Componentization

Class library componentization

The class library API can be split-up into groups of packages that form ‘functional units’. Each of these functional units (components) has predominantly public API dependencies between them. Of course, there will be a number of implementation packages required too to support the public APIs. There is a ‘special’ set of KERNEL classes that are VM-specific. The others are common across VM implementation by using Java, JNI, and native OS calls directly.

APPLET
- java.applet

AUTH
- javax.security.auth
- javax.security.auth.callback
- javax.security.auth.kerberos
- javax.security.auth.login
- javax.security.auth.spi
- javax.security.auth.x500
- javax.security.sasl
- org.ietf.jgss

AWT
- java.awt
- java.awt.color
- java.awt.datatransfer
- java.awt.dnd
- java.awt.event
- java.awt.font
- java.awt.geom
- java.awt.im
- java.awt.im.spi
- java.awt.image
- java.awt.image.renderable
- java.awt.print

BEANS
- java.beans
- java.beans.beancontext

LUNI
- java.io
- java.lang (some classes in KERNEL)
- java.lang.ref (some classes in KERNEL)
- java.lang.reflect (some classes in KERNEL)
- java.net
- java.util

ANNOTATION
- java.lang.annotation

INSTRUMENT
- java.lang.instrument

LANG-MANAGEMENT
- java.lang.management

MATH
• java.math

NIO-CHANNELS
• java.nio
• java.nio.channels
• java.nio.channels.spi

NIO-CHARSET
• java.nio.charset
• java.nio.charset.spi

RMI
• java.rmi
• java.rmi.activation
• java.rmi.dgc
• java.rmi.registry
• java.rmi.server

SECURITY
• java.security (some classes in KERNEL)
• java.security.acl
• java.security.cert
• java.security.interfaces
• java.security.spec
• javax.security.cert

SQL
• java.sql
• javax.sql
• javax.sql.rowset
• javax.sql.rowset.serial
• javax.sql.rowset.spi

TEXT
• java.text

CONCURRENT
• java.util.concurrent (some classes in KERNEL)
• java.util.concurrent.atomic (some classes in KERNEL)
• java.util.concurrent.locks (some classes in KERNEL)

ARCHIVE
• java.util.jar
• java.util.zip

LOGGING
• java.util.logging

PREFS
• java.util.prefs

REGEX
• java.util.regex
ACCESSIBILITY
  • javax.accessibility

CRYPTO
  • javax.crypto
  • javax.crypto.interfaces
  • javax.crypto.spec

IMAGEIO
  • javax.imageio
  • javax.imageio.event
  • javax.imageio.metadata
  • javax.imageio.plugins.bmp
  • javax.imageio.plugins.jpeg
  • javax.imageio.spi
  • javax.imageio.stream

JMX
  • javax.management
  • javax.management.loading
  • javax.management.modelmbean
  • javax.management.monitor
  • javax.management.openmbean
  • javax.management.relation
  • javax.management.remote
  • javax.management.remote.rmi
  • javax.management.timer

JNDI
  • javax.naming
  • javax.naming.directory
  • javax.naming.event
  • javax.naming.ldap
  • javax.naming.spi

X-NET
  • javax.net
  • javax.net.ssl

PRINT
  • javax.print
  • javax.print.attribute
  • javax.print.attribute.standard
  • javax.print.event

SOUND
  • javax.sound.midi
  • javax.sound.midi.spi
  • javax.sound.sampled
  • javax.sound.sampled.spi

SWING
  • javax.swing
  • javax.swing.border
  • javax.swing.colorchooser
  • javax.swing.event
  • javax.swing.filechooser
  • javax.swing.plaf
  • javax.swing.plaf.basic
  • javax.swing.plaf.metal


• javax.swing.plaf.multi
• javax.swing.plaf.synth
• javax.swing.table
• javax.swing.text
• javax.swing.text.html
• javax.swing.text.html.parser
• javax.swing.text.rtf
• javax.swing.tree
• javax.swing.undo

XML

• javax.xml
• javax.xml.datatype
• javax.xml.namespace
• javax.xml.parsers
• javax.xml.transform
• javax.xml.transform.dom
• javax.xml.transform.stream
• javax.xml.validation
• javax.xml.xpath
• org.w3c.dom
• org.w3c.dom.bootstrap
• org.w3c.dom.events
• org.w3c.dom.ls
• org.xml.sax
• org.xml.sax.ext
• org.xml.sax.helpers

ORB

• javax.activity
• javax.rmi
• javax.rmi.CORBA
• javax.rmi.ssl
• javax.transaction
• javax.transaction.xa
• org.omg.CORBA
• org.omg.CORBA_2_3
• org.omg.CORBA_2_3.portable
• org.omg.CORBA.DynAnyPackage
• org.omg.CORBA.ORBPackage
• org.omg.CORBA.portable
• org.omg.CORBA.TypeCodePackage
• org.omg.CosNaming
• org.omg.CosNaming.NamingContextExtPackage
• org.omg.CosNaming.NamingContextPackage
• org.omg.Dynamic
• org.omg.DynamicAny
• org.omg.DynamicAny.DynAnyFactoryPackage
• org.omg.DynamicAny.DynAnyPackage
• org.omg.IOP
• org.omg.IOP.CodecFactoryPackage
• org.omg.IOP.CodecPackage
• org.omg.Messaging
• org.omg.PortableInterceptor
• org.omg.PortableInterceptor.ORBInitInfoPackage
• org.omg.PortableServer
• org.omg.PortableServer.POAManagerPackage
• org.omg.PortableServer.POAPackage
• org.omg.PortableServer.portable
• org.omg.PortableServer.ServantLocatorPackage
• org.omg.SendingContext
• org.omg.stub.java.rmi