

InstallGuard



*Software Installation and Integration
Issues*

Andrew Cox

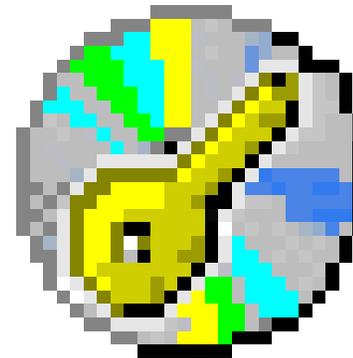
GCCS-M

8 July 1999

Quick Outline



- Navy GCCS-M Status
- Overview of InstallGuard
 - Description/Requirements
 - Current Status
 - Plans
- InstallGuard Demo
- Future of Installation Tools (InstallShield + Sun + InstallGuard)



Description/Requirements



- InstallGuard currently provides a Java based tool set for building segment descriptor files and creating an installation build for NT.
- Currently using InstallShield for final media image building - support for other COTS installation tools underdevelopment/investigation
- Near Term Goals:
 - Operate with WebStart
 - Build API for plug-able COTS Installers
 - Automated Abbreviated Segment generation
 - Interface with CDS (Common Data Store)

THE PROGRAM FOR
**Software
Portability**

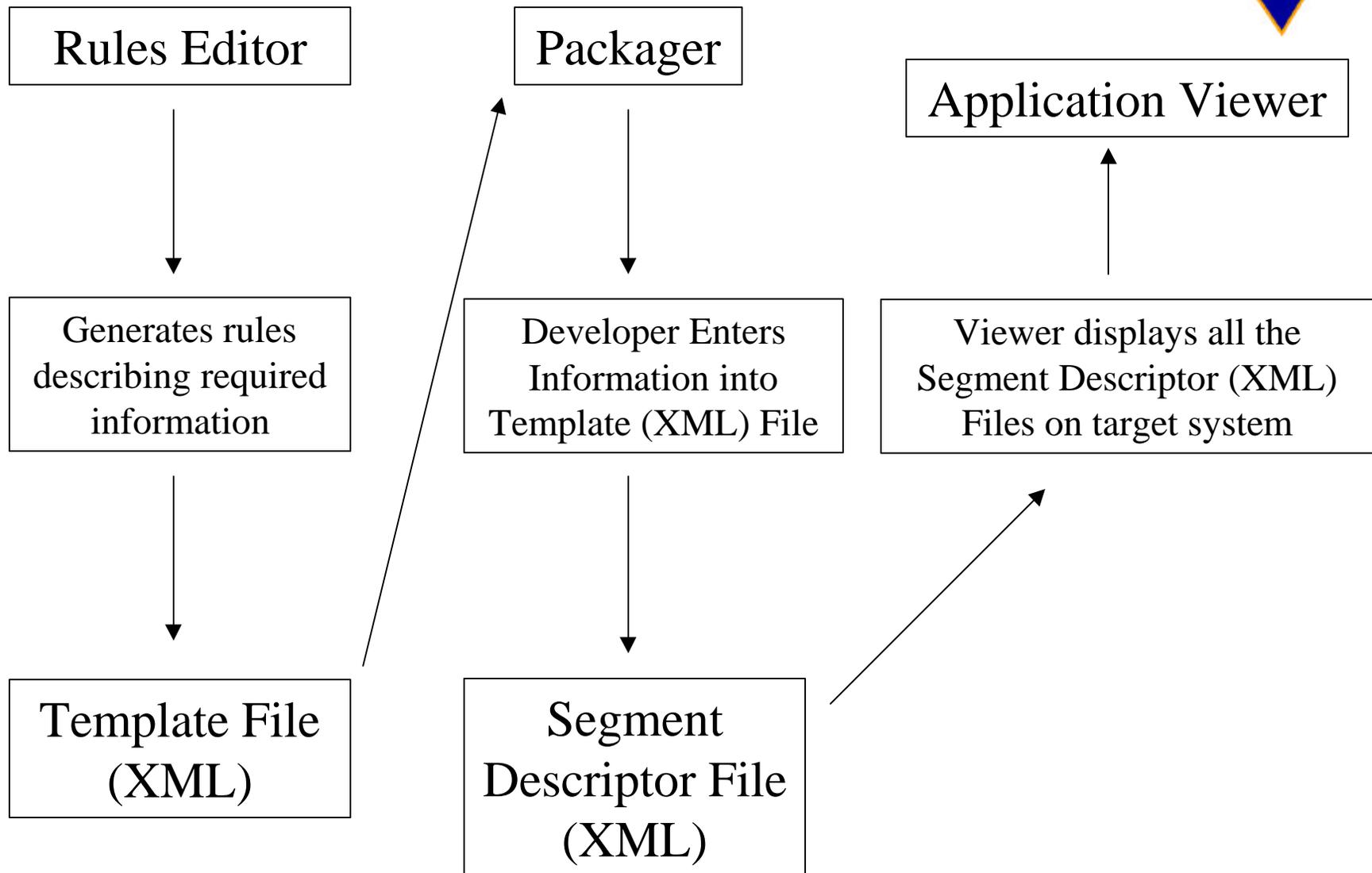


Features

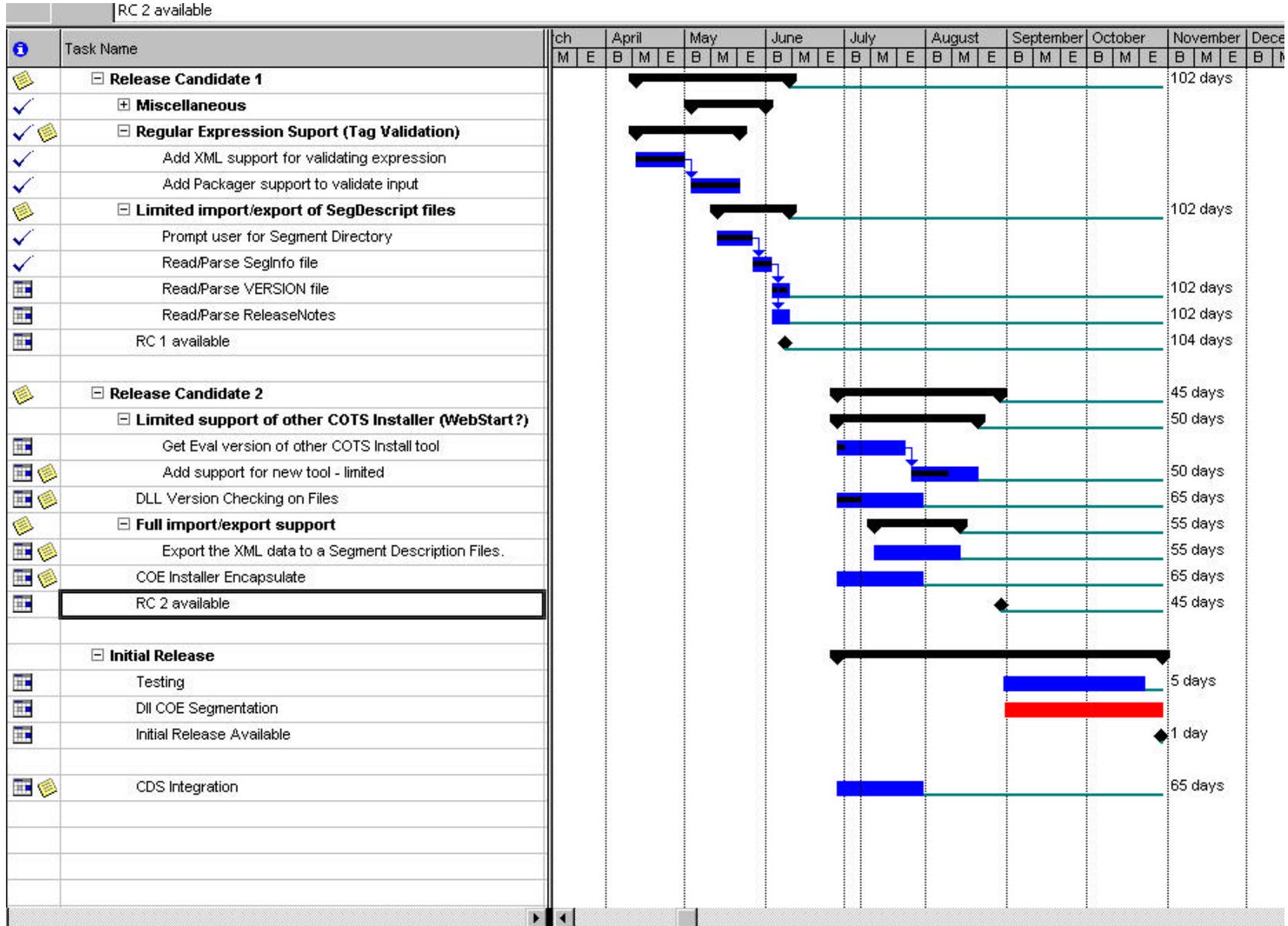


- Supports DISA I&RTS Requirements 4.x
- Support NT Logo Requirements
- Utilize XML for SDF representation
- Import existing segments (3.1 and later)
- Export to 4.X segment format
- Standardize a “front end” to Segmentation Process
- Template editor with field data validation support
- Java Help and Cut and Paste
- File and registry browsers

DII COE InstallGuard



Schedule



Next Release Goals

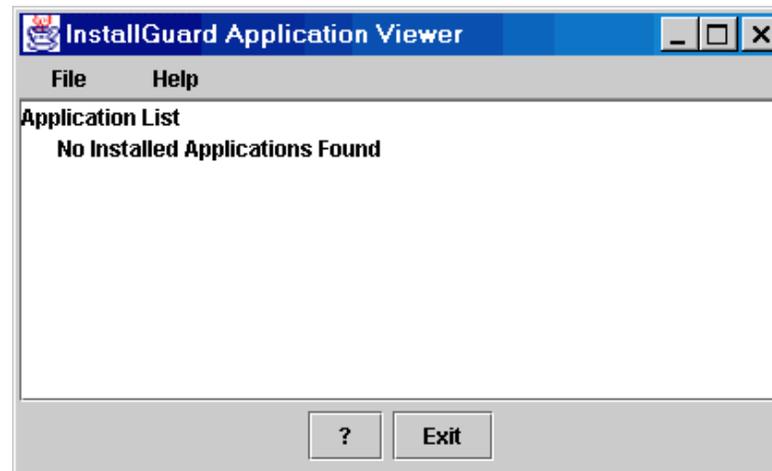


- Preliminary Support for WebStart
- Full Import of SegDescrip
- Export SegDescrip (SDF)
- CDS Integration
- Remove JNI dependencies for Windows Registry so that IG can run on Unix based platforms as well.
- Add additional support for newer 4.x features

Viewer



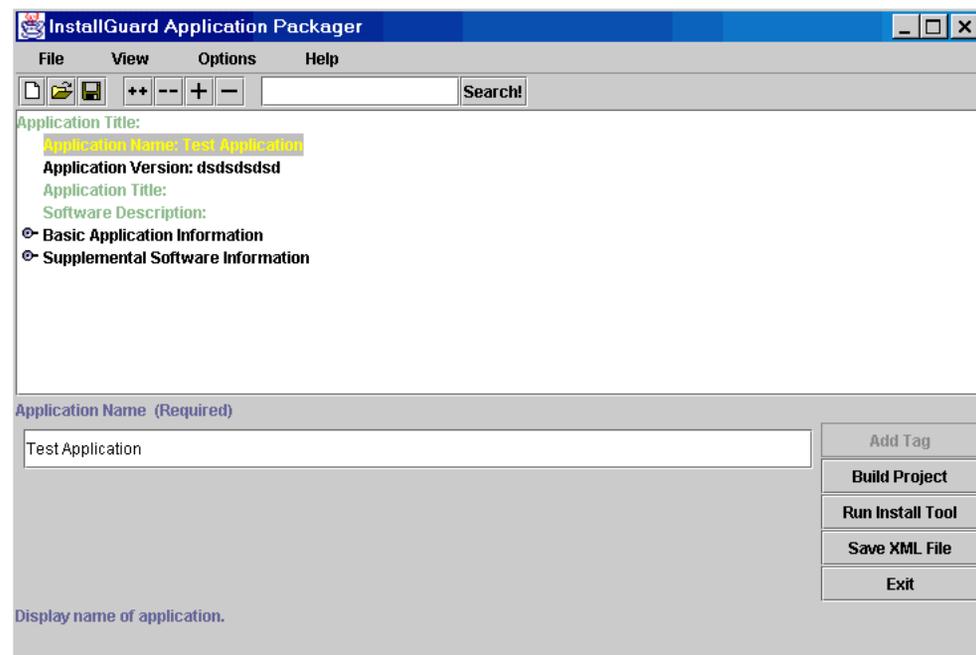
- Displays installed segments
- Could become starting point for install/de-install
- Can support remote install and multi-install



Packager



- Gathers SDF information and generates XML/scripts
- Launches COTS
Installer
- Imports existing
- Exports 4.x

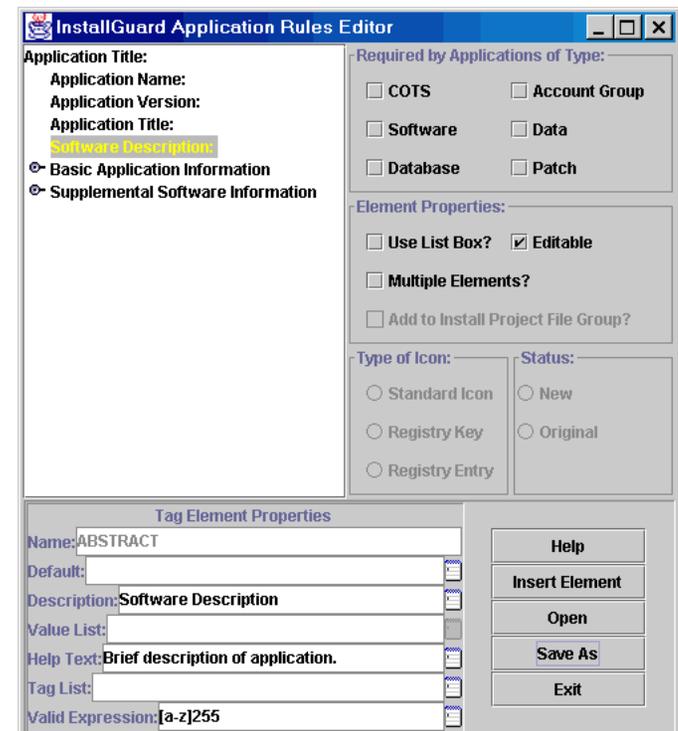


DTAI, Inc.

Editor



- Used to customize how packager interacts
 - specifies required fields
 - provides for default values
 - tailoring colors
 - Reg Exp
- Allows for generation of standard templates which can be then used by developers





New IG XML Tags and Usage

- IG:COEPOSTINSTALL** → **[Direct] PostInstall**
- IG:COEPREINSTALL** → **[Direct] PreInstall**
- IG:RELEASENOTE** → **Release Notes (readme) file for project**
- IG:PATCHNUMBER** → **Used for version and install path**
- IG:ENVIRONMENTVARIABLELIST** → **Support for NT I&RTS**
- IG:HELPURLTYPE** → **Support for COE DocViewer**

Others added as new requirements arise - not a problem!

COTS Installer API Integration



- Can InstallGuard pass segment data to default COTS Installer?
- Does COTS Installer have API's?
- Can COTS Installer execute IG code before and after installation to enforce COE Business Logic?
- Can COTS installer execute Java code?
- What machines and OS's are supported?

Tools Comparison



| | Windows NT | Solaris | Scriptable | DI/COE Version | Application Type | Pre/Post | Install Guard |
|------------------------------------|------------|---------|-------------|----------------|------------------|----------|---------------|
| Install Shield Professional | X | ? | Proprietary | 4.X | Non Java | X | X |
| Install Shield for Java | X | X | Java Based | 4.x/5.0 | Any | | * |
| Solaris Web Start | | X | Java Based | 5.0 | Solaris Based | | |
| Install Anywhere | X | X | Java Based | ? | Any | X | p |
| InstallManager | X | | Proprietary | 4.X/5.0 | Non Java | | |
| Install Guard | X | ? | N/A | 4.X/5. X | Any | | N/ A |

Regular Expressions



The InstallGuard RulesEditor permits users to define and modify tags.

Install Guard contains a regular expression parser from GNU which can be used to validate tag input.

This provides the government the ability to create and modify templates as the I&RTS is updated.

Business Logic is not implemented for user defined tags

InstallGuard WebSite



<http://www.dtai.com/installguard>

