

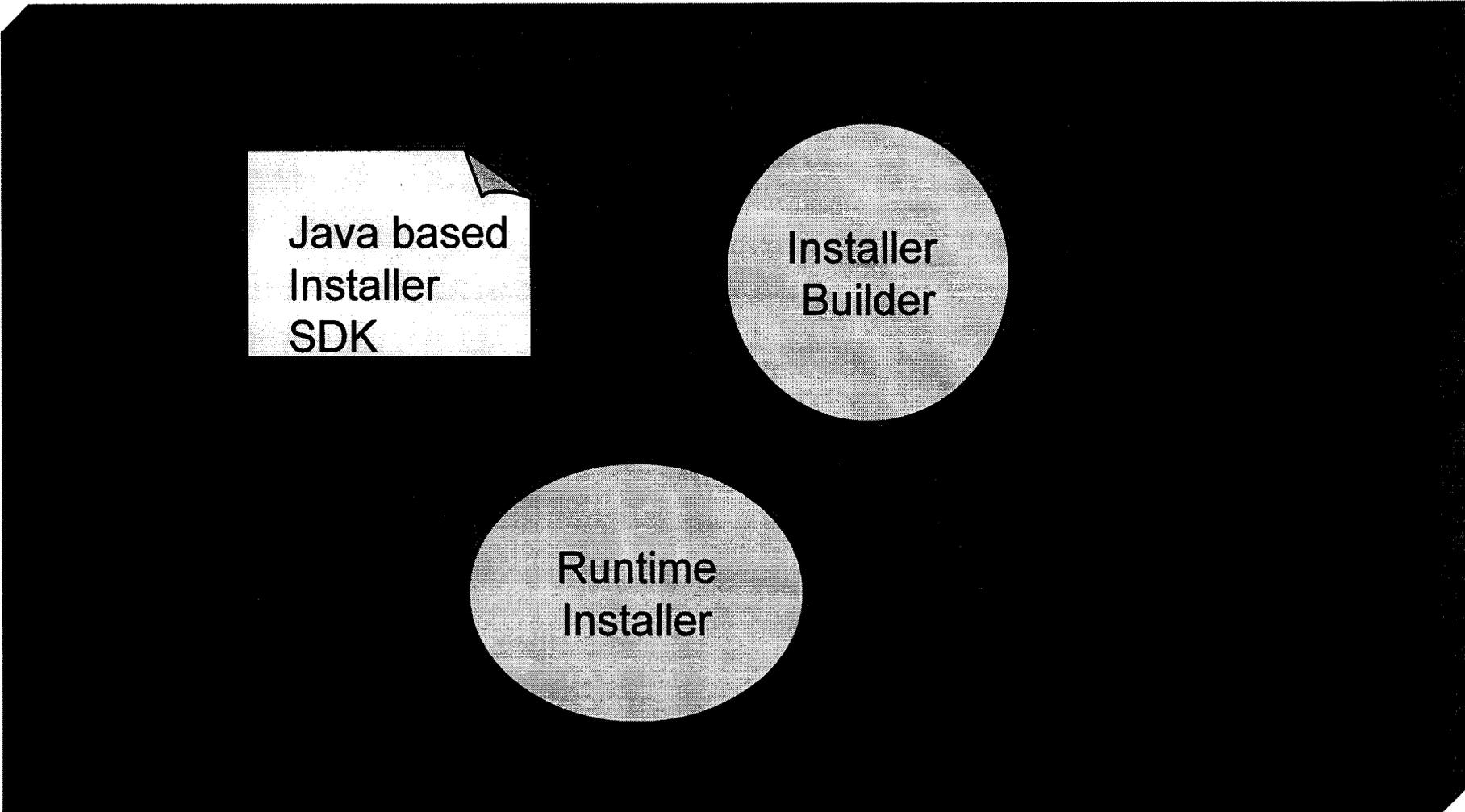


A Cross Platform Software Installation Solution

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Product Components



The diagram is set against a dark, rounded rectangular background. It features three main components: a white rectangular box with a folded top-right corner on the left, and two light gray circles on the right and bottom. The white box contains the text 'Java based Installer SDK'. The top-right circle contains the text 'Installer Builder'. The bottom circle contains the text 'Runtime Installer'.

Java based
Installer
SDK

Installer
Builder

Runtime
Installer

Product Features



Installer Builder Features

- Generates “zero-footprint” installer
- Usable in GUI or batch toolkit contexts
- Provides ability to save customization work for use later
- Extensible using standard Java Beans
- Installer
 - Executable jar file runs on any platform that supports Java
 - Used in interactive GUI or batch contexts
 - Generates an executable uninstaller during install

Background



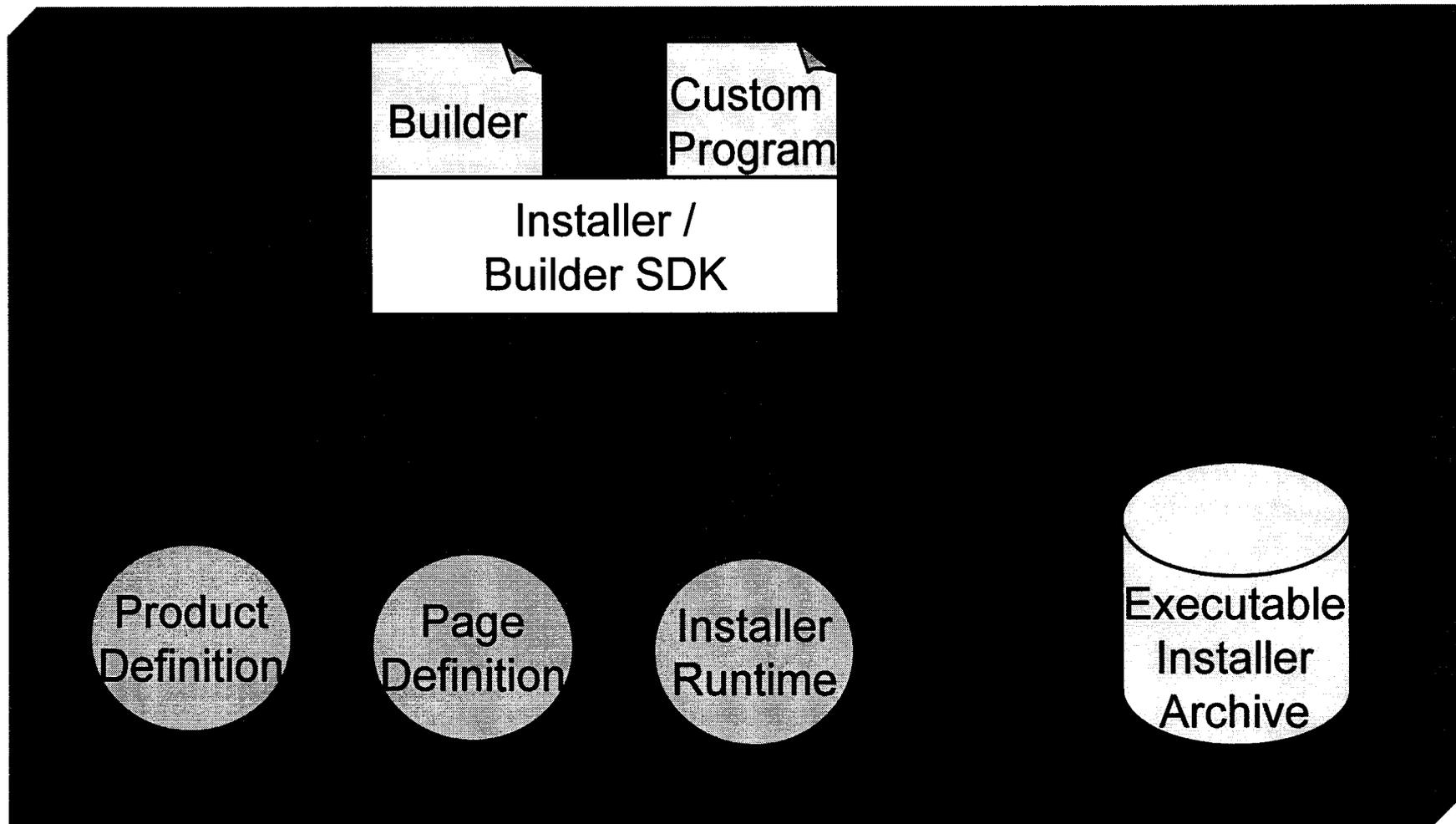
Java
Community
Process

Java
Specification
Request (JSR) 38

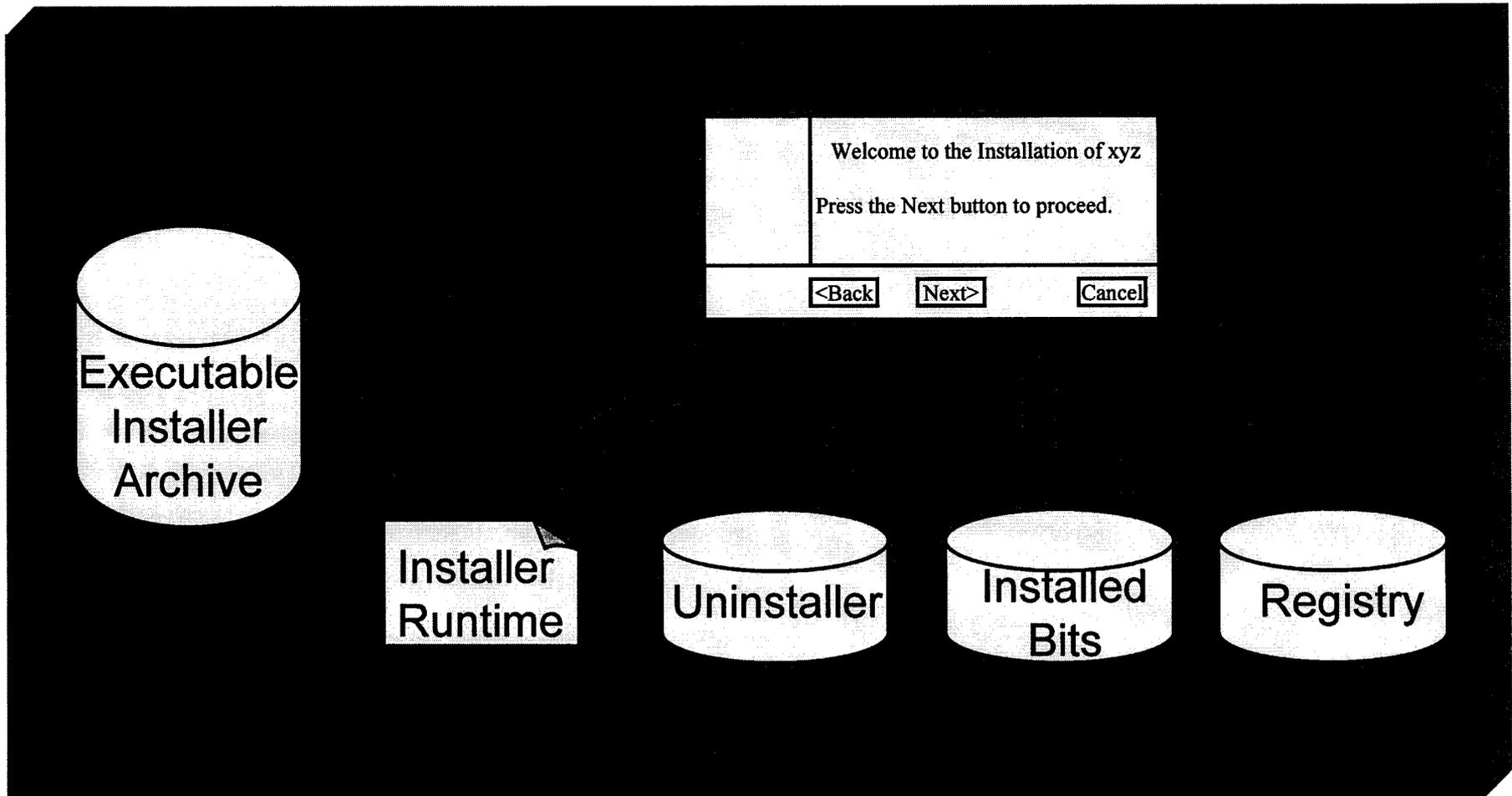
Specification
and
Reference
Implementation

JPL/Sun
Proposal

The Installer Builder



The Installer Product



Customization



- Typical customizations:
 - Rules, examples:
 - Is This a Windows system?
 - Is this system running a JRE > 1.3?
 - Does the user have administrative privileges
 - Actions, examples:
 - Install a file
 - Add a user
 - Execute an external program
- Are applied to:
 - Graphical panes
 - Product definition entries
 - Other customization integration points

Installer Customization



Jifi Builder 1.0

File Tools Help

Installer

Installer Class Name:

Installer:

Startup Action:

Final Action:

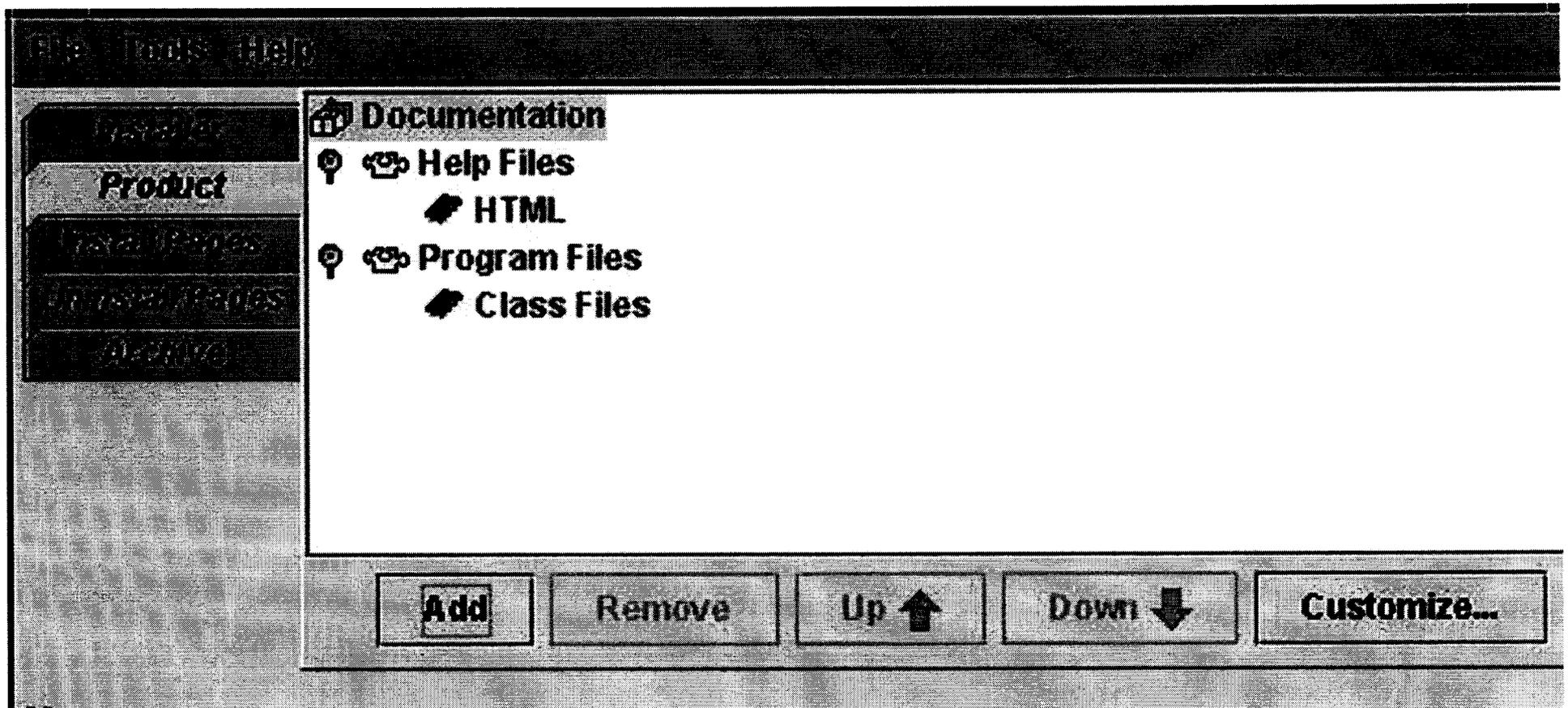
Uninstaller:

Startup Action:

Messages:

Project successfully saved as file /mnt/zephir/users/paul/administrative/jpl/slides/slides.jpf

Product Customization



Page Customization



File Tools Help

Installer
Product
Install Pages
Uninstall Pages
Archive

Folder

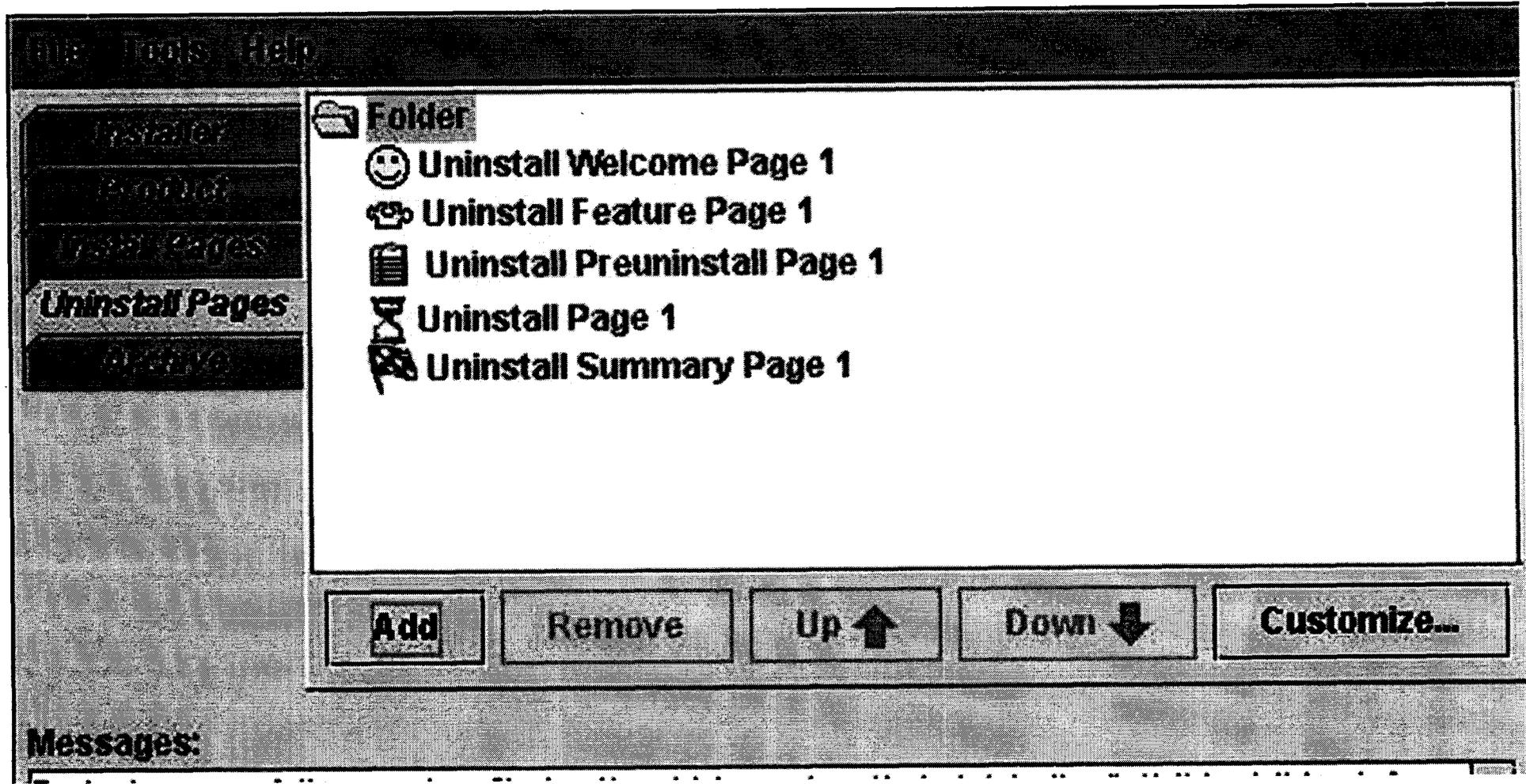
- Welcome Page 1
- License Page 1
- Path Page 1
- Feature Page 1
- Preinstall Page 1
- Install Page 1
- Summary Page 1
- Readme Page 1

Add Remove Up Down Customize...

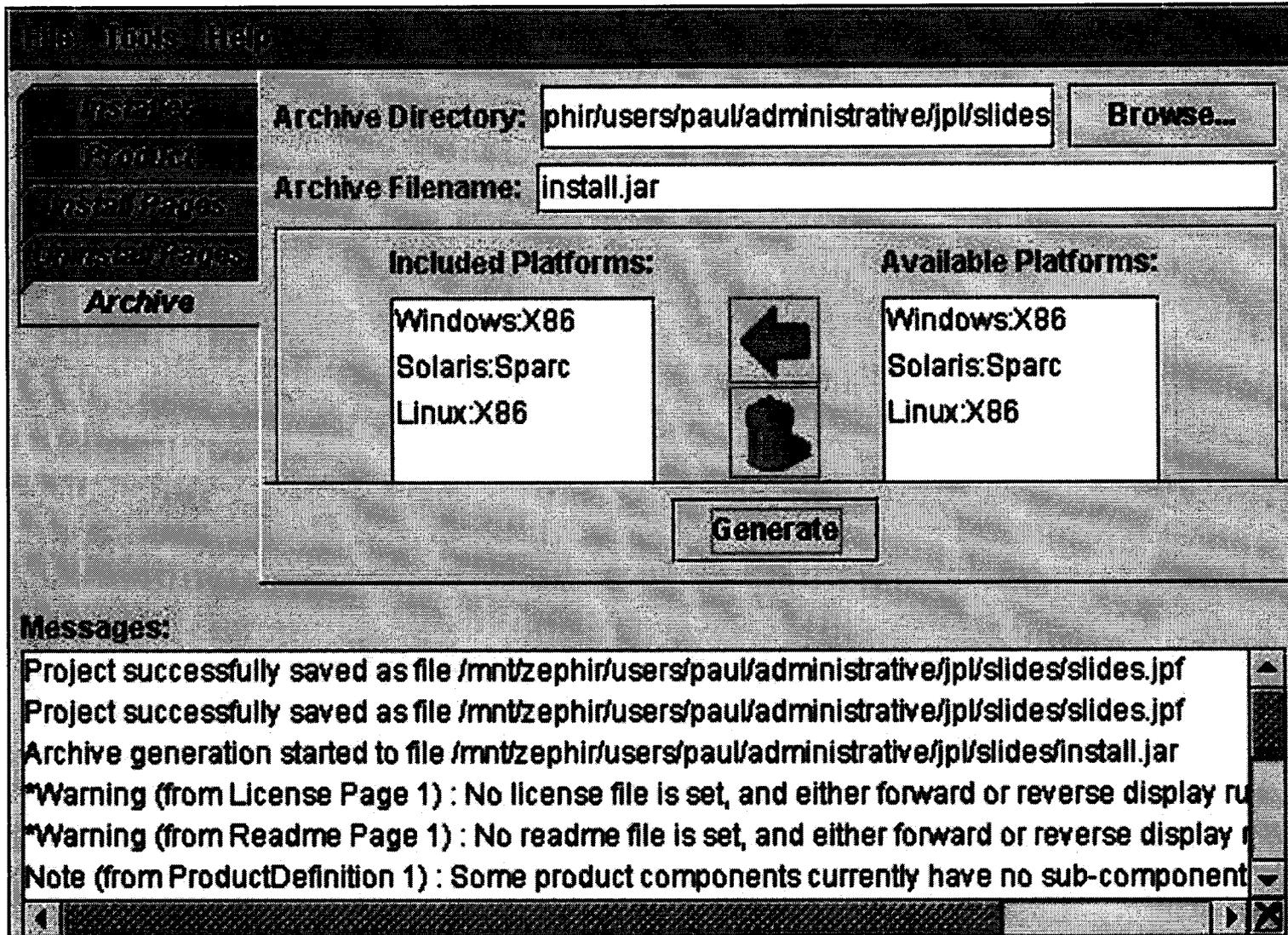
Messages:

Project successfully covered as file (mmttzanhirtucarefnaulforadministrativafinlfelidocfelidoc inf

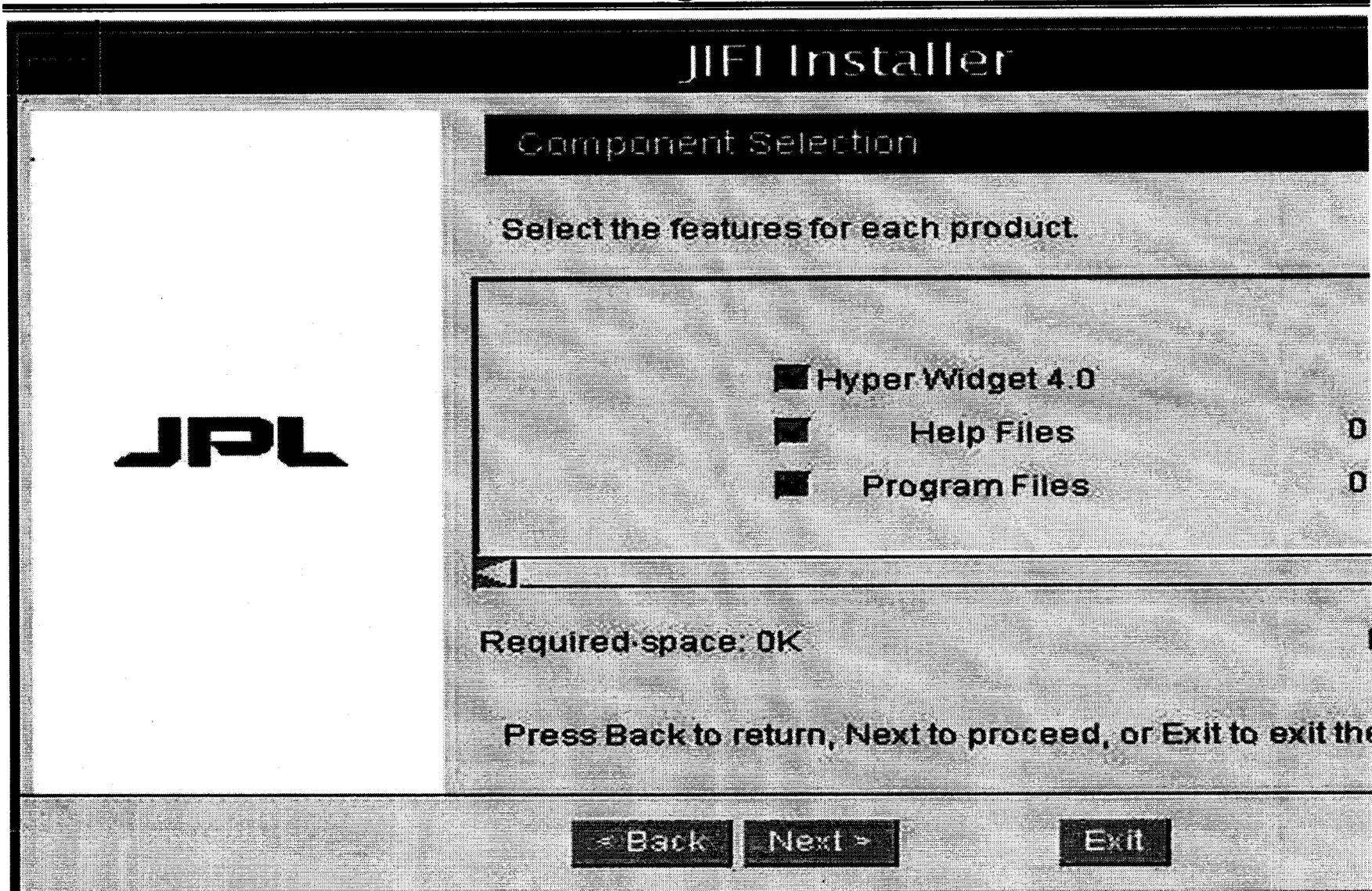
Uninstall Page Customization



Archive Generation



Resulting Installer



Product Uses



- Deploying applications that run on different platforms
 - A single installer can support all targeted platforms
 - Each target-specific application is installed on the correct platform
 - Each application targets the appropriate machine through Rule/Action usage
- Deploying data that is platform independent
 - A single installer can target multiple platforms with no customizations
 - Installing web content or other forms of documentation
 - Installing java class files
- Use as a Process Manager
 - Provides simple graphical cues to user
 - Provides customizable flow controls
 - Provides customizable actions to allow user to initiate processes

Other Features



- Builder state can be saved in a file and reloaded later
- Saved files can be executed using the batch builder mode
- Installer can be run in silent (unattended) mode
- New actions and rules can be built and integrated into the system
- Open source implementation – Apache style license
 - Full source available with binaries
- Three customers currently using product
 - DISA's new installer based upon this technology
 - Reference implementation in use on Lab
 - Sun Microsystem's new installer development based upon this software

Support



- Software improved regularly to support current customers
- Software discrepancies managed through our DevTrack anomaly tracking system
- Software engineering practices
 - Nightly checkouts and builds
 - Nightly run of junit based test harness for all components
- Software releases planned through Sun's Java web site and/or through our web site
- Contact information:
 - Paul.Wolgast@jpl.nasa.gov
 - <http://jsr38.jpl.nasa.gov>
- When viewing these slides turn on the Comments for more information on selected slides

Q & A



November 4th, 2002