

Software Configuration Management for HP NonStop

CRØSSPAC

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- CrossPAC Software B.V
 - The Netherlands
- Distributor 3rd party software
- Support and Helpdesk
- NetWeave
- PANORAMA
- XML Thunder
- PrimeCode





NetWeave

- Communications Middleware
- Message Passing / Queuing
- Remote Databases / Transactions
- HP NonStop
- UNIX
- Windows
- other HW





PANORAMA

- Source Code Analysis
- Programs / JCL
- High Level of Detail
- All platforms
- Most Languages
- Windows/UNIX client UNIX server





XML Thunder

- XML Enable Legacy Applications
- COBOL and C
- Native Gaurdian
- Minimal Program Changes
- Full XML Implementations
- XML Enable Apps in hours
- SEPA Compliant in Weeks



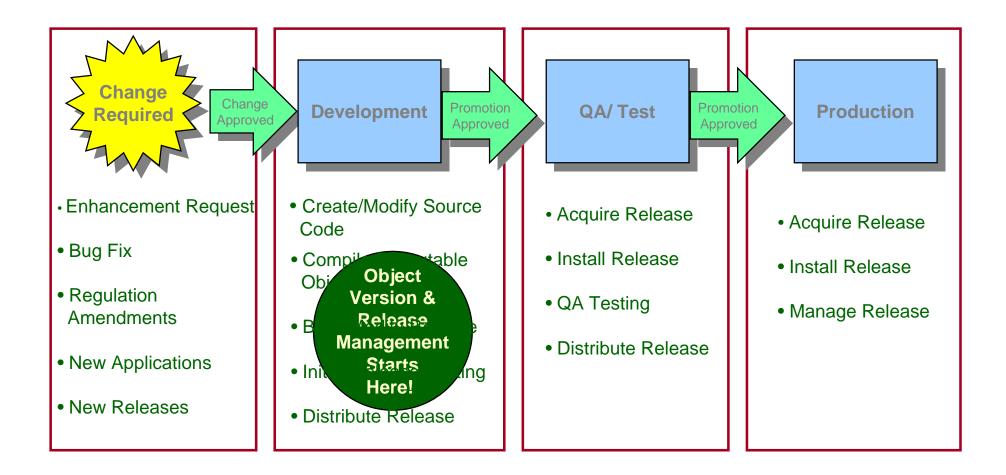
Software Configuration Management

The process of managing the development, change, distribution and installation of software applications throughout the entire software life cycle.





Software Life Cycle

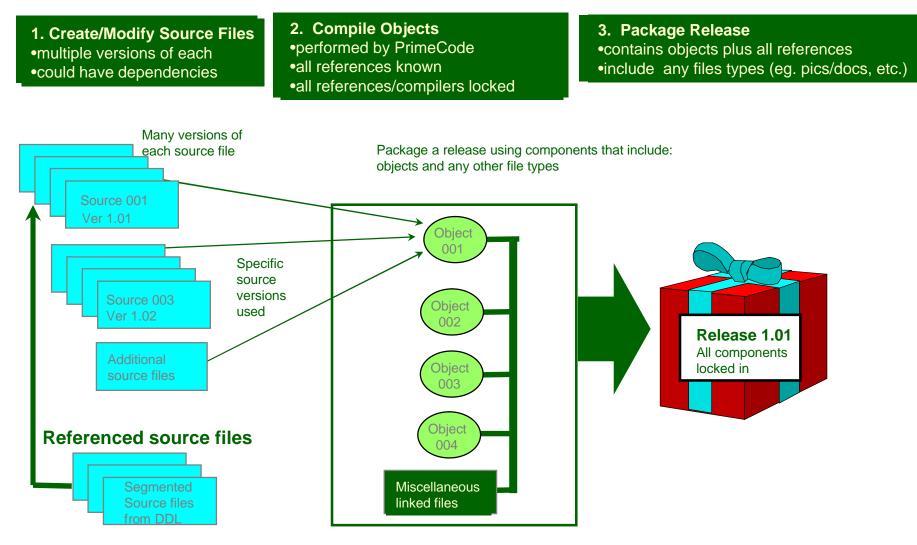


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PrimeCode ®

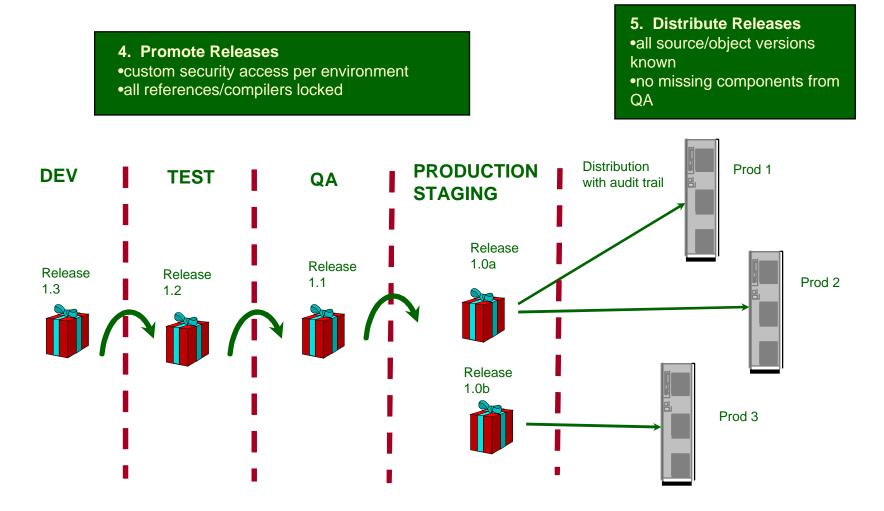
Referential Integrity:

Develop and Package



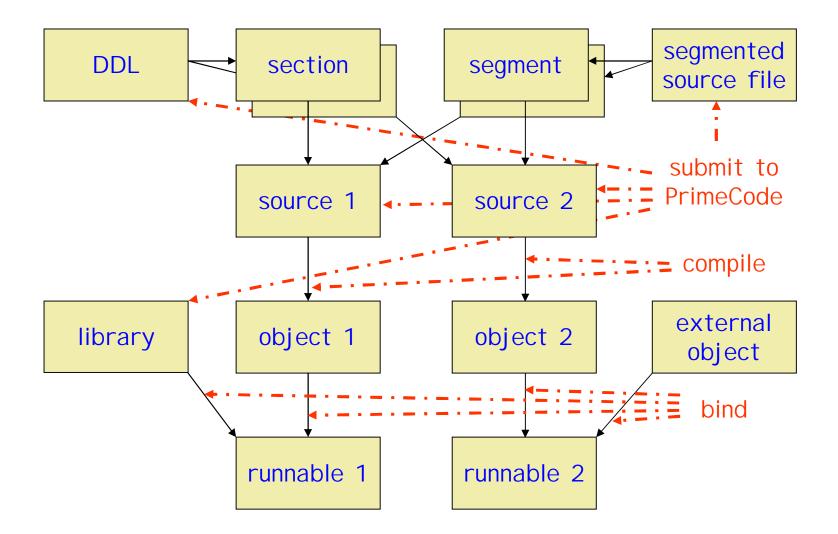


Referential Integrity: Promotion and Distribution



PrimeCode ®

Managed component structure



PrimeCode ®

Managed component references

- All references managed automatically;
- DDL: individual sections;
- Source references created during submit to PrimeCode;
- Object references created during compile;
- Runnable references created during bind;
- Objects recompiled only when needed;
- Massive reduction of test time;
- Impact analysis;
- User changes.





User changes

- Group source changes;
- Manage as a single entity, not as many individual sources;
- Compile / promote / install;
- Multiple concurrent user changes;
- Increased manageability of development process





Why use SCM?

Most outages are caused by planned changes





Why use SCM?

- Audit compliance;
- Improved reliability;
- Cost savings/improved productivity;
- Reduce downtime;
- Prevent fraud;
- Facilitates change impact analysis;
- Manage risk of doing business.



Audit Issues

- Reproducibility of applications;
- Audit trail of changes;
- Division of responsibilities;
- Secured repository access;
- ENRON spawned Sarbanes-Oxley:
 "SOX gives us a headache";
- SocGen to spawn new requirements?



PrimeCode ®

Reducing errors

- Multiple versions: Which is the correct one?
- Change source: Easy to forget bug fix;
- Change source: Which applications are affected?
- Releases: Are the right pieces included?
- Bug fix: Is it included in Prod & Dev?
- Changed make file? Can't reproduce object;
- Multi user fix? May overwrite other's change.



Costs savings

- More efficient through fewer errors/better management;
- Automated process;
- Reduce *potential* for downtime (risk management);
- Reduce *actual* downtime:
 - less searching is required,
 - no components to re-create,
 - easier analysis possible.





PrimeCode Features

- Manages ALL Types of Components;
- Manages Relationship Information;
- The only End-To-End Solution Specifically Designed for HP NonStop.





Product Structure

- Core system on Guardian ("RMS");
- Repository in Enscribe files
- GUI front end on PC (PrimeCode);
- Full support for OSS / Integrity;
- ALL languages supported:
 - COBOL, SCOBOL, C, C++, TAL, Java, ...;

PrimeCode

• Guardian security + internal security



PrimeCode versions

- UltraLite includes
 - Source version control only,
 - DDL granularity;
- Lite also includes
 - Managed compiles,
 - User changes;
- Full also includes
 - Releases
 - Install / distribute / acquire
- Smooth upgrade path





Optional Modules

- ACP:
 - Automated Change Policy
- CRW:
 - Custom Report Writer
- RTC:
 - low cost, low impact RSC replacement





Third Party Applications (Examples)

- ACI BASE24
- Logica
- Alerie
- eFUNDS

- BESS
- ATLAS
- ADVANTAGE





Major Benefits

- AUDIT COMPLIANCE
 - Sarbanes-Oxley
- RELIABILITY
 - of software applications
- PRODUCTIVITY
 - in development, testing and production support
- MANAGE RISK
 - of "planned" software changes





PrimeCode European Customers (Partial list)

- ATOS/Euronext
- Banksys
- BBS
- Belgacom
- La Caixa Barcelona
- Caja de Madrid
- Crédit Agricole
- Deutsche Bank
- Equens

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• Euroclear

• HSBC

- ING Bank
- KPN Telecom
- LloydsTSB
- Nationwide
- Rabobank
- Royal Bank of Scotland
- Société Générale
- Swedbank



PrimeCode American Customers (Partial list)

- ABN AMRO
- Alerie
- AT&T
- Bank of America
- Bank of Nova Scotia
- Chicago Mercantile Exchange
- CIBC
- Comerica

- Hertz
- MasterCard
- New York Board of Trade
- Sungard Financial
- Toronto Stock Exchange
- US Bank
- Wachovia
- Wells Fargo





PrimeCode versus simple version control

- Manage objects as well as sources;
- PrimeCode managed component structure:
 Versions/states/bugfixes/DDL granularity
- Users of version control only tools move to PrimeCode due to increased auditing requirements (e.g. Sarbanes-Oxley);
- With mergers, all mixed environments have converted to PrimeCode;
- No conversion away from PrimeCode ever.





Customer testimonial #1

- Top 5 US Brokerage firm;
- Bi-weekly bug fix releases;
- Frequent problems with releases proved difficult and time-consuming to analyze and fix;
- In 2½ years of using PrimeCode, not a single software release problem encountered.





Customer testimonial #2

- Top 10 US Bank;
- BASE24 from test to production without full testing;
- Errors often took weeks to fix;
- With PrimeCode, problems completely eliminated due to tight QA control over release contents.





PrimeCode is for HP NonStop

what Endevor is for IBM Mainframes



