Java Card Tools for Ant

Packages	
com.sun.javacard.ant.tasks	
com.sun.javacard.ant.types	

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All Classes

APDUToolTask
AppletNameAID
CapDumpTask
CapgenTask
ConverterTask
DeployCapTask
Exp2TextTask
JCAInputFile
JavacardTaskBase
MaskgenTask
ScriptgenTask
VerifierTask
VerifyCapTask
VerifyExpTask
VerifyRevTask

com.sun.javacard.ant.tasks

Class APDUToolTask

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.JavacardTaskBase
                  └com.sun.javacard.ant.tasks.APDUToolTask
```

Direct Known Subclasses:

DeployCapTask

---

public class **APDUToolTask**
extends JavacardTaskBase

This class encapsulates call to APDUTool.

Field Summary

protected boolean	**checkForDownloadFailure** Indicates if download in cref is to be verified
protected java.lang.String	**crefExecutable** cRef executable name and path
protected java.lang.String	**inEEFile** input EEPROM file name (optional)

protected java.lang.String	**outEEFile** output EEPROM file name
protected java.lang.String	**scriptFileName** Fully qualified script file name

Fields inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
bundleName, messages, noBanner, version

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

APDUToolTask()

Method Summary

protected void	**checkForFailures**() If all responses from the card or cref are expected to be 9000, this method is used to verify that.
void	**execute**() Executes the task
protected void	**initCard**() This method starts cref.

protected void	**sendAPDUSToCard**(boolean checkForErrors) Runs the APDUTool to download the APDU script in cref.
void	**setCheckDownloadFailure**(boolean on) Sets/resets the checkForDownloadFailure flag
void	**setCrefExe**(java.lang.String crefExe) Sets the name and path for cref executable
void	**setInEEFile**(java.lang.String inFileName) Sets the EEPROM input file name
void	**setOutEEFile**(java.lang.String outFileName) Sets the EEPROM output file name
void	**setScriptFile**(java.lang.String scriptFileName) Sets the APDU script file name

Methods inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
setNoBanner, setupCommonOptions, setVersion

Methods inherited from class org.apache.tools.ant.taskdefs.Java
addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

scriptFileName

```
protected java.lang.String scriptFileName
```

Fully qualified script file name

---

outEEFile

```
protected java.lang.String outEEFile
```

output EEPROM file name

---

inEEFile

```
protected java.lang.String inEEFile
```

input EEPROM file name (optional)

---

crefExecutable

```
protected java.lang.String crefExecutable
```

cRef executable name and path

---

checkForDownloadFailure

`protected boolean` **`checkForDownloadFailure`**

Indicates if download in cref is to be verified

Constructor Detail

APDUToolTask

`public` **`APDUToolTask`**`()`

Method Detail

setCheckDownloadFailure

`public void` **`setCheckDownloadFailure`**`(boolean on)`

Sets/resets the checkForDownloadFailure flag

Parameters:

`on` - switches the checkForDownloadFailure on or off

---

setOutEEFile

`public void` **`setOutEEFile`**`(java.lang.String outFileName)`

Sets the EEPROM output file name

Parameters:

`outFileName` - is the EEPROM file name

---

setInEEFile

```
public void setInEEFile(java.lang.String inFileName)
```

Sets the EEPROM input file name

Parameters:

`inFileName` - is the EEPROM file name

---

setScriptFile

```
public void setScriptFile(java.lang.String scriptFileName)
```

Sets the APDU script file name

Parameters:

`scriptFileName` - is the script file name

---

setCrefExe

```
public void setCrefExe(java.lang.String crefExe)
```

Sets the name and path for cref executable

Parameters:

`crefExe` - is fully qualified name and path for cref exe

---

initCard

```
protected void initCard()
                throws org.apache.tools.ant.BuildException
```

This method starts cref. In case we want to start a card in order to download the APDU script in the card, a subclass can be written which can override this method to initialize a card instead of cref.

Throws:

`org.apache.tools.ant.BuildException`

---

sendAPDUSToCard

```
protected void sendAPDUSToCard(boolean checkForErrors)
                        throws org.apache.tools.ant.BuildException
```

Runs the APDUTool to download the APDU script in cref. A subclass of this class may override this method to use some other tool to send APDUs to cref or a smart card.

Parameters:

`checkForErrors` - could be set to true if all responses that come back from the card are expected to be 9000 and we need to verify this

Throws:

`org.apache.tools.ant.BuildException`

---

checkForFailures

```
protected void checkForFailures()
                         throws org.apache.tools.ant.BuildException
```

If all responses from the card or cref are expected to be 9000, this method is used to verify that. And if any response is other than 9000, this method throws BuildException that download failed.

Throws:

`org.apache.tools.ant.BuildException`

---

execute

```
public void execute()
            throws org.apache.tools.ant.BuildException
```

Executes the task

Throws:

`org.apache.tools.ant.BuildException`

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Java Card Tools for Ant

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Hierarchy For All Packages

Package Hierarchies:

com.sun.javacard.ant.tasks, com.sun.javacard.ant.types

Class Hierarchy

- class java.lang.Object
  - class com.sun.javacard.ant.types.**AppletNameAID**
  - class com.sun.javacard.ant.types.**JCAInputFile**
  - class org.apache.tools.ant.ProjectComponent
    - class org.apache.tools.ant.Task
      - class org.apache.tools.ant.taskdefs.Java
        - class com.sun.javacard.ant.tasks.**CapDumpTask**
        - class com.sun.javacard.ant.tasks.**JavacardTaskBase**
          - class com.sun.javacard.ant.tasks.**APDUToolTask**
            - class com.sun.javacard.ant.tasks.**DeployCapTask**
          - class com.sun.javacard.ant.tasks.**CapgenTask**
          - class com.sun.javacard.ant.tasks.**ConverterTask**
          - class com.sun.javacard.ant.tasks.**Exp2TextTask**
          - class com.sun.javacard.ant.tasks.**MaskgenTask**
          - class com.sun.javacard.ant.tasks.**ScriptgenTask**
          - class com.sun.javacard.ant.tasks.**VerifierTask**
            - class com.sun.javacard.ant.tasks.**VerifyCapTask**
            - class com.sun.javacard.ant.tasks.**VerifyExpTask**
            - class com.sun.javacard.ant.tasks.**VerifyRevTask**

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Deprecated API

Overview Package Class **Tree** **Deprecated** **Index** **Help**

PREV NEXT **FRAMES** **NO FRAMES** **All Classes**

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A

APDUToolTask - class com.sun.javacard.ant.tasks.APDUToolTask.
This class encapsulates call to APDUTool.
APDUToolTask() - Constructor for class com.sun.javacard.ant.tasks.APDUToolTask

AppletNameAID - class com.sun.javacard.ant.types.AppletNameAID.
Defines the appletnameaid the link beween Applet name and instance aid defined like aid="A0:01:02:03:04:05:06"/>
AppletNameAID() - Constructor for class com.sun.javacard.ant.types.AppletNameAID

addConfiguredAppletnameaid(AppletNameAID) - Method in class com.sun.javacard.ant.tasks.ConverterTask
Adds the applet names instance aids can be several
addExportFiles(FileSet) - Method in class com.sun.javacard.ant.tasks.VerifierTask
adds export file set to the export file set list
addJCAInputFile(JCAInputFile) - Method in class com.sun.javacard.ant.tasks.MaskgenTask
adds an input JCA file
aid - Variable in class com.sun.javacard.ant.types.AppletNameAID
Applet AID
appletname - Variable in class com.sun.javacard.ant.types.AppletNameAID
Applet name
applets - Variable in class com.sun.javacard.ant.tasks.ConverterTask
List of applets in the package being converted

B

bundleName - Static variable in class com.sun.javacard.ant.tasks.CapDumpTask

bundleName - Static variable in class com.sun.javacard.ant.tasks.JavacardTaskBase

C

CapDumpTask - class com.sun.javacard.ant.tasks.CapDumpTask.
Dumps contents of a CAP file Wraps the call to "com.sun.javacard.capdump.CapDump" in its own Ant task derived from the standard Java Task that comes with the Ant distribution.
CapDumpTask() - Constructor for class com.sun.javacard.ant.tasks.CapDumpTask

CapgenTask - class com.sun.javacard.ant.tasks.CapgenTask.
Encapsulates call to Capgen to generate a CAP file
CapgenTask() - Constructor for class com.sun.javacard.ant.tasks.CapgenTask

ConverterTask - class com.sun.javacard.ant.tasks.ConverterTask.
Defines an ANT task to run the Java Card(TM) converter.
ConverterTask() - Constructor for class com.sun.javacard.ant.tasks.ConverterTask

capName - Variable in class com.sun.javacard.ant.tasks.CapDumpTask
CAP file name
capName - Variable in class com.sun.javacard.ant.tasks.DeployCapTask
CAP file to be deployed
capName - Variable in class com.sun.javacard.ant.tasks.ScriptgenTask
Name of CAP file
capName - Variable in class com.sun.javacard.ant.tasks.VerifyCapTask
Name and path of the CAP file
checkForDownloadFailure - Variable in class com.sun.javacard.ant.tasks.APDUToolTask
Indicates if download in cref is to be verified
checkForFailures() - Method in class com.sun.javacard.ant.tasks.APDUToolTask
If all responses from the card or cref are expected to be 9000, this method is used to verify that.
classDir - Variable in class com.sun.javacard.ant.tasks.ConverterTask
base class directory
classDir - Variable in class com.sun.javacard.ant.tasks.Exp2TextTask
Class directory
className - Static variable in class com.sun.javacard.ant.tasks.CapDumpTask
Name of main CapDump class
className - Static variable in class com.sun.javacard.ant.tasks.MaskgenTask
Maskgen class name
com.sun.javacard.ant.tasks - package com.sun.javacard.ant.tasks

com.sun.javacard.ant.types - package com.sun.javacard.ant.types

configFileName - Variable in class com.sun.javacard.ant.tasks.MaskgenTask
configuration file name
configfile - Variable in class com.sun.javacard.ant.tasks.ConverterTask
configuration file
createExportpath() - Method in class com.sun.javacard.ant.tasks.ConverterTask
used to handle a nested path element for the export file path
crefExecutable - Variable in class com.sun.javacard.ant.tasks.APDUToolTask
cRef executable name and path

D

DeployCapTask - class com.sun.javacard.ant.tasks.DeployCapTask.
This class encapsulates call to scriptgen, cref and APDUtool to download a CAP file in cref and generate a resulting EEPROM image
DeployCapTask() - Constructor for class com.sun.javacard.ant.tasks.DeployCapTask

debug - Variable in class com.sun.javacard.ant.tasks.ConverterTask
Flag to indicate if debug flag should be on or off
debugInfo - Variable in class com.sun.javacard.ant.tasks.MaskgenTask
indicates if debugInfo flag is to be set or not

E

Exp2TextTask - class com.sun.javacard.ant.tasks.Exp2TextTask.
Convertes the export file of a package to a text file Wraps the call to "com.sun.javacard. converter.Exp2Text" in its own Ant task derived from the standard Java Task that comes with the Ant distribution.
Exp2TextTask() - Constructor for class com.sun.javacard.ant.tasks.Exp2TextTask

eol - Static variable in class com.sun.javacard.ant.tasks.DeployCapTask
End of line for current platform
execute() - Method in class com.sun.javacard.ant.tasks.APDUToolTask
Executes the task
execute() - Method in class com.sun.javacard.ant.tasks.CapDumpTask
Executes the task

execute() - Method in class com.sun.javacard.ant.tasks.CapgenTask
Executes the task
execute() - Method in class com.sun.javacard.ant.tasks.ConverterTask
Builds the commandline of the converter and starts the converter.
execute() - Method in class com.sun.javacard.ant.tasks.DeployCapTask
Executes the task
execute() - Method in class com.sun.javacard.ant.tasks.Exp2TextTask
Executes the task
execute() - Method in class com.sun.javacard.ant.tasks.MaskgenTask
Executes the task
execute() - Method in class com.sun.javacard.ant.tasks.ScriptgenTask
Executes the task
execute() - Method in class com.sun.javacard.ant.tasks.VerifyCapTask
Builds the commandline of the verifier and starts the verifier.
execute() - Method in class com.sun.javacard.ant.tasks.VerifyExpTask
Builds the commandline of the verifier and starts the verifier.
execute() - Method in class com.sun.javacard.ant.tasks.VerifyRevTask
Builds the commandline of the verifier and starts the verifier.
exportFileSets - Variable in class com.sun.javacard.ant.tasks.VerifierTask
list of file sets containing export files
exportFiles - Variable in class com.sun.javacard.ant.tasks.VerifierTask
list of export files
exportPath - Variable in class com.sun.javacard.ant.tasks.ConverterTask
path to export files
exportmap - Variable in class com.sun.javacard.ant.tasks.ConverterTask
Indicates if exportmap option should be used
extractFileNames(FileSet) - Method in class com.sun.javacard.ant.tasks.VerifierTask
Extracts file names from a file set and puts them along with their fully qualified paths in exportFiles arrayList.

F

footer - Static variable in class com.sun.javacard.ant.tasks.DeployCapTask

---

G

generateScriptFile() - Method in class com.sun.javacard.ant.tasks.DeployCapTask
Prepares the APDU script file for download into the card.
generator - Variable in class com.sun.javacard.ant.tasks.MaskgenTask
Generator (could be cref, jref etc)
getAid() - Method in class com.sun.javacard.ant.types.AppletNameAID
Returns the aid of the applet instance
getAppletname() - Method in class com.sun.javacard.ant.types.AppletNameAID
Returns the applet name
getInputFileName() - Method in class com.sun.javacard.ant.types.JCAInputFile
Returns the applet name

H

header - Static variable in class com.sun.javacard.ant.tasks.DeployCapTask

---

I

inEEFile - Variable in class com.sun.javacard.ant.tasks.APDUToolTask
input EEPROM file name (optional)
initCard() - Method in class com.sun.javacard.ant.tasks.APDUToolTask
This method starts cref.
inputJCAs - Variable in class com.sun.javacard.ant.tasks.MaskgenTask
List of input JCA files
intSupport - Variable in class com.sun.javacard.ant.tasks.ConverterTask
Indicates if int support is required for the package being converted
isNull() - Method in class com.sun.javacard.ant.types.AppletNameAID
Checks that appletname and aid is not null

J

JCAFileName - Variable in class com.sun.javacard.ant.tasks.CapgenTask

Input JCA file name

JCAInputFile - class com.sun.javacard.ant.types.JCAInputFile.

Encapsulates a JCA input file name.

JCAInputFile() - Constructor for class com.sun.javacard.ant.types.JCAInputFile

JavacardTaskBase - class com.sun.javacard.ant.tasks.JavacardTaskBase.

This class serves as the base class for all Java Card ant tasks

JavacardTaskBase() - Constructor for class com.sun.javacard.ant.tasks.JavacardTaskBase

---

M

MaskgenTask - class com.sun.javacard.ant.tasks.MaskgenTask.

Encapsulates call to Maskgen to generate a mask file from input JCA files

MaskgenTask() - Constructor for class com.sun.javacard.ant.tasks.MaskgenTask

majorminorVersion - Variable in class com.sun.javacard.ant.tasks.ConverterTask

package version number (combination of minor and major version numbers)

mask - Variable in class com.sun.javacard.ant.tasks.ConverterTask

Indicates if this package is to be included in mask (rules on native methods are eased for this package)

mem32BitFlag - Variable in class com.sun.javacard.ant.tasks.MaskgenTask

flag to indicate if 32-bit reference size is to be used or not

messages - Static variable in class com.sun.javacard.ant.tasks.CapDumpTask

properties bundle file that has the internationalized messages

messages - Static variable in class com.sun.javacard.ant.tasks.JavacardTaskBase

properties bundle file that has the internationalized messages

---

N

noBanner - Variable in class com.sun.javacard.ant.tasks.JavacardTaskBase

Sets the noBanner option for java card tools

noBeginEnd - Variable in class com.sun.javacard.ant.tasks.ScriptgenTask

If this paramter is true, CAP Begin and CAP end are not included in the script file

noWarn - Variable in class com.sun.javacard.ant.tasks.VerifierTask

Turns on (or off) the noWarn flag for verifier tools

noverify - Variable in class com.sun.javacard.ant.tasks.ConverterTask
Indicates if verification is going to be performed after conversion or not
nowarn - Variable in class com.sun.javacard.ant.tasks.ConverterTask
indicates if converter should output warning messages or not

O

outCAP - Variable in class com.sun.javacard.ant.tasks.ConverterTask
Turns the output of CAP file on or off
outEEFile - Variable in class com.sun.javacard.ant.tasks.APDUToolTask
output EEPROM file name
outEXP - Variable in class com.sun.javacard.ant.tasks.ConverterTask
Turns the output of EXP file on or off
outFileName - Variable in class com.sun.javacard.ant.tasks.CapgenTask
Output file name
outFileName - Variable in class com.sun.javacard.ant.tasks.MaskgenTask
Output file name
outFileName - Variable in class com.sun.javacard.ant.tasks.ScriptgenTask
output file name
outJCA - Variable in class com.sun.javacard.ant.tasks.ConverterTask
Turns the output of JCA file on or off
outputDir - Variable in class com.sun.javacard.ant.tasks.ConverterTask
output directory
outputDir - Variable in class com.sun.javacard.ant.tasks.Exp2TextTask
output directory

P

packageAID - Variable in class com.sun.javacard.ant.tasks.ConverterTask
package AID
packageName - Variable in class com.sun.javacard.ant.tasks.ConverterTask
package name
packageName - Variable in class com.sun.javacard.ant.tasks.Exp2TextTask
Package name
pkgName - Variable in class com.sun.javacard.ant.tasks.ScriptgenTask
Name of the package

pkgName - Variable in class com.sun.javacard.ant.tasks.VerifyCapTask
Package Name

S

ScriptgenTask - class com.sun.javacard.ant.tasks.ScriptgenTask.
This class is responsible for invoking Scriptgen to generate APDU script files from CAP files.
ScriptgenTask() - Constructor for class com.sun.javacard.ant.tasks.ScriptgenTask

scriptFileName - Variable in class com.sun.javacard.ant.tasks.APDUToolTask
Fully qualified script file name
sendAPDUSToCard(boolean) - Method in class com.sun.javacard.ant.tasks.APDUToolTask
Runs the APDUTool to download the APDU script in cref.
setAid(String) - Method in class com.sun.javacard.ant.types.AppletNameAID
Sets the applet instance aid
setAppletname(String) - Method in class com.sun.javacard.ant.types.AppletNameAID
Set the Applet name
setCap(boolean) - Method in class com.sun.javacard.ant.tasks.ConverterTask
switches CAP file generation in the output
setCapFile(String) - Method in class com.sun.javacard.ant.tasks.CapDumpTask
sets the cap file name
setCapFile(String) - Method in class com.sun.javacard.ant.tasks.DeployCapTask
Sets cap file name
setCapFile(String) - Method in class com.sun.javacard.ant.tasks.ScriptgenTask
Sets cap file name
setCapFile(String) - Method in class com.sun.javacard.ant.tasks.VerifyCapTask
Sets cap file name
setCheckDownloadFailure(boolean) - Method in class com.sun.javacard.ant.tasks.APDUToolTask
Sets/resets the checkForDownloadFailure flag
setClassDir(Path) - Method in class com.sun.javacard.ant.tasks.Exp2TextTask
Sets the path to the classdirectory of the package
setClassdir(Path) - Method in class com.sun.javacard.ant.tasks.ConverterTask
set the path to the class directory of the package
setConfigFile(String) - Method in class com.sun.javacard.ant.tasks.MaskgenTask
sets the configuration file name
setConfigfile(File) - Method in class com.sun.javacard.ant.tasks.ConverterTask
Set the location of the config file, overrides all other settings
setCrefExe(String) - Method in class com.sun.javacard.ant.tasks.APDUToolTask

Sets the name and path for cref executable
setDebug(boolean) - Method in class com.sun.javacard.ant.tasks.ConverterTask
set the debug flag
setDebugInfo(boolean) - Method in class com.sun.javacard.ant.tasks.MaskgenTask

setExp(boolean) - Method in class com.sun.javacard.ant.tasks.ConverterTask
switches EXP file generation in the output
setExportmap(boolean) - Method in class com.sun.javacard.ant.tasks.ConverterTask
set the exportmap flag
setExportpath(Path) - Method in class com.sun.javacard.ant.tasks.ConverterTask
set path to the export files that should be used to generate the export file of the package
setExportpathRef(Reference) - Method in class com.sun.javacard.ant.tasks.ConverterTask
set a refernce to a path element for the export file path
setGenerator(String) - Method in class com.sun.javacard.ant.tasks.MaskgenTask
sets the generator (cref, jref etc)
setInEEFile(String) - Method in class com.sun.javacard.ant.tasks.APDUToolTask
Sets the EEPROM input file name
setInputFile(String) - Method in class com.sun.javacard.ant.types.JCAInputFile
Set input file name
setInt(boolean) - Method in class com.sun.javacard.ant.tasks.ConverterTask
switches int support
setJCAFile(String) - Method in class com.sun.javacard.ant.tasks.CapgenTask
sets the input JCA file name
setJca(boolean) - Method in class com.sun.javacard.ant.tasks.ConverterTask
switches JCA file generation in the output
setMajorminorversion(String) - Method in class com.sun.javacard.ant.tasks.ConverterTask
set the major and minor version as one String
setMask(boolean) - Method in class com.sun.javacard.ant.tasks.ConverterTask
switches maks generation
setMemRefSize(int) - Method in class com.sun.javacard.ant.tasks.MaskgenTask
sets the memory reference size
setNoBanner(boolean) - Method in class com.sun.javacard.ant.tasks.JavacardTaskBase
switches the nobanner flag on or off
setNoBeginEnd(boolean) - Method in class com.sun.javacard.ant.tasks.ScriptgenTask
Sets noBeginEnd value to the requested value
setNoWarn(boolean) - Method in class com.sun.javacard.ant.tasks.VerifierTask
switches the noWarn flag
setNoverify(boolean) - Method in class com.sun.javacard.ant.tasks.ConverterTask
switches the noverfier flag.
setNowarn(boolean) - Method in class com.sun.javacard.ant.tasks.ConverterTask

switches the nowarn flag
setOutEEFile(String) - Method in class com.sun.javacard.ant.tasks.APDUToolTask
Sets the EEPROM output file name
setOutFile(String) - Method in class com.sun.javacard.ant.tasks.CapgenTask
sets the output file name
setOutFile(String) - Method in class com.sun.javacard.ant.tasks.MaskgenTask
sets the output file name
setOutFile(String) - Method in class com.sun.javacard.ant.tasks.ScriptgenTask
Sets output file name
setOutputDir(Path) - Method in class com.sun.javacard.ant.tasks.Exp2TextTask
Set the path to the output directory for the text file
setOutputdirectory(Path) - Method in class com.sun.javacard.ant.tasks.ConverterTask
set the path to the output directory for the cap, exp and jca files
setPackageName(String) - Method in class com.sun.javacard.ant.tasks.ConverterTask
sets the package name
setPackageName(String) - Method in class com.sun.javacard.ant.tasks.Exp2TextTask
sets the package name
setPackageaid(String) - Method in class com.sun.javacard.ant.tasks.ConverterTask
set the package AID of the package to be coverted
setPkgName(String) - Method in class com.sun.javacard.ant.tasks.ScriptgenTask
Sets the package name for verifier
setPkgName(String) - Method in class com.sun.javacard.ant.tasks.VerifyCapTask
Sets the package name for verifier
setScriptFile(String) - Method in class com.sun.javacard.ant.tasks.APDUToolTask
Sets the APDU script file name
setVerbose(boolean) - Method in class com.sun.javacard.ant.tasks.ConverterTask
switches the verbose flag
setVerbose(boolean) - Method in class com.sun.javacard.ant.tasks.VerifierTask
switches the verbose flag
setVersion(boolean) - Method in class com.sun.javacard.ant.tasks.JavacardTaskBase
switches the version flag on or off
setupCommandLineOptions() - Method in class com.sun.javacard.ant.tasks.VerifierTask
This method sets the common command line options for the verifier tools
setupCommonOptions() - Method in class com.sun.javacard.ant.tasks.JavacardTaskBase
Sets the nobanner option (if it is true) on the command line

T

toString() - Method in class com.sun.javacard.ant.types.AppletNameAID
returns the two elements as a string

V

VerifierTask - class com.sun.javacard.ant.tasks.VerifierTask.
This is the base class for all verifier tasks
VerifierTask() - Constructor for class com.sun.javacard.ant.tasks.VerifierTask

VerifyCapTask - class com.sun.javacard.ant.tasks.VerifyCapTask.
This class is responsible for invoking Verifier to verify a CAP file.
VerifyCapTask() - Constructor for class com.sun.javacard.ant.tasks.VerifyCapTask

VerifyExpTask - class com.sun.javacard.ant.tasks.VerifyExpTask.
This class implements the task for VerifyExp.
VerifyExpTask() - Constructor for class com.sun.javacard.ant.tasks.VerifyExpTask

VerifyRevTask - class com.sun.javacard.ant.tasks.VerifyRevTask.
This class implements the task for VerifyRev.
VerifyRevTask() - Constructor for class com.sun.javacard.ant.tasks.VerifyRevTask

verbose - Variable in class com.sun.javacard.ant.tasks.ConverterTask
Indicates if verbose flag is on or off
verbose - Variable in class com.sun.javacard.ant.tasks.VerifierTask
Turns on (or off) the verbose flag for verifier tools
version - Variable in class com.sun.javacard.ant.tasks.JavacardTaskBase
Sets the version option for java card tools

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How This API Document Is Organized

This API (Application Programming Interface) document has pages corresponding to the items in the navigation bar, described as follows.

Overview

The Overview page is the front page of this API document and provides a list of all packages with a summary for each. This page can also contain an overall description of the set of packages.

Package

Each package has a page that contains a list of its classes and interfaces, with a summary for each. This page can contain four categories:

- Interfaces (italic)
- Classes
- Exceptions
- Errors

Class/Interface

Each class, interface, nested class and nested interface has its own separate page. Each of these pages has three sections consisting of a class/interface description, summary tables, and detailed member descriptions:

- Class inheritance diagram
- Direct Subclasses
- All Known Subinterfaces
- All Known Implementing Classes
- Class/interface declaration
- Class/interface description

- Nested Class Summary
- Field Summary

- Constructor Summary
- Method Summary

- Field Detail
- Constructor Detail
- Method Detail

Each summary entry contains the first sentence from the detailed description for that item. The summary entries are alphabetical, while the detailed descriptions are in the order they appear in the source code. This preserves the logical groupings established by the programmer.

Tree (Class Hierarchy)

There is a Class Hierarchy page for all packages, plus a hierarchy for each package. Each hierarchy page contains a list of classes and a list of interfaces. The classes are organized by inheritance structure starting with `java.lang.Object`. The interfaces do not inherit from `java.lang.Object`.

- When viewing the Overview page, clicking on "Tree" displays the hierarchy for all packages.
- When viewing a particular package, class or interface page, clicking "Tree" displays the hierarchy for only that package.

Deprecated API

The Deprecated API page lists all of the API that have been deprecated. A deprecated API is not recommended for use, generally due to improvements, and a replacement API is usually given. Deprecated APIs may be removed in future implementations.

Index

The Index contains an alphabetic list of all classes, interfaces, constructors, methods, and fields.

Prev/Next

These links take you to the next or previous class, interface, package, or related page.

Frames/No Frames

These links show and hide the HTML frames. All pages are available with or without frames.

Serialized Form

Each serializable or externalizable class has a description of its serialization fields and methods. This information is of interest to re-implementors, not to developers using the API. While there is no link in the navigation bar, you can get to this information by going to any serialized class and clicking "Serialized Form" in the "See also" section of the class description.

This help file applies to API documentation generated using the standard doclet.

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Package com.sun.javacard.ant.tasks

Class Summary	
APDUToolTask	This class encapsulates call to APDUTool.
CapDumpTask	Dumps contents of a CAP file Wraps the call to "com.sun.javacard.capdump.CapDump" in its own Ant task derived from the standard Java Task that comes with the Ant distribution.
CapgenTask	Encapsulates call to Capgen to generate a CAP file
ConverterTask	Defines an ANT task to run the Java Card(TM) converter.
DeployCapTask	This class encapsulates call to scriptgen, cref and APDUtool to download a CAP file in cref and generate a resulting EEPROM image
Exp2TextTask	Convertes the export file of a package to a text file Wraps the call to "com.sun.javacard.converter.Exp2Text" in its own Ant task derived from the standard Java Task that comes with the Ant distribution.
JavacardTaskBase	This class serves as the base class for all Java Card ant tasks
MaskgenTask	Encapsulates call to Maskgen to generate a mask file from input JCA files
ScriptgenTask	This class is responsible for invoking Scriptgen to generate APDU script files from CAP files.
VerifierTask	This is the base class for all verifier tasks
VerifyCapTask	This class is responsible for invoking Verifier to verify a CAP file.
VerifyExpTask	This class implements the task for VerifyExp.
VerifyRevTask	This class implements the task for VerifyRev.

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Hierarchy For Package com.sun.javacard.ant.tasks

Package Hierarchies:

All Packages

Class Hierarchy

- class java.lang.Object
  - class org.apache.tools.ant.ProjectComponent
    - class org.apache.tools.ant.Task
      - class org.apache.tools.ant.taskdefs.Java
        - class com.sun.javacard.ant.tasks.**CapDumpTask**
        - class com.sun.javacard.ant.tasks.**JavacardTaskBase**
          - class com.sun.javacard.ant.tasks.**APDUToolTask**
            - class com.sun.javacard.ant.tasks.**DeployCapTask**
          - class com.sun.javacard.ant.tasks.**CapgenTask**
          - class com.sun.javacard.ant.tasks.**ConverterTask**
          - class com.sun.javacard.ant.tasks.**Exp2TextTask**
          - class com.sun.javacard.ant.tasks.**MaskgenTask**
          - class com.sun.javacard.ant.tasks.**ScriptgenTask**
          - class com.sun.javacard.ant.tasks.**VerifierTask**
            - class com.sun.javacard.ant.tasks.**VerifyCapTask**
            - class com.sun.javacard.ant.tasks.**VerifyExpTask**
            - class com.sun.javacard.ant.tasks.**VerifyRevTask**

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All Classes

APDUToolTask
AppletNameAID
CapDumpTask
CapgenTask
ConverterTask
DeployCapTask
Exp2TextTask
JCAInputFile
JavacardTaskBase
MaskgenTask
ScriptgenTask
VerifierTask
VerifyCapTask
VerifyExpTask
VerifyRevTask

com.sun.javacard.ant.types

Class AppletNameAID

```
java.lang.Object
  └ com.sun.javacard.ant.types.AppletNameAID
```

public class **AppletNameAID**
extends java.lang.Object

Defines the appletnameaid the link beween Applet name and instance aid defined like aid="A0:01:02:03:04:05:06"/>

Field Summary

protected java.lang.String	**aid** Applet AID
protected java.lang.String	**appletname** Applet name

Constructor Summary

AppletNameAID()

Method Summary

java.lang.String	**getAid**() Returns the aid of the applet instance
java.lang.String	**getAppletname**() Returns the applet name
boolean	**isNull**() Checks that appletname and aid is not null
void	**setAid**(java.lang.String aid) Sets the applet instance aid
void	**setAppletname**(java.lang.String name) Set the Applet name
java.lang.String	**toString**() returns the two elements as a string

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

appletname

```
protected java.lang.String appletname
```

Applet name

---

aid

```
protected java.lang.String aid
```

Applet AID

Constructor Detail

AppletNameAID

```
public AppletNameAID()
```

Method Detail

setAppletname

```
public void setAppletname(java.lang.String name)
```

Set the Applet name

Parameters:

`name` - of the Applet class

---

setAid

```
public void setAid(java.lang.String aid)
```

Sets the applet instance aid

Parameters:

`aid` - aid of the applet instance as a String

---

getAppletname

```
public java.lang.String getAppletname()
```

Returns the applet name

Returns:

appletname

getAid

```
public java.lang.String getAid()
```

Returns the aid of the applet instance

Returns:
aid of the applet instance

---

isNull

```
public boolean isNull()
```

Checks that appletname and aid is not null

Returns:
true if one of the elements is null

---

toString

```
public java.lang.String toString()
```

returns the two elements as a string

Returns:
appletname:aid as String

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Package com.sun.javacard.ant.types

Class Summary	
AppletNameAID	Defines the appletnameaid the link beween Applet name and instance aid defined like aid="A0:01:02:03:04:05:06"/>
JCAInputFile	Encapsulates a JCA input file name.

Overview Package Class Tree Deprecated Index Help

PREV PACKAGE NEXT PACKAGE FRAMES NO FRAMES All Classes

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Hierarchy For Package com.sun.javacard.ant.types

Package Hierarchies:

All Packages

Class Hierarchy

- class java.lang.Object
  - class com.sun.javacard.ant.types.**AppletNameAID**
  - class com.sun.javacard.ant.types.**JCAInputFile**

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com.sun.javacard.ant.types

Class JCAInputFile

```
java.lang.Object
  └ com.sun.javacard.ant.types.JCAInputFile
```

public class **JCAInputFile**
extends java.lang.Object

Encapsulates a JCA input file name. Other option was to use FileSet class or FileList class, but the problem is that both of these do not support a file name starting with the symbol @ which is supported by Maskgen.

Constructor Summary

JCAInputFile()

Method Summary

java.lang.String	**getInputFileName**() Returns the applet name
void	**setInputFile**(java.lang.String name) Set input file name

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

JCAInputFile

```
public JCAInputFile()
```

Method Detail

setInputFile

```
public void setInputFile(java.lang.String name)
```

Set input file name

Parameters:

`name` - of the Applet class

---

getInputFileName

```
public java.lang.String getInputFileName()
```

Returns the applet name

Returns:

appletname

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com.sun.javacard.ant.tasks

Class CapDumpTask

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.CapDumpTask
```

public class **CapDumpTask**
extends org.apache.tools.ant.taskdefs.Java

Dumps contents of a CAP file Wraps the call to "com.sun.javacard.capdump.CapDump" in its own Ant task derived from the standard Java Task that comes with the Ant distribution. The "fork" value is always set to true for this task, because we want to know the exit code.

Field Summary

protected static java.lang.String	**bundleName**
protected java.lang.String	**capName** CAP file name
protected static java.lang.String	**className** Name of main CapDump class

protected static java.util.ResourceBundle	**messages** properties bundle file that has the internationalized messages

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

CapDumpTask()

Method Summary

void	**execute**() Executes the task
void	**setCapFile**(java.lang.String capName) sets the cap file name

Methods inherited from class org.apache.tools.ant.taskdefs.Java

addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

bundleName

```
protected static final java.lang.String bundleName
```

See Also:

Constant Field Values

---

messages

```
protected static java.util.ResourceBundle messages
```

properties bundle file that has the internationalized messages

---

className

```
protected static final java.lang.String className
```

Name of main CapDump class

See Also:

Constant Field Values

---

capName

```
protected java.lang.String capName
```

CAP file name

Constructor Detail

CapDumpTask

```
public CapDumpTask()
```

Method Detail

setCapFile

```
public void setCapFile(java.lang.String capName)
```

sets the cap file name

Parameters:

`capName` - the name of the CAP file

---

execute

```
public void execute()
            throws org.apache.tools.ant.BuildException
```

Executes the task

Throws:

`org.apache.tools.ant.BuildException`

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com.sun.javacard.ant.tasks

Class CapgenTask

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.JavacardTaskBase
                  └com.sun.javacard.ant.tasks.CapgenTask
```

public class **CapgenTask**
extends JavacardTaskBase

Encapsulates call to Capgen to generate a CAP file

Field Summary

protected java.lang.String	**JCAFileName** Input JCA file name
protected java.lang.String	**outFileName** Output file name

Fields inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase

bundleName, messages, noBanner, version

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

CapgenTask()

Method Summary

void	**execute**() Executes the task
void	**setJCAFile**(java.lang.String jcaFileName) sets the input JCA file name
void	**setOutFile**(java.lang.String outputFile) sets the output file name

Methods inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
setNoBanner, setupCommonOptions, setVersion

Methods inherited from class org.apache.tools.ant.taskdefs.Java

addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

outFileName

protected java.lang.String **outFileName**

Output file name

JCAFileName

```
protected java.lang.String JCAFileName
```

Input JCA file name

Constructor Detail

CapgenTask

```
public CapgenTask()
```

Method Detail

setOutFile

```
public void setOutFile(java.lang.String outputFile)
```

sets the output file name

Parameters:

`outputFile` - the name of the output file

---

setJCAFile

```
public void setJCAFile(java.lang.String jcaFileName)
```

sets the input JCA file name

Parameters:

`jcaFileName` - is input JCA file name

---

execute

```
public void execute()
            throws org.apache.tools.ant.BuildException
```

Executes the task

Throws:

`org.apache.tools.ant.BuildException`

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com.sun.javacard.ant.tasks

Class ConverterTask

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.JavacardTaskBase
                  └com.sun.javacard.ant.tasks.ConverterTask
```

public class **ConverterTask**
extends JavacardTaskBase

Defines an ANT task to run the Java Card(TM) converter. See the http://java.sun.com/prodcuts.javacard for more informations. Wraps the call com.sun.javacard.converter.Converter in its own Ant task derived from the standard Java Task that comes with the Ant distribution.

Field Summary

protected java.util.ArrayList	**applets** List of applets in the package being converted
protected org.apache.tools.ant.types.Path	**classDir** base class directory

protected java.io.File	**configfile** configuration file
protected boolean	**debug** Flag to indicate if debug flag should be on or off
protected boolean	**exportmap** Indicates if exportmap option should be used
protected org.apache.tools.ant.types.Path	**exportPath** path to export files
protected boolean	**intSupport** Indicates if int support is required for the package being converted
protected java.lang.String	**majorminorVersion** package version number (combination of minor and major version numbers)
protected boolean	**mask** Indicates if this package is to be included in mask (rules on native methods are eased for this package)
protected boolean	**noverify** Indicates if verification is going to be performed after conversion or not
protected boolean	**nowarn** indicates if converter should output warning messages or not
protected boolean	**outCAP** Turns the output of CAP file on or off
protected boolean	**outEXP** Turns the output of EXP file on or off
protected boolean	**outJCA** Turns the output of JCA file on or off
protected org.apache.tools.ant.types.Path	**outputDir** output directory

protected java.lang.String	**packageAID** package AID
protected java.lang.String	**packageName** package name
protected boolean	**verbose** Indicates if verbose flag is on or off

Fields inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
bundleName, messages, noBanner, version

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

ConverterTask()

Method Summary

void	**addConfiguredAppletnameaid**(AppletNameAID appletaid) Adds the applet names instance aids can be several

org.apache.tools.ant.types.Path	**createExportpath**() used to handle a nested path element for the export file path
void	**execute**() Builds the commandline of the converter and starts the converter.
void	**setCap**(boolean on) switches CAP file generation in the output
void	**setClassdir**(org.apache.tools.ant.types.Path classdir) set the path to the class directory of the package
void	**setConfigfile**(java.io.File config) Set the location of the config file, overrides all other settings
void	**setDebug**(boolean on) set the debug flag
void	**setExp**(boolean on) switches EXP file generation in the output
void	**setExportmap**(boolean on) set the exportmap flag
void	**setExportpath**(org.apache.tools.ant.types.Path exportPath) set path to the export files that should be used to generate the export file of the package
void	**setExportpathRef**(org.apache.tools.ant.types.Reference r) set a refernce to a path element for the export file path
void	**setInt**(boolean on) switches int support
void	**setJca**(boolean on) switches JCA file generation in the output
void	**setMajorminorversion**(java.lang.String majorMinor) set the major and minor version as one String
void	**setMask**(boolean on) switches maks generation

void	**setNoverify**(boolean on) switches the noverfier flag.
void	**setNowarn**(boolean on) switches the nowarn flag
void	**setOutputdirectory**(org.apache.tools.ant.types.Path dir) set the path to the output directory for the cap, exp and jca files
void	**setPackageaid**(java.lang.String packageAid) set the package AID of the package to be coverted
void	**setPackageName**(java.lang.String packageName) sets the package name
void	**setVerbose**(boolean on) switches the verbose flag

Methods inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
setNoBanner, setupCommonOptions, setVersion

Methods inherited from class org.apache.tools.ant.taskdefs.Java
addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

packageName

```
protected java.lang.String packageName
```

package name

---

packageAID

```
protected java.lang.String packageAID
```

package AID

---

majorminorVersion

```
protected java.lang.String majorminorVersion
```

package version number (combination of minor and major version numbers)

---

applets

```
protected java.util.ArrayList applets
```

List of applets in the package being converted

---

classDir

```
protected org.apache.tools.ant.types.Path classDir
```

base class directory

---

outputDir

```
protected org.apache.tools.ant.types.Path outputDir
```

output directory

---

debug

```
protected boolean debug
```

Flag to indicate if debug flag should be on or off

---

exportmap

```
protected boolean exportmap
```

Indicates if exportmap option should be used

---

exportPath

```
protected org.apache.tools.ant.types.Path exportPath
```

path to export files

---

intSupport

`protected boolean **intSupport**`

Indicates if int support is required for the package being converted

---

mask

`protected boolean **mask**`

Indicates if this package is to be included in mask (rules on native methods are eased for this package)

---

noverify

`protected boolean **noverify**`

Indicates if verification is going to be performed after conversion or not

---

nowarn

`protected boolean **nowarn**`

indicates if converter should output warning messages or not

---

outCAP

`protected boolean **outCAP**`

Turns the output of CAP file on or off

---

outJCA

`protected boolean **outJCA**`

Turns the output of JCA file on or off

---

outEXP

`protected boolean **outEXP**`

Turns the output of EXP file on or off

---

verbose

`protected boolean **verbose**`

Indicates if verbose flag is on or off

---

configfile

`protected java.io.File **configfile**`

configuration file

Constructor Detail

ConverterTask

```
public ConverterTask()
```

Method Detail

setPackageName

```
public void setPackageName(java.lang.String packageName)
```

sets the package name

Parameters:

`packageName` - full qualified name of the package to convert

---

setPackageaid

```
public void setPackageaid(java.lang.String packageAid)
```

set the package AID of the package to be coverted

Parameters:

`packageAid` - AID of the package

---

setMajorminorversion

```
public void setMajorminorversion(java.lang.String majorMinor)
```

set the major and minor version as one String

Parameters:

`majorMinor` - version in the form e.g. 1.3

---

setClassdir

```
public void setClassdir(org.apache.tools.ant.types.Path classdir)
```

set the path to the class directory of the package

Parameters:

`classdir` - path to the class directory of the package

---

setOutputdirectory

```
public void setOutputdirectory(org.apache.tools.ant.types.Path dir)
```

set the path to the output directory for the cap, exp and jca files

Parameters:

`dir` - to the outpur directory

---

setDebug

```
public void setDebug(boolean on)
```

set the debug flag

Parameters:

`on` - switches the debug flag on or of

---

setExportmap

```
public void setExportmap(boolean on)
```

set the exportmap flag

Parameters:

`on` - switches the exportmap flag on or of

---

setExportpath

`public void **setExportpath**(org.apache.tools.ant.types.Path exportPath)`

set path to the export files that should be used to generate the export file of the package

Parameters:
`exportPath` - path to the export files

---

createExportpath

`public org.apache.tools.ant.types.Path **createExportpath**()`

used to handle a nested path element for the export file path

---

addConfiguredAppletnameaid

`public void **addConfiguredAppletnameaid**(AppletNameAID appletaid)`

Adds the applet names instance aids can be several

Parameters:
`appletaid` - combination of applet name and aid

---

setExportpathRef

`public void **setExportpathRef**(org.apache.tools.ant.types.Reference r)`

set a refernce to a path element for the export file path

Parameters:
`r` - a reference to the exportfiles path

---

setInt

```
public void setInt(boolean on)
```

switches int support

Parameters:

on - switches the integer flag on or off, default is off

---

setMask

```
public void setMask(boolean on)
```

switches maks generation

Parameters:

on - switches mask generation on or off, default is off

---

setNoverify

```
public void setNoverify(boolean on)
```

switches the noverfier flag.

Parameters:

on - switches the noverifier flag on or of, default is off meaning verification

---

setNowarn

```
public void setNowarn(boolean on)
```

switches the nowarn flag

Parameters:

on - switches the nowarn flag on or of, default is off meaning warnings are given

---

setCap

```
public void setCap(boolean on)
```

switches CAP file generation in the output

Parameters:

on - switches the *.cap file generation on of off, default is off, no cap file generation

---

setJca

```
public void setJca(boolean on)
```

switches JCA file generation in the output

Parameters:

on - switches the *.jca file generation on of off, default is off, no jca file generation

---

setExp

```
public void setExp(boolean on)
```

switches EXP file generation in the output

Parameters:

on - switches the *.exp file generation on of off, default is off, no exp file generation

---

setVerbose

```
public void setVerbose(boolean on)
```

switches the verbose flag

Parameters:

`on` - switches the verbose on of off, default is off, silent mode.

---

setConfigfile

```
public void setConfigfile(java.io.File config)
```

Set the location of the config file, overrides all other settings

Parameters:

`config` - the name and location of the config file

---

execute

```
public void execute()
            throws org.apache.tools.ant.BuildException
```

Builds the commandline of the converter and starts the converter.

Throws:

`org.apache.tools.ant.BuildException`

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com.sun.javacard.ant.tasks

Class DeployCapTask

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.JavacardTaskBase
                  └com.sun.javacard.ant.tasks.APDUToolTask
                      └com.sun.javacard.ant.tasks.DeployCapTask
```

public class **DeployCapTask**
extends APDUToolTask

This class encapsulates call to scriptgen, cref and APDUtool to download a CAP file in cref and generate a resulting EEPROM image

Field Summary

protected java.lang.String	**capName** CAP file to be deployed
protected static java.lang.String	**eol** End of line for current platform
protected static java.lang.String	**footer**

protected static java.lang.String	**header**

Fields inherited from class com.sun.javacard.ant.tasks.APDUToolTask
checkForDownloadFailure, crefExecutable, inEEFile, outEEFile, scriptFileName

Fields inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
bundleName, messages, noBanner, version

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

DeployCapTask()

Method Summary

void	**execute**() Executes the task
protected void	**generateScriptFile**() Prepares the APDU script file for download into the card.
void	**setCapFile**(java.lang.String capName) Sets cap file name

Methods inherited from class com.sun.javacard.ant.tasks.APDUToolTask
checkForFailures, initCard, sendAPDUSToCard, setCheckDownloadFailure, setCrefExe, setInEEFile, setOutEEFile, setScriptFile

Methods inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
setNoBanner, setupCommonOptions, setVersion

Methods inherited from class org.apache.tools.ant.taskdefs.Java
addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

eol

```
protected static final java.lang.String eol
```

End of line for current platform

---

header

```
protected static final java.lang.String header
```

---

footer

```
protected static final java.lang.String footer
```

---

capName

```
protected java.lang.String capName
```

CAP file to be deployed

Constructor Detail

DeployCapTask

```
public DeployCapTask()
```

Method Detail

setCapFile

```
public void setCapFile(java.lang.String capName)
```

Sets cap file name

Parameters:

`capName` - is the cap file name

---

generateScriptFile

```
protected void generateScriptFile()
                            throws org.apache.tools.ant.BuildException
```

Prepares the APDU script file for download into the card.

Throws:

`org.apache.tools.ant.BuildException`

---

execute

```
public void execute()
             throws org.apache.tools.ant.BuildException
```

Executes the task

Overrides:

`execute` in class `APDUToolTask`

Throws:

`org.apache.tools.ant.BuildException`

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com.sun.javacard.ant.tasks

Class Exp2TextTask

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.JavacardTaskBase
                  └com.sun.javacard.ant.tasks.Exp2TextTask
```

public class **Exp2TextTask**
extends JavacardTaskBase

Convertes the export file of a package to a text file Wraps the call to "com.sun.javacard.converter. Exp2Text" in its own Ant task derived from the standard Java Task that comes with the Ant distribution. The "fork" value is always set to true for this task, otherwise it will not run properly.

Field Summary

protected org.apache.tools.ant.types.Path	**classDir** Class directory
protected org.apache.tools.ant.types.Path	**outputDir** output directory

protected java.lang.String	**packageName** Package name

Fields inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
bundleName, messages, noBanner, version

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

Exp2TextTask()

Method Summary

void	**execute**() Executes the task
void	**setClassDir**(org.apache.tools.ant.types.Path classdir) Sets the path to the classdirectory of the package
void	**setOutputDir**(org.apache.tools.ant.types.Path dir) Set the path to the output directory for the text file
void	**setPackageName**(java.lang.String packageName) sets the package name

Methods inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase

setNoBanner, setupCommonOptions, setVersion

Methods inherited from class org.apache.tools.ant.taskdefs.Java
addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

packageName

protected java.lang.String **packageName**

Package name

---

classDir

```
protected org.apache.tools.ant.types.Path classDir
```

Class directory

---

outputDir

```
protected org.apache.tools.ant.types.Path outputDir
```

output directory

Constructor Detail

Exp2TextTask

```
public Exp2TextTask()
```

Method Detail

setPackageName

```
public void setPackageName(java.lang.String packageName)
```

sets the package name

Parameters:

`packageName` - the name of the package

---

setClassDir

```
public void setClassDir(org.apache.tools.ant.types.Path classdir)
```

Sets the path to the classdirectory of the package

Parameters:

`classdir` - the path to the classdirectory

---

setOutputDir

```
public void setOutputDir(org.apache.tools.ant.types.Path dir)
```

Set the path to the output directory for the text file

Parameters:

`dir` - the path to the output directory

---

execute

```
public void execute()
            throws org.apache.tools.ant.BuildException
```

Executes the task

Throws:

`org.apache.tools.ant.BuildException`

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com.sun.javacard.ant.tasks

Class JavacardTaskBase

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.JavacardTaskBase
```

Direct Known Subclasses:

APDUToolTask, CapgenTask, ConverterTask, Exp2TextTask, MaskgenTask, ScriptgenTask, VerifierTask

---

public abstract class **JavacardTaskBase**
extends org.apache.tools.ant.taskdefs.Java

This class serves as the base class for all Java Card ant tasks

---

Field Summary

protected static java.lang.String	**bundleName**
protected static java.util.ResourceBundle	**messages** properties bundle file that has the internationalized messages
protected boolean	**noBanner** Sets the noBanner option for java card tools

protected boolean	**version** Sets the version option for java card tools

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

JavacardTaskBase()

Method Summary

void	**setNoBanner**(boolean on) switches the nobanner flag on or off
void	**setupCommonOptions**() Sets the nobanner option (if it is true) on the command line
void	**setVersion**(boolean on) switches the version flag on or off

Methods inherited from class org.apache.tools.ant.taskdefs.Java

addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, execute, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

bundleName

```
protected static final java.lang.String bundleName
```

See Also:

Constant Field Values

---

noBanner

`protected boolean` **`noBanner`**

Sets the noBanner option for java card tools

---

version

`protected boolean` **`version`**

Sets the version option for java card tools

---

messages

`protected static java.util.ResourceBundle` **`messages`**

properties bundle file that has the internationalized messages

Constructor Detail

JavacardTaskBase

`public` **`JavacardTaskBase`**`()`

Method Detail

setNoBanner

`public void` **`setNoBanner`**`(boolean on)`

switches the nobanner flag on or off

Parameters:

on - switches the verbose flag, default is off

---

setVersion

```
public void setVersion(boolean on)
```

switches the version flag on or off

Parameters:

on - switches the verbose flag, default is off

---

setupCommonOptions

```
public void setupCommonOptions()
```

Sets the nobanner option (if it is true) on the command line

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com.sun.javacard.ant.tasks

Class MaskgenTask

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.JavacardTaskBase
                  └com.sun.javacard.ant.tasks.MaskgenTask
```

public class **MaskgenTask**
extends JavacardTaskBase

Encapsulates call to Maskgen to generate a mask file from input JCA files

Field Summary

protected static java.lang.String	**className** Maskgen class name
protected java.lang.String	**configFileName** configuration file name
protected boolean	**debugInfo** indicates if debugInfo flag is to be set or not
protected java.lang.String	**generator** Generator (could be cref, jref etc)

protected java.util.ArrayList	**inputJCAs** List of input JCA files
protected boolean	**mem32BitFlag** flag to indicate if 32-bit reference size is to be used or not
protected java.lang.String	**outFileName** Output file name

Fields inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
bundleName, messages, noBanner, version

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

MaskgenTask()

Method Summary

void	**addJCAInputFile**(JCAInputFile inputFile) adds an input JCA file
void	**execute**() Executes the task
void	**setConfigFile**(java.lang.String configName) sets the configuration file name

void	**setDebugInfo**(boolean on)
void	**setGenerator**(java.lang.String generator) sets the generator (cref, jref etc)
void	**setMemRefSize**(int memRefSize) sets the memory reference size
void	**setOutFile**(java.lang.String outFileName) sets the output file name

Methods inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
setNoBanner, setupCommonOptions, setVersion

Methods inherited from class org.apache.tools.ant.taskdefs.Java
addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

className

```
protected static final java.lang.String className
```

Maskgen class name

See Also:
Constant Field Values

---

configFileName

```
protected java.lang.String configFileName
```

configuration file name

---

mem32BitFlag

```
protected boolean mem32BitFlag
```

flag to indicate if 32-bit reference size is to be used or not

---

outFileName

```
protected java.lang.String outFileName
```

Output file name

---

generator

```
protected java.lang.String generator
```

Generator (could be cref, jref etc)

---

debugInfo

```
protected boolean debugInfo
```

indicates if debugInfo flag is to be set or not

---

inputJCAs

```
protected java.util.ArrayList inputJCAs
```

List of input JCA files

Constructor Detail

MaskgenTask

```
public MaskgenTask()
```

Method Detail

setConfigFile

```
public void setConfigFile(java.lang.String configName)
```

sets the configuration file name

Parameters:
`configName` - the name of the config file

---

setOutFile

```
public void setOutFile(java.lang.String outFileName)
```

sets the output file name

Parameters:
`outFileName` - the name of the output file

---

setMemRefSize

```
public void setMemRefSize(int memRefSize)
```

sets the memory reference size

Parameters:
`memRefSize` - is the size of memory reference in target mask file

---

setDebugInfo

```
public void setDebugInfo(boolean on)
```

---

setGenerator

```
public void setGenerator(java.lang.String generator)
```

sets the generator (cref, jref etc)

Parameters:

`generator` - string

---

addJCAInputFile

```
public void addJCAInputFile(JCAInputFile inputFile)
```

adds an input JCA file

Parameters:

`inputFile` - contains input JCA file name or input file name that contains list of JCA file names

---

execute

```
public void execute()
            throws org.apache.tools.ant.BuildException
```

Executes the task

Throws:

`org.apache.tools.ant.BuildException`

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com.sun.javacard.ant.tasks

Class ScriptgenTask

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.JavacardTaskBase
                  └com.sun.javacard.ant.tasks.ScriptgenTask
```

public class **ScriptgenTask**
extends JavacardTaskBase

This class is responsible for invoking Scriptgen to generate APDU script files from CAP files.

Field Summary

protected java.lang.String	**capName** Name of CAP file
protected boolean	**noBeginEnd** If this paramter is true, CAP Begin and CAP end are not included in the script file
protected java.lang.String	**outFileName** output file name

protected java.lang.String	**pkgName** Name of the package

Fields inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
bundleName, messages, noBanner, version

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

ScriptgenTask()

Method Summary

void	**execute**() Executes the task
void	**setCapFile**(java.lang.String capName) Sets cap file name
void	**setNoBeginEnd**(boolean on) Sets noBeginEnd value to the requested value
void	**setOutFile**(java.lang.String outFileName) Sets output file name
void	**setPkgName**(java.lang.String pkgName) Sets the package name for verifier

Methods inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
setNoBanner, setupCommonOptions, setVersion

Methods inherited from class org.apache.tools.ant.taskdefs.Java
addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

outFileName

protected java.lang.String **outFileName**

output file name

---

noBeginEnd

```
protected boolean noBeginEnd
```

If this paramter is true, CAP Begin and CAP end are not included in the script file

---

pkgName

```
protected java.lang.String pkgName
```

Name of the package

---

capName

```
protected java.lang.String capName
```

Name of CAP file

Constructor Detail

ScriptgenTask

```
public ScriptgenTask()
```

Method Detail

setPkgName

```
public void setPkgName(java.lang.String pkgName)
```

Sets the package name for verifier

Parameters:
`pkgName` - is package name

---

setNoBeginEnd

```
public void setNoBeginEnd(boolean on)
```

Sets noBeginEnd value to the requested value

Parameters:
`on` - is boolean value to be set for noBeginEnd flag

---

setOutFile

```
public void setOutFile(java.lang.String outFileName)
```

Sets output file name

Parameters:
`outFileName` - is the ouput file name

---

setCapFile

```
public void setCapFile(java.lang.String capName)
```

Sets cap file name

Parameters:
`capName` - is the cap file name

---

execute

```
public void execute()
            throws org.apache.tools.ant.BuildException
```

Executes the task

Throws:

`org.apache.tools.ant.BuildException`

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com.sun.javacard.ant.tasks

Class VerifierTask

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.JavacardTaskBase
                  └com.sun.javacard.ant.tasks.VerifierTask
```

Direct Known Subclasses:

VerifyCapTask, VerifyExpTask, VerifyRevTask

---

public abstract class **VerifierTask**
extends JavacardTaskBase

This is the base class for all verifier tasks

Field Summary

protected java.util.ArrayList	**exportFiles** list of export files
protected java.util.Vector	**exportFileSets** list of file sets containing export files
protected boolean	**noWarn** Turns on (or off) the noWarn flag for verifier tools

protected boolean	**verbose** Turns on (or off) the verbose flag for verifier tools

Fields inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
bundleName, messages, noBanner, version

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

VerifierTask()

Method Summary

void	**addExportFiles**(org.apache.tools.ant.types.FileSet fs) adds export file set to the export file set list
protected void	**extractFileNames**(org.apache.tools.ant.types.FileSet fs) Extracts file names from a file set and puts them along with their fully qualified paths in exportFiles arrayList.
void	**setNoWarn**(boolean on) switches the noWarn flag
void	**setupCommandLineOptions**() This method sets the common command line options for the verifier tools
void	**setVerbose**(boolean on) switches the verbose flag

Methods inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
setNoBanner, setupCommonOptions, setVersion

Methods inherited from class org.apache.tools.ant.taskdefs.Java
addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, execute, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

verbose

protected boolean **verbose**

Turns on (or off) the verbose flag for verifier tools

---

noWarn

`protected boolean` **`noWarn`**

Turns on (or off) the noWarn flag for verifier tools

---

exportFiles

`protected java.util.ArrayList` **`exportFiles`**

list of export files

---

exportFileSets

`protected java.util.Vector` **`exportFileSets`**

list of file sets containing export files

Constructor Detail

VerifierTask

`public` **`VerifierTask`**`()`

Method Detail

extractFileNames

`protected void` **`extractFileNames`**`(org.apache.tools.ant.types.`

`FileSet fs)`

Extracts file names from a file set and puts them along with their fully qualified paths in exportFiles arrayList.

Parameters:

`fs` - is the file set from which the list of files is to be extracted

---

setVerbose

`public void **setVerbose**(boolean on)`

switches the verbose flag

Parameters:

`on` - switches the verbose on of off, default is off, silent mode.

---

setNoWarn

`public void **setNoWarn**(boolean on)`

switches the noWarn flag

Parameters:

`on` - switches the noWarn on or off, default is off, no warnings are given

---

addExportFiles

`public void **addExportFiles**(org.apache.tools.ant.types.FileSet fs)`

adds export file set to the export file set list

Parameters:

`fs` - file set containing export files

setupCommandLineOptions

`public void` **`setupCommandLineOptions`**`()`

This method sets the common command line options for the verifier tools

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com.sun.javacard.ant.tasks

Class VerifyCapTask

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.JavacardTaskBase
                  └com.sun.javacard.ant.tasks.VerifierTask
                      └com.sun.javacard.ant.tasks.VerifyCapTask
```

public class **VerifyCapTask**
extends VerifierTask

This class is responsible for invoking Verifier to verify a CAP file.

Field Summary

protected java.lang.String	**capName** Name and path of the CAP file
protected java.lang.String	**pkgName** Package Name

Fields inherited from class com.sun.javacard.ant.tasks.VerifierTask

exportFiles, exportFileSets, noWarn, verbose

Fields inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
bundleName, messages, noBanner, version

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

VerifyCapTask()

Method Summary

void	**execute**() Builds the commandline of the verifier and starts the verifier.
void	**setCapFile**(java.lang.String capName) Sets cap file name
void	**setPkgName**(java.lang.String pkgName) Sets the package name for verifier

Methods inherited from class com.sun.javacard.ant.tasks.VerifierTask
addExportFiles, extractFileNames, setNoWarn, setupCommandLineOptions, setVerbose

Methods inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
setNoBanner, setupCommonOptions, setVersion

Methods inherited from class org.apache.tools.ant.taskdefs.Java
addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

capName

protected java.lang.String **capName**

Name and path of the CAP file

pkgName

```
protected java.lang.String pkgName
```

Package Name

Constructor Detail

VerifyCapTask

```
public VerifyCapTask()
```

Method Detail

setPkgName

```
public void setPkgName(java.lang.String pkgName)
```

Sets the package name for verifier

Parameters:

`pkgName` - is package name

---

setCapFile

```
public void setCapFile(java.lang.String capName)
```

Sets cap file name

Parameters:

`capName` - is the cap file name

---

execute

```
public void execute()
            throws org.apache.tools.ant.BuildException
```

Builds the commandline of the verifier and starts the verifier.

Throws:

`org.apache.tools.ant.BuildException`

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com.sun.javacard.ant.tasks

Class VerifyExpTask

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.JavacardTaskBase
                  └com.sun.javacard.ant.tasks.VerifierTask
                      └com.sun.javacard.ant.tasks.VerifyExpTask
```

public class **VerifyExpTask**
extends VerifierTask

This class implements the task for VerifyExp. All the command line options are setup by the methods that are inherited from the super class. This class only takes care of preparing the command line for VerifyExp and executing the task itself.

Field Summary

Fields inherited from class com.sun.javacard.ant.tasks.VerifierTask
exportFiles, exportFileSets, noWarn, verbose

Fields inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
bundleName, messages, noBanner, version

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

VerifyExpTask()

Method Summary

void	**execute**() Builds the commandline of the verifier and starts the verifier.

Methods inherited from class com.sun.javacard.ant.tasks.VerifierTask
addExportFiles, extractFileNames, setNoWarn, setupCommandLineOptions, setVerbose

Methods inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
setNoBanner, setupCommonOptions, setVersion

Methods inherited from class org.apache.tools.ant.taskdefs.Java

addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

VerifyExpTask

```
public VerifyExpTask()
```

Method Detail

execute

```
public void execute()
            throws org.apache.tools.ant.BuildException
```

Builds the commandline of the verifier and starts the verifier.

Throws:

`org.apache.tools.ant.BuildException`

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com.sun.javacard.ant.tasks

Class VerifyRevTask

```
java.lang.Object
  └org.apache.tools.ant.ProjectComponent
      └org.apache.tools.ant.Task
          └org.apache.tools.ant.taskdefs.Java
              └com.sun.javacard.ant.tasks.JavacardTaskBase
                  └com.sun.javacard.ant.tasks.VerifierTask
                      └com.sun.javacard.ant.tasks.VerifyRevTask
```

public class **VerifyRevTask**
extends VerifierTask

This class implements the task for VerifyRev. All the command line options are setup by the methods that are inherited from the super class. This class only takes care of preparing the command line for verifyRev and executing the task itself.

Field Summary

Fields inherited from class com.sun.javacard.ant.tasks.VerifierTask
exportFiles, exportFileSets, noWarn, verbose

Fields inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
bundleName, messages, noBanner, version

Fields inherited from class org.apache.tools.ant.taskdefs.Java
redirector, redirectorElement

Fields inherited from class org.apache.tools.ant.Task
description, location, target, taskName, taskType, wrapper

Fields inherited from class org.apache.tools.ant.ProjectComponent
project

Constructor Summary

VerifyRevTask()

Method Summary

void	**execute**() Builds the commandline of the verifier and starts the verifier.

Methods inherited from class com.sun.javacard.ant.tasks.VerifierTask
addExportFiles, extractFileNames, setNoWarn, setupCommandLineOptions, setVerbose

Methods inherited from class com.sun.javacard.ant.tasks.JavacardTaskBase
setNoBanner, setupCommonOptions, setVersion

Methods inherited from class org.apache.tools.ant.taskdefs.Java

addAssertions, addConfiguredRedirector, addEnv, addSysproperty, addSyspropertyset, clearArgs, createArg, createBootclasspath, createClasspath, createJvmarg, createPermissions, createWatchdog, executeJava, handleErrorFlush, handleErrorOutput, handleFlush, handleInput, handleOutput, maybeSetResultPropertyValue, run, setAppend, setArgs, setClassname, setClasspath, setClasspathRef, setDir, setError, setErrorProperty, setFailonerror, setFork, setInput, setInputString, setJar, setJvm, setJvmargs, setJVMVersion, setLogError, setMaxmemory, setNewenvironment, setOutput, setOutputproperty, setResultProperty, setSpawn, setTimeout, setupRedirector

Methods inherited from class org.apache.tools.ant.Task
getDescription, getLocation, getOwningTarget, getRuntimeConfigurableWrapper, getTaskName, getTaskType, getWrapper, init, isInvalid, log, log, maybeConfigure, perform, reconfigure, setDescription, setLocation, setOwningTarget, setRuntimeConfigurableWrapper, setTaskName, setTaskType

Methods inherited from class org.apache.tools.ant.ProjectComponent
getProject, setProject

Methods inherited from class java.lang.Object
clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

VerifyRevTask

```
public VerifyRevTask()
```

Method Detail

execute

```
public void execute()
            throws org.apache.tools.ant.BuildException
```

Builds the commandline of the verifier and starts the verifier.

Throws:

`org.apache.tools.ant.BuildException`

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Constant Field Values

Contents

- com.sun.*

com.sun.*

com.sun.javacard.ant.tasks.CapDumpTask

`protected static final java.lang.String bundleName`	`"com/sun/javacard/ant/tasks/MessagesBundle"`
`protected static final java.lang.String className`	`"com.sun.javacard.capdump.CapDump"`

com.sun.javacard.ant.tasks.JavacardTaskBase

`protected static final java.lang.String bundleName`	`"com/sun/javacard/ant/tasks/MessagesBundle"`

com.sun.javacard.ant.tasks.MaskgenTask

`protected static final java.lang.String className`	`"com.sun.javacard.jcasm.mask.Main"`

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com.sun.javacard.ant.tasks

Classes

- APDUToolTask
- CapDumpTask
- CapgenTask
- ConverterTask
- DeployCapTask
- Exp2TextTask
- JavacardTaskBase
- MaskgenTask
- ScriptgenTask
- VerifierTask
- VerifyCapTask
- VerifyExpTask
- VerifyRevTask

com.sun.javacard.ant.types

Classes

AppletNameAID

JCAInputFile

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