«topLevelPackage»
Alexander J.
Harris::**javanews**

database

events

events::**gui**

events::table

gui

gui::internalframe

object

object::**save**

save::**filters**

object::table

run

RunJavaNews	SplashScreen	LoggerFactory	Client	JNPreferences	COMPortThreadManager	PortReader	COMPortClient

main(args)

SplashScreen(maximumValue)

return

increaseProgress(newText)

getLogger:=getLogger(parentClassName)

return

increaseProgress()

checkPreferences()

increaseProgress()

Client(ssSplash)

getLogger:=getLogger(parentClassName)

return

getJNPrefs:=getJNPrefs()

return

COMPortThreadManager()

return

increaseProgress(newText)

buildMenu()

increaseProgress(newText)

buildGUI()

increaseProgress(newText)

startApp()

addPort(comPortName, baudRate, dataBits, parityType, stopBits)

addNewWindow(portName, baudRate, dataBits, parityType, stopBits)

return

COMPortClient(comPortName, baud, data, parity, stop)

return

PortReader(name, baud, data, parity, stop, cpcParent)

return

run()

Notes:
- Program execution continues until the user quits. Items with lifelines and activations shown in the grey section are used within the application for other functions.
- This diagram does not show all messages sent and received during the application start-up but those that are key to the system.

Client	COMPortThreadManager

addNewWindow(portName, baudRate, dataBits, parityType, stopBits)

COMPortClient(comPortName, baud, data, parity, stop)

COMPortClient

buildLinkTable:=buildLinkTable()

buildNewLinks:=buildNewLinks()

buildAlarmTable:=buildAlarmTable()

buildReportTree:=buildReportTree()

buildMenu()

return

PortReader(name, baud, data, parity, stop, cpcParent)

PortReader

return

run

turnStatusOn()

isRawDataWindowOpen:=isRawDataWindowOpen()

return

getRawDataWindow:=getRawDataWindow()

{if window = open} return

MsgFormatter(aMessage, cpcParent)

MsgFormatter

formatMessage()

addAlarmData(newRow)

storeDataInDb(dataToStore)

DbInterface(comPort)

DbInterface

SQLStatements()

SQLStatements

return

return

storeMessage:=storeMessage(aMsg)

getConnection:=getConnection()

addMessage:=addMessage()

return

return
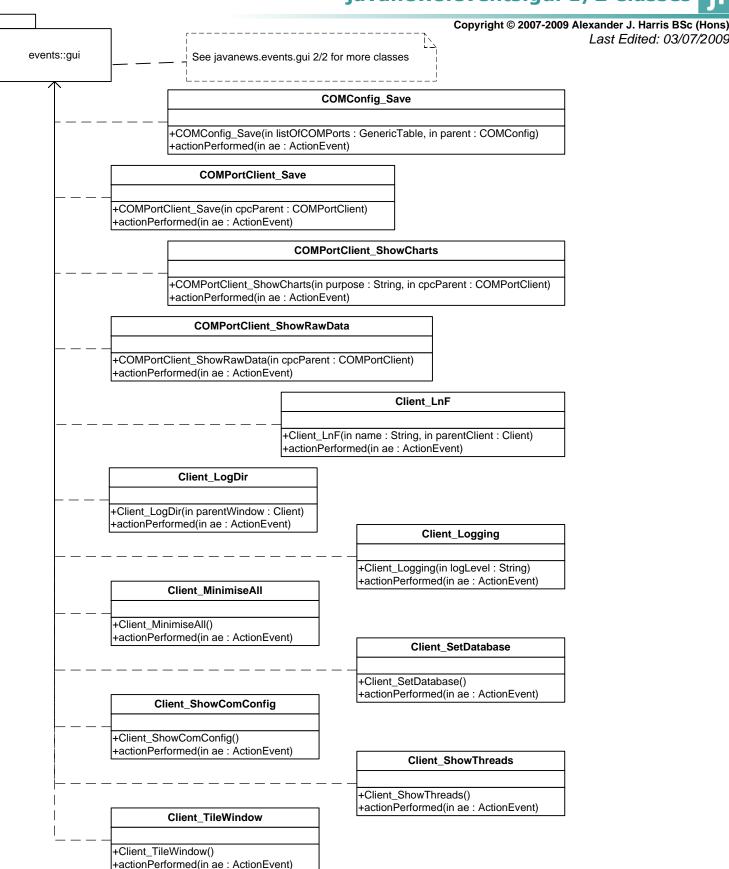
javanews::database

SQLStatements

+SQLStatements()
+addComment() : String
+addMessage() : String
+addNewLink() : String
+getCodexID() : String
+getCodexLinks() : String
+getComments() : String
+getDefinition() : String
+getLinkDetails() : String
+getMessageDetails() : String
+getMessageIDs() : String
+getMessagesByDate() : String
+getMessagesByPSE() : String
+getMessagesByPSEandLink() : String
+getNewLinkDetails() : String
+getNewLinkID() : String
+removeAllNewLinks() : String
+removeNewLink() : String
+storeRecognisedLink() : String
+updateDetails() : String
+updateNewLinkID() : String

DbInterface

+DbInterface(in comPort : String)
+closeConnection()
-createGenericTable(in pSt : PreparedStatement, in sql : String) : GenericTable
+doesDbExist() : boolean
+findDiscoveredLinkID(in pseName : String, in linkID : String) : String
-findNewLink(in pseName : String, in linkID : String) : int
+getCodexLinkID(in pseName : String, in linkID : String) : String
+getCodexLinks() : Vector
+getComments(in messageID : String) : Vector
-getConnection() : Connection
+getDiscoveredLinkDetails(in uuid : String) : Hashtable<String,String>
+getMessageDefinition(in messageID : String) : String
+getMessageDetails(in uuid : String) : Hashtable
+getMessagesByDate(in limit : Calendar) : GenericTable
+getMessagesByLink(in pse : String, in link : String) : GenericTable
+getMessagesByPSE(in pse : String) : GenericTable
+lookupCodexLink(in codexID : String) : Vector
+lookupMessage(in aMessage : String) : String
-messageDbPreload()
+removeDiscoveredLink(in id : String) : int
+storeComment(in messageID : String, in comment : String) : int
+storeMessage(in aMsg : Object[]) : int
-storeNewLink(in pseName : String, in linkID : String) : int
+storeNewRecognisedLink(in newId : String, in comPort : String, in pseName : String, in linkId : String, in details : String, in description : String) : int
+updateDetailsAndDescription(in linkId : String, in details : String, in description : String) : int
+updateLinkIDs(in recognisedId : String, in discoveredId : String) : int
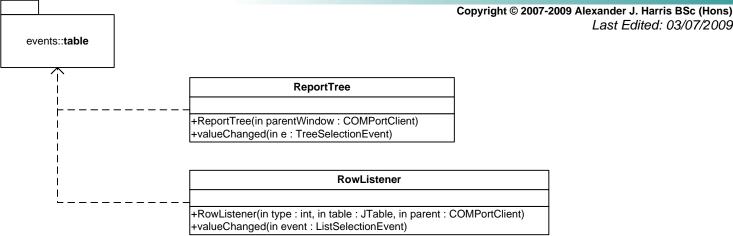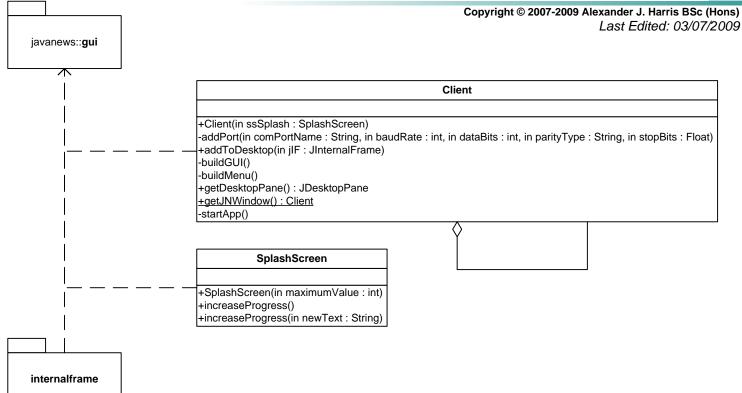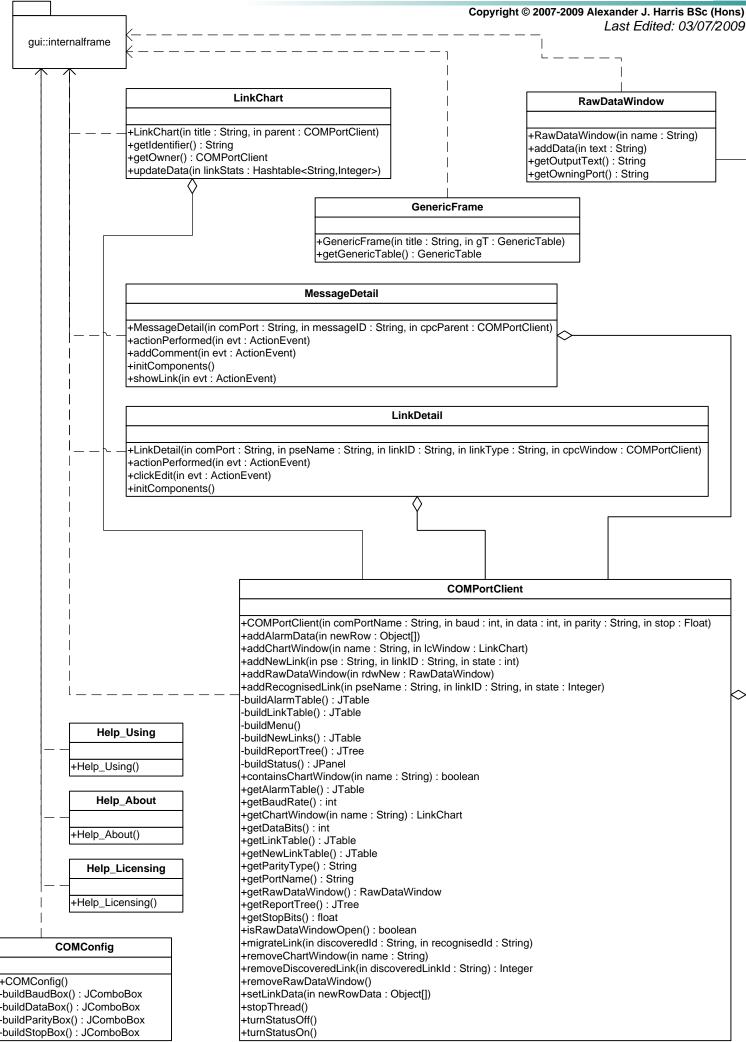
events::gui

COMConfig_Save

+COMConfig_Save(in listOfCOMPorts : GenericTable, in parent : COMConfig)
+actionPerformed(in ae : ActionEvent)

COMPortClient_Save

+COMPortClient_Save(in cpcParent : COMPortClient)
+actionPerformed(in ae : ActionEvent)

COMPortClient_ShowCharts

+COMPortClient_ShowCharts(in purpose : String, in cpcParent : COMPortClient)
+actionPerformed(in ae : ActionEvent)

COMPortClient_ShowRawData

+COMPortClient_ShowRawData(in cpcParent : COMPortClient)
+actionPerformed(in ae : ActionEvent)

Client_LnF

+Client_LnF(in name : String, in parentClient : Client)
+actionPerformed(in ae : ActionEvent)

Client_LogDir

+Client_LogDir(in parentWindow : Client)
+actionPerformed(in ae : ActionEvent)

Client_Logging

+Client_Logging(in logLevel : String)
+actionPerformed(in ae : ActionEvent)

Client_MinimiseAll

+Client_MinimiseAll()
+actionPerformed(in ae : ActionEvent)

Client_SetDatabase

+Client_SetDatabase()
+actionPerformed(in ae : ActionEvent)

Client_ShowComConfig

+Client_ShowComConfig()
+actionPerformed(in ae : ActionEvent)

Client_ShowThreads

+Client_ShowThreads()
+actionPerformed(in ae : ActionEvent)

Client_TileWindow

+Client_TileWindow()
+actionPerformed(in ae : ActionEvent)

events::gui

See javanews.events.gui 1/2 for more classes

CloseComPortClient

+CloseComPortClient(in cpcWindow : COMPortClient)
+internalFrameClosing(in ife : InternalFrameEvent)
+internalFrameClosed(in ife : InternalFrameEvent)
+internalFrameOpened(in ife : InternalFrameEvent)
+internalFrameIconified(in ife : InternalFrameEvent)
+internalFrameDeiconified(in ife : InternalFrameEvent)
+internalFrameActivated(in ife : InternalFrameEvent)
+internalFrameDeactivated(in ife : InternalFrameEvent)
+actionPerformed(in ae : ActionEvent)
-closeWindow()

CloseJavaNews

+CloseJavaNews()
+windowClosing(in e : WindowEvent)
+actionPerformed(in ae : ActionEvent)
-closeApp()

CloseLinkChart

+CloseLinkChart(in lcParent : LinkChart)
+internalFrameClosing(in ife : InternalFrameEvent)
+internalFrameClosed(in ife : InternalFrameEvent)
+internalFrameOpened(in ife : InternalFrameEvent)
+internalFrameIconified(in ife : InternalFrameEvent)
+internalFrameDeiconified(in ife : InternalFrameEvent)
+internalFrameActivated(in ife : InternalFrameEvent)
+internalFrameDeactivated(in ife : InternalFrameEvent)
-closeWindow()

CloseRawDataWindow

+CloseRawDataWindow(in rdwWindow : RawDataWindow)
+internalFrameClosing(in ife : InternalFrameEvent)
+internalFrameClosed(in ife : InternalFrameEvent)
+internalFrameOpened(in ife : InternalFrameEvent)
+internalFrameIconified(in ife : InternalFrameEvent)
+internalFrameDeiconified(in ife : InternalFrameEvent)
+internalFrameActivated(in ife : InternalFrameEvent)
+internalFrameDeactivated(in ife : InternalFrameEvent)
-closeWindow()

GenericFrame_Export

+GenericFrame_Export(in gfParent : GenericFrame)
+actionPerformed(in ae : ActionEvent)

HelpMenu

+HelpMenu(in identifier : String)
+actionPerformed(in e : ActionEvent)

URLClickListener

+URLClickListener()
+hyperlinkUpdate(in httpE : HyperlinkEvent)

events::**table**

ReportTree
+ReportTree(in parentWindow : COMPortClient) +valueChanged(in e : TreeSelectionEvent)

RowListener
+RowListener(in type : int, in table : JTable, in parent : COMPortClient) +valueChanged(in event : ListSelectionEvent)

javanews::**gui**

internalframe

Client
+Client(in ssSplash : SplashScreen)
-addPort(in comPortName : String, in baudRate : int, in dataBits : int, in parityType : String, in stopBits : Float)
+addToDesktop(in jIF : JInternalFrame)
-buildGUI()
-buildMenu()
+getDesktopPane() : JDesktopPane
+getJNWindow() : Client
-startApp()

SplashScreen
+SplashScreen(in maximumValue : int)
+increaseProgress()
+increaseProgress(in newText : String)

gui::internalframe

LinkChart

+LinkChart(in title : String, in parent : COMPortClient)
+getIdentifier() : String
+getOwner() : COMPortClient
+updateData(in linkStats : Hashtable<String,Integer>)

RawDataWindow

+RawDataWindow(in name : String)
+addData(in text : String)
+getOutputText() : String
+getOwningPort() : String

GenericFrame

+GenericFrame(in title : String, in gT : GenericTable)
+getGenericTable() : GenericTable

MessageDetail

+MessageDetail(in comPort : String, in messageID : String, in cpcParent : COMPortClient)
+actionPerformed(in evt : ActionEvent)
+addComment(in evt : ActionEvent)
+initComponents()
+showLink(in evt : ActionEvent)

LinkDetail

+LinkDetail(in comPort : String, in pseName : String, in linkID : String, in linkType : String, in cpcWindow : COMPortClient)
+actionPerformed(in evt : ActionEvent)
+clickEdit(in evt : ActionEvent)
+initComponents()

COMPortClient

+COMPortClient(in comPortName : String, in baud : int, in data : int, in parity : String, in stop : Float)
+addAlarmData(in newRow : Object[])
+addChartWindow(in name : String, in lcWindow : LinkChart)
+addNewLink(in pse : String, in linkID : String, in state : int)
+addRawDataWindow(in rdwNew : RawDataWindow)
+addRecognisedLink(in pseName : String, in linkID : String, in state : Integer)
-buildAlarmTable() : JTable
-buildLinkTable() : JTable
-buildMenu()
-buildNewLinks() : JTable
-buildReportTree() : JTree
-buildStatus() : JPanel
+containsChartWindow(in name : String) : boolean
+getAlarmTable() : JTable
+getBaudRate() : int
+getChartWindow(in name : String) : LinkChart
+getDataBits() : int
+getLinkTable() : JTable
+getNewLinkTable() : JTable
+getParityType() : String
+getPortName() : String
+getRawDataWindow() : RawDataWindow
+getReportTree() : JTree
+getStopBits() : float
+isRawDataWindowOpen() : boolean
+migrateLink(in discoveredId : String, in recognisedId : String)
+removeChartWindow(in name : String)
+removeDiscoveredLink(in discoveredLinkId : String) : Integer
+removeRawDataWindow()
+setLinkData(in newRowData : Object[])
+stopThread()
+turnStatusOff()
+turnStatusOn()

Help_Using

+Help_Using()

Help_About

+Help_About()

Help_Licensing

+Help_Licensing()

COMConfig

+COMConfig()
-buildBaudBox() : JComboBox
-buildDataBox() : JComboBox
-buildParityBox() : JComboBox
-buildStopBox() : JComboBox

javanews::**object**

COMPortThreadManager

+COMPortThreadManager()
+addNewWindow(in portName : String, in baudRate : int, in dataBits : int, in parityType : String, in stopBits : Float)
+doesPortExist(in identifier : String) : boolean
+getCOMPortClient(in identifier : String) : COMPortClient
+getInstance() : COMPortThreadManager
+getStatusTable() : GenericTable
+haltThreads()
+stopThread(in identifier : String)

JNPreferences

+JNPreferences()
+getJNPrefs() : Preferences
+getJNPrefsQuietly() : Preferences
+updateJNPrefs()

LoggerFactory

+LoggerFactory()
+closeLogs()
-getLogDir() : String
+getLogger(in parentClassName : String) : Logger
+setLogLevel(in newLevel : String)

MsgFormatter

+MsgFormatter(in aMessage : String, in cpcParent : COMPortClient)
+formatMessage()
+storeDataInDb(in dataToStore : Object[])

PortReader

+PortReader(in name : String, in baud : int, in data : int, in parity : String, in stop : Float, in cpcParent : COMPortClient)
-accessCOMPort()
-getBaud() : int
-getData() : int
-getParity() : int
+getShouldRun() : boolean
-getStop() : int
+run()
-runTestPort()
+setShouldRun(in continueRunning : Boolean)

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save

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table

object::**save**

filters

SaveData
+SaveData(in data : GenericTable, in owner : String) +exportData() : boolean

save::**filters**

CSVFilter
+CSVFilter() +accept(in aFile : File) : boolean +getDescription() : String

TXTFilter
+TXTFilter() +accept(in aFile : File) : boolean +getDescription() : String

object::table

GenericTable

+GenericTable()
+addRow(in aNewRow : Object[])
+getColumnClass(in c : int) : Class
+getColumnCount() : int
+getColumnName(in col : int) : String
+getColumns() : Vector
+getRow(in x : int) : Object[]
+getRowCount() : int
+getRows() : Vector
+getValueAt(in row : int, in col : int) : Object
+isCellEditable(in row : int, in col : int) : boolean
+removeRow(in x : int)
+setData(in columns : Vector, in rows : Vector)
+setData(in rows : Vector)
+setEditableColumns(in editableColumns : int[])
+setValueAt(in value : Object, in row : int, in col : int)

LinkTable

+LinkTable(in comPortName : String)
+addLink(in pse : String, in link : String, in state : Integer)
+decrementStats(in state : int)
+getInitialFigures() : Hashtable
+getLinkNames(in pse : String) : NavigableSet
+getLinkState(in pse : String, in link : String) : Integer
+getPSENames() : NavigableSet
+getUpdatedDate(in pse : String, in link : String) : Calendar
+incrementStats(in state : int)
+setLinkState(in pse : String, in link : String, in state : Integer)

LinkRenderer

+LinkRenderer(in isBordered : Boolean)
+getTableCellRendererComponent(in table : JTable, in state : Object, in isSelected : Boolean, in hasFocus : Boolean, in row : int, in column : int) : Component

javanews::run

RunJavaNews
-checkPreferences() +main(in args : String[])