon

In-depth web based customer training (available via e-coupon)

- ✓ Tru64 UNIX to HP-UX System Administration
- ✓ Tru64 UNIX to HP-UX Application Porting

Check the Alpha RetainTrust website for details on how to obtain your e-coupon.

http://www.hp.com/go/alpha-retaintrust

Or send mail to tru64.training@hp.com to obtain your e-coupon.

Tru64 UNIX® to HP-UX application software transition aids

Developers documentation

- White papers and best practices
  - documented porting experiences to assist customers with their own porting work (available today at http://h30097.www3.hp.com/transition/apps/port_models.html)
- Usage guides
  - *wdb for Ladebug users*
  - *Caliper for DCPI users*
- Porting guide
  - *Tru64 UNIX® to HP-UX 11i on Itanium and PA-RISC* (available today at http://h30097.www3.hp.com/transition/apps/porting_guide.html)
- man pages
  - Tru64 UNIX® man pages on HP-UX
  - HP-UX man pages on Tru64 UNIX
- More information on application transition tools at: http://www.hp.com/go/tru64appmigration/

White Papers - available now

White papers:

- Migration choices for AlphaServer/Tru64 UNIX users
  - Fourteen page paper (Technology Update) that assists customers in determining where and when to migrate to, done by D. H. Brown, August 2002
- Platforms for the New Millennium: Making the transition from Alpha to Itanium-architecture based servers
  - IDC, January 2003
- From Tru64 UNIX® on Alpha to HP-UX on the Itanium® Architecture – A Safe Journey to Evolution
  - Twenty page internally-developed white paper to articulate our strategy
- All available off of the Alpha RetainTrust website at:
  - http://www.hp.com/go/alpha-retaintrust

Transition planning resources available: supplemental resources and aids

- “Testdrive” environment – sandbox environment of new H/W and S/W offerings
- Porting centers
- HP-Intel®; Solutions Centers – proof-of-concept labs for customers
- AlphaServer Customer Assurance Program

Transition planning resources available: HP Services

HP Services

perfect delivery with people, technology, and processes

Technology for that competitive advantage

- Languages (VC++, VB, C/C++, java COBOL)
- Database
- OS (UNIX, Windows, Linux, and MPE)
- CORBA, COM, RMI-component
- EAI, messaging, MQ series, elink, etc.

Better people better solutions!

- Highly competent teams of: project managers, solution architects, technical consultants, software developers, test engineers
- Quick ramp-up to handle big projects

Process well defined, consistent and repeatable

- Aligned with focus pm
- SEI CMM level 5 assessment
- On-site and off-site execution
- Fixed or time & materials pricing model

invent

Typical Customer Questions re: ISVs… Will application availability align with my needs?

- TRU64 UNIX Customer
  - When will Tru64 UNIX no longer be a viable platform for my application?
  - Tru64 UNIX version of the current release – 5.1A, 5.1B?
  - Will any more updates on Tru64 UNIX be coming?
  - When will comparable functionality application be available on HP-UX on Itanium?

- HP-UX/PA-RISC Customer/Prospect
  - In almost all cases, application will be available on PA-RISC today with a healthy roadmap

Sample: Customized White Pape (output from ISV Roadmap Advisory Tool)

White Paper

November 1, 2003

Prepared for:

Review Team

Hewlett-Packard Company

Prepared by:

ESS Solutions Alliances

Hewlett-Packard Company

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Tru64 UNIX to Itanium 2 hp-ux Application Transition

Abstract:

This document can assist you in planning and implementing your Tru64 UNIX Application transition.

Prepared for:

Review Team

Hewlett-Packard Company

Internal Field Test

Roadmap for TRU64 UNIX and HPUX (excerpt from customized report from Roadmap Advisory Tool)

5.2 Roadmap for Ascential Software Corporation:

Application Roadmap for HP Tru64 Unix			
Application	**Tru64 Unix Version 5.1**	**Tru64 Unix Version 5.1A**	**Tru64 Unix Version 5.1B**
DataStage Extrack PACK for SAP R/3	3.01r1 (Shipping)	3.01r1 (Shipping)	3.01r1 (2Q03)
DataStage Load PACK for SAP BW	2.01r2 (Shipping)	2.01r2 (Shipping)	2.01r2 (2Q03)
DataStage PACK for J.D. Edwards	1.3 (Shipping)	1.3 (Shipping)	1.3 (2Q03)
DataStage PACK for PeopleSoft	2.1 (Shipping)	2.1 (Shipping)	2.1 (2Q03)
DataStage PACK for Siebel	1.1.1 (Shipping)	1.1.1 (Shipping)	1.1.1 (2Q03)
DataStage Parallel Extender XE	5.1 (Shipping) 6.0	5.1 (Shipping) 6.0 (Shipping)	5.1 (2Q03) 6.0 (2Q03)
DataStage Standard Edition	5.1.r4 (Shipping) 5.2 (Shipping) 6.0	5.1.r4 (Shipping) 5.2 (Shipping) 6.0 (Shipping)	5.1r4 (2Q03) 5.2 (2Q03) 6.0 (2Q03)
DataStage XE, include: MetaStage, Quality Manager MetaStage	5.1A (Shipping) 5.2r1 6.0	5.1A (Shipping) 5.2r1 6.0 (Shipping)	5.1A (2Q03) 5.2r1 (2Q03) 6.0 (2Q03)
DataStage XE/390	5.2 (Support) 5.2r1 (Shipping) 6.0	5.2 (Support) 5.2r1 (Shipping) 6.0 (Shipping)	5.2 (2Q03) 5.2r1 (2Q03) 6.0 (2Q03)

Application Roadmap for HP/UX			
Application	**PA-RISC HP/UX 11i**	**Itanium HP/UX 11iV1.6**	**Itanium HP/UX 11iV2**
DataStage Extended Edition (EE)		6.5 (Apr 2003)	7.1 (1Q04)
DataStage Standard Edition	5.2r1 (Available) 5.1r6 (Available) 5.1r5 (Available)	6.0 Limited Release (Apr 2003)	7.1 (1Q04)
Output Pak for Oracle	(Available)		
ProfileStage			7.1 (1Q04)
QualityStage		6.5 (Apr 2003)	7.1 (1Q04)

Internal Field Test

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