

| loginCH<br>{ From chimera }   |
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| <div>Attributes</div> <div>package String loginList[0..*] = new ArrayList&lt;String&gt;()<br/>package XmlRpcClient client = null<br/>package String server_url = ""<br/>package InetAddress add = null<br/>package String clientURL = ""<br/>package JComboBox jCAddress<br/>private JPanel jPanel1<br/>private JLabel jLabelServer<br/>private JButton loginCANCEL<br/>private JButton loginOK<br/>private JLabel loginWelcome</div> |
| <div>Operations</div> <div>public loginCH( )<br/>private void initComponents( )<br/>private void loginCANCELMouseClicked( MouseEvent evt )<br/>private void loginOKMouseClicked( MouseEvent evt )<br/>private void loginOKActionPerformed( KeyEvent evt )<br/>private void writeList( )<br/>private void loadMainWindow( )<br/>public void main( String args[0..*])</div>   |

| FocusControl<br>{ From chimera }  |
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| <div>Attributes</div> <div>package XmlRpcClient client = null<br/>package String focusName = ""<br/>package Integer MIN_POSITION<br/>package Integer MAX_POSITION<br/>package Integer SMALL_STEP<br/>package Integer LARGE_STEP<br/>package XYSeries series1<br/>package XYSeriesCollection data<br/>package Double x = 0.0<br/>package Double y = 0.0<br/>private JButton ABORTFocus<br/>private JButton GOTOfocus<br/>private JSpinner GOTOspinner<br/>private JButton INbutton<br/>private JButton OUTbutton<br/>private JButton STARTFocus<br/>private ButtonGroup focusGroup<br/>private JPanel gotoPanel<br/>private JInternalFrame jChart<br/>private JLabel jEnd<br/>private JLabel jExpose<br/>private JLabel jFE<br/>private JTextField jFExt<br/>private JLabel jFS<br/>private JTextField jFStext<br/>private JPanel jPanel1<br/>private JSpinner jSend<br/>private JSeparator jSeparator1<br/>private JSpinner jSexpose<br/>private JSpinner jStart<br/>private JSpinner jStop<br/>private JLabel jStart<br/>private JLabel jStep<br/>private JRadioButton largeRadio<br/>private JPanel manualPanel<br/>private JTextField positionField<br/>private JPanel positionPanel<br/>private JRadioButton smallRadio</div> |
| <div>Operations</div> <div>public FocusControl( XmlRpcClient client, String focusName )<br/>public void getRange( )<br/>public Integer getCurrent( )<br/>public void createChartFocus( )<br/>private JFreeChart createChart( XYDataset dataset )<br/>private XYDataset createDataset( )<br/>private void initComponents( )<br/>private void INbuttonMouseClicked( MouseEvent evt )<br/>private void OUTbuttonMouseClicked( MouseEvent evt )<br/>private void GOTOfocusMouseClicked( MouseEvent evt )<br/>private void ABORTFocusMouseClicked( MouseEvent evt )</div>  |

| DockingWindowCH<br>{ From chimera }  |
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| <div>Attributes</div> <div>private int ICON_SIZE = 8<br/>private Icon VIEW_ICON = new Icon()<br/>private RootWindow rootWindow<br/>private View views[0..*] = new ArrayList&lt;View&gt;()<br/>private ViewMap viewMap = new ViewMap()<br/>private JMenuItems viewItems[0..*] = new ArrayList&lt;JMenuItem&gt;()<br/>private DockingWindowsTheme currentTheme = new ShapedGradientDockingTheme()<br/>private RootWindowProperties properties = new RootWindowProperties()<br/>private byte layouts[0..*][0..*] = new byte[3][3]<br/>private JFrame frame = new JFrame("Chimera")<br/>package XmlRpcClient client = null<br/>package String clientURL = ""</div> |
| <div>Operations</div> <div>public DockingWindowCH( XmlRpcClient client, String clientURL )<br/>private void createRootWindow( )<br/>private void updateViews( DockingWindow window, boolean added )<br/>private void showFrame( )<br/>private JMenuBar createMenuBar( )<br/>private JMenu createLayoutMenu( )<br/>private JMenu createFocusViewMenu( )<br/>private JMenu createPropertiesMenu( )<br/>private void freezeLayout( boolean freeze )<br/>private JMenu createViewMenu( )<br/>private void updateFloatingWindow( FloatingWindow fw )</div>  |

| CameraControl<br>{ From chimera }   |
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| <div>Attributes</div> <div>package boolean DEBUG = false<br/>package NumberFormat myFormat = NumberFormat.getInstance()<br/>package double maxCCDwidth<br/>package double maxCCDheight<br/>package double CCDratio = 1.0<br/>package double selectedCCDwidth<br/>package double selectedCCDheight<br/>package Point CCDselectedPoint<br/>package String subframeVector[0..*]<br/>package String binVector[0..*]<br/>package String fiberVector[0..*]<br/>package int subframeIndex<br/>package JFrame subframeFrame<br/>package JFrame binFrame<br/>package JFrame filterFrame<br/>package JFrame optionsFrame<br/>package XmlRpcClient client = null<br/>package String cameraName = ""<br/>package String clientURL = ""<br/>private JButton AbortButton<br/>private JPanel AbortButtonsPanel<br/>private JButton BinAcceptButton<br/>private JPanel BinAcceptButtonPanel<br/>private ButtonGroup BinButtonGroup<br/>private JPanel BinButtonsPanel<br/>private JLabel BinLabel<br/>private JPanel BinPanel<br/>private JTextField BinTextField<br/>private JToggleButton BinToggleButton<br/>private JPanel ButtonsPanel<br/>private JButton ChooseImagesButton<br/>private JPanel CurrentConfigurationPanel<br/>private JLabel CurrentSetpointLabel<br/>private JTextField CurrentSetpointTextField<br/>private JLabel CurrentTemperatureLabel<br/>private JTextField CurrentTemperatureTextField<br/>private JLabel CurrentlyCoolingLabel<br/>private JTextField CurrentlyCoolingTextField<br/>private JLabel CurrentlyFanningLabel<br/>private JTextField CurrentlyFanningTextField<br/>private JCheckBox DisplayImageCheckBox<br/>private JLabel DisplayImageLabel<br/>private JTextField DisplayImageTextField<br/>private JPanel ExposurePanel<br/>private JLabel ExposureTimeLabel<br/>private JScrollPane ExposureTimeScrollPane<br/>private JTextArea ExposureTimeTextArea<br/>private JButton FilterAcceptButton<br/>private JPanel FilterAcceptButtonPanel<br/>private ButtonGroup FilterButtonGroup<br/>private JPanel FilterButtonsPanel<br/>private JLabel FilterLabel<br/>private JPanel FilterPanel<br/>private JTextField FilterTextField<br/>private JToggleButton FilterToggleButton<br/>private JPanel ImageDisplayOptionsPanel<br/>private JLabel IsCoolingLabel<br/>private JTextField IsCoolingTextField<br/>private JLabel IsFanningLabel<br/>private JTextField IsFanningTextField<br/>private JButton NewSetpointButton<br/>private JLabel NewSetpointLabel<br/>private JTextField NewSetpointTextField<br/>private JButton OptionsAcceptButton<br/>private JPanel OptionsAcceptButtonPanel<br/>private JPanel OptionsPanel<br/>private JToggleButton OtherOptionsToggleButton<br/>private JLabel SecondsLabel<br/>private JSpinner SecondsSpinner<br/>private JLabel SeriesLabel<br/>private JLabel SeriesOLabel<br/>private JSpinner SeriesSpinner<br/>private JTextField SeriesTextField<br/>private JLabel SetpointLabel<br/>private JTextField SetpointTextField<br/>private JButton StartStopCoolingButton<br/>private JButton StartStopFanningButton<br/>private JButton SubframeAcceptButton<br/>private JPanel SubframeAcceptButtonPanel<br/>private JPanel SubframeButtonsPanel<br/>private JPanel SubframeDimensionPanel<br/>private JLabel SubframeLabel<br/>private JPanel SubframePanel<br/>private JTextField SubframeTextField<br/>private JToggleButton SubframeToggleButton<br/>private JButton TakeImageButton<br/>private JLabel TemperatureLabel<br/>private JPanel TemperatureOptionsPanel<br/>private JTextField TemperatureTextField</div> |
| <div>Operations</div> <div>public CameraControl( XmlRpcClient client, String cameraName, String clientURL )<br/>private void AbortImage( )<br/>private void TakeImage( )<br/>private void assembleBinPanel( )<br/>private void assembleFilterPanel( )<br/>private void assembleSubframePanel( )<br/>private void SubframeSizeButtonActionPerformed( ActionEvent evt )<br/>private void SubframeFreezeButtonActionPerformed( ActionEvent evt )<br/>private void assembleOptionsPanel( )<br/>private void createFrames( )<br/>private void getCCDInfo( )<br/>private void uniformFrames( JFrame frame )<br/>private void formWindowDeactivated( JFrame frame )<br/>private void fillBinVector( )<br/>private void fillFilterVector( )<br/>private void fillSubframeVector( )<br/>private void fillVectors( )<br/>private void updateFields( )<br/>private String prettyTime( String seconds )<br/>private String prettySeries( String series )<br/>private void AbortEnabled( )<br/>private void AbortDisabled( )<br/>public void launchDS( File f )<br/>private void initComponents( )<br/>private void SecondsSpinnerStateChanged( ChangeEvent evt )<br/>private void TakeImageButtonActionPerformed( ActionEvent evt )<br/>private void AbortButtonActionPerformed( ActionEvent evt )<br/>private void SeriesSpinnerStateChanged( ChangeEvent evt )<br/>private void FilterToggleButtonActionPerformed( ActionEvent evt )<br/>private void FilterAcceptButtonActionPerformed( ActionEvent evt )<br/>private void BinAcceptButtonActionPerformed( ActionEvent evt )<br/>private void SubframeAcceptButtonActionPerformed( ActionEvent evt )<br/>private void BinToggleButtonActionPerformed( ActionEvent evt )<br/>private void SubframeToggleButtonActionPerformed( ActionEvent evt )<br/>private void OtherOptionsToggleButtonActionPerformed( ActionEvent evt )<br/>private void OptionsAcceptButtonActionPerformed( ActionEvent evt )<br/>private void Debug( String str )<br/>private void Debug( String str )</div>   |

| TelescopeControl<br>{ From chimera }  |
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| <div>Attributes</div> <div>package boolean DEBUG = true<br/>package NumberFormat decimalFormat = NumberFormat.getInstance()<br/>package NumberFormat hoursDegreesMinutesFormat = NumberFormat.getInstance()<br/>package XmlRpcClient myManager<br/>package boolean IS_UPDATING = false<br/>package Timer updateTimer<br/>package SwingWorker initializationWorker<br/>package SwingWorker updateWorker<br/>private JLabel ALTstatusLabel<br/>private JTextField ALTstatusTextField<br/>private JLabel AMstatusLabel<br/>private JTextField AMstatusTextField<br/>private JLabel AZstatusLabel<br/>private JTextField AZstatusTextField<br/>private JSpinner DECInputDegreesSpinner<br/>private JLabel DECInputLabel<br/>private JSpinner DECInputMinutesSpinner<br/>private JSpinner DECInputSecondsSpinner<br/>private JLabel DECstatusLabel<br/>private JTextField DECstatusTextField<br/>private JFormattedTextField EPOCHInputFormattedTextField<br/>private JLabel EPOCHInputLabel<br/>private JButton GETCOORDINATESInputButton<br/>private JToggleButton GuideToggleButton<br/>private JLabel HAstatusLabel<br/>private JTextField HAstatusTextField<br/>private JPanel InputPanel<br/>private JPanel MoveDirectionPanel<br/>private JButton MoveEastButton<br/>private JButton MoveNorthButton<br/>private JComboBox MoveOptionsComboBox<br/>private JPanel MoveOptionsPanel<br/>private JTextField MoveOptionsTextField<br/>private JPanel MovePanel<br/>private JButton MoveSouthButton<br/>private JPanel MoveSpeedPanel<br/>private JButton MoveWestButton<br/>private JLabel NAMEInputLabel<br/>private JTextField NAMEInputTextField<br/>private JSpinner RAInputHoursSpinner<br/>private JLabel RAInputLabel<br/>private JSpinner RAInputMinutesSpinner<br/>private JSpinner RAInputSecondsSpinner<br/>private JLabel RASatusLabel<br/>private JTextField RASatusTextField<br/>private JButton SLEWInputButton<br/>private JToggleButton SlowToggleButton<br/>private JPanel StatusPanel<br/>private JToggleButton TrackToggleButton<br/>private JFormattedTextField JFormattedTextField1<br/>private JSpinner jSpinner10<br/>private JSpinner jSpinner7<br/>private JSpinner jSpinner8<br/>private JSpinner jSpinner9</div> |
| <div>Operations</div> <div>public TelescopeControl( XmlRpcClient manager, String telescopeName )<br/>private void createAndShowGUI( )<br/>private void initializationWorker( )<br/>private void updateTimeActionPerformed( )<br/>private void updatingWorker( )<br/>private void updateFields( )<br/>private void startingValues( )<br/>private void initComponents( )<br/>private void SlowToggleButtonActionPerformed( ActionEvent evt )<br/>private void GuideToggleButtonActionPerformed( ActionEvent evt )<br/>private void TrackToggleButtonActionPerformed( ActionEvent evt )<br/>private double calculateArccosn( )<br/>private void MoveNorthButtonActionPerformed( ActionEvent evt )<br/>private void MoveWestButtonActionPerformed( ActionEvent evt )<br/>private void MoveEastButtonActionPerformed( ActionEvent evt )<br/>private void MoveSouthButtonActionPerformed( ActionEvent evt )<br/>private void NAMEinputTextFieldFocusGained( FocusEvent evt )<br/>private void EPOCHInputFormattedTextFieldFocusGained( FocusEvent evt )<br/>private void MoveOptionsComboBoxActionPerformed( ActionEvent evt )<br/>private void RAInputSecondsSpinnerStateChanged( ChangeEvent evt )<br/>private void RAInputMinutesSpinnerStateChanged( ChangeEvent evt )<br/>private void RAInputHoursSpinnerStateChanged( ChangeEvent evt )<br/>private void maxRAInputs( )<br/>private void minRAInputs( )<br/>private void DECInputSecondsSpinnerStateChanged( ChangeEvent evt )<br/>private void DECInputMinutesSpinnerStateChanged( ChangeEvent evt )<br/>private void DECInputDegreesSpinnerStateChanged( ChangeEvent evt )<br/>private void maxDECInputs( )<br/>private void minDECInputs( )<br/>private void SLEWInputButtonActionPerformed( ActionEvent evt )<br/>private void GETCOORDINATESInputButtonActionPerformed( ActionEvent evt )<br/>private void Debug( String str )<br/>private void Debug( String str )<br/>private void DebugError( String str )</div>   |

myTelescope

| TelescopeObject<br>{ From chimera }  |
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| <div>Attributes</div> <div>private XmlRpcClient myManager<br/>private String myName</div>  |
| <div>Operations</div> <div>public TelescopeObject( XmlRpcClient manager, String telescopeName )<br/>private void initComponents( )<br/>private void slewToObject( String name )<br/>public void slewToRadec( String RA, String DEC, String EPOCH )<br/>private void slewToRAAz( String position )<br/>private void slewToSlew( )<br/>public boolean isSlewing( )<br/>public void moveEast( double offset )<br/>public void moveWest( double offset )<br/>public void moveNorth( double offset )<br/>public void moveSouth( double offset )<br/>public String getRa( )<br/>public String getDec( )<br/>public String getAz( )<br/>public String getAlt( )<br/>public String getRA( )<br/>private void getPositionRadec( )<br/>private void getPositionAAz( )<br/>private void getTargetRadec( )<br/>private void getTargetAAz( )<br/>private void syncObject( String name )<br/>private void syncRadec( String position )<br/>private void syncAAz( String position )<br/>private void park( )<br/>private void unPark( )<br/>private boolean isParked( )<br/>private void selfParkPosition( String position )<br/>private void startTracking( )<br/>private void stopTracking( )<br/>private boolean isTracking( )</div> |

| CameraObject<br>{ From chimera }  |
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| <div>Attributes</div> <div>private XmlRpcClient myManager<br/>private String myName</div>   |
| <div>Operations</div> <div>public CameraObject( XmlRpcClient manager, String cameraName )<br/>private void initComponents( )<br/>private String[0..*] expose( double exp_time, int frames, double interval, String shutter, String binning, String window, String filename )<br/>public boolean abortExposure( boolean readout )<br/>public boolean isExposing( )<br/>public boolean startCooling( )<br/>public boolean stopCooling( )<br/>public boolean isCooling( )<br/>public boolean setTemperature( double tempC )<br/>public double getTemperature( )<br/>public double getSetpoint( )<br/>public boolean startFan( )<br/>public boolean stopFan( )<br/>public boolean isFanning( )<br/>public Object getCCDs( )<br/>public Object getCurrentCCD( )<br/>public Object getBinnings( )<br/>public Object getADCs( )<br/>public String getPhysicalSize( )<br/>public String getPixelSize( )<br/>public String getOverscanSize( )<br/>private boolean supports( String feature )</div> |

myCamera