A Application Management 1.2 Release Notes

This chapter includes hints on new or modified functionality of Application Management 1.2 with respect to previous versions. Furthermore, you will find here a list of all bugs which were known and fixed at release time. Please have a look at the last section of this chapter: You will find a list of all classes and selectors which will be removed during upgrading to Application Management 1.2.

A.1. New Features

Version 1.2 of Application Management has mainly been released to fix some nasty bugs. While preparing version 2.0 of Application Management we had to restrict in implementing new features. Some nice and easy additions have been made anyway.

- Product version: Evaluating the expression 'ApplicationManagement productInfo' in a workspace will show an 'about dialog' displaying product information, especially the current version. Please refer to this version when calling our hot-line.

- Pre- and post-installation doits: Source code format and scanning has been improved. Filing in an application with the previous versions was very simple: Installation doits were executed but not registered. The new implementation will no longer 'forget' doits, but catch and register them properly. Pre-installation doits will be caught without restriction, post-installation doits will be caught if the source application has been created with the new version.

- Browsing: Application Browsers will emphasize method comment. The default is #italic, changing to other values requires reimplementation of ApplicationBrowser>emphasisFor: (specify '#color->ColorValue blue' if you are a friend of colour, specify 'nil' if you do not like emphasis).

A.2. Modifications

Due to several requests we changed the directory names of Application Management applications. The new directory names satisfy FAT file system conditions independent of the current host platform. This is a concession to the lack of transparency of common PC network communication software and minimizes problems on source access across heterogeneous operation systems. The new directory names will be automatically assigned when executing the upgrade script (see also file 'readme.upg' in sub-directory 'upgrade' of distribution disk).
The following are further modifications, ordered by responsible applications.

- APL-Framework
  - Storing a secondary application reference in an application binary file will no longer raise a dialog, but simply display a Transcript message.
  - In order to save requests we dropped the dialog confirming the creation of a new major version. There are lots of opportunities to cancel the operation if you invoked it unintendedly.
  - Application Management requests platform compatible names when creating a major version with a new name.
  - Export invoked by 'file in/out> file out installation' from Application Management Browser will copy the latest major versions only (instead of all major versions).
- APL-Interface
  - Double clicking an application in the ApplicationManagement browser uniquely opens a browser independent from normal or hierarchy mode. Expanding or contracting the list of required applications in hierarchy mode must be performed via menu operations.
  - Application Browsers switch to system mode after 'find class' if necessary.
  - Application Browsers update version information after accepting code.
  - The information view at the bottom of Application Browsers holds extended information for changed methods. Example: The output 'myimage.changes (ApplicX(x.ym))' means the selected method has been changed, its source code resides in the changes file of 'myimage.im', and the method and the change are registered (in application 'ApplicX(x.ym)').
- ExternalSource
  - Improvement of system source file access error handling: 1) Invalid file entries will no longer be discarded (set to nil); 2) Smart (and reasonable) reaction when running out of file handles; 3) Improved error messages, displaying the reason

for the source access failure, trying to find out which CompiledMethod holds the invalid source pointer.

- Version
  - VersionDescriptors finally implement #readFrom: with a stream argument.
- X_Interface
  - User selection from collections did not properly handle text elements.

A.3. Known and Fixed Bugs

The following section lists all bugs which have been fixed with the new release of Application Management. We want to thank all our customers and other users for their support.

- APL-Framework
  - Invalid source pointers after exclude class/category ("Source code not available")
  - Errors in 'set directories' for initial applications with external source
  - Changing the platform compatible name did not update the source file pointer.
  - Filing in class definitions entered changes in peculiar ordering (includeOrChange + backup + change).
  - Mistakes in scanning the version map file.
  - ERROR_SHARING_VIOLATION during minor versioning (DOS only)
  - Message not understood #isEmpty during major version with rename
  - Invalid application browser models after major version with rename
  - Improper ordering for multiply required applications in installation scripts.
  - Installation scripts did not account for differences of application name and platform name.
  - Message not understood #nextChunkPut: during 'file out application'
  - Major versioning sometimes left old application references in changes of other applications (e.g. major versions with rename)
  - Message not understood ClassDefinitionChange>type during class redefinition
- APL-Interface
  - Error when entering an empty string as platform compatible name

  - Errors in ApplicationBrowser class>openOn:/open
  - Confusion or loss of selection in the Application Management Browser when calling the menu for an outdated application entry.

- APL-ChangeSequence
  - Message not understood #asSymbol when trying to backup changed code for methods with nil protocol
  - Loss of new elements in a Changes editor was possible.
  - Class renames have to be propagated to change sequence elements immediately; otherwise method changes might refer to old names of renamed classes until newly compiled (see also file '.../upgrade/apl-chan.txt' on the distribution disk).

- APL-SystemLink
  - Handle the problem of running short of file handles.

- ExternalSource
  - Improper source/changes file reference after #invalidSourceFileAction:with:. Source file access failure imposes discarding the file entry without Change objects (used as persistent source code pointers in Application Management) becoming aware; redefining a proper value did not update persistent Change objects; to overcome dependency on system source file entries the inst var 'file' may store Integer values referring to the source file of the SourceFileManager respectively.

  NOTE:

  In order to save consistency of current change objects, this upgrade tries to map existing file references to appropriate integer values. If you ever lost your source/changes file entry due to invalid source file handling of VisualWorks then it may happen, that change objects refer to some file which does not exist anymore. The consistency check will then request what to do. The question displayed is

  'One of the changes refers to file ...

  Tell me how to map it'

  with '...' replaced by the name of the file referred to. You will be given the following options:

  - sources

    converts file entry of change to a reference to the image source file

  - changes

    converts file entry of change to a reference to the image changes file

- debug

    interrupts conversion, opens a debugger on the current context.
    Do not forget to proceed the process,
    otherwise following changes of the upgrade process will be skipped.

A.4. Removals

The following section lists selectors which have been removed with the new release of Application Management. We won't need them anymore. If you need some functionality which will be removed, please take care to save the appropriate selectors by filing them out.

Character>asString

Filename class>stringFromArray:

ChangeSequenceController>addDoIt

ChangeSequence>updateChanges

SystemApplication>latestMinor

Application
    #fileInFromStream:startAt:stopAt:external:
    #sourceIdentifierForVersion:

ApplicationManagement
    #changedApplications
    #resetLogging

ApplicationManagement class>findBackupsFor:

PeekableStream
    #fileInFrom:to:sources:
    #fileInUpTo:sources:

VersionDescriptor class>readFromString:

VersionDescriptor
    #initialize
    #fileString