Agentry OpenUI API

SAP Mobile Platform 3.0

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Agentry OpenUI API

Learn about the Agentry OpenUI API, which provdes the interface to support development of custom controls to be displayed within the Agentry Client. Review the concepts and general procedure, then use the OpenUI API for your target platform.

Agentry Client OpenUI API Overview

Installed with the SAP® Mobile Platform SDK there is the `AgentryClientFramework.zip` archive. This archive includes the OpenUI API components to allow development of custom controls for the Agentry Client. The API is provided for Android, iOS, and Windows client devices. Using this API developers can create customer controls using the native language of the target device client and to display those controls within the detail screens of the mobile application.

The API allows for any field edit type of detail screen fields to be overridden with a custom control. When implemented, the custom control is then displayed in place of the detail screen field. Communication between the control and the Agentry Client is supported, with information about changes to the underlying field, data capture in the custom control, and other similar interactions supported.

In order to make use of the OpenUI, the ZIP archive installed by the SAP Mobile Platform SDK includes Agentry Client resources which can be built with the customer control code to generate a new Agentry Client executable containing the custom control or controls. This executable is then deployed to the client devices in lieu of the standard Agentry Client provided by SAP.

In order to work with the OpenUI API it is necessary to have installed and configured, separate from the items provided in the SAP Mobile Platform SDK, the proper development tools relative the client platform or platforms for which you wish to develop custom controls or make branding changes. Details on these tools are provided in each of the installation sections relative to the OpenUI API for each platform.

It is also necessary, as a developer, to have the skill set to develop in these native languages. Information provided here assumes the developer is experienced in developing in the language (Objective C, Java, Visual Basic, C#, etc.) corresponding to the client device type for which the controls are being created.

OpenUI Replaces the Agentry Client SDK and the ActiveX API for New Development
In previous releases of the Agentry Mobile Platform (6.0 and prior) as well as the Agentry archetype in SAP Mobile Platform 2.3, the option to create custom controls was supported with the ActiveX API provided as a part of the Agentry Client SDK. This API is still available

within the SAP Mobile SDK and is provided for backwards compatibility of existing implementations. Applications making use of the ActiveX API can be migrated to SAP Mobile Platform 3.0 without modification to the ActiveX custom controls.

Going forward, there will be no further functional advancement of the ActiveX API. It is highly recommended that all new implementations in which custom controls are to be added make use of the OpenUI API. First, ActiveX is only available for custom control development on Windows desktop and Windows mobile client devices. The OpenUI API includes support for Windows, iOS, and Android devices. Second, later versions of Windows Mobile do not provide support for ActiveX in the same manner and the ActiveX API provided for Agentry applications are somewhat more challenging to work with.

OpenUI SDK Concepts, Usage and Guidance

The OpenUI provided within the SAP Mobile Platform SDK includes three API's, one for each of the platforms Android, iOS, and Windows .NET. Each of these API's provides the interface to support the development of custom controls to be displayed within the Agentry Client. These controls override the default display and behavior of the detail screen fields that are a part of the Agentry application project.

When looking to make use of this SDK, you should first investigate the standard field edit types available to you to verify the behavior you desire is not already one which can be defined within the application project. Assuming there is a need, however, the OpenUI SDK can be used to create almost limitless variations in the user interface of the Agentry Client.

In addition to the necessary code written to create the custom control, it is also necessary to make modifications to the Agentry application project within the Agentry Editor, specifically within the field definition. These changes include modifying the attributes of the field to be overridden, providing information about the class containing the override code, as well as specifying the values and actions available within the Agentry application project the custom control can access and execute, and finally the values available to the Agentry Client from the custom control.

General Procedure to Create Custom Controls

Creating a custom control for your mobile application includes the following tasks:

1. Install the OpenUI SDK API component for the target client platform, per the instructions provided in the guide Setting Up the Development Environment - Agentry Toolkit"
2. Using the Agentry Editor modify the application project by defining the detail screen field to be overridden by the custom control This includes specifying the Extension Adapter Name, as well as the Extension Values, Agentry Values, and Agentry Actions.
3. Using the IDE appropriate for the client platform, create the custom control using the OpenUI API.
4. Build the project within the IDE, which will result in either a full Agentry Client build that includes the custom control logic (Android, iOS); or a DLL containing the customer control logic to be deployed wit the Agentry Client executable (Windows .NET).

5. Deploy the Agentry Client to a device and test all behaviors. Make needed changes based on testing and repeat the build and deploy steps until the functionality is considered fully developed and ready for distribution.
6. Distribute the application to the client devices according to the standard procedures of the client device platform. (Continue reading for more information on distribution.)

Distributing the Agentry Client With Custom Controls

Once custom controls have been developed the Agentry Client must be rebuilt or repackaged, depending on the client platform, in order to distribute them to the mobile users. For both Android and iOS devices, this requires the Agentry Client to be rebuilt and resigned. For Windows devices, the Agentry Client can be repackaged using the Agentry Client Branding SDK.

The projects included in the OpenUI SDK for both Android and iOS are structured for this purpose. Included in both are resource projects which can be modified to both resign the application as well as rebrand it as needed. When built a distributable application (`.apk` file for Android; `.ipa` file for iOS) is created.

Developer Requirements and Responsibilities

As a developer of custom controls using the OpenUI SDK, you are expected to provide certain information about the control to the Agentry Client at runtime. Of course this includes the field's behavior itself, including all display aspects and behaviors. Additionally, it includes items such as size of the control displayed on the detail screen, including whether this size is dictated by the Agentry Client via the sizing attributes of the field definition or by the custom control. You must also specify and create logic for the values available to the Agentry Client, including the value used to set the target property of the detail screen field being overridden.

Included in this behavior for all custom controls, regardless of the field edit type which they override, should be appropriate behaviors related to the various states a field can be in. This includes whether the field is enabled or disabled, and whether the field is visible or hidden. An enabled field and a disabled field can both still be visible, so the custom control should then allow for this and be displayed appropriately. As a basic example, some types of controls are grayed out or have an otherwise different appearance to indicate visually to the user the field cannot be interacted with. If the field is not visible, the Agentry Client will not display the custom control to the user.

In such a situation, the logic should account for this state and handle any values it would otherwise display or make available appropriately. In the event of a non-visible field that is in an enabled, state, the Agentry Client will still enforce any requirements regarding the value returned by the field, for example a minimum string length. In such a situation, a reasonable default value should be provided by the custom control. Disabled fields, regardless of visible state, will not have their values validated. Note that a read-only field is not the same as a disabled field within the Agentry Client. The enabled or disabled state is controled by the Enabled attribute for a field definition. This is typically set at runtime on the Agentry Client

based on a return value from a rule. As such, it is important to have a full understanding of the field definition's defined behavior while implementing the custom control logic.

Runtime Behavior of the Agentry Client With Custom Controls
The Agentry Client will look to load the referenced custom control, based on the settings of the External Adapter Name attribute within the detail screen field definition, when that field is displayed on it's parent details screen. If it cannot find an adaptor with the referenced named, it will display the field defined within the Agentry application project according to that field's edit type.

When a custom control is displayed, the user will see the custom control on the detail screen as if it were a built in control. The behavior of the custom control is then dictated by the logic the you have implemented for that control.

Agentry OpenUI API for Android

Use the OpenUI API for Android to add custom controls to Agentry applications.

com.sap.mobile.platform package

client package

openui package

adapters package

BooleanDisplayAdapter class
The class that any extension class for boolean display needs to extend.

Syntax
```
public abstract class BooleanDisplayAdapter extends
FieldAdapter
```

Members
All members of BooleanDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(BooleanDisplayModel, Context)* on page 6	Called to initialize the extension with its model and Android context.

Modifier and Type	Method	Description
public void	*valueChanged(boolean)* on page 6	This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to auto-size to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.

Modifier and Type	Member	Description
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(BooleanDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(BooleanDisplayModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(boolean) method

This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(boolean value)
```

Parameters

- **value –** the new value for the field

BooleanEditAdapter class

The class that any extension class for boolean edit needs to extend.

Syntax

```
public abstract class BooleanEditAdapter extends FieldAdapter
```

Members

All members of BooleanEditAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(BooleanEditModel, Context)* on page 8	Called to initialize the extension with its model and Android context.
public void	*valueChanged(boolean)* on page 9	This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.

Modifier and Type	Member	Description
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(BooleanEditModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(BooleanEditModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(boolean) method

This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(boolean value)
```

Parameters

- **value –** the new value for the field

ButtonDisplayAdapter class

The class that any extension class for button display needs to extend.

Syntax

```
public abstract class ButtonDisplayAdapter extends
FieldAdapter
```

Members

All members of ButtonDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public void	*buttonImageChanged(AgentryImage)* on page 11	This method notifies the extension that the field's image has changed.
public abstract void	*initialize(ButtonDisplayModel, Context)* on page 11	Called to initialize the extension with its model and Android context.
public void	*selectedStateChanged(boolean)* on page 11	This method is called when the field's selected state has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.

Modifier and Type	Member	Description
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

buttonImageChanged(AgentryImage) method

This method notifies the extension that the field's image has changed.

Syntax

```
public void buttonImageChanged(AgentryImage newImage)
```

Parameters

- **newImage –** the new image to display on the button.

initialize(ButtonDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(ButtonDisplayModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

selectedStateChanged(boolean) method

This method is called when the field's selected state has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void selectedStateChanged(boolean selected)
```

Parameters

- **selected –** the new selected state for the field

DateAndTimeDisplayAdapter class

The class that any extension class for time and date display needs to extend.

Syntax

```
public abstract class DateAndTimeDisplayAdapter extends
FieldAdapter
```

Members

All members of DateAndTimeDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(DateAndTimeDisplayModel, Context)* on page 13	Called to initialize the extension with its model and Android context.
public void	*valueChanged(GregorianCalendar)* on page 13	This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.

Modifier and Type	Member	Description
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(DateAndTimeDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(DateAndTimeDisplayModel model, Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(GregorianCalendar) method

This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(GregorianCalendar value)
```

Parameters

- **value –** the new value for the field

DateAndTimeEditAdapter class

The class that any extension class for time and date edit needs to extend.

Syntax

```
public abstract class DateAndTimeEditAdapter extends
FieldAdapter
```

Members

All members of DateAndTimeEditAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(DateAndTimeEdit-Model, Context)* on page 15	Called to initialize the extension with its model and Android context.
public void	*valueChanged(GregorianCa-lendar)* on page 16	This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to auto-size to accommodate the dis-played data.
public int	*getContentHeightForAutosiz-ing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is over-ridden to return AutosizeBehav-ior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.

Modifier and Type	Member	Description
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(DateAndTimeEditModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(DateAndTimeEditModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(GregorianCalendar) method

This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(GregorianCalendar value)
```

Parameters

- **value –** the new value for the field

DateDisplayAdapter class

The class that any extension class for date display needs to extend.

Syntax

```
public abstract class DateDisplayAdapter extends FieldAdapter
```

Members

All members of DateDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(DateDisplayModel, Context)* on page 18	Called to initialize the extension with its model and Android context.
public void	*valueChanged(GregorianCalendar)* on page 18	This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to auto-size to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.

Modifier and Type	Member	Description
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(DateDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(DateDisplayModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(GregorianCalendar) method

This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(GregorianCalendar value)
```

Parameters

- **value –** the new value for the field

DateEditAdapter class

The class that any extension class for date edit needs to extend.

Syntax

```
public abstract class DateEditAdapter extends FieldAdapter
```

Members

All members of DateEditAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(DateEditModel, Context)* on page 20	Called to initialize the extension with its model and Android context.
public void	*valueChanged(GregorianCalendar)* on page 20	This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.

Modifier and Type	Member	Description
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(DateEditModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(DateEditModel model, Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(GregorianCalendar) method

This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(GregorianCalendar value)
```

Parameters

- **value –** the new value for the field

DecimalDisplayAdapter class

The class that any extension class for decimal display needs to extend.

Syntax

```
public abstract class DecimalDisplayAdapter extends
FieldAdapter
```

Members

All members of DecimalDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(DecimalDisplayModel, Context)* on page 22	Called to initialize the extension with its model and Android context.
public void	*valueChanged(double)* on page 23	This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.

Modifier and Type	Member	Description
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(DecimalDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(DecimalDisplayModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(double) method

This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(double value)
```

Parameters

- **value –** the new value for the field

DecimalEditAdapter class

The class that any extension class for decimal edit needs to extend.

Syntax

```
public abstract class DecimalEditAdapter extends FieldAdapter
```

Members

All members of DecimalEditAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(DecimalEditModel, Context)* on page 25	Called to initialize the extension with its model and Android context.
public void	*valueChanged(double)* on page 25	This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to auto-size to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.

Modifier and Type	Member	Description
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(DecimalEditModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(DecimalEditModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(double) method

This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(double value)
```

Parameters

- **value –** the new value for the field

DurationDisplayAdapter class

The class that any extension class for duration display needs to extend.

Syntax

```
public abstract class DurationDisplayAdapter extends
FieldAdapter
```

Members

All members of DurationDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public void	*fractionalHourValueChanged(double)* on page 27	This method is called when the field's underlying value has changed and the UI needs to be updated to display the correct value.
public abstract void	*initialize(DurationDisplayModel, Context)* on page 28	Called to initialize the extension with its model and Android context.
public void	*valueChanged(int)* on page 28	This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.

Modifier and Type	Member	Description
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

Usage

Depending on the display format, the host will call either `valueChanged(int)` or `fractionalHourValueChanged(double)` to notify the adapter of updates.

fractionalHourValueChanged(double) method

This method is called when the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

`public void fractionalHourValueChanged(double` *value*`)`

Parameters

- **value –** the new value for the field (in hours)

Usage

This should be used when the `DurationDisplayFormat` is set to `DecHour`, which can be checked by calling `DurationDisplayModel.getDurationDisplayFormat()`.

initialize(DurationDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(DurationDisplayModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(int) method

This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(int value)
```

Parameters

- **value –** the new value for the field (in seconds)

DurationEditAdapter class

The class that any extension class for duration edit needs to extend.

Syntax

```
public abstract class DurationEditAdapter extends
FieldAdapter
```

Members

All members of DurationEditAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public void	*fractionalHourValue-Changed(double)* on page 30	This method is called when the field's underlying value has changed and the UI needs to be updated to display the correct value.

Modifier and Type	Method	Description
public abstract void	*initialize(DurationEditModel, Context)* on page 31	Called to initialize the extension with its model and Android context.
public void	*valueChanged(int)* on page 31	This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.

Modifier and Type	Member	Description
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

Usage

Depending on the display format, the host will call either `valueChanged(int)` or `fractionalHourValueChanged(double)` to notify the adapter of updates.

fractionalHourValueChanged(double) method

This method is called when the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

`public void fractionalHourValueChanged(double` *value*`)`

Parameters

- **value –** the new value for the field (in hours)

Usage

This should be used when the `DurationDisplayFormat` is set to DecHour.

initialize(DurationEditModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(DurationEditModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(int) method

This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(int value)
```

Parameters

- **value –** the new value for the field (in seconds)

EmbeddedImageDisplayAdapter class

The class that any extension class for embedded image display needs to extend.

Syntax

```
public abstract class EmbeddedImageDisplayAdapter extends
FieldAdapter
```

Members

All members of EmbeddedImageDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public void	*imageChanged()* on page 33	This method is called when the field's underlying image has changed.
public void	*imageSelectionChanged()* on page 33	This method is called when the field's underlying cell selection has changed.

Modifier and Type	Method	Description
public abstract void	*initialize(EmbeddedImageDisplayModel, Context)* on page 33	Called to initialize the extension with its model and Android context.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.

Modifier and Type	Member	Description
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

imageChanged() method

This method is called when the field's underlying image has changed.

Syntax

```
public void imageChanged()
```

Usage

It only notifies the extension that there is a change. It is the extension's responsibility to call back into the host model to get the new image when it's ready.

imageSelectionChanged() method

This method is called when the field's underlying cell selection has changed.

Syntax

```
public void imageSelectionChanged()
```

Usage

It only notifies the extension that there is a change. It is the extension's responsibility to call back into the host model to get the selected cells.

initialize(EmbeddedImageDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(EmbeddedImageDisplayModel model, Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

ExternalDataDisplayAdapter class

The class that any extension class for external data display needs to extend.

Syntax

```
public abstract class ExternalDataDisplayAdapter extends
FieldAdapter
```

Members

All members of ExternalDataDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(ExternalDataDisplay-Model, Context)* on page 35	Called to initialize the extension with its model and Android context.
public void	*valueChanged(String)* on page 36	This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to auto-size to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.

Modifier and Type	Member	Description
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(ExternalDataDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(ExternalDataDisplayModel model, Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(String) method

This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(String value)
```

Parameters

- **value –** the new value for the field

ExternalDataEditAdapter class

The class that any extension class for external data edit needs to extend.

Syntax

```
public abstract class ExternalDataEditAdapter extends
FieldAdapter
```

Members

All members of ExternalDataEditAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(ExternalDataEditModel, Context)* on page 38	Called to initialize the extension with its model and Android context.
public void	*valueChanged(String)* on page 38	This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to auto-size to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.

Modifier and Type	Member	Description
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(ExternalDataEditModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(ExternalDataEditModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(String) method

This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(String value)
```

Parameters

- **value –** the new value for the field

FieldAdapter class

This is the abstract class all open UI adapter abstract classes derive from.

Syntax

```
public abstract class FieldAdapter
```

Derived classes

- *BooleanDisplayAdapter* on page 4
- *BooleanEditAdapter* on page 7
- *ButtonDisplayAdapter* on page 9
- *DateAndTimeDisplayAdapter* on page 11

- *DateAndTimeEditAdapter* on page 14
- *DateDisplayAdapter* on page 16
- *DateEditAdapter* on page 18
- *DecimalDisplayAdapter* on page 21
- *DecimalEditAdapter* on page 23
- *DurationDisplayAdapter* on page 25
- *DurationEditAdapter* on page 28
- *EmbeddedImageDisplayAdapter* on page 31
- *ExternalDataDisplayAdapter* on page 34
- *ExternalDataEditAdapter* on page 36
- *IntegerDisplayAdapter* on page 45
- *IntegerEditAdapter* on page 47
- *LabelDisplayAdapter* on page 49
- *LocationDisplayAdapter* on page 52
- *LocationEditAdapter* on page 54
- *StringDisplayAdapter* on page 56
- *StringEditAdapter* on page 59
- *TimeDisplayAdapter* on page 61
- *TimeEditAdapter* on page 63

Members

All members of FieldAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to auto-size to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.

Modifier and Type	Method	Description
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

getAutosizeBehavior() method

Called by Agentry to ask if the extension view needs to auto-size to accommodate the displayed data.

Syntax

```
public AutosizeBehavior getAutosizeBehavior()
```

Returns

the autosize behavior

Usage

If this returns `Autosize_WrapContent` and the field's height in the editor is set to "Auto", Agentry will call `getContentHeightForAutosizing` to get the needed height from

the extension. If this returns `Autosize_FillVisible`, Agentry will size the field to fill the available screen area. If this returns `Autosize_None`, Agentry will size the extension without asking.

This works in conjunction with `FieldModel.isAutosizeSupported()` which allows the extension to ask if the editor definitions support autosizing. `autosizeBehavior()` is Agentry's way of asking if the extension is able to handle autosizing.

getContentHeightForAutosizing(int) method

Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.

Syntax

```
public int getContentHeightForAutosizing(int width)
```

Parameters

- **width –** the width of the extension's content area in pixels

Returns

the height needed in pixels for the extension to show the current data

Usage

Agentry passes in the extension view's width in pixels. The extension then needs measure the height needed for the content in pixels and return it.

getExtensionString(String) method

Called by the Agentry to get the value for the specified string.

Syntax

```
public String getExtensionString(String name)
```

Parameters

- **name –** the string that Agentry is requesting

Returns

the value the extension determines based on the specified key

Usage

In the definitions, there are specified keys. The string passed in is a key, the value is returned from the extension.

getView() method
Called to get the Android View that will be added as a subview to the Agentry layout.

Syntax
```
public abstract View getView()
```

Returns
Android view to display

Usage
This will be called one time from Agentry.

isAgentryDisplayingLabel() method
Called to ask if Agentry should handle displaying the label.

Syntax
```
public boolean isAgentryDisplayingLabel()
```

Returns
true if the Agentry should handle displaying the label, false if the extension will handle displaying the label

Usage
If this method returns true, Agentry will handle displaying the label, including hyperlink functionality. If this method returns false, the extension takes responsibility for the label (and is free to just not bother with it).

By default, the extension is responsible for displaying the label.

isAgentryDisplayingValidationFailure() method
Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.

Syntax
```
public boolean isAgentryDisplayingValidationFailure()
```

Returns
true if the Agentry should handle displaying the validation failure text, false if the extension will handle displaying the validation failure text

Usage

If this method returns true, Agentry will handle displaying the field validation failure text. If this method returns false, the extension takes responsibility for the field validation failure text.

By default, Agentry is responsible for displaying the validation failure text.

onActivityResult(int, int, Intent) method

Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.

Syntax

```
public void onActivityResult(int requestCode, int resultCode,
Intent intent)
```

Parameters

- **requestCode –** the integer request code that was supplied to the activity
- **resultCode –** the activity result
- **intent –** the means to get at the data

setEnabled(boolean) method

Called to inform the extension that the Agentry field's enable state has changed.

Syntax

```
public void setEnabled(boolean enabled)
```

Parameters

- **enabled –** true to indicate it is enabled, false to indicate it is disabled

setHyperlinkEnabled(boolean) method

Called to inform the extension that the enabled state of the label hyperlink action has changed.

Syntax

```
public void setHyperlinkEnabled(boolean enabled)
```

Parameters

- **enabled –** true if hyperlink is enabled, false if hyperlink is disabled

Usage

Only called if the extension is handling the label functionality and a hyperlink is defined.

setValid(boolean, String) method

Called to inform the extension that the Agentry field's valid state has changed.

Syntax

```
public void setValid(boolean valid, String validationMessage)
```

Parameters

- **valid –** true if the field value is valid, false for invalid
- **validationMessage –** the message to display to the user

Usage

The field has either become invalid and the user needs to be informed with the validation message, or it has become valid and any previously displayed validation failure text needs to be hidden.

The validation message will contain information that tells the user why their field is invalid.

setVisible(boolean) method

Called to inform the extension that the Agentry field's visibility has changed.

Syntax

```
public void setVisible(boolean visible)
```

Parameters

- **visible –** true to indicate it is visible, false to indicate it is hidden

Usage

The view for the extension will be shown or hidden automatically. The extension will receive this call to do any additional actions it needs to do when the visible state changes.

updateLabel(String) method

Called to inform the extension that the label text has changed.

Syntax

```
public void updateLabel(String label)
```

Parameters

- **label –** the new value for the label

Usage

Only called if the extension is handling the label functionality and the label is defined with a rule.

IntegerDisplayAdapter class

The class that any extension class for integer display needs to extend.

Syntax

```
public abstract class IntegerDisplayAdapter extends
FieldAdapter
```

Members

All members of IntegerDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(IntegerDisplayModel, Context)* on page 46	Called to initialize the extension with its model and Android context.
public void	*valueChanged(int)* on page 47	This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.

Modifier and Type	Member	Description
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(IntegerDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(IntegerDisplayModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(int) method

This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(int value)
```

Parameters

- **value –** the new value for the field

IntegerEditAdapter class

The class that any extension class for integer editing needs to extend.

Syntax

```
public abstract class IntegerEditAdapter extends FieldAdapter
```

Members

All members of IntegerEditAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(IntegerEditModel, Context)* on page 49	Called to initialize the extension with its model and Android context.
public void	*valueChanged(int)* on page 49	This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.

Modifier and Type	Member	Description
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(IntegerEditModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(IntegerEditModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(int) method

This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(int value)
```

Parameters

- **value –** the new value for the field

LabelDisplayAdapter class

The class that any extension class for label display needs to extend.

Syntax

```
public abstract class LabelDisplayAdapter extends
FieldAdapter
```

Members

All members of LabelDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(LabelDisplayModel, Context)* on page 51	Called to initialize the extension with its model and Android context.

Modifier and Type	Method	Description
public void	*valueChanged(String)* on page 51	This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to auto-size to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.

Modifier and Type	Member	Description
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

Usage

This extension is responsible for displaying the label. Its `getView()` method should return the label view. The control's value is considered to be the label text.

initialize(LabelDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(LabelDisplayModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(String) method

This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(String value)
```

Parameters

- **value –** the new value for the field

LocationDisplayAdapter class

The class that any extension class for location display needs to extend.

Syntax

```
public abstract class LocationDisplayAdapter extends
FieldAdapter
```

Members

All members of LocationDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(LocationDisplayModel, Context)* on page 53	Called to initialize the extension with its model and Android context.
public void	*valueChanged(AgentryLocation)* on page 54	This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.

Modifier and Type	Member	Description
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(LocationDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(LocationDisplayModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(AgentryLocation) method

This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(AgentryLocation value)
```

Parameters

- **value –** the new value for the field

LocationEditAdapter class

The class that any extension class for location edit needs to extend.

Syntax

```
public abstract class LocationEditAdapter extends
FieldAdapter
```

Members

All members of LocationEditAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(LocationEditModel, Context)* on page 56	Called to initialize the extension with its model and Android context.
public void	*valueChanged(AgentryLocation)* on page 56	This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to auto-size to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.

Modifier and Type	Member	Description
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(LocationEditModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(LocationEditModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(AgentryLocation) method

This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(AgentryLocation value)
```

Parameters

- **value –** the new value for the field

StringDisplayAdapter class

The class that any extension class for string display needs to extend.

Syntax

```
public abstract class StringDisplayAdapter extends
FieldAdapter
```

Members

All members of StringDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(StringDisplayModel, Context)* on page 58	Called to initialize the extension with its model and Android context.
public void	*valueChanged(String)* on page 58	This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.

Modifier and Type	Member	Description
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(StringDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(StringDisplayModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(String) method

This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(String value)
```

Parameters

- **value –** the new value for the field

StringEditAdapter class

The class that any extension class for string edit needs to extend.

Syntax

```
public abstract class StringEditAdapter extends FieldAdapter
```

Members

All members of StringEditAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(StringEditModel, Context)* on page 60	Called to initialize the extension with its model and Android context.
public void	*valueChanged(String)* on page 61	This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.

Modifier and Type	Member	Description
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(StringEditModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(StringEditModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.

- **context –** Android context to use

valueChanged(String) method

This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(String value)
```

Parameters

- **value –** the new value for the field

TimeDisplayAdapter class

The class that any extension class for time display needs to extend.

Syntax

```
public abstract class TimeDisplayAdapter extends FieldAdapter
```

Members

All members of TimeDisplayAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(TimeDisplayModel, Context)* on page 63	Called to initialize the extension with its model and Android context.
public void	*valueChanged(GregorianCalendar)* on page 63	This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.

Modifier and Type	Member	Description
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(TimeDisplayModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(TimeDisplayModel model,
Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(GregorianCalendar) method

This method is called by the to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(GregorianCalendar value)
```

Parameters

- **value –** the new value for the field

TimeEditAdapter class

The class that any extension class for time edit needs to extend.

Syntax

```
public abstract class TimeEditAdapter extends FieldAdapter
```

Members

All members of TimeEditAdapter, including inherited members. **Methods**

Modifier and Type	Method	Description
public abstract void	*initialize(TimeEditModel, Context)* on page 65	Called to initialize the extension with its model and Android context.

Modifier and Type	Method	Description
public void	*valueChanged(GregorianCalendar)* on page 65	This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Inherited members from FieldAdapter

Modifier and Type	Member	Description
public AutosizeBehavior	*getAutosizeBehavior()* on page 40	Called by Agentry to ask if the extension view needs to autosize to accommodate the displayed data.
public int	*getContentHeightForAutosizing(int)* on page 41	Agentry will call this method if getAutosizeBehavior() is overridden to return AutosizeBehavior.Autosize_WrapContent.
public String	*getExtensionString(String)* on page 41	Called by the Agentry to get the value for the specified string.
public abstract View	*getView()* on page 42	Called to get the Android View that will be added as a subview to the Agentry layout.
public boolean	*isAgentryDisplayingLabel()* on page 42	Called to ask if Agentry should handle displaying the label.
public boolean	*isAgentryDisplayingValidationFailure()* on page 42	Called to ask if Agentry should handle displaying validation failure text or leave it to the extension.
public void	*onActivityResult(int, int, Intent)* on page 43	Called from activity launched through FieldModel.launchActivity(Intent intent, int requestCode) Allows extension the opportunity to handle any result from the now closed activity.

Modifier and Type	Member	Description
public void	*setEnabled(boolean)* on page 43	Called to inform the extension that the Agentry field's enable state has changed.
public void	*setHyperlinkEnabled(boolean)* on page 43	Called to inform the extension that the enabled state of the label hyperlink action has changed.
public void	*setValid(boolean, String)* on page 44	Called to inform the extension that the Agentry field's valid state has changed.
public void	*setVisible(boolean)* on page 44	Called to inform the extension that the Agentry field's visibility has changed.
public void	*updateLabel(String)* on page 44	Called to inform the extension that the label text has changed.

initialize(TimeEditModel, Context) method

Called to initialize the extension with its model and Android context.

Syntax

```
public abstract void initialize(TimeEditModel model, Context context)
```

Parameters

- **model –** a reference to the object that implements the model. This will be the extension's means of calling into Agentry.
- **context –** Android context to use

valueChanged(GregorianCalendar) method

This method is called by the host to inform the adapter that the field's underlying value has changed and the UI needs to be updated to display the correct value.

Syntax

```
public void valueChanged(GregorianCalendar value)
```

Parameters

- **value –** the new value for the field

models package

BooleanDisplayModel interface

Interface given to a boolean display extension object so it can call back into the host.

Syntax

```
public interface BooleanDisplayModel extends FieldModel
```

Derived classes

- *BooleanEditModel* on page 67

Members

All members of BooleanDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public boolean	*getValue()* on page 67	Returns the current value of the field.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.

Modifier and Type	Member	Description
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getValue() method

Returns the current value of the field.

Syntax

```
public boolean getValue()
```

Returns

the field value

BooleanEditModel interface

Interface given to a boolean edit extension object so it can call back into the host.

Syntax

```
public interface BooleanEditModel extends BooleanDisplayModel
```

Members

All members of BooleanEditModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public ProcessInputReturn	*processInput(boolean)* on page 69	Processes the input of the field.

Inherited members from BooleanDisplayModel

Modifier and Type	Member	Description
public boolean	*getValue()* on page 67	Returns the current value of the field.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

processInput(boolean) method
Processes the input of the field.

Syntax
```
public ProcessInputReturn processInput(boolean value)
```

Parameters

- **value –** the value to process

Returns
result based on the value passed in

Usage
Returns a `ProcessInputReturn` representing the result of processing the input.

ButtonDisplayModel interface
Interface given to a button display extension object so it can call back into the host.

Syntax
```
public interface ButtonDisplayModel extends FieldModel
```

Members
All members of ButtonDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public AgentryImage	*getButtonImage()* on page 70	Returns the image associated with the button.
public String	*getButtonText()* on page 71	Returns the text that the button should display.
public ButtonType	*getButtonType()* on page 71	Returns the button type.
public boolean	*hasAction()* on page 71	Returns whether or not there is an action tied to the button.
public boolean	*isButtonSelected()* on page 71	Returns whether or not the button is selected.
public ProcessInputReturn	*processInput()* on page 72	Called to process the button push.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getButtonImage() method

Returns the image associated with the button.

Syntax

```
public AgentryImage getButtonImage()
```

Returns
the associated image

getButtonText() method
Returns the text that the button should display.

Syntax
```
public String getButtonText()
```

Returns
the button text

getButtonType() method
Returns the button type.

Syntax
```
public ButtonType getButtonType()
```

Returns
the type of button

Usage
Possible types are checkbox, radio and push button.

hasAction() method
Returns whether or not there is an action tied to the button.

Syntax
```
public boolean hasAction()
```

Returns
true if action is supported, false if action is not supported

isButtonSelected() method
Returns whether or not the button is selected.

Syntax
```
public boolean isButtonSelected()
```

Returns
true if selected, false if not selected

processInput() method
Called to process the button push.

Syntax
```
public ProcessInputReturn processInput()
```

Returns
result of processing the push

Usage
Returns a `ProcessInputReturn` representing the result of processing the push.

DateAndTimeDisplayModel interface
Interface given to a time and date display extension object so it can call back into the host.

Syntax
```
public interface DateAndTimeDisplayModel extends FieldModel
```

Derived classes

- *DateAndTimeEditModel* on page 73

Members
All members of DateAndTimeDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public GregorianCalendar	*getValue()* on page 73	Returns the field's current date and time value.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.

Modifier and Type	Member	Description
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getValue() method

Returns the field's current date and time value.

Syntax

```
public GregorianCalendar getValue()
```

Returns

the date

DateAndTimeEditModel interface

Interface given to a time and date edit extension object so it can call back into the host.

Syntax

```
public interface DateAndTimeEditModel extends
DateAndTimeDisplayModel
```

Members

All members of DateAndTimeEditModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public ProcessInputReturn	*processInput(GregorianCalendar)* on page 75	Processes the date and time input.

Inherited members from DateAndTimeDisplayModel

Modifier and Type	Member	Description
public GregorianCalendar	*getValue()* on page 73	Returns the field's current date and time value.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.

Modifier and Type	Member	Description
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

processInput(GregorianCalendar) method

Processes the date and time input.

Syntax

```
public ProcessInputReturn processInput(GregorianCalendar dateAndTime)
```

Parameters

- **dateAndTime –** the date and time value to process

Returns

result based on the value passed in

Usage

Returns a `ProcessInputReturn` representing the result of processing the input.

DateDisplayModel interface

Interface given to a date display extension object so it can call back into the host.

Syntax

```
public interface DateDisplayModel extends FieldModel
```

Derived classes

- *DateEditModel* on page 77

Members

All members of DateDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public GregorianCalendar	*getValue()* on page 77	Returns the field's current date value.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getValue() method
Returns the field's current date value.

Syntax
```
public GregorianCalendar getValue()
```

Returns
the date

DateEditModel interface
Interface given to a date edit extension object so it can call back into the host.

Syntax
```
public interface DateEditModel extends DateDisplayModel
```

Members
All members of DateEditModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public ProcessInputReturn	*processInput(GregorianCalendar)* on page 78	Processes the entered date value.

Inherited members from DateDisplayModel

Modifier and Type	Member	Description
public GregorianCalendar	*getValue()* on page 77	Returns the field's current date value.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.

Modifier and Type	Member	Description
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

processInput(GregorianCalendar) method

Processes the entered date value.

Syntax

```
public ProcessInputReturn processInput(GregorianCalendar date)
```

Parameters

- **date –** the value to process

Returns

result based on the value passed in

Usage

Returns a `ProcessInputReturn` representing the result of processing the input.

DecimalDisplayModel interface

Interface given to an decimal display extension object so it can call back into the host.

Syntax

```
public interface DecimalDisplayModel extends FieldModel
```

Derived classes

- *DecimalEditModel* on page 80

Members

All members of DecimalDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public double	*getValue()* on page 80	Gets the current value.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.

Modifier and Type	Member	Description
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getValue() method
Gets the current value.

Syntax
```
public double getValue()
```

Returns
the current value

DecimalEditModel interface
Interface given to an decimal edit extension object so it can call back into the host.

Syntax
```
public interface DecimalEditModel extends DecimalDisplayModel
```

Members
All members of DecimalEditModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public double	*getMaximumValue()* on page 82	The maximum value accepted for the decimal field.
public double	*getMinimumValue()* on page 82	The minimum value accepted for the decimal field.
public ProcessInputReturn	*processInput(double)* on page 82	Process the current double input.

Inherited members from DecimalDisplayModel

Modifier and Type	Member	Description
public double	*getValue()* on page 80	Gets the current value.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableS-tate(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getMaximumValue() method
The maximum value accepted for the decimal field.

Syntax
```
public double getMaximumValue()
```

Returns
maximum value

getMinimumValue() method
The minimum value accepted for the decimal field.

Syntax
```
public double getMinimumValue()
```

Returns
minimum value

processInput(double) method
Process the current double input.

Syntax
```
public ProcessInputReturn processInput(double value)
```

Parameters

- **value –** input value

Returns
result based on the value passed in

Usage
Returns a `ProcessInputReturn` representing the result of processing the input.

DurationDisplayModel interface
Interface given to a duration display extension object so it can call back into the host.

Syntax
```
public interface DurationDisplayModel extends FieldModel
```

Derived classes

- *DurationEditModel* on page 85

Members

All members of DurationDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public DurationDisplayFormat	*getDurationDisplayFormat()* on page 84	Returns the display format specified for the duration.
public double	*getFractionalHourValue()* on page 84	Returns the current value for the duration in decimal hour.
public int	*getValue()* on page 84	Returns the current value for the duration in seconds.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.

Modifier and Type	Member	Description
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getDurationDisplayFormat() method
Returns the display format specified for the duration.

Syntax
```
public DurationDisplayFormat getDurationDisplayFormat()
```

Returns
the display format

getFractionalHourValue() method
Returns the current value for the duration in decimal hour.

Syntax
```
public double getFractionalHourValue()
```

Returns
value as decimal hour

Usage
This should be used when the `getDurationDisplayFormat()` returns `DecHour`.

getValue() method
Returns the current value for the duration in seconds.

Syntax
```
public int getValue()
```

Returns
value in seconds

DurationEditModel interface

Interface given to a duration edit extension object so it can call back into the host.

Syntax

```
public interface DurationEditModel extends
DurationDisplayModel
```

Members

All members of DurationEditModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public double	*getMaximumFractionalHour()* on page 86	Returns the maximum value allowed.
public int	*getMaximumValue()* on page 87	Returns the maximum value allowed.
public double	*getMinimumFractionalHour()* on page 87	Returns the minimum value that is enforced.
public int	*getMinimumValue()* on page 87	Returns the minimum value that is enforced.
public ProcessInputReturn	*processDecimalInput(double)* on page 88	Processes the double input.
public ProcessInputReturn	*processInput(int)* on page 88	Processes the integer input.

Inherited members from DurationDisplayModel

Modifier and Type	Member	Description
public DurationDisplayFormat	*getDurationDisplayFormat()* on page 84	Returns the display format specified for the duration.
public double	*getFractionalHourValue()* on page 84	Returns the current value for the duration in decimal hour.
public int	*getValue()* on page 84	Returns the current value for the duration in seconds.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.

Modifier and Type	Member	Description
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableS-tate(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is cur-rently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI ex-tension to tell the model's layout manager that the field needs to have a specific pixel height.

getMaximumFractionalHour() method

Returns the maximum value allowed.

Syntax

```
public double getMaximumFractionalHour()
```

Returns

minimum value in hours

Usage
This is a double value representing fractional hour. This should be used when `DurationDisplayModel.getDurationDisplayFormat()` returns `DecHour`.

getMaximumValue() method
Returns the maximum value allowed.

Syntax
```
public int getMaximumValue()
```

Returns
minimum value in seconds

Usage
This is an integer value in seconds.

getMinimumFractionalHour() method
Returns the minimum value that is enforced.

Syntax
```
public double getMinimumFractionalHour()
```

Returns
minimum value in hours

Usage
This is a double value representing fractional hour. This should be used when `DurationDisplayModel.getDurationDisplayFormat()` returns `DecHour`.

getMinimumValue() method
Returns the minimum value that is enforced.

Syntax
```
public int getMinimumValue()
```

Returns
minimum value in seconds

Usage
This is an integer value in seconds.

processDecimalInput(double) method
Processes the double input.

Syntax
```
public ProcessInputReturn processDecimalInput(double value)
```

Parameters

- **value –** the value to process

Returns
result based on the value passed in

Usage
Input is given as fractional hour. Returns a `ProcessInputReturn` representing the result of processing the input. This should only be used when the `DurationDisplayModel.getDurationDisplayFormat()` returns `DecHour`.

processInput(int) method
Processes the integer input.

Syntax
```
public ProcessInputReturn processInput(int value)
```

Parameters

- **value –** the value to process

Returns
result based on the value passed in

Usage
Input is given in seconds. Returns a `ProcessInputReturn` representing the result of processing the input.

EmbeddedImageDisplayModel interface
Interface given to a embedded image display extension object so it can call back into the host.

Syntax
```
public interface EmbeddedImageDisplayModel extends FieldModel
```

Members
All members of EmbeddedImageDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public long	*getColumnCount()* on page 90	Retrieves from the specified number of columns in the clickable image grid.
public MaskColor	*getHighlightColor()* on page 90	Retrieves the highlight selected color to use for showing an image cell as selected.
public OpenUIImage	*getImage()* on page 91	Retrieves the OpenUIImage.
public ImagePosition	*getImagePosition()* on page 91	Retrieves the image position.
public ImagePresentation	*getImagePresentation()* on page 91	Retrieves the image presentation (scaling mode).
public long	*getRowCount()* on page 92	Retrieves from the specified number of rows in the clickable image grid.
public boolean	*isImageCellSelected(long, long)* on page 92	Retrieves if the specified cell is selected.
public void	*setImageCellSelected(long, long)* on page 92	Called to inform Agentry that an image cell has been clicked.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.

Modifier and Type	Member	Description
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

Usage
Depending on the editor settings, the image can be split into multiple cells. Cells are identified by x- and y-coordinates, with the origin (0, 0) being at the top-left.

getColumnCount() method
Retrieves from the specified number of columns in the clickable image grid.

Syntax
```
public long getColumnCount()
```

Returns
number of columns

getHighlightColor() method
Retrieves the highlight selected color to use for showing an image cell as selected.

Syntax
```
public MaskColor getHighlightColor()
```

Returns
highlight color to use

Usage
Color is valid if the return object's `isValid()` method returns true.

getImage() method
Retrieves the OpenUIImage.

Syntax
```
public OpenUIImage getImage()
```

Returns
the image to display

getImagePosition() method
Retrieves the image position.

Syntax
```
public ImagePosition getImagePosition()
```

Returns
the image position

Usage
This will return null if there is no image.

getImagePresentation() method
Retrieves the image presentation (scaling mode).

Syntax
```
public ImagePresentation getImagePresentation()
```

Returns
the image presentation (scaling mode)

Usage
This will return null if there is no image.

getRowCount() method
Retrieves from the specified number of rows in the clickable image grid.

Syntax
```
public long getRowCount()
```

Returns
number of rows

isImageCellSelected(long, long) method
Retrieves if the specified cell is selected.

Syntax
```
public boolean isImageCellSelected(long x, long y)
```

Parameters

- **x –** horizontal cell. In other words, the column.
- **y –** vertical cell. In other words, the row.

Returns
true if the specified cell is selected, false if the specified cell is not selected

setImageCellSelected(long, long) method
Called to inform Agentry that an image cell has been clicked.

Syntax
```
public void setImageCellSelected(long x, long y)
```

Parameters

- **x –** horizontal cell clicked
- **y –** vertical cell clicked

ExternalDataDisplayModel interface
Interface given to a external data display extension object so it can call back into the host.

Syntax
```
public interface ExternalDataDisplayModel extends FieldModel
```

Derived classes

- *ExternalDataEditModel* on page 94

Members

All members of ExternalDataDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public String	*getFilePath()* on page 94	Returns the path to the external data file.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.

Modifier and Type	Member	Description
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getFilePath() method

Returns the path to the external data file.

Syntax

```
public String getFilePath()
```

Returns

the file path

ExternalDataEditModel interface

Interface given to a external data edit extension object so it can call back into the host.

Syntax

```
public interface ExternalDataEditModel extends
ExternalDataDisplayModel
```

Members

All members of ExternalDataEditModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public ProcessInputReturn	*processInput(String)* on page 95	Processes the entered file path.

Inherited members from ExternalDataDisplayModel

Modifier and Type	Member	Description
public String	*getFilePath()* on page 94	Returns the path to the external data file.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.

Modifier and Type	Member	Description
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableS-tate(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is cur-rently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI ex-tension to tell the model's layout manager that the field needs to have a specific pixel height.

processInput(String) method

Processes the entered file path.

Syntax

```
public ProcessInputReturn processInput(String filePath)
```

Parameters

- **filePath –** path to the file

Returns
result based on the value passed in

Usage
Returns a `ProcessInputReturn` representing the result of processing the input.

FieldModel interface
Interface given to an extension object so it can call back into the host.

Syntax
```
public interface FieldModel
```

Derived classes

- *BooleanDisplayModel* on page 66
- *ButtonDisplayModel* on page 69
- *DateAndTimeDisplayModel* on page 72
- *DateDisplayModel* on page 75
- *DecimalDisplayModel* on page 79
- *DurationDisplayModel* on page 82
- *EmbeddedImageDisplayModel* on page 88
- *ExternalDataDisplayModel* on page 92
- *IntegerDisplayModel* on page 101
- *LabelDisplayModel* on page 105
- *LocationDisplayModel* on page 106
- *StringDisplayModel* on page 109
- *TimeDisplayModel* on page 115

Members
All members of FieldModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.

Modifier and Type	Method	Description
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

executeAgentryAction(String) method

Asks Agentry to execute the action specified by name.

Syntax

```
public ActionResult executeAgentryAction(String actionName)
```

Parameters

- **actionName –** the action name as a string

Returns

the result of trying to run the action

Usage
This should only be called if `getAgentryActionEnableState` returns `ActionEnable` for the specified action. Only actions defined for this control in the Agentry Editor can be executed.

executeHyperlinkAction() method
Asks Agentry to run the field's hyperlink action.

Syntax
```
public ActionResult executeHyperlinkAction()
```

Returns
the action result

getAgentryActionEnableState(String) method
Asks Agentry what the current enable state is for the action specified by name.

Syntax
```
public ActionEnableType getAgentryActionEnableState(String actionName)
```

Parameters

- **actionName –** the action name

Returns
the enable state

Usage
It will either be enabled, disabled, no-op(action not found), or error.

getAgentryString(String) method
Asks Agentry for a specific string value.

Syntax
```
public String getAgentryString(String name)
```

Parameters

- **name –** the string the extension is requesting.

Returns
the value paired with that string.

Usage
In the definitions there are key/value pairs. The String passed in is a key, the value is returned. If no key exists for the specified string, null will be returned.

getLabel() method
Returns the label text for the field.

Syntax
```
public String getLabel()
```

Returns
the label text

isAutosizeSupported() method
Checks whether the the field is allowed to automatically decide its own height.

Syntax
```
public boolean isAutosizeSupported()
```

Returns
true if the field can set its height, false if it cannot.

Usage
This directly corresponds to the editor setting for the height of the extended field. If it is set to "auto", this will return true. If it's set to a number of rows for height, then this will return false.

This works in conjunction with `FieldAdapter.autosizeBehavior()`. This method allows the extension to ask if the editor definitions support autosizing. `FieldAdapter.autosizeBehavior()` is Agentry's way of asking the extension how to handle autosizing.

isEnabled() method
Returns whether the field is currently enabled based on current rule evaluation.

Syntax
```
public boolean isEnabled()
```

Returns
true if the field is enabled, false if it is disabled

isHidden() method
Returns whether or not the field is currently hidden based on current rule evaluations.

Syntax
```
public boolean isHidden()
```

Returns
true if the field is hidden, false if the field is visible

isHyperlinkEnabled() method
Returns whether or not the label hyperlink action is enabled.

Syntax
```
public boolean isHyperlinkEnabled()
```

Returns
true if the label hyperlink action is enabled, false if it is disabled.

launchActivity(Intent, int) method
If the extension needs to launch an new activity, it has to call through this method to do it.

Syntax
```
public void launchActivity(Intent intent, int requestCode)
```

Parameters

- **intent –** defines the activity to launch
- **requestCode –** what code to return in `onActivityResult()`.

Usage
It needs to pass in the intent and requestCode. Agentry will handle launching the activity. `FieldAdapter.onActivityResult` will be called when the activity is dismissed.

requestLayoutHeight(int) method
This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

Syntax
```
public void requestLayoutHeight(int newHeight)
```

Parameters

- **newHeight –** the new height requested by the extension.

Usage

This is used by auto-sizing fields to tell the layout manager what their actual height is. This should only be called if `isAutosizeSupported()` returns true.

IntegerDisplayModel interface

Interface given to an integer display extension object so it can call back into the host.

Syntax

```
public interface IntegerDisplayModel extends FieldModel
```

Derived classes

- *IntegerEditModel* on page 102

Members

All members of IntegerDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public int	*getValue()* on page 102	Gets the current integer value from the model.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.

Modifier and Type	Member	Description
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getValue() method
Gets the current integer value from the model.

Syntax
```
public int getValue()
```

Returns
the current value of the field

IntegerEditModel interface
Interface given to an integer edit extension object so it can call back into the host.

Syntax
```
public interface IntegerEditModel extends IntegerDisplayModel
```

Members
All members of IntegerEditModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public int	*getMaximumValue()* on page 104	Returns the maximum integer value that will be accepted.

Modifier and Type	Method	Description
public int	*getMinimumValue()* on page 104	Returns the minimum integer value that will be accepted.
public ProcessInputReturn	*processIntegerInput(int)* on page 104	Processes the input of the field.

Inherited members from IntegerDisplayModel

Modifier and Type	Member	Description
public int	*getValue()* on page 102	Gets the current integer value from the model.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.

Modifier and Type	Member	Description
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getMaximumValue() method
Returns the maximum integer value that will be accepted.

Syntax
```
public int getMaximumValue()
```

Returns
the maximum integer value that will be accepted

getMinimumValue() method
Returns the minimum integer value that will be accepted.

Syntax
```
public int getMinimumValue()
```

Returns
the minimum integer value that will be accepted

processIntegerInput(int) method
Processes the input of the field.

Syntax
```
public ProcessInputReturn processIntegerInput(int value)
```

Parameters

- **value –** the value to process

Returns
result based on the value passed in

Usage
Returns a `ProcessInputReturn` representing the result of processing the input.

LabelDisplayModel interface

Interface given to a label display extension object so it can call back into the host.

Syntax

```
public interface LabelDisplayModel extends FieldModel
```

Members

All members of LabelDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public String	*getValue()* on page 106	Returns the text the label should display.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableS-tate(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.

Modifier and Type	Member	Description
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getValue() method

Returns the text the label should display.

Syntax

```
public String getValue()
```

Returns

the label text

LocationDisplayModel interface

Interface given to a location display extension object so it can call back into the host.

Syntax

```
public interface LocationDisplayModel extends FieldModel
```

Derived classes

- *LocationEditModel* on page 108

Members

All members of LocationDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public AgentryLocation	*getValue()* on page 107	Returns the location that should be displayed.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.

Modifier and Type	Member	Description
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableS-tate(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is cur-rently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI ex-tension to tell the model's layout manager that the field needs to have a specific pixel height.

getValue() method

Returns the location that should be displayed.

Syntax

```
public AgentryLocation getValue()
```

Returns

the location

LocationEditModel interface

Interface given to a location edit extension object so it can call back into the host.

Syntax

```
public interface LocationEditModel extends
LocationDisplayModel
```

Members

All members of LocationEditModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public ProcessInputReturn	*processInput(AgentryLocation)* on page 109	Processes the selected location.

Inherited members from LocationDisplayModel

Modifier and Type	Member	Description
public AgentryLocation	*getValue()* on page 107	Returns the location that should be displayed.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.

Modifier and Type	Member	Description
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

processInput(AgentryLocation) method

Processes the selected location.

Syntax

```
public ProcessInputReturn processInput(AgentryLocation location)
```

Parameters

- **location –** object

Returns

result based on the value passed in

Usage

Returns a `ProcessInputReturn` representing the result of processing the input.

StringDisplayModel interface

Interface given to a string display extension object so it can call back into the host.

Syntax

```
public interface StringDisplayModel extends FieldModel
```

Derived classes

- *StringEditModel* on page 112

Members

All members of StringDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public String	*getValue()* on page 111	Returns the current value of the field.
public boolean	*isCarriageReturnAllowed()* on page 111	Returns whether the field allows carriage returns.
public boolean	*isWordWrapAllowed()* on page 111	Returns whether the field allows word wrap.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.

Modifier and Type	Member	Description
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getValue() method
Returns the current value of the field.

Syntax
```
public String getValue()
```

Returns
the field value

isCarriageReturnAllowed() method
Returns whether the field allows carriage returns.

Syntax
```
public boolean isCarriageReturnAllowed()
```

Returns
whether or not carriage return is allowed

isWordWrapAllowed() method
Returns whether the field allows word wrap.

Syntax
```
public boolean isWordWrapAllowed()
```

Returns
whether or not word wrap is allowed

StringEditModel interface

Interface given to a string edit extension object so it can call back into the host.

Syntax

```
public interface StringEditModel extends StringDisplayModel
```

Members

All members of StringEditModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public int	*getMaximumLength()* on page 113	This retrieves the maximum number of characters that the edit text field will allow upon field validation.
public int	*getMinimumLength()* on page 114	This retrieves the minimum number of characters that the edit text field will allow upon field validation.
public boolean	*isPasswordInput()* on page 114	This is used to determine if the edit field should obscure its input, as would be the case if it were being used to retrieve a password.
public ProcessInputReturn	*processInput(String)* on page 114	Processes the input of the field.

Inherited members from StringDisplayModel

Modifier and Type	Member	Description
public String	*getValue()* on page 111	Returns the current value of the field.
public boolean	*isCarriageReturnAllowed()* on page 111	Returns whether the field allows carriage returns.
public boolean	*isWordWrapAllowed()* on page 111	Returns whether the field allows word wrap.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getMaximumLength() method

This retrieves the maximum number of characters that the edit text field will allow upon field validation.

Syntax

```
public int getMaximumLength()
```

Returns
the maximum number of characters to enter

getMinimumLength() method
This retrieves the minimum number of characters that the edit text field will allow upon field validation.

Syntax
```
public int getMinimumLength()
```

Returns
the minimum number of characters to enter

isPasswordInput() method
This is used to determine if the edit field should obscure its input, as would be the case if it were being used to retrieve a password.

Syntax
```
public boolean isPasswordInput()
```

Returns
true if the input should be hidden from the user, in whatever password-entry style is standard for the platform; false if not

processInput(String) method
Processes the input of the field.

Syntax
```
public ProcessInputReturn processInput(String value)
```

Parameters

- **value –** the value to process

Returns
result based on the value passed in

Usage
Returns a `ProcessInputReturn` representing the result of processing the input.

TimeDisplayModel interface

Interface given to a time display extension object so it can call back into the host.

Syntax

```
public interface TimeDisplayModel extends FieldModel
```

Derived classes

- *TimeEditModel* on page 116

Members

All members of TimeDisplayModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public GregorianCalendar	*getValue()* on page 116	Returns the field's current time value.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.

Modifier and Type	Member	Description
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

getValue() method

Returns the field's current time value.

Syntax

```
public GregorianCalendar getValue()
```

Returns

the time

TimeEditModel interface

Interface given to a time edit extension object so it can call back into the host.

Syntax

```
public interface TimeEditModel extends TimeDisplayModel
```

Members

All members of TimeEditModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public ProcessInputReturn	*processInput(GregorianCalendar)* on page 118	Processes the current time input.

Inherited members from TimeDisplayModel

Modifier and Type	Member	Description
public GregorianCalendar	*getValue()* on page 116	Returns the field's current time value.

Inherited members from FieldModel

Modifier and Type	Member	Description
public ActionResult	*executeAgentryAction(String)* on page 97	Asks Agentry to execute the action specified by name.
public ActionResult	*executeHyperlinkAction()* on page 98	Asks Agentry to run the field's hyperlink action.
public ActionEnableType	*getAgentryActionEnableState(String)* on page 98	Asks Agentry what the current enable state is for the action specified by name.
public String	*getAgentryString(String)* on page 98	Asks Agentry for a specific string value.
public String	*getLabel()* on page 99	Returns the label text for the field.
public boolean	*isAutosizeSupported()* on page 99	Checks whether the the field is allowed to automatically decide its own height.
public boolean	*isEnabled()* on page 99	Returns whether the field is currently enabled based on current rule evaluation.
public boolean	*isHidden()* on page 100	Returns whether or not the field is currently hidden based on current rule evaluations.
public boolean	*isHyperlinkEnabled()* on page 100	Returns whether or not the label hyperlink action is enabled.
public void	*launchActivity(Intent, int)* on page 100	If the extension needs to launch an new activity, it has to call through this method to do it.
public void	*requestLayoutHeight(int)* on page 100	This is called by a field's UI extension to tell the model's layout manager that the field needs to have a specific pixel height.

processInput(GregorianCalendar) method
Processes the current time input.

Syntax
`public ProcessInputReturn processInput(GregorianCalendar` *`time`*`)`

Parameters

- **time –** the time value to process

Returns
result based on the value passed in

Usage
Returns a `ProcessInputReturn` representing the result of processing the input.

core package

openui package

AgentryImage class
This class is the Java implementation to support Agentry images.

Syntax
`public class AgentryImage extends OpenUIImage`

Members
All members of AgentryImage, including inherited members. **Constructors**

Modifier and Type	Constructor	Description
public	*AgentryImage(String, ImageType, ImagePresentation, ImagePosition, int, int, int)* on page 121	Constructs an AgentryImage object.

Methods

Modifier and Type	Method	Description
public byte[]	*getBitmapData()* on page 121	Returns the bitmap data for the image.
public String	*getImageName()* on page 121	Retrieves the imageName.

Modifier and Type	Method	Description
public ImagePosition	*getImagePosition()* on page 122	Retrieves the image position.
public ImagePresentation	*getImagePresentation()* on page 122	Retrieves the image presentation and scaling mode.
public ImageType	*getImageType()* on page 122	Retrieves the image type.
public MaskColor	*getMaskColor()* on page 122	Retrieves the image's transparency color.
public boolean	*isValid()* on page 122	Returns whether the image represented by this object is valid.
public boolean	*needsBitmapData()* on page 123	Returns true if the bitmap data has been cached.
public void	*setBitmapData(byte[])* on page 123	Sets the bitmap data and caches it for next time.

AgentryImage.ImageType enum

The ImageType enum represents the different image types that Agentry stores.

Members

All members of ImageType, including inherited members. **Variables**

Modifier and Type	Variable	Description
public	*ImageType_Bitmap* on page 120	.bmp file
public	*ImageType_GIF* on page 120	.gif file
public	*ImageType_JPEG* on page 120	.jpg or .jpeg file
public	*ImageType_PNG* on page 120	.png file
public	*ImageType_Unknown* on page 120	We don't know the image type.

Methods

Modifier and Type	Method	Description
public int	*getValue()* on page 120	

getValue() method

Syntax
```
public int getValue()
```

ImageType_Bitmap variable
.bmp file

Syntax
```
public   ImageType_Bitmap
```

ImageType_GIF variable
.gif file

Syntax
```
public   ImageType_GIF
```

ImageType_JPEG variable
.jpg or .jpeg file

Syntax
```
public   ImageType_JPEG
```

ImageType_PNG variable
.png file

Syntax
```
public   ImageType_PNG
```

ImageType_Unknown variable
We don't know the image type.

Syntax
```
public   ImageType_Unknown
```

AgentryImage(String, ImageType, ImagePresentation, ImagePosition, int, int, int) constructor
Constructs an AgentryImage object.

Syntax
`public AgentryImage ( String` *imageName* `, ImageType` *type* `, ImagePresentation` *presentation* `, ImagePosition` *position* `, int` *maskRed* `, int` *maskGreen* `, int` *maskBlue* `)`

Parameters

- **imageName –** The name of the image
- **type –** The image type.
- **presentation –** The image presentation.
- **position –** The image position.
- **maskRed –** The red component of the masking color, or -1 if there is no masking color.
- **maskGreen –** The green component of the masking color, or -1 if there is no masking color.
- **maskBlue –** The blue component of the masking color, or -1 if there is no masking color.

Usage
This does not set the actual bitmap data and should be followed by a call to needsBitmapData and setBitmapData (if appropriate).

getBitmapData() method
Returns the bitmap data for the image.

Syntax
`public byte[] getBitmapData ()`

Returns
the bitmap data

getImageName() method
Retrieves the imageName.

Syntax
`public String getImageName ()`

Returns
the image name

getImagePosition() method
Retrieves the image position.

Syntax
```
public ImagePosition getImagePosition()
```

Returns
The image position.

getImagePresentation() method
Retrieves the image presentation and scaling mode.

Syntax
```
public ImagePresentation getImagePresentation()
```

Returns
The image presentation (scaling mode).

getImageType() method
Retrieves the image type.

Syntax
```
public ImageType getImageType()
```

Returns
The image type

getMaskColor() method
Retrieves the image's transparency color.

Syntax
```
public MaskColor getMaskColor()
```

Returns
the image's transparency masking color, or null if there is no mask color. This only applies to BMP-format images.

isValid() method
Returns whether the image represented by this object is valid.

Syntax
```
public boolean isValid()
```

Returns
true if the image is valid, else false

needsBitmapData() method
Returns true if the bitmap data has been cached.

Syntax
```
public boolean needsBitmapData()
```

Returns
true if cached data was found, false otherwise

Usage
If so, there is no need to call `setBitmapData`. If cached data was not found, `setBitmapData` should be called.

setBitmapData(byte[]) method
Sets the bitmap data and caches it for next time.

Syntax
```
public void setBitmapData(byte[] bitmap)
```

Parameters

- **bitmap –** byte array of bitmap data

AgentryLocation class
Gives the location details.

Syntax
```
public class AgentryLocation
```

Members
All members of AgentryLocation, including inherited members. **Constructors**

Modifier and Type	Constructor	Description
public	*AgentryLocation(boolean, double, double, int, double)* on page 124	Constructs a new AgentryLocation object.

Methods

Modifier and Type	Method	Description
public double	*getDilution()* on page 124	Retrieves the dilution.
public double	*getLatitude()* on page 125	Retrieves the latitude.
public double	*getLongitude()* on page 125	Retrieves the longitude.
public int	*getSatellites()* on page 125	Retrieves the number of satellites.
public boolean	*isValid()* on page 125	Returns whether the location is valid.
public void	*setDilution(double)* on page 126	Sets the dilution.
public void	*setLatitude(double)* on page 126	Sets the latitude.
public void	*setLongitude(double)* on page 126	Sets the longitude.
public void	*setSatellites(int)* on page 126	Sets the number of satellites.
public void	*setValid(boolean)* on page 126	Sets whether the location is valid.

AgentryLocation(boolean, double, double, int, double) constructor

Constructs a new AgentryLocation object.

Syntax

```
public AgentryLocation(boolean valid, double lat, double lon,
int sats, double decDilution)
```

Parameters

- **valid –** true if the location is valid, false otherwise
- **lat –** latitude
- **lon –** longitude
- **sats –** number of satellites
- **decDilution –** dilution

getDilution() method

Retrieves the dilution.

Syntax

```
public double getDilution()
```

Returns
the dilution

getLatitude() method
Retrieves the latitude.

Syntax
```
public double getLatitude()
```

Returns
the latitude

getLongitude() method
Retrieves the longitude.

Syntax
```
public double getLongitude()
```

Returns
the longitude

getSatellites() method
Retrieves the number of satellites.

Syntax
```
public int getSatellites()
```

Returns
the number of satellites

isValid() method
Returns whether the location is valid.

Syntax
```
public boolean isValid()
```

Returns
true if the location is valid, false otherwise

setDilution(double) method
Sets the dilution.

Syntax
`public void setDilution(double dilution)`

Parameters

- **dilution –** the new dilution

setLatitude(double) method
Sets the latitude.

Syntax
`public void setLatitude(double latitude)`

Parameters

- **latitude –** the new latitude

setLongitude(double) method
Sets the longitude.

Syntax
`public void setLongitude(double longitude)`

Parameters

- **longitude –** the new longitude

setSatellites(int) method
Sets the number of satellites.

Syntax
`public void setSatellites(int satellites)`

Parameters

- **satellites –** the new number of satellites

setValid(boolean) method
Sets whether the location is valid.

Syntax
`public void setValid(boolean isValid)`

Parameters

- **isValid –** true if the location is valid, false otherwise

MaskColor class

This encapsulates a masking color that's used by AgentryImage.

Syntax

```
public class MaskColor
```

Members

All members of MaskColor, including inherited members. **Constructors**

Modifier and Type	Constructor	Description
public	*MaskColor(short, short, short)* on page 127	Constructs a new MaskColor object.
public	*MaskColor(int, int, int)* on page 128	Constructs a new MaskColor object.

Methods

Modifier and Type	Method	Description
public short	*getBlue()* on page 128	Returns the blue component of the color.
public short	*getGreen()* on page 128	Returns the green component of the color.
public short	*getRed()* on page 128	Returns the red component of the color.
public boolean	*isValid()* on page 129	Evaluates the mask color and returns if it is valid.

MaskColor(short, short, short) constructor

Constructs a new MaskColor object.

Syntax

```
public MaskColor(short red, short green, short blue)
```

Parameters

- **red –** Red component value, 0-255.
- **green –** Green component value, 0-255.

- **blue –** Blue component value, 0-255.

MaskColor(int, int, int) constructor
Constructs a new MaskColor object.

Syntax
```
public MaskColor(int red, int green, int blue)
```

Parameters

- **red –** Red component value, 0-255.
- **green –** Green component value, 0-255.
- **blue –** Blue component value, 0-255.

getBlue() method
Returns the blue component of the color.

Syntax
```
public short getBlue()
```

Returns
The blue component of the color, 0-255.

getGreen() method
Returns the green component of the color.

Syntax
```
public short getGreen()
```

Returns
The green component of the color, 0-255.

getRed() method
Returns the red component of the color.

Syntax
```
public short getRed()
```

Returns
The red component of the color, 0-255.

isValid() method
Evaluates the mask color and returns if it is valid.

Syntax
```
public boolean isValid()
```

Returns
Whether or not the mask color is valid.

ProcessInputReturn class
Contains the result of calling to process input.

Syntax
```
public class ProcessInputReturn
```

Members
All members of ProcessInputReturn, including inherited members. **Constructors**

Modifier and Type	Constructor	Description
public	*ProcessInputReturn(boolean, boolean, boolean)* on page 129	Constructs a new ProcessInputReturn object.

Methods

Modifier and Type	Method	Description
public boolean	*getChanged()* on page 130	Returns whether or not the processInput method received a value different than what it already had stored.
public boolean	*getMunged()* on page 130	Returns whether or not the processInput method "munged" the value.
public boolean	*getValid()* on page 130	Returns whether or not the processInput method accepted the value as valid.

ProcessInputReturn(boolean, boolean, boolean) constructor
Constructs a new ProcessInputReturn object.

Syntax
`public ProcessInputReturn(boolean` *valid*`, boolean` *munged*`, boolean` *changed*`)`

Parameters

- **valid –** is the result valid?
- **munged –** is the result a munged value?
- **changed –** is the result a changed value?

getChanged() method

Returns whether or not the processInput method received a value different than what it already had stored.

Syntax

```
public boolean getChanged()
```

Returns

true if changed, false if not changed

getMunged() method

Returns whether or not the processInput method "munged" the value.

Syntax

```
public boolean getMunged()
```

Returns

true if munged, false if not munged

Usage

Munged means that the value needed to be changed, but the logical value was not affected. For example, if the lowercase attribute is set, and an uppercase character was typed in, the stored value gets changed to all lowercase and the UI needs to be updated.

getValid() method

Returns whether or not the processInput method accepted the value as valid.

Syntax

```
public boolean getValid()
```

Returns

true if valid, false if invalid

ActionEnableType enum

The enable states that an action can have.

Members

All members of ActionEnableType, including inherited members. **Variables**

Modifier and Type	Variable	Description
public	*ActionDisable* on page 131	Action is disabled.
public	*ActionEnable* on page 131	Action is enabled.
public	*ActionError* on page 131	Action is found but is invalid.
public	*ActionNoOperation* on page 131	Action cannot be found.

ActionDisable variable
Action is disabled.

Syntax
```
public   ActionDisable
```

ActionEnable variable
Action is enabled.

Syntax
```
public   ActionEnable
```

ActionError variable
Action is found but is invalid.

Syntax
```
public   ActionError
```

ActionNoOperation variable
Action cannot be found.

Syntax
```
public   ActionNoOperation
```

ActionResult enum
The result states that running an action can return.

Members
All members of ActionResult, including inherited members. **Variables**

Modifier and Type	Variable	Description
public	*Action_BackUp* on page 132	The action was backed out of by the user.

Modifier and Type	Variable	Description
public	*Action_Cancel* on page 132	The action was canceled by user.
public	*Action_Complete* on page 132	The action completed successfully.
public	*Action_Error* on page 132	There was an error when running the action.
public	*Action_Pending* on page 132	The action is still in progress and has not yet completed.

Action_BackUp variable
The action was backed out of by the user.

Syntax
```
public   Action_BackUp
```

Action_Cancel variable
The action was canceled by user.

Syntax
```
public   Action_Cancel
```

Action_Complete variable
The action completed successfully.

Syntax
```
public   Action_Complete
```

Action_Error variable
There was an error when running the action.

Syntax
```
public   Action_Error
```

Action_Pending variable
The action is still in progress and has not yet completed.

Syntax
```
public   Action_Pending
```

AutosizeBehavior enum
Values for autosize behavior for Agentry fields.

Members
All members of AutosizeBehavior, including inherited members. **Variables**

Modifier and Type	Variable	Description
public	*Autosize_FillVisible* on page 133	Field should take up the remaining visible area on the screen.
public	*Autosize_None* on page 133	Field does not autosize.
public	*Autosize_WrapContent* on page 133	Field should size itself so all of its content is visible The layout manager will invoke the FieldAdapter.getContentHeightForAutosizing(int width) method to find the field's content size.

Autosize_FillVisible variable
Field should take up the remaining visible area on the screen.

Syntax
```
public   Autosize_FillVisible
```

Autosize_None variable
Field does not autosize.

Syntax
```
public   Autosize_None
```

Autosize_WrapContent variable
Field should size itself so all of its content is visible The layout manager will invoke the FieldAdapter.getContentHeightForAutosizing(int width) method to find the field's content size.

Syntax
```
public   Autosize_WrapContent
```

ButtonType enum
This enum has the 3 different types of buttons an Agentry Button Widget can be set to.

Members
All members of ButtonType, including inherited members. **Variables**

Modifier and Type	Variable	Description
public	*ButtonStyleCheckbox* on page 134	Check box style button.
public	*ButtonStylePush* on page 134	Push Button.
public	*ButtonStyleRadio* on page 134	Radio Button.

ButtonStyleCheckbox variable
Check box style button.

Syntax
```
public   ButtonStyleCheckbox
```

ButtonStylePush variable
Push Button.

Syntax
```
public   ButtonStylePush
```

ButtonStyleRadio variable
Radio Button.

Syntax
```
public   ButtonStyleRadio
```

DurationDisplayFormat enum
This is a list of possible duration display formats.

Members
All members of DurationDisplayFormat, including inherited members. **Variables**

Modifier and Type	Variable	Description
public	*DecHour* on page 135	HH.XX.
public	*HourMin* on page 135	HH:MM.

Modifier and Type	Variable	Description
public	*HourMinSec* on page 135	HH:MM:SS where : will be localized.
public	*MinSec* on page 135	MM:SS.

DecHour variable
HH.XX.

Syntax
```
public   DecHour
```

HourMin variable
HH:MM.

Syntax
```
public   HourMin
```

HourMinSec variable
HH:MM:SS where : will be localized.

Syntax
```
public   HourMinSec
```

MinSec variable
MM:SS.

Syntax
```
public   MinSec
```

ImagePosition enum
The ImagePosition enum represents the different ways that an image can be positioned in the available space.

Members
All members of ImagePosition, including inherited members. **Variables**

Modifier and Type	Variable	Description
public	*ImagePosition_Center* on page 136	Image positioned at the center.
public	*ImagePosition_LowerLeft* on page 136	Image positioned at the bottom left.

Modifier and Type	Variable	Description
public	*ImagePosition_LowerMiddle* on page 137	Image positioned at the bottom middle.
public	*ImagePosition_LowerRight* on page 137	Image positioned at the bottom right.
public	*ImagePosition_MiddleLeft* on page 137	Image positioned at the middle left.
public	*ImagePosition_MiddleRight* on page 137	Image positioned at the middle right.
public	*ImagePosition_Unknown* on page 137	We don't know the image position.
public	*ImagePosition_UpperLeft* on page 137	Image positioned at the top left.
public	*ImagePosition_UpperMiddle* on page 137	Image positioned at the top middle.
public	*ImagePosition_UpperRight* on page 138	Image positioned at the top right.

Methods

Modifier and Type	Method	Description
public int	*getValue()* on page 136	

getValue() method

Syntax

```
public int getValue()
```

ImagePosition_Center variable

Image positioned at the center.

Syntax

```
public   ImagePosition_Center
```

ImagePosition_LowerLeft variable

Image positioned at the bottom left.

Syntax

```
public   ImagePosition_LowerLeft
```

ImagePosition_LowerMiddle variable
Image positioned at the bottom middle.

Syntax
```
public   ImagePosition_LowerMiddle
```

ImagePosition_LowerRight variable
Image positioned at the bottom right.

Syntax
```
public   ImagePosition_LowerRight
```

ImagePosition_MiddleLeft variable
Image positioned at the middle left.

Syntax
```
public   ImagePosition_MiddleLeft
```

ImagePosition_MiddleRight variable
Image positioned at the middle right.

Syntax
```
public   ImagePosition_MiddleRight
```

ImagePosition_Unknown variable
We don't know the image position.

Syntax
```
public   ImagePosition_Unknown
```

ImagePosition_UpperLeft variable
Image positioned at the top left.

Syntax
```
public   ImagePosition_UpperLeft
```

ImagePosition_UpperMiddle variable
Image positioned at the top middle.

Syntax
```
public   ImagePosition_UpperMiddle
```

ImagePosition_UpperRight variable
Image positioned at the top right.

Syntax
```
public   ImagePosition_UpperRight
```

ImagePresentation enum
The ImagePresentation enum represents the different ways that an image can be displayed.

Members
All members of ImagePresentation, including inherited members. **Variables**

Modifier and Type	Variable	Description
public	*ImagePresentation_CropToFit* on page 138	Image will be cropped to fit available area if it is larger than the available area.
public	*ImagePresentation_FullSize* on page 139	The image should be presented full-sized.
public	*ImagePresentation_LockAspectRatio* on page 139	Lock the aspect ratio.
public	*ImagePresentation_StretchToFit* on page 139	Image will be stretched to fit available area.
public	*ImagePresentation_Unknown* on page 139	We don't know the image presentation type.

Methods

Modifier and Type	Method	Description
public int	*getValue()* on page 138	

getValue() method

Syntax
```
public int getValue()
```

ImagePresentation_CropToFit variable
Image will be cropped to fit available area if it is larger than the available area.

Syntax
```
public   ImagePresentation_CropToFit
```

ImagePresentation_FullSize variable
The image should be presented full-sized.

Syntax
```
public   ImagePresentation_FullSize
```

ImagePresentation_LockAspectRatio variable
Lock the aspect ratio.

Syntax
```
public   ImagePresentation_LockAspectRatio
```

Usage
Image will be resized to fit in the available area but maintains its aspect ratio.

ImagePresentation_StretchToFit variable
Image will be stretched to fit available area.

Syntax
```
public   ImagePresentation_StretchToFit
```

ImagePresentation_Unknown variable
We don't know the image presentation type.

Syntax
```
public   ImagePresentation_Unknown
```

OpenUIImage interface
This is the interface used for Open UI images.

Syntax
```
public interface  OpenUIImage
```

Derived classes

- *AgentryImage* on page 118

Members
All members of OpenUIImage, including inherited members. **Methods**

Modifier and Type	Method	Description
public byte[]	*getBitmapData()* on page 140	Returns the bitmap data for the image.

Modifier and Type	Method	Description
public String	*getImageName()* on page 140	Retrieves the imageName.
public ImageType	*getImageType()* on page 140	Retrieves the image type.
public MaskColor	*getMaskColor()* on page 140	Retrieves the image's transparency color.
public boolean	*isValid()* on page 141	Returns whether the image represented by this object is valid.

getBitmapData() method
Returns the bitmap data for the image.

Syntax
```
public byte[] getBitmapData()
```

Returns
the bitmap data

getImageName() method
Retrieves the imageName.

Syntax
```
public String getImageName()
```

Returns
the image name

getImageType() method
Retrieves the image type.

Syntax
```
public ImageType getImageType()
```

Returns
The image type

getMaskColor() method
Retrieves the image's transparency color.

Syntax
```
public MaskColor getMaskColor()
```

Returns
the image's transparency masking color, or null if there is no mask color. This only applies to BMP-format images.

isValid() method
Returns whether the image represented by this object is valid.

Syntax
```
public boolean isValid()
```

Returns
true if the image is valid, else false

Agentry OpenUI API for iOS

Use the OpenUI API for iOS to add custom controls to Agentry applications.

iOSDataAPI

iOSDataAPIExternal

The iOS DataAPI exposed interfaces.

Usage
This module contains a grouping of all exposed interfaces of DataAPI to provide easy access to all the protocols available via the API.

For a detailed overview of DataAPI, please visit the smpdataapi_ios documentation landing page.

SMPDataAPILocationProtocol protocol
SMPDataAPILocationProtocol Protocol - Defines a interface that all SAP Mobile Platform Location objects must adhere to.

Syntax
```
@protocol  SMPDataAPILocationProtocol
```

Derived classes

- *SMPOpenUILocation* on page 150

initWithCLLocation: method
Initializer for the SMPOpenUILocation object from a CLLocation.

Syntax
`- (id) initWithCLLocation : (CLLocation *)` **location**

Parameters

- **location –** the CLLocation.

initWithLatitude:andLongitude:andSatellites:andDilution: method
Initializer for the SMPOpenUILocation object.

Syntax
`- (id) initWithLatitude : (double)` **latitude** `andLongitude : (double)` **longitude** `andSatellites : (int)` **satellites** `andDilution : (double)` **dilution**

Parameters

- **latitude –** the latitude.
- **longitude –** the longitude.
- **satellites –** the number of satellites used.
- **dilution –** the horizontal accuracy of the position.

locationWithCLLocation: method
Get an autoreleased SMPOpenUILocation object from a CLLocation.

Syntax
`+ (id) locationWithCLLocation : (CLLocation *)` **location**

Parameters

- **location –** the CLLocation.

locationWithLatitude:andLongitude:andSatellites:andDilution: method
Get an autoreleased SMPOpenUILocation object.

Syntax
`+ (id) locationWithLatitude : (double)` **latitude** `andLongitude : (double)` **longitude** `andSatellites : (int)` **satellites** `andDilution : (double)` **dilution**

Parameters

- **latitude –** the latitude.
- **longitude –** the longitude.
- **satellites –** the number of satellites used.
- **dilution –** the horizontal accuracy of the position.

dilution property
The dilution of the location.

Syntax
```
@property (nonatomic, readonly) double dilution
```

latitude property
The latitude of the location.

Syntax
```
@property (nonatomic, readonly) double latitude
```

location property
This location object as an auto release CLLocation object.

Syntax
```
@property (nonatomic, readonly) CLLocation * location
```

longitude property
The longitude of the location.

Syntax
```
@property (nonatomic, readonly) double longitude
```

satellites property
The number of satellites used in the reading of the location.

Syntax
```
@property (nonatomic, readonly) NSInteger satellites
```

valid property
A Boolean value representing whether the location object is valid.

Syntax
```
@property (nonatomic, readonly) BOOL valid
```

SMPDataAPIPropertyProtocol protocol

SMPDataAPIPropertyProtocol - Defines a interface that all SAP Mobile Platform Data objects of type Property (SMPDataAPIProperty) must adhere to.

Syntax

```
@protocol  SMPDataAPIPropertyProtocol
```

asBool method

Evaluates the value of the property object as a bool.

Syntax

```
- (BOOL) asBool
```

Returns

BOOL value

asDate method

Evaluates the value of the property object as an NSDate object.

Syntax

```
- (NSDate *) asDate
```

Returns

NSDate value

asDateAndTime method

Evaluates the value of the property object as an NSDate object.

Syntax

```
- (NSDate *) asDateAndTime
```

Returns

NSDate value

asDecimal method

Evaluates the value of the property object as an double.

Syntax

```
- (double) asDecimal
```

Returns

double value

asLocation method
Evaluates the value of the property object as an SMPDataAPILocationProtocol object.

Syntax
```
- (id< SMPDataAPILocationProtocol >) asLocation
```

Returns
An object conforming to the SMPDataAPILocationProtocol protocol

asLong method
Evaluates the value of the property object as an integer.

Syntax
```
- (NSInteger) asLong
```

Returns
NSInteger value

asString method
Evaluates the value of the property object as a string.

Syntax
```
- (NSString *) asString
```

Returns
NSString* value

asTime method
Evaluates the value of the property object as an NSDate object.

Syntax
```
- (NSDate *) asTime
```

Returns
NSDate value

log method
Optional debug function to help debug the code.

Syntax
```
- (void) log
```

Usage

This function will print data to NSLog().

propertyType method
A value that identifes the property type of a property data object.

Syntax
```
- (enum SMPDataAPIPropertyType) propertyType
```

Returns
The property type of the object

SMPDataAPIProtocol protocol
SMPDataAPI Protocol - Defines a interface that all SAP Mobile Platform Data objects must adhere to.

Syntax
```
@protocol  SMPDataAPIProtocol
```

Derived classes

- *SMPDataAPIPropertyProtocol* on page 144

ancestor method
The ancestor object (parent object)

Syntax
```
- (id< SMPDataAPIProtocol >) ancestor
```

Returns
Ancestor (parent) object

dataIdentifier method
A unique id that indentifies the data object.

Syntax
```
- (NSUInteger) dataIdentifier
```

Returns
The unique id value

dataType method
A value that identifes the data type of data object.

Syntax
```
- (enum SMPDataAPIDataType) dataType
```

Returns
The data type of the object

descendant: method
Retrieves a descendant (child) data object.

Syntax
```
- (id< SMPDataAPIProtocol >) descendant : (NSUInteger)
```
position

Parameters

- **position –** Index of data object to retrieve

Returns
Descendant data object

descendantCount method
The number of descendant (child) data objects.

Syntax
```
- (NSUInteger) descendantCount
```

Returns
Number of descendant data objects

displayName method
The display name of the Agentry data object.

Syntax
```
- (NSString *) displayName
```

Returns
The display name of the object

log method
Optional debug function to help debug the code.

Syntax
```
- (void) log
```

Usage

This function will print data to NSLog().

name method
The internal name of the Agentry data object.

Syntax
```
- (NSString *) name
```

Returns
The display name

root method
The root object in the data tree for an Agentry Module.

Syntax
```
- (id< SMPDataAPIProtocol >) root
```

Returns
The root object

SMPDataAPIDataType enumeration
enum List of Data Types

Enum Constant Summary

- **SMPDataAPIUnknown –** The model is invalid and the data type can't be determined.
- **SMPDataAPIObject –** An Object.
- **SMPDataAPIProperty –** A Property.
- **SMPDataAPICollection –** A Collection of Objects.

SMPDataAPIPropertyType enumeration

enum List of Property Types

Enum Constant Summary

- **SMPDataAPIUnknownProperty –** The model is invalid and the property type can't be determined.
- **SMPDataAPIIdentifierProperty –** Identifier property.
- **SMPDataAPIStringProperty –** String property.
- **SMPDataAPIIntegerNumber –** Integer property.
- **SMPDataAPIBooleanProperty –** Boolean property.
- **SMPDataAPIDateProperty –** Date property.
- **SMPDataAPITimeProperty –** Time property.
- **SMPDataAPIDurationProperty –** Duration property.
- **SMPDataAPIListSelectionProperty –** List Selection property.
- **SMPDataAPIDataTableSelectionProperty –** Data Table Selection property.
- **SMPDataAPIcomplexTableSelectionProperty –** Complex Table Selection property.
- **SMPDataAPISignatureProperty –** Signature property.
- **SMPDataAPIDateAndTime –** Date and time property.
- **SMPDataAPIDecimalNumber –** Decimal number property.
- **SMPDataAPIExternalData –** External data property.
- **SMPDataAPIImage –** Image property.
- **SMPDataAPILocationProperty –** Location property.

iOSOpenUI

iOSOpenUIExternal

The iOS OpenUI exposed interfaces.

Usage

This module contains a grouping of all exposed interfaces of the OpenUI framework to provide easy access to all the protocols available via the API.

For a detailed overview of OpenUI as well as installation instructions, known issues, and other documentation resources, please visit the smpopenui_ios_overview documentation landing page.

SMPOpenUIImage class

An immutable object that represents and Agentry image.

Syntax

```
@interface  SMPOpenUIImage
```

image property
The actual image created from the image definition.

Syntax
```
@property (nonatomic, readonly) UIImage * image
```

name property
The name of the image defined in the editor.

Syntax
```
@property (nonatomic, readonly) NSString * name
```

Usage
Can be used for accessibility features.

position property
The position of the image.

Syntax
```
@property (nonatomic, readonly) SMPOpenUIImagePosition
position
```

presentation property
The presentation of the image.

Syntax
```
@property (nonatomic, readonly) SMPOpenUIImagePresentation
presentation
```

SMPOpenUILocation class
An immutable object that represents and Agentry location.

Syntax
```
@interface SMPOpenUILocation :
<SMPDataAPILocationProtocol>
```

Usage
It provides utility constructors to ease working with CLLocation objects as well as to get this object as a CLLocation object.

initWithCLLocation: method
Initializer for the SMPOpenUILocation object from a CLLocation.

Syntax
`- (id) initWithCLLocation : (CLLocation *)` **location**

Parameters

- **location –** the CLLocation.

initWithLatitude:andLongitude:andSatellites:andDilution: method
Initializer for the SMPOpenUILocation object.

Syntax
`- (id) initWithLatitude : (double)` **latitude** `andLongitude : (double)` **longitude** `andSatellites : (int)` **satellites** `andDilution : (double)` **dilution**

Parameters

- **latitude –** the latitude.
- **longitude –** the longitude.
- **satellites –** the number of satellites used.
- **dilution –** the horizontal accuracy of the position.

locationWithCLLocation: method
Get an autoreleased SMPOpenUILocation object from a CLLocation.

Syntax
`+ (id) locationWithCLLocation : (CLLocation *)` **location**

Parameters

- **location –** the CLLocation.

locationWithLatitude:andLongitude:andSatellites:andDilution: method
Get an autoreleased SMPOpenUILocation object.

Syntax
`+ (id) locationWithLatitude : (double)` **latitude** `andLongitude : (double)` **longitude** `andSatellites : (int)` **satellites** `andDilution : (double)` **dilution**

Parameters

- **latitude –** the latitude.
- **longitude –** the longitude.
- **satellites –** the number of satellites used.
- **dilution –** the horizontal accuracy of the position.

dilution property
The dilution of the location.

Syntax
```
@property (nonatomic, readonly) double dilution
```

latitude property
The latitude of the location.

Syntax
```
@property (nonatomic, readonly) double latitude
```

location property
This location object as an auto release CLLocation object.

Syntax
```
@property (nonatomic, readonly) CLLocation * location
```

longitude property
The longitude of the location.

Syntax
```
@property (nonatomic, readonly) double longitude
```

satellites property
The number of satellites used in the reading of the location.

Syntax
```
@property (nonatomic, readonly) NSInteger satellites
```

valid property
A Boolean value representing whether the location object is valid.

Syntax
```
@property (nonatomic, readonly) BOOL valid
```

SMPOpenUIBooleanDisplayAdapter protocol

Protocol for a field extension representing a display-only Boolean field.

Syntax

```
@protocol  SMPOpenUIBooleanDisplayAdapter
```

initWithBooleanDisplayModel: method

Called to initialize the extension with its model.

Syntax

```
- (id< SMPOpenUIBooleanDisplayAdapter >)
initWithBooleanDisplayModel : (id<
SMPOpenUIBooleanDisplayModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns

An initialized object that implements the protocol.

model:didChangeBoolean: method

Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax

```
- (void) model : (id< SMPOpenUIBooleanDisplayModel >) model
didChangeBoolean : (BOOL) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIBooleanDisplayModel protocol

Model protocol of object provided to an adapter used for an extension field representing a display-only Boolean.

Syntax

```
@protocol  SMPOpenUIBooleanDisplayModel
```

Derived classes

- *SMPOpenUIBooleanEditModel* on page 155

value property
The current Boolean value.

Syntax
```
@property (nonatomic, readonly) BOOL value
```

SMPOpenUIBooleanEditAdapter protocol
Protocol for a field extension representing an editable Boolean field.

Syntax
```
@protocol SMPOpenUIBooleanEditAdapter
```

initWithBooleanEditModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIBooleanEditAdapter >)
initWithBooleanEditModel : (id< SMPOpenUIBooleanEditModel >)
model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeBoolean: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUIBooleanEditModel >) model
didChangeBoolean : (BOOL) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIBooleanEditModel protocol
Model protocol of object provided to an adapter used for an extension field representing an editable Boolean.

Syntax
```
@protocol  SMPOpenUIBooleanEditModel
```

processInputBoolean: method
Processes the input of the field.

Syntax
```
- (SMPOpenUIProcessInputReturn) processInputBoolean :
(BOOL) value
```

Parameters

- **value –** the value to process.

Returns
SMPOpenUIProcessInputReturn result based on the value passed in.

Usage

Returns the SMPOpenUIProcessInputReturn mask from processing the input.

SMPOpenUIButtonDisplayAdapter protocol
Adapter protocol for an extension field that represents a button.

Syntax
```
@protocol  SMPOpenUIButtonDisplayAdapter
```

initWithButtonDisplayModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIButtonDisplayAdapter >)
initWithButtonDisplayModel : (id<
SMPOpenUIButtonDisplayModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeButtonImage: method
Called to inform the adapter that the button's image has changed.

Syntax
```
- (void) model : (id< SMPOpenUIButtonDisplayModel >) model
didChangeButtonImage : (SMPOpenUIImage *) image
```

Parameters

- **model –** the model for the field.
- **image –** the new image for the button.

model:didChangeSelected: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUIButtonDisplayModel >) model
didChangeSelected : (BOOL) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIButtonDisplayModel protocol
Model protocol of object provided to an adapter used for an extension field representing a button.

Syntax
```
@protocol SMPOpenUIButtonDisplayModel
```

processInput method
Called to process a button push.

Syntax
```
- (SMPOpenUIProcessInputReturn) processInput
```

Returns
SMPOpenUIProcessInputReturn result based on the value passed in.

buttonImage property
The image associated with the button.

Syntax
```
@property (nonatomic, readonly) SMPOpenUIImage *
buttonImage
```

buttonText property
The text that the button should display.

Syntax
```
@property (nonatomic, readonly) NSString * buttonText
```

buttonType property
The button type.

Syntax
```
@property (nonatomic, readonly) SMPOpenUIButtonType
buttonType
```

Usage
Possible types are checkbox, radio, and push buttons. See ButtonStyle enum.

selected property
The selected state of the button.

Syntax
```
@property (nonatomic, readonly) BOOL selected
```

supportsAction property
Whether or not there is an action tied to the button.

Syntax
```
@property (nonatomic, readonly) BOOL supportsAction
```

value property
Gets the current value.

Syntax
```
@property (nonatomic, readonly) BOOL value
```

Usage
For a button, this is synonymous with "selected".

SMPOpenUICollectionDisplayAdapter protocol
Protocol for a field extension representing a collection.

Syntax
```
@protocol  SMPOpenUICollectionDisplayAdapter
```

allObjectsChanged: method
Called to inform the adapter that the collection has changed enough that it needs to be completely refreshed.

Syntax
```
- (void) allObjectsChanged : (id<
SMPOpenUICollectionDisplayModel >) model
```

Parameters

- **model –** the model.

initWithCollectionDisplayModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUICollectionDisplayAdapter >)
initWithCollectionDisplayModel : (id<
SMPOpenUICollectionDisplayModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didSelectObjectAtIndex: method
Called to inform the adapter that the selection index has changed.

Syntax
```
- (void) model : (id< SMPOpenUICollectionDisplayModel >)
model didSelectObjectAtIndex : (NSIndexPath *) indexPath
```

Parameters

- **model –** the model.
- **indexPath –** the index path of the object that now has the selection.

Usage

This is not called when the user selects a different index. This is called when something in Agentry causes the selection to change. This can happen through update rules and retargetting that Agentry handles. This can also happen if the currently selected item gets deleted.

model:objectAddedAtIndex: method
Called to inform the adapter that an object has been added to the collection at the specified position.

Syntax

```
- (void) model : (id< SMPOpenUICollectionDisplayModel >)
model objectAddedAtIndex : (NSIndexPath *) indexPath
```

Parameters

- **model –** the model.
- **indexPath –** the index path of the added object.

model:objectChangedAtIndex: method
Called to inform the adapter that the object at the specified position has changed enough that it needs to be completely refreshed.

Syntax

```
- (void) model : (id< SMPOpenUICollectionDisplayModel >)
model objectChangedAtIndex : (NSIndexPath *) indexPath
```

Parameters

- **model –** the model.
- **indexPath –** the index path of the changed object.

model:objectDeletedAtIndex: method
Called to inform the adapter that the object at the specified position has been deleted and needs to be removed.

Syntax

```
- (void) model : (id< SMPOpenUICollectionDisplayModel >)
model objectDeletedAtIndex : (NSIndexPath *) indexPath
```

Parameters

- **model –** the model.
- **indexPath –** the index path of the object that needs to be removed.

SMPOpenUICollectionDisplayModel protocol
Model protocol of object provided to an adapter used for an extension field representing a collection.

Syntax
```
@protocol  SMPOpenUICollectionDisplayModel
```

collection method
Returns the collection.

Syntax
```
- (id< SMPDataAPIProtocol >) collection
```

Returns
The collection

displayedObjectAtIndex: method

Syntax
```
- (id< SMPDataAPIProtocol >) displayedObjectAtIndex :
(NSUInteger) index
```

processInputSelection: method
Processes the selection of a descendant object of the collection.

Syntax
```
- (SMPOpenUIProcessInputReturn) processInputSelection :
(NSInteger) selection
```

Parameters

- **selection –** the position of the selected descendant object.

Returns
SMPOpenUIProcessInputReturn result based on the value passed in.

Usage

Returns the SMPOpenUIProcessInputReturn mask from processing the input.

displayedObjectCount property
Returns the number of displayable objects.

Syntax
```
@property (nonatomic, readonly) NSUInteger
displayedObjectCount
```

selection property
The current selected child object.

Syntax
```
@property (nonatomic, readonly) NSIndexPath * selection
```

SMPOpenUIDateAndTimeDisplayAdapter protocol
Protocol for a field extension representing a display-only date and time field.

Syntax
```
@protocol SMPOpenUIDateAndTimeDisplayAdapter
```

initWithDateAndTimeDisplayModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIDateAndTimeDisplayAdapter >)
initWithDateAndTimeDisplayModel : (id<
SMPOpenUIDateAndTimeDisplayModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeDateAndTime: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUIDateAndTimeDisplayModel >)
model didChangeDateAndTime : (NSDate *) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIDateAndTimeDisplayModel protocol

Model protocol of object provided to an adapter used for an extension field representing a display-only date and time.

Syntax

```
@protocol  SMPOpenUIDateAndTimeDisplayModel
```

Derived classes

- *SMPOpenUIDateAndTimeEditModel* on page 163

value property

The current date value.

Syntax

```
@property (nonatomic, readonly) NSDate * value
```

SMPOpenUIDateAndTimeEditAdapter protocol

Protocol for a field extension representing an editable date and time field.

Syntax

```
@protocol  SMPOpenUIDateAndTimeEditAdapter
```

initWithDateAndTimeEditModel: method

Called to initialize the extension with its model.

Syntax

```
- (id< SMPOpenUIDateAndTimeEditAdapter >)
initWithDateAndTimeEditModel : (id<
SMPOpenUIDateAndTimeEditModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns

An initialized object that implements the protocol.

model:didChangeDateAndTime: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
`- (void) model : (id< SMPOpenUIDateAndTimeEditModel >) model didChangeDateAndTime : (NSDate *) value`

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIDateAndTimeEditModel protocol
Model protocol of object provided to an adapter used for an extension field representing an editable date and time.

Syntax
`@protocol SMPOpenUIDateAndTimeEditModel`

processInputDateAndTime: method
Processes the input of the field.

Syntax
`- (SMPOpenUIProcessInputReturn) processInputDateAndTime : (NSDate *) value`

Parameters

- **value –** the value to process.

Returns
SMPOpenUIProcessInputReturn result based on the value passed in.

Usage

Returns the SMPOpenUIProcessInputReturn mask from processing the input.

SMPOpenUIDateDisplayAdapter protocol
Protocol for a field extension representing a display-only date field.

Syntax
`@protocol SMPOpenUIDateDisplayAdapter`

initWithDateDisplayModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIDateDisplayAdapter >)
initWithDateDisplayModel : (id< SMPOpenUIDateDisplayModel >)
model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeDate: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUIDateDisplayModel >) model
didChangeDate : (NSDate *) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIDateDisplayModel protocol
Model protocol of object provided to an adapter used for an extension field representing a display-only date.

Syntax
```
@protocol SMPOpenUIDateDisplayModel
```

Derived classes

- *SMPOpenUIDateEditModel* on page 165

value property
The current date value.

Syntax
```
@property (nonatomic, readonly) NSDate * value
```

Usage
The time portion of the NSDate will be midnight.

SMPOpenUIDateEditAdapter protocol
Protocol for a field extension representing an editable date field.

Syntax
```
@protocol  SMPOpenUIDateEditAdapter
```

initWithDateEditModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIDateEditAdapter >) initWithDateEditModel : (
id< SMPOpenUIDateEditModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeDate: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUIDateEditModel >) model
didChangeDate : (NSDate *) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIDateEditModel protocol
Model protocol of object provided to an adapter used for an extension field representing an editable date.

Syntax
```
@protocol  SMPOpenUIDateEditModel
```

processInputDate: method
Processes the input of the field.

Syntax
`- (SMPOpenUIProcessInputReturn) processInputDate: (NSDate *)` **value**

Parameters

- **value –** the value to process. The time portion of this date will be set to midnight.

Returns
SMPOpenUIProcessInputReturn result based on the value passed in.

Usage

Returns the SMPOpenUIProcessInputReturn mask from processing the input.

SMPOpenUIDecimalDisplayAdapter protocol
Protocol for a field extension representing a display-only decimal field.

Syntax
```
@protocol SMPOpenUIDecimalDisplayAdapter
```

initWithDecimalDisplayModel: method
Called to initialize the extension with its model.

Syntax
`- (id< SMPOpenUIDecimalDisplayAdapter >) initWithDecimalDisplayModel: (id< SMPOpenUIDecimalDisplayModel >)` **model**

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeDecimal: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUIDecimalDisplayModel >) model
didChangeDecimal : (double) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIDecimalDisplayModel protocol
Model protocol of object provided to an adapter used for an extension field representing a display-only decimal.

Syntax
```
@protocol SMPOpenUIDecimalDisplayModel
```

Derived classes

- *SMPOpenUIDecimalEditModel* on page 168

value property
The current decimal value.

Syntax
```
@property (nonatomic, readonly) double value
```

SMPOpenUIDecimalEditAdapter protocol
Protocol for a field extension representing an editable decimal field.

Syntax
```
@protocol SMPOpenUIDecimalEditAdapter
```

initWithDecimalEditModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIDecimalEditAdapter >)
initWithDecimalEditModel : (id< SMPOpenUIDecimalEditModel >)
```
model

Parameters

- **model –** The model for this adapter to use.

Returns

An initialized object that implements the protocol.

model:didChangeDecimal: method

Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax

```
- (void) model : (id< SMPOpenUIDecimalEditModel >) model
didChangeDecimal : (double) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIDecimalEditModel protocol

Model protocol of object provided to an adapter used for an extension field representing an editable decimal.

Syntax

```
@protocol SMPOpenUIDecimalEditModel
```

processInputDecimal: method

Processes the input of the field.

Syntax

```
- (SMPOpenUIProcessInputReturn) processInputDecimal :
(double) value
```

Parameters

- **value –** the value to process.

Returns

SMPOpenUIProcessInputReturn result based on the value passed in.

Usage

Returns the SMPOpenUIProcessInputReturn mask from processing the input.

maximumValue property
The maximum value accepted for the field.

Syntax
```
@property (nonatomic, readonly) double maximumValue
```

Usage
If there is no maximum value defined, it returns DBL_MAX.

minimumValue property
The minimum value accepted for the field.

Syntax
```
@property (nonatomic, readonly) double minimumValue
```

Usage
If there is no minimum value defined, it returns DBL_MIN.

SMPOpenUIDurationDisplayAdapter protocol
Protocol for a field extension representing a display-only duration field.

Syntax
```
@protocol SMPOpenUIDurationDisplayAdapter
```

initWithDurationDisplayModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIDurationDisplayAdapter >)
initWithDurationDisplayModel : (id<
SMPOpenUIDurationDisplayModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeDuration: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
`- (void) model : (id< SMPOpenUIDurationDisplayModel >)` **model** `didChangeDuration : (NSInteger)` **value**

Parameters

- **model –** the model.
- **value –** the updated value the field should display. This value is in seconds.

model:didChangeFractionalHour: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
`- (void) model : (id< SMPOpenUIDurationDisplayModel >)` **model** `didChangeFractionalHour : (double)` **value**

Parameters

- **model –** the model.
- **value –** the updated value the field should display. This value is in fractional hours.

Usage

This will be called when the display mode for the duration is fractional hours.

SMPOpenUIDurationDisplayModel protocol
Model protocol of object provided to an adapter used for an extension field representing a display-only duration.

Syntax
```
@protocol  SMPOpenUIDurationDisplayModel
```

Derived classes

- *SMPOpenUIDurationEditModel* on page 172

displayFormat property
The display format specified for the duration.

Syntax
```
@property (nonatomic, readonly)
SMPOpenUIDurationDisplayFormat displayFormat
```

fractionalHourValue property
Gets the current value for the duration in decimal hours.

Syntax
```
@property (nonatomic, readonly) double fractionalHourValue
```

value property
The current value for the duration in seconds.

Syntax
```
@property (nonatomic, readonly) NSInteger value
```

SMPOpenUIDurationEditAdapter protocol
Protocol for a field extension representing an editable duration field.

Syntax
```
@protocol SMPOpenUIDurationEditAdapter
```

initWithDurationEditModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIDurationEditAdapter >)
initWithDurationEditModel : (id< SMPOpenUIDurationEditModel
>) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeDuration: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
`- (void) model : (id< SMPOpenUIDurationEditModel >)` **model** `didChangeDuration : (NSInteger)` **value**

Parameters

- **model –** the model.
- **value –** the updated value the field should display. This value is in seconds.

model:didChangeFractionalHour: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
`- (void) model : (id< SMPOpenUIDurationEditModel >)` **model** `didChangeFractionalHour : (double)` **value**

Parameters

- **model –** the model.
- **value –** the updated value the field should display. This value is in fractional hours.

Usage

This will be called when the display mode for the duration is set to fractional hours.

SMPOpenUIDurationEditModel protocol
Model protocol of object provided to an adapter used for an extension field representing an editable duration.

Syntax
```
@protocol  SMPOpenUIDurationEditModel
```

processInputDuration: method
Process the current input.

Syntax
`- (SMPOpenUIProcessInputReturn) processInputDuration : (NSInteger)` **value**

Parameters

- **value –** input value of duration in seconds.

Returns
SMPOpenUIProcessInputReturn result based on the value passed in.

processInputFractionalHour: method
Process the current input.

Syntax
`- (SMPOpenUIProcessInputReturn) processInputFractionalHour :(double)` **fractionalHourValue**

Parameters

- **fractionalHourValue –** input value of duration in fractional hours.

Returns
SMPOpenUIProcessInputReturn result based on the value passed in.

Usage

This should be used when SMPOpenUIDurationDisplayFormatDecHour is the display format.

maximumFractionalHourValue property
The maximum value accepted for the field in fractional hours.

Syntax
```
@property (nonatomic, readonly) double
maximumFractionalHourValue
```

Usage
This should be used when SMPOpenUIDurationDisplayFormatDecHour is the display format. If no maximum value is setup for this field, DBL_MAX will be returned.

maximumValue property
The maximum value accepted for the field in seconds.

Syntax
```
@property (nonatomic, readonly) NSInteger maximumValue
```

Usage
If no maximum value is setup for this field, NSIntegerMax will be returned.

minimumFractionalHourValue property
The minimum value accepted for the field in fractional hours.

Syntax
```
@property (nonatomic, readonly) double
minimumFractionalHourValue
```

Usage
This should be used when SMPOpenUIDurationDisplayFormatDecHour is the display format. If no minimum value is setup for this field, DBL_MIN will be returned.

minimumValue property
The minimum value accepted for the field in seconds.

Syntax
```
@property (nonatomic, readonly) NSInteger minimumValue
```

Usage
If no minimum value is setup for this field, NSIntegerMin will be returned.

SMPOpenUIEmbeddedImageDisplayAdapter protocol
Protocol for a field extension representing an embedded image field.

Syntax
```
@protocol SMPOpenUIEmbeddedImageDisplayAdapter
```

initWithEmbeddedImageModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIEmbeddedImageDisplayAdapter >)
initWithEmbeddedImageModel : (id<
SMPOpenUIEmbeddedImageDisplayModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeImage: method
Called to inform the adapter that the field's underlying image has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUIEmbeddedImageDisplayModel >)
model didChangeImage : (SMPOpenUIImage *) image
```

Parameters

- **model –** the model.
- **image –** the new image the field should display.

modelDidChangeImageCellSelection: method
Called to inform the adapter that image selection has changed.

Syntax
```
- (void) modelDidChangeImageCellSelection : (id<
SMPOpenUIEmbeddedImageDisplayModel >) model
```

Parameters

- **model –** the model.

SMPOpenUIEmbeddedImageDisplayModel protocol
Model protocol of object provided to an adapter used for an extension field representing an Embedded Image.

Syntax
```
@protocol SMPOpenUIEmbeddedImageDisplayModel
```

Usage
An Embedded Image can be sectioned into a grid of rows and columns, and each cell can be selected or not. Agentry Actions might also be launched as a result of selecting a cell.

imageCellClickedAtRow:andColumn: method
Call this to inform agentry that a cell at a given position has been clicked.

Syntax
```
- (void) imageCellClickedAtRow : (NSUInteger) row andColumn
: (NSUInteger) column
```

Parameters

- **row –** the row of the clicked cell.
- **column –** the column of the clicked cell.

isImageCellSelectedAtRow:andColumn: method
Call this to find out whether a cell at a given position has been clicked.

Syntax

```
- (BOOL) isImageCellSelectedAtRow : (NSUInteger) row
andColumn : (NSUInteger) column
```

Parameters

- **row –** the row of the cell.
- **column –** the column of the cell.

Returns
YES if the specified cell is selected. NO otherwise.

columns property
The number of columns defined for the image.

Syntax

```
@property (nonatomic, readonly) NSUInteger columns
```

highlightSelectedColor property
The highlight selected color to use for the selected cells.

Syntax

```
@property (nonatomic, readonly) UIColor *
highlightSelectedColor
```

image property
The image to display.

Syntax

```
@property (nonatomic, readonly) SMPOpenUIImage * image
```

rows property
The number of rows defined for the image.

Syntax

```
@property (nonatomic, readonly) NSUInteger rows
```

SMPOpenUIExternalDataDisplayAdapter protocol

Protocol for a field extension representing a display-only external data field.

Syntax

```
@protocol  SMPOpenUIExternalDataDisplayAdapter
```

initWithExternalDataDisplayModel: method

Called to initialize the extension with its model.

Syntax

```
- (id< SMPOpenUIExternalDataDisplayAdapter >)
initWithExternalDataDisplayModel : (id<
SMPOpenUIExternalDataDisplayModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns

An initialized object that implements the protocol.

model:didChangeExternalData: method

Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax

```
- (void) model : (id< SMPOpenUIExternalDataDisplayModel >)
model didChangeExternalData : (NSString *) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIExternalDataDisplayModel protocol

Model protocol of object provided to an adapter used for an extension field representing a display-only external data.

Syntax

```
@protocol  SMPOpenUIExternalDataDisplayModel
```

Derived classes

- *SMPOpenUIExternalDataEditModel* on page 179

value property
The current filename value.

Syntax
```
@property (nonatomic, readonly) NSString * value
```

SMPOpenUIExternalDataEditAdapter protocol
Protocol for a field extension representing an editable date field.

Syntax
```
@protocol SMPOpenUIExternalDataEditAdapter
```

initWithExternalDataEditModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIExternalDataEditAdapter >)
initWithExternalDataEditModel : (id<
SMPOpenUIExternalDataEditModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeExternalData: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUIExternalDataEditModel >) model
didChangeExternalData : (NSString *) value
```

Parameters

- **model –** the model.

- **value –** the updated value the field should display.

SMPOpenUIExternalDataEditModel protocol

Model protocol of object provided to an adapter used for an extension field representing an editable external data.

Syntax

```
@protocol  SMPOpenUIExternalDataEditModel
```

processInputExternalData: method

Processes the input of the field.

Syntax

`- (SMPOpenUIProcessInputReturn) processInputExternalData : (NSString *)` **value**

Parameters

- **value –** the value to process. This is the path to the external data file.

Returns

SMPOpenUIProcessInputReturn result based on the value passed in.

Usage

Returns the SMPOpenUIProcessInputReturn mask from processing the input.

SMPOpenUIFieldAdapter protocol

The base class for the protocols that must be implemented by all Open UI field extension classes.

Syntax

```
@protocol  SMPOpenUIFieldAdapter
```

Derived classes

- *SMPOpenUIBooleanDisplayAdapter* on page 153
- *SMPOpenUIBooleanEditAdapter* on page 154
- *SMPOpenUIButtonDisplayAdapter* on page 155
- *SMPOpenUICollectionDisplayAdapter* on page 158
- *SMPOpenUIDateAndTimeDisplayAdapter* on page 161
- *SMPOpenUIDateAndTimeEditAdapter* on page 162
- *SMPOpenUIDateDisplayAdapter* on page 163

- *SMPOpenUIDateEditAdapter* on page 165
- *SMPOpenUIDecimalDisplayAdapter* on page 166
- *SMPOpenUIDecimalEditAdapter* on page 167
- *SMPOpenUIDurationDisplayAdapter* on page 169
- *SMPOpenUIDurationEditAdapter* on page 171
- *SMPOpenUIEmbeddedImageDisplayAdapter* on page 174
- *SMPOpenUIExternalDataDisplayAdapter* on page 177
- *SMPOpenUIExternalDataEditAdapter* on page 178
- *SMPOpenUIIntegerDisplayAdapter* on page 188
- *SMPOpenUIIntegerEditAdapter* on page 190
- *SMPOpenUILabelDisplayAdapter* on page 191
- *SMPOpenUILocationDisplayAdapter* on page 193
- *SMPOpenUILocationEditAdapter* on page 194
- *SMPOpenUIStringDisplayAdapter* on page 195
- *SMPOpenUIStringEditAdapter* on page 197
- *SMPOpenUITimeDisplayAdapter* on page 199
- *SMPOpenUITimeEditAdapter* on page 200
- *SMPOpenUIUnsignedIntegerDisplayAdapter* on page 201
- *SMPOpenUIUnsignedIntegerEditAdapter* on page 203

Usage

This is an "abstract" protocol, in that you need to implement one of its child protocols so that there is an initWithXxxModel method. The client host will create an instance of the specified class, and call its initWithXxxModel method. When the extension control is to be displayed, the viewForFrame: method will be called and the returned view will be added as a subview of the Agentry Screen. Each adapter will have a host view and view controller that will determine the space dedicated for the adapter.

agentryShouldDisplayLabel method

Called to ask the adapter if Agentry should handle displaying the label for the field or leave it to the extension.

Syntax

```
- (BOOL) agentryShouldDisplayLabel
```

Returns

YES if Agentry should handle the label, NO if extension handles the label.

Usage

If this method returns YES, Agentry will handle displaying the label, including hyperlink functionality. If this method returns NO, the extension takes responsibility for the label (and is free to just not bother with it).

This is optional. If not present, assumes NO.

agentryShouldDisplayValidationFailure method
Called to ask the adapter if Agentry should handle displaying validation failure text or leave it to the extension.

Syntax

```
- (BOOL) agentryShouldDisplayValidationFailure
```

Returns

YES if Agentry should handle the validation failure text, NO if the extension handles the validation failure text.

Usage

If this method returns YES, Agentry will handle displaying the field validation failure text, and do the necessary layout adjustments for it. If this method returns NO, the extension takes responsibility for displaying the field validation failure text.

This is optional. If not present, assumes YES and Agentry displays the validation failure message.

autosizeBehavior method
Called to ask the adapter what its desired autosize behavior is.

Syntax

```
- (SMPOpenUIAutosizeBehavior) autosizeBehavior
```

Returns

The desired autosize behavior. If this method is not implemented or the return value is unknown, SMPOpenUIAutosizeBehaviorNone will be used.

Usage

See SMPOpenUIAutosizeBehavior for possible values.

model:didSetEnabled: method
Called to inform the adapter that the host widget has been enabled or disabled.

Syntax
```
- (void) model : (id< SMPOpenUIFieldModel >) model
didSetEnabled : (BOOL) enabled
```

Parameters

- **model –** the model
- **enabled –** YES to indicate it is enabled, NO to indicate it is disabled

Usage

The extension should give some kind of indication to the user that it is disabled. Optional.

model:didSetHyperlinkEnabled: method
Called to inform the adapter that the enable state of the hyperlink has changed.

Syntax
```
- (void) model : (id< SMPOpenUIFieldModel >) model
didSetHyperlinkEnabled : (BOOL) enabled
```

Parameters

- **model –** the model
- **enabled –** YES if hyperlink is enabled, NO if it hyperlink is disabled

Usage

Only called if the extension is handling the label functionality, and a hyperlink is defined Optional.

model:didSetValid:withValidationFailureText: method
Called to inform the adapter that the field's valid state has changed.

Syntax
```
- (void) model : (id< SMPOpenUIFieldModel >) model
didSetValid : (BOOL) valid withValidationFailureText :
(NSString *) text
```

Parameters

- **model –** the model
- **valid –** YES if the field value is valid, NO for invalid.
- **text –** the message to display to the user if the field is invalid.

Usage

The field has either become invalid and the user needs to be informed with the validation message or valid and any previous validation failure text needs to be hidden. The validation message will contain information that tells the user why their field is invalid.

model:didSetVisible: method
Called to inform the adapter that the host widget has been shown or hidden.

Syntax

```
- (void) model : (id< SMPOpenUIFieldModel >) model
didSetVisible : (BOOL) visible
```

Parameters

- **model –** the model
- **visible –** YES to indicate it is visible, NO to indicate it is hidden

Usage

The UIView for the extension will be show or hidden automatically. Optional.

model:didUpdateLabel: method
Called to inform the adapter that the text of the label has changed.

Syntax

```
- (void) model : (id< SMPOpenUIFieldModel >) model
didUpdateLabel : (NSString *) label
```

Parameters

- **model –** the model
- **label –** The new value for the label

Usage

Only called if the extension is handling the label functionality, and the label is defined with a rule Optional.

model:wantsExtensionString: method
Called by the Agentry to get the value for the specified string.

Syntax

```
- (NSString *) model : (id< SMPOpenUIFieldModel >) model
wantsExtensionString : (NSString *) stringName
```

Parameters

- **model –** the model
- **stringName –** The string that Agentry is requesting

Returns

The value the extension determines based on the specified key

Usage

In the definitions, there are specified keys. The string passed in is a key, the value is returned from the extension.

model:wantsViewHeightForWidth: method
Called to ask the adapter the height needed for its view for a given width for layout calculations.

Syntax

```
- (NSUInteger) model : (id< SMPOpenUIFieldModel >) model
wantsViewHeightForWidth : (NSUInteger) width
```

Parameters

- **model –** the model
- **width –** the width for the field

Usage

This method will only be called if the height of the field is set to Auto in the Editor and the adapter has reported that its desired autosizeBehavior is SMPOpenUIAutosizeBehaviorWrapContent.

If the adapter reports its desired autosize behavior is SMPOpenUIAutosizeBehaviorNone, or if this method is not implemented, standard Agentry layout rules will be used to determine the height of the field.

viewForFrame: method

Returns the UIView that will be added as a subview to the host's UIView This will be called one time after initWithXxxModel: has been called.

Syntax

```
- (UIView *) viewForFrame : (CGRect) frame
```

Parameters

- **frame –** the frame.

SMPOpenUIFieldModel protocol

This is the protocol implemented by all model objects that are given to an adapter extension so it can interface with Agentry.

Syntax

```
@protocol  SMPOpenUIFieldModel
```

Derived classes

- *SMPOpenUIBooleanDisplayModel* on page 153
- *SMPOpenUIButtonDisplayModel* on page 156
- *SMPOpenUICollectionDisplayModel* on page 160
- *SMPOpenUIDateAndTimeDisplayModel* on page 162
- *SMPOpenUIDateDisplayModel* on page 164
- *SMPOpenUIDecimalDisplayModel* on page 167
- *SMPOpenUIDurationDisplayModel* on page 170
- *SMPOpenUIEmbeddedImageDisplayModel* on page 175
- *SMPOpenUIExternalDataDisplayModel* on page 177
- *SMPOpenUIIntegerDisplayModel* on page 189
- *SMPOpenUILabelDisplayModel* on page 192
- *SMPOpenUILocationDisplayModel* on page 193
- *SMPOpenUIStringDisplayModel* on page 196
- *SMPOpenUITimeDisplayModel* on page 200
- *SMPOpenUIUnsignedIntegerDisplayModel* on page 202

Usage

See its derived protocols for specific data types.

agentryActionEnableState: method
Asks Agentry what the current enable state is for the action specified by name.

Syntax
`- (SMPOpenUIActionEnableType) agentryActionEnableState : (NSString *)` **actionName**

Parameters

- **actionName –** The action name as a string

Returns
The enable state

Usage

It will either be enabled, disabled, no-op(action not found), or error.

agentryString: method
Asks Agentry for a specific string value.

Syntax
`- (NSString *) agentryString : (NSString *)` **stringName**

Parameters

- **stringName –** The string the extension is requesting.

Returns
The value paired with that string.

Usage

In the definitions there are key/value pairs. The String passed in is a key, the value is returned. If no key exists for the specified string, an empty String will be returned.

executeAgentryAction: method
Asks Agentry to execute the action specified by name.

Syntax
`- (SMPOpenUIActionResult) executeAgentryAction : (NSString *)` **actionName**

Parameters

- **actionName –** The action name as a string

Returns

The result of trying to run the action

Usage

This should only be called if `agentryActionEnableState` returns ActionEnable for the specified action.

executeHyperlinkAction method

Executes the field's hyperlink action (if the hyperlink action is enabled).

Syntax

```
- (SMPOpenUIActionResult) executeHyperlinkAction
```

Returns

The action result

requestLayoutHeigh: method

Used to inform Agentry that a new height is desired for an autosizing field.

Syntax

```
- (void) requestLayoutHeigh : (NSUInteger) newHeight
```

Parameters

- **newHeight –** the desired height for the extension.

Usage

If the field is not autosizing, this request will be ignored. If it is autosizing and the extension can handle autosizing, Agentry will fire layout calculations and it might query the extension for the size again letting it know what its final width will be. See model:wantsViewHeightForWidth: (SMPOpenUIFieldAdapter-p) in the SMPOpenUIFieldAdapter protocol.

autosizing property

A Boolean value representing whether the field is set to Auto height in the Editor.

Syntax

```
@property (nonatomic, readonly) BOOL autosizing
```

Usage
The extension may choose to respond to this by providing the height of the field whenever requested by Agentry depending on what it wants to display. See model:wantsViewHeightForWidth: (SMPOpenUIFieldAdapter-p) in the SMPOpenUIFieldAdapter protocol.

The extension may also choose to notify Agentry that it wants a new height for an autosizing field via the method requestLayoutHeigh: in this protocol.

enabled property
A Boolean value representing whether the field is currently enabled based on current rule evaluation.

Syntax
```
@property (nonatomic, readonly) BOOL enabled
```

hidden property
A Boolean value representing whether or not the field is currently hidden based on current rule evaluations.

Syntax
```
@property (nonatomic, readonly) BOOL hidden
```

hyperlinkEnabled property
A Boolean value representing whether or not the hyperlink action is enabled.

Syntax
```
@property (nonatomic, readonly) BOOL hyperlinkEnabled
```

label property
The label the field would like the extension to display.

Syntax
```
@property (nonatomic, readonly) NSString * label
```

SMPOpenUIIntegerDisplayAdapter protocol
Protocol for a field extension representing a display-only integer field.

Syntax
```
@protocol SMPOpenUIIntegerDisplayAdapter
```

initWithIntegerDisplayModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIIntegerDisplayAdapter >)
initWithIntegerDisplayModel : (id<
SMPOpenUIIntegerDisplayModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeInteger: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUIIntegerDisplayModel >) model
didChangeInteger : (NSInteger) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIIntegerDisplayModel protocol
Model protocol of object provided to an adapter used for an extension field representing a display-only integer.

Syntax
```
@protocol SMPOpenUIIntegerDisplayModel
```

Derived classes

- *SMPOpenUIIntegerEditModel* on page 190

value property
The current integer value.

Syntax
```
@property (nonatomic, readonly) NSInteger value
```

SMPOpenUIIntegerEditAdapter protocol

Protocol for a field extension representing an editable integer field.

Syntax

```
@protocol  SMPOpenUIIntegerEditAdapter
```

initWithIntegerEditModel: method

Called to initialize the extension with its model.

Syntax

```
- (id< SMPOpenUIIntegerEditAdapter >)
initWithIntegerEditModel : (id< SMPOpenUIIntegerEditModel >)
model
```

Parameters

- **model –** The model for this adapter to use.

Returns

An initialized object that implements the protocol.

model:didChangeInteger: method

Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax

```
- (void) model : (id< SMPOpenUIIntegerEditModel >) model
didChangeInteger : (NSInteger) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIIntegerEditModel protocol

Model protocol of object provided to an adapter used for an extension field representing an editable integer.

Syntax

```
@protocol  SMPOpenUIIntegerEditModel
```

processInputInteger: method
Processes the input of the field.

Syntax
```
- (SMPOpenUIProcessInputReturn) processInputInteger :
(NSInteger) value
```

Parameters

- **value –** the value to process.

Returns
SMPOpenUIProcessInputReturn result based on the value passed in.

Usage

Returns the SMPOpenUIProcessInputReturn mask from processing the input.

maximumValue property
The maximum integer value that will be accepted.

Syntax
```
@property (nonatomic, readonly) NSInteger maximumValue
```

Usage
If no maximum value is set up for this field, NSIntegerMax will be returned.

minimumValue property
The minimum integer value that will be accepted.

Syntax
```
@property (nonatomic, readonly) NSInteger minimumValue
```

Usage
If no minimum value is set up for this field, NSIntegerMin will be returned.

SMPOpenUILabelDisplayAdapter protocol
Protocol for a field extension representing a label field.

Syntax
```
@protocol SMPOpenUILabelDisplayAdapter
```

initWithLabelDisplayModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUILabelDisplayAdapter >)
initWithLabelDisplayModel : (id< SMPOpenUILabelDisplayModel
>) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeLabel: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUILabelDisplayModel >) model
didChangeLabel : (NSString *) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUILabelDisplayModel protocol
Model protocol of object provided to an adapter used for an extension field representing a label.

Syntax
```
@protocol SMPOpenUILabelDisplayModel
```

value property
The text the label should display.

Syntax
```
@property (nonatomic, readonly) NSString * value
```

SMPOpenUILocationDisplayAdapter protocol

Protocol for a field extension representing a display-only location field.

Syntax

```
@protocol  SMPOpenUILocationDisplayAdapter
```

initWithLocationDisplayModel: method

Called to initialize the extension with its model.

Syntax

```
- (id< SMPOpenUILocationDisplayAdapter >)
initWithLocationDisplayModel : (id<
SMPOpenUILocationDisplayModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns

An initialized object that implements the protocol.

model:didChangeLocation: method

Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax

```
- (void) model : (id< SMPOpenUILocationDisplayModel >) model
didChangeLocation : (SMPOpenUILocation *) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUILocationDisplayModel protocol

Model protocol of object provided to an adapter used for an extension field representing a display-only location.

Syntax

```
@protocol  SMPOpenUILocationDisplayModel
```

Derived classes

- *SMPOpenUILocationEditModel* on page 195

value property
The current location value as an autoreleased SMPOpenUILocation.

Syntax
```
@property (nonatomic, readonly) SMPOpenUILocation * value
```

SMPOpenUILocationEditAdapter protocol
Protocol for a field extension representing an editable location field.

Syntax
```
@protocol SMPOpenUILocationEditAdapter
```

initWithLocationEditModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUILocationEditAdapter >)
initWithLocationEditModel : (id< SMPOpenUILocationEditModel
>) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeLocation: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUILocationEditModel >) model
didChangeLocation : (SMPOpenUILocation *) value
```

Parameters

- **model –** the model.

- **value –** the updated value the field should display.

SMPOpenUILocationEditModel protocol
Model protocol of object provided to an adapter used for an extension field representing an editable location.

Syntax
```
@protocol  SMPOpenUILocationEditModel
```

processInputLocation: method
Processes the input of the field.

Syntax
```
- (SMPOpenUIProcessInputReturn) processInputLocation :
(SMPOpenUILocation *) value
```

Parameters

- **value –** the value to process.

Returns
SMPOpenUIProcessInputReturn result based on the value passed in.

Usage

Returns the SMPOpenUIProcessInputReturn mask from processing the input.

SMPOpenUIStringDisplayAdapter protocol
Protocol for a field extension representing a display-only string field.

Syntax
```
@protocol  SMPOpenUIStringDisplayAdapter
```

initWithStringDisplayModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIStringDisplayAdapter >)
initWithStringDisplayModel : (id<
SMPOpenUIStringDisplayModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns

An initialized object that implements the protocol.

model:didChangeString: method

Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax

```
- (void) model : (id< SMPOpenUIStringDisplayModel >) model didChangeString : (NSString *) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIStringDisplayModel protocol

Model protocol of object provided to an adapter used for an extension field representing a display-only string.

Syntax

```
@protocol SMPOpenUIStringDisplayModel
```

Derived classes

- *SMPOpenUIStringEditModel* on page 198

allowsCarriageReturn property

A Boolean value representing whether this string display field allows carriage return.

Syntax

```
@property (nonatomic, readonly) BOOL allowsCarriageReturn
```

usesWordWrap property

A Boolean value representing whether this string display field uses word wrap.

Syntax

```
@property (nonatomic, readonly) BOOL usesWordWrap
```

value property
The current string value.

Syntax
```
@property (nonatomic, readonly) NSString * value
```

SMPOpenUIStringEditAdapter protocol
Protocol for a field extension representing an editable string field.

Syntax
```
@protocol SMPOpenUIStringEditAdapter
```

initWithStringEditModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIStringEditAdapter >) initWithStringEditModel
: (id< SMPOpenUIStringEditModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeString: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUIStringEditModel >) model
didChangeString : (NSString *) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIStringEditModel protocol

Model protocol of object provided to an adapter used for an extension field representing an editable string.

Syntax

```
@protocol  SMPOpenUIStringEditModel
```

processInputString: method

Processes the input of the field.

Syntax

```
- (SMPOpenUIProcessInputReturn) processInputString :
(NSString *) value
```

Parameters

- **value –** the value to process.

Returns

SMPOpenUIProcessInputReturn result based on the value passed in.

Usage

Returns the SMPOpenUIProcessInputReturn mask from processing the input.

isPasswordInput property

A Boolean value representing whether the edit field should obscure its input, as would be the case if it were being used to retrieve a password.

Syntax

```
@property (nonatomic, readonly) BOOL isPasswordInput
```

maximumLength property

The maximum number of characters that the edit text field will allow upon field validation.

Syntax

```
@property (nonatomic, readonly) NSUInteger maximumLength
```

Usage

If no maximum length is setup for this field, 0 will be returned.

minimumLength property
The minimum number of characters that the edit text field will allow upon field validation.

Syntax
```
@property (nonatomic, readonly) NSUInteger minimumLength
```

Usage
If no minimum length is setup for this field, 0 will be returned.

SMPOpenUITimeDisplayAdapter protocol
Protocol for a field extension representing a display-only time field.

Syntax
```
@protocol SMPOpenUITimeDisplayAdapter
```

initWithTimeDisplayModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUITimeDisplayAdapter >)
initWithTimeDisplayModel : (id< SMPOpenUITimeDisplayModel >)
```
model

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeTime: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUITimeDisplayModel >)
didChangeTime : (NSDate *)
```
model **value**

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUITimeDisplayModel protocol

Model protocol of object provided to an adapter used for an extension field representing a display-only time.

Syntax

```
@protocol  SMPOpenUITimeDisplayModel
```

Derived classes

- *SMPOpenUITimeEditModel* on page 201

value property

The current time value.

Syntax

```
@property (nonatomic, readonly) NSDate * value
```

Usage

The date portion will be set to the reference date (Jan 1, 2001)

SMPOpenUITimeEditAdapter protocol

Protocol for a field extension representing an editable time field.

Syntax

```
@protocol  SMPOpenUITimeEditAdapter
```

initWithTimeEditModel: method

Called to initialize the extension with its model.

Syntax

```
- (id< SMPOpenUITimeEditAdapter >) initWithTimeEditModel : (
id< SMPOpenUITimeEditModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns

An initialized object that implements the protocol.

model:didChangeTime: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
`- (void) model : (id< SMPOpenUITimeEditModel >)` **model** `didChangeTime : (NSDate *)` **value**

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUITimeEditModel protocol
Model protocol of object provided to an adapter used for an extension field representing an editable time.

Syntax
```
@protocol SMPOpenUITimeEditModel
```

processInputTime: method
Processes the input of the field.

Syntax
`- (SMPOpenUIProcessInputReturn) processInputTime : (NSDate *)` **value**

Parameters

- **value –** the value to process.

Returns
SMPOpenUIProcessInputReturn result based on the value passed in.

Usage

Returns the SMPOpenUIProcessInputReturn mask from processing the input.

SMPOpenUIUnsignedIntegerDisplayAdapter protocol
Protocol for a field extension representing a display-only unsigned integer field.

Syntax
```
@protocol SMPOpenUIUnsignedIntegerDisplayAdapter
```

initWithUnsignedIntegerDisplayModel: method
Called to initialize the extension with its model.

Syntax
```
- (id< SMPOpenUIUnsignedIntegerDisplayAdapter >)
initWithUnsignedIntegerDisplayModel : (id<
SMPOpenUIUnsignedIntegerDisplayModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns
An initialized object that implements the protocol.

model:didChangeUnsignedInteger: method
Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax
```
- (void) model : (id< SMPOpenUIUnsignedIntegerDisplayModel
>) model didChangeUnsignedInteger : (NSUInteger) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIUnsignedIntegerDisplayModel protocol
Model protocol of object provided to an adapter used for an extension field representing a display-only unsigned integer.

Syntax
```
@protocol SMPOpenUIUnsignedIntegerDisplayModel
```

Derived classes

- *SMPOpenUIUnsignedIntegerEditModel* on page 203

value property
The current unsigned integer value.

Syntax
```
@property (nonatomic, readonly) NSUInteger value
```

SMPOpenUIUnsignedIntegerEditAdapter protocol

Protocol for a field extension representing an editable unsigned integer field.

Syntax

```
@protocol  SMPOpenUIUnsignedIntegerEditAdapter
```

initWithUnsignedIntegerEditModel: method

Called to initialize the extension with its model.

Syntax

```
- (id< SMPOpenUIUnsignedIntegerEditAdapter >)
initWithUnsignedIntegerEditModel : (id<
SMPOpenUIUnsignedIntegerEditModel >) model
```

Parameters

- **model –** The model for this adapter to use.

Returns

An initialized object that implements the protocol.

model:didChangeUnsignedInteger: method

Called to inform the adapter that the field's underlying value has changed, and it needs to be updated to display the correct value.

Syntax

```
- (void) model : (id< SMPOpenUIUnsignedIntegerEditModel >)
model didChangeUnsignedInteger : (NSUInteger) value
```

Parameters

- **model –** the model.
- **value –** the updated value the field should display.

SMPOpenUIUnsignedIntegerEditModel protocol

Model protocol of object provided to an adapter used for an extension field representing an editable unsigned integer.

Syntax

```
@protocol  SMPOpenUIUnsignedIntegerEditModel
```

processInputUnsignedInteger: method
Processes the input of the field.

Syntax

```
- (SMPOpenUIProcessInputReturn)
processInputUnsignedInteger : (NSUInteger) value
```

Parameters

- **value –** the value to process.

Returns
SMPOpenUIProcessInputReturn result based on the value passed in.

Usage

Returns the SMPOpenUIProcessInputReturn mask from processing the input.

maximumValue property
The maximum unsigned integer value that will be accepted.

Syntax

```
@property (nonatomic, readonly) NSUInteger maximumValue
```

Usage
If no maximum value is setup for this field, NSUIntegerMax will be returned.

minimumValue property
The minimum unsigned integer value that will be accepted.

Syntax

```
@property (nonatomic, readonly) NSUInteger minimumValue
```

Usage
If no minimum value is setup for this field, 0 will be returned.

SMPOpenUIActionEnableType enumeration
An enum used to represent the possible enabled states of an action.

Enum Constant Summary

- **SMPOpenUIActionEnableTypeUnknown –** The model is invalid and the action enable type cannot be determined.

- **SMPOpenUIActionEnable –** The action is enabled.
- **SMPOpenUIActionDisable –** The action is disabled.
- **SMPOpenUIActionNoOperation –** The action cannot be found.
- **SMPOpenUIActionError –** The action is found but is invalid.

SMPOpenUIActionResult enumeration

An enum used to represent the possible results of executing an action.

Enum Constant Summary

- **SMPOpenUIActionResultUnknown –** The model is invalid and the action is not being processed at all.
- **SMPOpenUIActionResultBackup –** The action was backed out of by the user.
- **SMPOpenUIActionResultError –** There was an error when running the action.
- **SMPOpenUIActionResultCancel –** The action was canceled by user.
- **SMPOpenUIActionResultPending –** The action is still in progress and has not yet completed.
- **SMPOpenUIActionResultComplete –** The action completed successfully.

SMPOpenUIAutosizeBehavior enumeration

An enum used to tell Agentry what the autosize behavior for the extension should be.

Enum Constant Summary

- **SMPOpenUIAutosizeBehaviorNone –** The adapter view will not be autosized.
- **SMPOpenUIAutosizeBehaviorFillVisible –** The adapter view will be autosized to take up the visible area of the screen.
- **SMPOpenUIAutosizeBehaviorWrapContent –** The adapter will be queried via "wantsViewHeightForWidth:" to determine the height it wants its view to be depending on its content.

SMPOpenUIButtonType enumeration

An enum used to represent the different button types an Agentry Button Field can be set to.

Enum Constant Summary

- **SMPOpenUIButtonTypeUnknown –** The type of the button could not be determined.
- **SMPOpenUIButtonTypeCheckbox –** Check box button.
- **SMPOpenUIButtonTypeRadio –** Radio button.
- **SMPOpenUIButtonTypePush –** Push button.

SMPOpenUIDurationDisplayFormat enumeration

An enum used to represent the different display formats an Agentry Duration field can be set to.

Enum Constant Summary

- **SMPOpenUIDurationDisplayFormatUnknown –** The model is invalid and the display format cannot be queried.
- **SMPOpenUIDurationDisplayFormatHourMinSec –** HH:MM:SS.
- **SMPOpenUIDurationDisplayFormatHourMin –** HH:MM.
- **SMPOpenUIDurationDisplayFormatMinSec –** MM:SS.
- **SMPOpenUIDurationDisplayFormatDecHour –** HH.XX.

SMPOpenUIImagePosition enumeration

An enum used to represent the possible presentation positions for an Agentry image.

Enum Constant Summary

- **SMPOpenUIImagePositionUnknown –** We don't know the image position.
- **SMPOpenUIImagePositionCenter –** Image positioned at the center.
- **SMPOpenUIImagePositionUpperLeft –** Image positioned at the top left.
- **SMPOpenUIImagePositionUpperMiddle –** Image positioned at the top middle.
- **SMPOpenUIImagePositionUpperRight –** Image positioned at the top right.
- **SMPOpenUIImagePositionMiddleLeft –** Image positioned at the middle left.
- **SMPOpenUIImagePositionMiddleRight –** Image positioned at the middle right.
- **SMPOpenUIImagePositionLowerLeft –** Image positioned at the bottom left.
- **SMPOpenUIImagePositionLowerMiddle –** Image positioned at the bottom middle.
- **SMPOpenUIImagePositionLowerRight –** Image positioned at the bottom right.

SMPOpenUIImagePresentation enumeration

An enum used to represent the possible presentation styles for an Agentry image.

Enum Constant Summary

- **SMPOpenUIImagePresentationUnknown –** We don't know the image presentation type.
- **SMPOpenUIImagePresentationLockAspectRatio –** Image should be resized to fit within the field area while maintaining its aspect ratio.
- **SMPOpenUIImagePresentationStretchToFit –** Image should be stretched to fit within the field area.
- **SMPOpenUIImagePresentationCropToFit –** Image should be cropped to fit within the field area.

- **SMPOpenUIImagePresentationFullSize –** The image should be presented full-sized (nothing is selected in the Editor)

SMPOpenUIProcessInputReturn enumeration
An options enum used to represent the return of processInputXxx: on each model.

Enum Constant Summary

- **SMPOpenUIProcessInputReturnNone –** There were no changes to the state of the model or the model could not be accessed and the value is not being processed at all.
- **SMPOpenUIProcessInputReturnValid –** The value passed in is valid (or it was made valid).
- **SMPOpenUIProcessInputReturnMunged –** The value has been adjusted from what the user did, but not in a way that affects its logical value (for example, if the lowercase attribute is set, and an uppercase character was typed in).
- **SMPOpenUIProcessInputReturnChanged –** The value passed in is not the same as the value the model already had.

Agentry OpenUI API for WPF

Use the OpenUI API for WPF to add custom controls to Agentry applications.

IAgentryCollection interface

Placeholder interface for future development.

Visual Basic syntax
```
Public Interface IAgentryCollection Implements IAgentryData
```

C# syntax
```
public interface IAgentryCollection:IAgentryData
```

Members
All members of IAgentryCollection, including inherited members. **Inherited members from IAgentryData**

Modifier and Type	Member	Description
public IAgentryData	*Ancestor* on page 254	The parent object of this object.
public List< IAgentryCollection >	*Collections()* on page 253	Return a list of collections contained by this object.
public AgentryDataType	*DataType* on page 255	Return the type of this object as defined in the Editor.

Modifier and Type	Member	Description
public IAgentryData	*Descendant(int)* on page 253	Return a specific data item that's owned by this object.
public int	*DescendantCount* on page 255	Return the number of data items owned by this object.
public string	*DisplayName* on page 255	Return the display name of this object as specified in the Editor.
public string	*InternalName* on page 255	Return the internal name of this object as specified in the Editor.
public List< IAgentryObject >	*Objects()* on page 254	Return a list of objects contained by this object.
public List< IAgentryProperty >	*Properties()* on page 254	Return a list of properties owned by this object.
public IAgentryData	*Root* on page 256	The root object in the data tree for an Agentry module.

IAgentryControlViewModel interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModel Implements
INotifyPropertyChanged
```

C# syntax

```
public interface IAgentryControlViewModel:
INotifyPropertyChanged
```

Derived classes

- *IAgentryControlViewModelCollectionDisplay* on page 214
- *IAgentryControlViewModelDateTimeDisplay* on page 219
- *IAgentryControlViewModelDurationDisplay* on page 230
- *IAgentryControlViewModelFileDisplay* on page 235
- *IAgentryControlViewModelImage* on page 237
- *IAgentryControlViewModelLabel* on page 240
- *IAgentryControlViewModelNumberDisplay< T >* on page 244
- *IAgentryControlViewModelStringDisplay* on page 246

Members

All members of IAgentryControlViewModel, including inherited members. **Methods**

Modifier and Type	Method	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Properties

Modifier and Type	Property	Description
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.

Usage
The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

DoesAgentryActionExist(string) method
Ask Agentry if an action with the specified name exists.

Visual Basic syntax
```
Public Function DoesAgentryActionExist(ByVal actionName As String) As Boolean
```

C# syntax
```
public bool DoesAgentryActionExist(string actionName)
```

Parameters

- **actionName –** the name of the action

Returns
True if the action exists; false if not

ExecuteAgentryAction(string) method
Ask Agentry to execute the action with the specified name.

Visual Basic syntax
```
Public Function ExecuteAgentryAction(ByVal actionName As String) As SMPActionResult
```

C# syntax
```
public SMPActionResult ExecuteAgentryAction(string actionName)
```

Parameters

- **actionName –** the name of the action

Returns
Enum indicating the result of the action

Usage
Only actions defined for this control in the Agentry Editor can be executed.

ExecuteHyperlinkAction() method

Direct the Agentry client to invoke the control's hyperlink action.

Visual Basic syntax

```
Public Function ExecuteHyperlinkAction() As SMPActionResult
```

C# syntax

```
public SMPActionResult ExecuteHyperlinkAction()
```

Returns

Enum indicating the result of the action

GetAgentryString(string) method

Asks Agentry for a specific string value.

Visual Basic syntax

```
Public Function GetAgentryString(ByVal key As String) As
String
```

C# syntax

```
public string GetAgentryString(string key)
```

Parameters

- **key –** the key associated with the desired value

Returns

The value associated with the specified key

Usage

In the definitions there are key/value pairs. If the specified string matches a key, its value is returned. Otherwise, an empty string is returned.

IsAgentryActionEnabled(string) method

Ask Agentry if an action with the specified name exists and is enabled.

Visual Basic syntax

```
Public Function IsAgentryActionEnabled(ByVal actionName As
String) As Boolean
```

C# syntax

```
public bool IsAgentryActionEnabled(string actionName)
```

Parameters

- **actionName –** the name of the action

Returns
True if the action exists and is enabled; false if not

OnPropertyChanged(string) method

The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Visual Basic syntax

```
Public Sub OnPropertyChanged(ByVal strPropertyName As String)
```

C# syntax

```
public void OnPropertyChanged(string strPropertyName)
```

Usage
Property Name: Label IsEnabled IsVisible IsHyperlinkEnabled Error (IDataErrorInfo)

Each type of control has its own value property, which raises the PropertyChanged event when it changes.

String: StringValue Label: Label Integer: NumberValue Identifier: NumberValue Decimal: NumberValue, StringValue Duration: DurationValue Date: Value, DateValue Time: Value, TimeValue Date/Time: Value, DateValue, TimeValue Image: Image Data: FilePath

IsAutoSize property

Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.

Visual Basic syntax

```
Public ReadOnly Property IsAutoSize As Boolean
```

C# syntax

```
public bool IsAutoSize {get;}
```

Usage
The WPF/.NET client doesn't need to do that because of WPF's built-in support for automatically sizing its controls.

IsEnabled property
Determine if the control should be enabled.

Visual Basic syntax
```
Public ReadOnly Property IsEnabled As Boolean
```

C# syntax
```
public bool IsEnabled {get;}
```

IsHyperlinkEnabled property
Determine if the control's hyperlink should be enabled.

Visual Basic syntax
```
Public ReadOnly Property IsHyperlinkEnabled As Boolean
```

C# syntax
```
public bool IsHyperlinkEnabled {get;}
```

IsVisible property
Determine if the control should be visible.

Visual Basic syntax
```
Public ReadOnly Property IsVisible As Boolean
```

C# syntax
```
public bool IsVisible {get;}
```

Label property
Returns the text of this control's label.

Visual Basic syntax
```
Public Property Label As String
```

C# syntax
```
public string Label {get;set;}
```

Usage
(The set method ignores the passed value. It merely determines if the view-model should raise a change event for this property, in case it's changed in the model.)

IAgentryControlViewModelCollectionDisplay interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModelCollectionDisplay
Implements IAgentryControlViewModel, IEnumerable< IAgentryData
>
```

C# syntax

```
public interface IAgentryControlViewModelCollectionDisplay:
IAgentryControlViewModel, IEnumerable< IAgentryData >
```

Members

All members of IAgentryControlViewModelCollectionDisplay, including inherited members. **Methods**

Modifier and Type	Method	Description
public IAgentryData	*DisplayedItemAt(int)* on page 216	Return the displayed item at the passed index.
public SMPProcessInputReturn	*SelectItem(int)* on page 216	Select the item at the passed index into the displayed items.

Properties

Modifier and Type	Property	Description
public uint	*DisplayedItemCount* on page 216	Get number of items in collection of displayed objects.
public IAgentryData	*SelectedItem* on page 217	Return the selected item in the list.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.

Modifier and Type	Member	Description
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of a collection control, such as a list-view or tile list.

Note that IEnumerable<> implements IEnumerable, too.

DisplayedItemAt(int) method

Return the displayed item at the passed index.

Visual Basic syntax

```
Public Function DisplayedItemAt(ByVal index As Integer) As
IAgentryData
```

C# syntax

```
public IAgentryData DisplayedItemAt(int index)
```

Parameters

- **index –** Index of desired displayed item

Returns

Item displayed at the passed index

SelectItem(int) method

Select the item at the passed index into the displayed items.

Visual Basic syntax

```
Public Function SelectItem(ByVal index As Integer) As
SMPProcessInputReturn
```

C# syntax

```
public SMPProcessInputReturn SelectItem(int index)
```

Parameters

- **index –** Index of the displayed item to select

Returns

Result of selection

DisplayedItemCount property

Get number of items in collection of displayed objects.

Visual Basic syntax

```
Public ReadOnly Property DisplayedItemCount As UInteger
```

C# syntax

```
public uint DisplayedItemCount {get;}
```

SelectedItem property

Return the selected item in the list.

Visual Basic syntax

```
Public ReadOnly Property SelectedItem As IAgentryData
```

C# syntax

```
public IAgentryData SelectedItem {get;}
```

IAgentryControlViewModelDateTime interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModelDateTime Implements
IAgentryControlViewModelDateTimeDisplay
```

C# syntax

```
public interface IAgentryControlViewModelDateTime:
IAgentryControlViewModelDateTimeDisplay
```

Members

All members of IAgentryControlViewModelDateTime, including inherited members.

Methods

Modifier and Type	Method	Description
public void	*ProcessInput(DateTime)* on page 219	Set the value of the control's backing property to the passed value.

Inherited members from IAgentryControlViewModelDateTimeDisplay

Modifier and Type	Member	Description
public DateTime	*DateValue* on page 221	Return the Date property of the DateTime value.
public TimeSpan	*TimeValue* on page 221	Return the TimeOfDay property of the DateTime value.
public DateTime	*Value* on page 221	Return the DateTime value of the control's backing property.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of a "Date and Time," "Date," or "Time," edit control.

ProcessInput(DateTime) method

Set the value of the control's backing property to the passed value.

Visual Basic syntax

```
Public Sub ProcessInput(ByVal value As Date)
```

C# syntax

```
public void ProcessInput(DateTime value)
```

Parameters

- **value –** New value of this control's backing property

IAgentryControlViewModelDateTimeDisplay interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModelDateTimeDisplay
Implements IAgentryControlViewModel
```

C# syntax

```
public interface IAgentryControlViewModelDateTimeDisplay:
IAgentryControlViewModel
```

Derived classes

- *IAgentryControlViewModelDateTime* on page 217

Members

All members of IAgentryControlViewModelDateTimeDisplay, including inherited members.

Properties

Modifier and Type	Property	Description
public DateTime	*DateValue* on page 221	Return the Date property of the DateTime value.
public TimeSpan	*TimeValue* on page 221	Return the TimeOfDay property of the DateTime value.
public DateTime	*Value* on page 221	Return the DateTime value of the control's backing property.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of a "Date and Time," "Date," or "Time," display control.

DateValue property

Return the Date property of the DateTime value.

Visual Basic syntax

```
Public Property DateValue As Date
```

C# syntax

```
public DateTime DateValue {get;set;}
```

Usage

If it's null, this returns Today.

(The set method serves no purpose in this interface. It's provided solely for the IAgentryControlViewModelDateTime interface that derives from this one.)

TimeValue property

Return the TimeOfDay property of the DateTime value.

Visual Basic syntax

```
Public Property TimeValue As TimeSpan
```

C# syntax

```
public TimeSpan TimeValue {get;set;}
```

Usage

If it's null, this returns a zero TimeSpan.

(The set method serves no purpose in this interface. It's provided solely for the IAgentryControlViewModelDateTime interface that derives from this one.)

Value property

Return the DateTime value of the control's backing property.

Visual Basic syntax

```
Public Property Value As Date
```

C# syntax

```
public DateTime Value {get;set;}
```

Usage

The value may be null.

(The set method serves no purpose in this interface. It's provided solely for the IAgentryControlViewModelDateTime interface that derives from this one.)

IAgentryControlViewModelDecimal interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModelDecimal Implements
IAgentryControlViewModelDecimalDisplay
```

C# syntax

```
public interface IAgentryControlViewModelDecimal:
IAgentryControlViewModelDecimalDisplay
```

Members

All members of IAgentryControlViewModelDecimal, including inherited members.

Methods

Modifier and Type	Method	Description
public void	*ProcessInput(double)* on page 224	Set the value of the control's backing property to the passed value.

Inherited members from IAgentryControlViewModelNumberDisplay< T >

Modifier and Type	Member	Description
public T	*NumberValue* on page 246	Return the value of the control's backing property.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.

Modifier and Type	Member	Description
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Inherited members from IAgentryControlViewModelStringDisplay

Modifier and Type	Member	Description
public string	*StringValue* on page 248	Return the value of the control's backing property.
public bool	*WordWrap* on page 248	Determine if word-wrapping is enabled.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.

Modifier and Type	Member	Description
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of a "Decimal" edit control.

ProcessInput(double) method

Set the value of the control's backing property to the passed value.

Visual Basic syntax

```
Public Sub ProcessInput(ByVal value As Double)
```

C# syntax

```
public void ProcessInput (double value)
```

Parameters

- **value –** New value of this control's backing property

IAgentryControlViewModelDecimalDisplay interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModelDecimalDisplay
Implements IAgentryControlViewModelNumberDisplay< T >,
IAgentryControlViewModelStringDisplay
```

C# syntax

```
public interface IAgentryControlViewModelDecimalDisplay:
IAgentryControlViewModelNumberDisplay< T >,
IAgentryControlViewModelStringDisplay
```

Derived classes

- *IAgentryControlViewModelDecimal* on page 222

Members

All members of IAgentryControlViewModelDecimalDisplay, including inherited members.

Inherited members from IAgentryControlViewModelNumberDisplay< T >

Modifier and Type	Member	Description
public T	*NumberValue* on page 246	Return the value of the control's backing property.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.

Modifier and Type	Member	Description
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Inherited members from IAgentryControlViewModelStringDisplay

Modifier and Type	Member	Description
public string	*StringValue* on page 248	Return the value of the control's backing property.
public bool	*WordWrap* on page 248	Determine if word-wrapping is enabled.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of a "Decimal" display control.

IAgentryControlViewModelDuration interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModelDuration Implements
IAgentryControlViewModelDurationDisplay
```

C# syntax

```
public interface IAgentryControlViewModelDuration:
IAgentryControlViewModelDurationDisplay
```

Members

All members of IAgentryControlViewModelDuration, including inherited members.

Methods

Modifier and Type	Method	Description
public void	*ProcessInput(TimeSpan)* on page 230	Set the value of the control's backing property to the passed value.

Properties

Modifier and Type	Property	Description
public TimeSpan	*Maximum Value* on page 230	Return the maximum value permitted for this control.
public TimeSpan	*Minimum Value* on page 230	Return the minimum value permitted for this control.

Inherited members from IAgentryControlViewModelDurationDisplay

Modifier and Type	Member	Description
public SMPDurationFormat	*DurationFormat* on page 232	Return the format that is set in the Agentry Editor for this control.
public TimeSpan	*Duration Value* on page 232	Return the value of the control's backing property.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of a "Duration" edit control.

ProcessInput(TimeSpan) method

Set the value of the control's backing property to the passed value.

Visual Basic syntax

```
Public Sub ProcessInput(ByVal value As TimeSpan)
```

C# syntax

```
public void ProcessInput(TimeSpan value)
```

Parameters

- **value –** New value of this control's backing property

MaximumValue property

Return the maximum value permitted for this control.

Visual Basic syntax

```
Public ReadOnly Property MaximumValue As TimeSpan
```

C# syntax

```
public TimeSpan MaximumValue {get;}
```

MinimumValue property

Return the minimum value permitted for this control.

Visual Basic syntax

```
Public ReadOnly Property MinimumValue As TimeSpan
```

C# syntax

```
public TimeSpan MinimumValue {get;}
```

IAgentryControlViewModelDurationDisplay interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModelDurationDisplay
Implements IAgentryControlViewModel
```

C# syntax

```
public interface IAgentryControlViewModelDurationDisplay:
IAgentryControlViewModel
```

Derived classes

- *IAgentryControlViewModelDuration* on page 228

Members

All members of IAgentryControlViewModelDurationDisplay, including inherited members.

Properties

Modifier and Type	Property	Description
public SMPDurationFormat	*DurationFormat* on page 232	Return the format that is set in the Agentry Editor for this control.
public TimeSpan	*DurationValue* on page 232	Return the value of the control's backing property.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.

Modifier and Type	Member	Description
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage
The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of a "Duration" display control.

DurationFormat property
Return the format that is set in the Agentry Editor for this control.

Visual Basic syntax
```
Public ReadOnly Property DurationFormat As SMPDurationFormat
```

C# syntax
```
public SMPDurationFormat DurationFormat {get;}
```

DurationValue property
Return the value of the control's backing property.

Visual Basic syntax
```
Public Property DurationValue As TimeSpan
```

C# syntax
```
public TimeSpan DurationValue {get;set;}
```

Usage
(The set method serves no purpose in this interface. It's provided solely for the IAgentryControlViewModelDuration interface that derives from this one.)

IAgentryControlViewModelFile interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModelFile Implements
IAgentryControlViewModelFileDisplay
```

C# syntax

```
public interface IAgentryControlViewModelFile:
IAgentryControlViewModelFileDisplay
```

Members

All members of IAgentryControlViewModelFile, including inherited members. **Methods**

Modifier and Type	Method	Description
public void	*ProcessInput(string)* on page 234	Set the value of the control's backing property to the passed value.

Inherited members from IAgentryControlViewModelFileDisplay

Modifier and Type	Member	Description
public string	*FilePath* on page 236	Return the full path of the file.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.

Modifier and Type	Member	Description
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of an "External File" edit control.

ProcessInput(string) method

Set the value of the control's backing property to the passed value.

Visual Basic syntax

```
Public Sub ProcessInput(ByVal value As String)
```

C# syntax

```
public void ProcessInput(string value)
```

Parameters

- **value –** New value of this control's backing property

IAgentryControlViewModelFileDisplay interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModelFileDisplay
Implements IAgentryControlViewModel
```

C# syntax

```
public interface IAgentryControlViewModelFileDisplay:
IAgentryControlViewModel
```

Derived classes

- *IAgentryControlViewModelFile* on page 233

Members

All members of IAgentryControlViewModelFileDisplay, including inherited members.

Properties

Modifier and Type	Property	Description
public string	*FilePath* on page 236	Return the full path of the file.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.

Modifier and Type	Member	Description
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of an "External File" display control.

FilePath property

Return the full path of the file.

Visual Basic syntax

```
Public Property FilePath As String
```

C# syntax

```
public string FilePath {get;set;}
```

Usage

(The set method serves no purpose in this interface. It's provided solely for the IAgentryControlViewModelFile interface that derives from this one.)

IAgentryControlViewModelImage interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModelImage Implements
IAgentryControlViewModel
```

C# syntax

```
public interface IAgentryControlViewModelImage:
IAgentryControlViewModel
```

Members

All members of IAgentryControlViewModelImage, including inherited members. **Methods**

Modifier and Type	Method	Description
public bool	*IsSelected(int, int)* on page 239	
public void	*SelectCell(int, int)* on page 239	

Properties

Modifier and Type	Property	Description
public int	*Columns* on page 239	This method returns
public System.Windows.Media.ImageSource	*Image* on page 239	
public int	*Rows* on page 240	
public System.Windows.Media.Color	*SelectColor* on page 240	

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.

Modifier and Type	Member	Description
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of an "Embedded Image" control.

IsSelected(int, int) method

Visual Basic syntax

```
Public Function IsSelected(ByVal x As Integer, ByVal y As
Integer) As Boolean
```

C# syntax

```
public bool IsSelected(int x, int y)
```

Parameters

- **x** – Zero-based column of the cell to test
- **y** – Zero-based row of the cell to test

Returns

flag indicating if the cell at the specified coordinates is selected

SelectCell(int, int) method

Visual Basic syntax

```
Public Sub SelectCell(ByVal x As Integer, ByVal y As Integer)
```

C# syntax

```
public void SelectCell(int x, int y)
```

Parameters

- **x** – Zero-based column of the cell to select
- **y** – Zero-based row of the cell to select

Columns property

This method returns

Visual Basic syntax

```
Public ReadOnly Property Columns As Integer
```

C# syntax

```
public int Columns {get;}
```

Image property

Visual Basic syntax

```
Public Property Image As System.Windows.Media.ImageSource
```

C# syntax
```
public System.Windows.Media.ImageSource Image {get;set;}
```

Rows property

Visual Basic syntax
```
Public ReadOnly Property Rows As Integer
```

C# syntax
```
public int Rows {get;}
```

SelectColor property

Visual Basic syntax
```
Public ReadOnly Property SelectColor As
System.Windows.Media.Color
```

C# syntax
```
public System.Windows.Media.Color SelectColor {get;}
```

IAgentryControlViewModelLabel interface

This interface is implemented by the Agentry client.

Visual Basic syntax
```
Public Interface IAgentryControlViewModelLabel Implements
IAgentryControlViewModel
```

C# syntax
```
public interface IAgentryControlViewModelLabel:
IAgentryControlViewModel
```

Members

All members of IAgentryControlViewModelLabel, including inherited members. **Inherited members from IAgentryControlViewModel**

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.

Modifier and Type	Member	Description
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of a "Label" control.

IAgentryControlViewModelNumber< T > interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModelNumber< T >
Implements IAgentryControlViewModelNumberDisplay< T >
```

C# syntax

```
public interface IAgentryControlViewModelNumber< T >:
IAgentryControlViewModelNumberDisplay< T >
```

Members

All members of IAgentryControlViewModelNumber< T >, including inherited members.

Methods

Modifier and Type	Method	Description
public void	*ProcessInput(T)* on page 244	Set the value of the control's backing property to the passed value.

Properties

Modifier and Type	Property	Description
public T	*Maximum* on page 244	Return the maximum value permitted for this control.
public T	*Minimum* on page 244	Return the minimum value permitted for this control.

Inherited members from IAgentryControlViewModelNumberDisplay< T >

Modifier and Type	Member	Description
public T	*NumberValue* on page 246	Return the value of the control's backing property.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.

Modifier and Type	Member	Description
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of an "Integral" or "Identifier" edit control.

ProcessInput(T) method

Set the value of the control's backing property to the passed value.

Visual Basic syntax

```
Public Sub ProcessInput(ByVal value As T)
```

C# syntax

```
public void ProcessInput(T value)
```

Parameters

- **value –** New value of this control's backing property

Maximum property

Return the maximum value permitted for this control.

Visual Basic syntax

```
Public ReadOnly Property Maximum As T
```

C# syntax

```
public T Maximum {get;}
```

Minimum property

Return the minimum value permitted for this control.

Visual Basic syntax

```
Public ReadOnly Property Minimum As T
```

C# syntax

```
public T Minimum {get;}
```

IAgentryControlViewModelNumberDisplay< T > interface

This interface is implemented by the Agentry client.

Visual Basic syntax

```
Public Interface IAgentryControlViewModelNumberDisplay< T >
Implements IAgentryControlViewModel
```

C# syntax

```
public interface IAgentryControlViewModelNumberDisplay< T >:
IAgentryControlViewModel
```

Derived classes

- *IAgentryControlViewModelDecimalDisplay* on page 225
- *IAgentryControlViewModelNumber< T >* on page 242

Members

All members of IAgentryControlViewModelNumberDisplay< T >, including inherited members. **Properties**

Modifier and Type	Property	Description
public T	*NumberValue* on page 246	Return the value of the control's backing property.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.

Modifier and Type	Member	Description
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage
The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of an "Integral" or "Identifier" display control.

The template parameter is either an 'int' or 'uint.'

NumberValue property
Return the value of the control's backing property.

Visual Basic syntax
```
Public Property NumberValue As T
```

C# syntax
```
public T NumberValue {get;set;}
```

Usage
(The set method serves no purpose in this interface. It's provided solely for the IAgentryControlViewModelNumber interface that derives from this one.)

IAgentryControlViewModelStringDisplay interface
This interface is implemented by the Agentry client.

Visual Basic syntax
```
Public Interface IAgentryControlViewModelStringDisplay
Implements IAgentryControlViewModel
```

C# syntax

```
public interface IAgentryControlViewModelStringDisplay:
IAgentryControlViewModel
```

Derived classes

- *IAgentryControlViewModelDecimalDisplay* on page 225
- *IAgentryControlViewModelStringEdit* on page 249

Members

All members of IAgentryControlViewModelStringDisplay, including inherited members.

Properties

Modifier and Type	Property	Description
public string	*StringValue* on page 248	Return the value of the control's backing property.
public bool	*WordWrap* on page 248	Determine if word-wrapping is enabled.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.

Modifier and Type	Member	Description
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of a "String" display control.

StringValue property

Return the value of the control's backing property.

Visual Basic syntax

```
Public Property StringValue As String
```

C# syntax

```
public string StringValue {get;set;}
```

Usage

(The set method serves no purpose in this interface. It's provided solely for the IAgentryControlViewModelString interface that derives from this one.)

WordWrap property

Determine if word-wrapping is enabled.

Visual Basic syntax

```
Public ReadOnly Property WordWrap As Boolean
```

C# syntax
```
public bool WordWrap {get;}
```

IAgentryControlViewModelStringEdit interface

This interface is implemented by the Agentry client.

Visual Basic syntax
```
Public Interface IAgentryControlViewModelStringEdit Implements
IAgentryControlViewModelStringDisplay
```

C# syntax
```
public interface IAgentryControlViewModelStringEdit:
IAgentryControlViewModelStringDisplay
```

Members

All members of IAgentryControlViewModelStringEdit, including inherited members.

Methods

Modifier and Type	Method	Description
public void	*ProcessInput(string)* on page 251	Set the value of the control's backing property to the passed value.

Properties

Modifier and Type	Property	Description
public bool	*AcceptReturn* on page 251	Return a flag indicating if the control should accept the Return key as input.
public bool	*IsPassword* on page 251	Return a flag indicating if the control is a password.
public int	*MaximumLength* on page 252	Return the maximum length of the string value (in characters).
public int	*MinimumLength* on page 252	Return the minimum length of the string value (in characters).

Inherited members from IAgentryControlViewModelStringDisplay

Modifier and Type	Member	Description
public string	*StringValue* on page 248	Return the value of the control's backing property.
public bool	*WordWrap* on page 248	Determine if word-wrapping is enabled.

Inherited members from IAgentryControlViewModel

Modifier and Type	Member	Description
public bool	*DoesAgentryActionExist(string)* on page 210	Ask Agentry if an action with the specified name exists.
public SMPActionResult	*ExecuteAgentryAction(string)* on page 210	Ask Agentry to execute the action with the specified name.
public SMPActionResult	*ExecuteHyperlinkAction()* on page 211	Direct the Agentry client to invoke the control's hyperlink action.
public string	*GetAgentryString(string)* on page 211	Asks Agentry for a specific string value.
public bool	*IsAgentryActionEnabled(string)* on page 211	Ask Agentry if an action with the specified name exists and is enabled.
public bool	*IsAutoSize* on page 212	Some Agentry clients depend on the internal layout manager to determine the size of a control by asking the control to determine its own size.
public bool	*IsEnabled* on page 213	Determine if the control should be enabled.
public bool	*IsHyperlinkEnabled* on page 213	Determine if the control's hyperlink should be enabled.
public bool	*IsVisible* on page 213	Determine if the control should be visible.
public string	*Label* on page 213	Returns the text of this control's label.

Modifier and Type	Member	Description
public void	*OnPropertyChanged(string)* on page 212	The consumer of this class can listen for the PropertyChanged event in order to handle changes to any of the properties.

Usage

The third-party's custom control's DataContext property is set to an object that implements this interface. The control can use this to request certain information from the Agentry client's view-model.

This particular interface is only implemented by the view-model of a "String" edit control.

ProcessInput(string) method

Set the value of the control's backing property to the passed value.

Visual Basic syntax

```
Public Sub ProcessInput(ByVal value As String)
```

C# syntax

```
public void ProcessInput(string value)
```

Parameters

- **value –** New value of this control's backing property

AcceptReturn property

Return a flag indicating if the control should accept the Return key as input.

Visual Basic syntax

```
Public ReadOnly Property AcceptReturn As Boolean
```

C# syntax

```
public bool AcceptReturn {get;}
```

IsPassword property

Return a flag indicating if the control is a password.

Visual Basic syntax

```
Public ReadOnly Property IsPassword As Boolean
```

C# syntax

```
public bool IsPassword {get;}
```

MaximumLength property

Return the maximum length of the string value (in characters).

Visual Basic syntax

```
Public ReadOnly Property MaximumLength As Integer
```

C# syntax

```
public int MaximumLength {get;}
```

MinimumLength property

Return the minimum length of the string value (in characters).

Visual Basic syntax

```
Public ReadOnly Property MinimumLength As Integer
```

C# syntax

```
public int MinimumLength {get;}
```

IAgentryData interface

Visual Basic syntax

```
Public Interface IAgentryData
```

C# syntax

```
public interface IAgentryData
```

Derived classes

- *IAgentryCollection* on page 207
- *IAgentryObject* on page 256
- *IAgentryProperty* on page 257

Members

All members of IAgentryData, including inherited members. **Methods**

Modifier and Type	Method	Description
public List< IAgentryCollection >	*Collections()* on page 253	Return a list of collections contained by this object.
public IAgentryData	*Descendant(int)* on page 253	Return a specific data item that's owned by this object.

Modifier and Type	Method	Description
public List< IAgentryObject >	*Objects()* on page 254	Return a list of objects contained by this object.
public List< IAgentryProperty >	*Properties()* on page 254	Return a list of properties owned by this object.

Properties

Modifier and Type	Property	Description
public IAgentryData	*Ancestor* on page 254	The parent object of this object.
public AgentryDataType	*DataType* on page 255	Return the type of this object as defined in the Editor.
public int	*DescendantCount* on page 255	Return the number of data items owned by this object.
public string	*DisplayName* on page 255	Return the display name of this object as specified in the Editor.
public string	*InternalName* on page 255	Return the internal name of this object as specified in the Editor.
public IAgentryData	*Root* on page 256	The root object in the data tree for an Agentry module.

Collections() method

Return a list of collections contained by this object.

Visual Basic syntax

```
Public Function Collections() As List< IAgentryCollection >
```

C# syntax

```
public List< IAgentryCollection > Collections()
```

Returns

A list of only the child data items that are collections.

Descendant(int) method

Return a specific data item that's owned by this object.

Visual Basic syntax

```
Public Function Descendant(ByVal index As Integer) As
IAgentryData
```

C# syntax

```
public IAgentryData Descendant(int index)
```

Parameters

- **index –** The index of the requested child data object

Returns

The data item at the specified index or nullptr if the index is out of range.

Objects() method

Return a list of objects contained by this object.

Visual Basic syntax

```
Public Function Objects() As List< IAgentryObject >
```

C# syntax

```
public List< IAgentryObject > Objects()
```

Returns

A list of only the child data items that are objects.

Properties() method

Return a list of properties owned by this object.

Visual Basic syntax

```
Public Function Properties() As List< IAgentryProperty >
```

C# syntax

```
public List< IAgentryProperty > Properties()
```

Returns

A list of only the child data items that are properties.

Ancestor property

The parent object of this object.

Visual Basic syntax

```
Public ReadOnly Property Ancestor As IAgentryData
```

C# syntax

```
public IAgentryData Ancestor {get;}
```

Usage
Each data object has an ancestor, except the root data object (main object).

DataType property
Return the type of this object as defined in the Editor.

Visual Basic syntax
```
Public ReadOnly Property DataType As AgentryDataType
```

C# syntax
```
public AgentryDataType DataType {get;}
```

DescendantCount property
Return the number of data items owned by this object.

Visual Basic syntax
```
Public ReadOnly Property DescendantCount As Integer
```

C# syntax
```
public int DescendantCount {get;}
```

DisplayName property
Return the display name of this object as specified in the Editor.

Visual Basic syntax
```
Public ReadOnly Property DisplayName As String
```

C# syntax
```
public string DisplayName {get;}
```

InternalName property
Return the internal name of this object as specified in the Editor.

Visual Basic syntax
```
Public ReadOnly Property InternalName As String
```

C# syntax
```
public string InternalName {get;}
```

Root property

The root object in the data tree for an Agentry module.

Visual Basic syntax

```
Public ReadOnly Property Root As IAgentryData
```

C# syntax

```
public IAgentryData Root {get;}
```

Usage

For an Agentry module, the root is the module's Main Object.

IAgentryObject interface

Placeholder interface for future development.

Visual Basic syntax

```
Public Interface IAgentryObject Implements IAgentryData
```

C# syntax

```
public interface IAgentryObject:IAgentryData
```

Members

All members of IAgentryObject, including inherited members. **Inherited members from IAgentryData**

Modifier and Type	Member	Description
public IAgentryData	*Ancestor* on page 254	The parent object of this object.
public List< IAgentryCollection >	*Collections()* on page 253	Return a list of collections contained by this object.
public AgentryDataType	*DataType* on page 255	Return the type of this object as defined in the Editor.
public IAgentryData	*Descendant(int)* on page 253	Return a specific data item that's owned by this object.
public int	*DescendantCount* on page 255	Return the number of data items owned by this object.
public string	*DisplayName* on page 255	Return the display name of this object as specified in the Editor.
public string	*InternalName* on page 255	Return the internal name of this object as specified in the Editor.

Modifier and Type	Member	Description
public List< IAgentryObject >	*Objects()* on page 254	Return a list of objects contained by this object.
public List< IAgentryProperty >	*Properties()* on page 254	Return a list of properties owned by this object.
public IAgentryData	*Root* on page 256	The root object in the data tree for an Agentry module.

IAgentryProperty interface

This interface represents a single property of a data object.

Visual Basic syntax

```
Public Interface IAgentryProperty Implements IAgentryData
```

C# syntax

```
public interface IAgentryProperty:IAgentryData
```

Members

All members of IAgentryProperty, including inherited members. **Methods**

Modifier and Type	Method	Description
public bool	*ToBoolean()* on page 258	Convert this property's value to a boolean.
public DateTime	*ToDate()* on page 259	Convert this property's value to a date.
public DateTime	*ToDateTime()* on page 259	Convert this property's value to a date/time.
public double	*ToDouble()* on page 259	Convert this property's value to a double.
public int	*ToInt()* on page 260	Convert this property's value to an integer.
public string	*ToString()* on page 260	Convert this property's value to a string.
public TimeSpan	*ToTime()* on page 260	Convert this property's value to a time.
public uint	*ToUInt()* on page 260	Convert this property's value to an unsigned integer.

Properties

Modifier and Type	Property	Description
public AgentryPropertyType	*PropertyType* on page 261	The type of property this is (e.g., string or integer).

Inherited members from IAgentryData

Modifier and Type	Member	Description
public IAgentryData	*Ancestor* on page 254	The parent object of this object.
public List< IAgentryCollection >	*Collections()* on page 253	Return a list of collections contained by this object.
public AgentryDataType	*DataType* on page 255	Return the type of this object as defined in the Editor.
public IAgentryData	*Descendant(int)* on page 253	Return a specific data item that's owned by this object.
public int	*DescendantCount* on page 255	Return the number of data items owned by this object.
public string	*DisplayName* on page 255	Return the display name of this object as specified in the Editor.
public string	*InternalName* on page 255	Return the internal name of this object as specified in the Editor.
public List< IAgentryObject >	*Objects()* on page 254	Return a list of objects contained by this object.
public List< IAgentryProperty >	*Properties()* on page 254	Return a list of properties owned by this object.
public IAgentryData	*Root* on page 256	The root object in the data tree for an Agentry module.

ToBoolean() method

Convert this property's value to a boolean.

Visual Basic syntax

```
Public Function ToBoolean() As Boolean
```

C# syntax

```
public bool ToBoolean()
```

Returns
This property's value as a boolean

ToDate() method
Convert this property's value to a date.

Visual Basic syntax
```
Public Function ToDate() As Date
```

C# syntax
```
public DateTime ToDate()
```

Returns
This property's value as a date

ToDateTime() method
Convert this property's value to a date/time.

Visual Basic syntax
```
Public Function ToDateTime() As Date
```

C# syntax
```
public DateTime ToDateTime()
```

Returns
This property's value as a date/time

ToDouble() method
Convert this property's value to a double.

Visual Basic syntax
```
Public Function ToDouble() As Double
```

C# syntax
```
public double ToDouble()
```

Returns
This property's value as a double

ToInt() method
Convert this property's value to an integer.

Visual Basic syntax
```
Public Function ToInt() As Integer
```

C# syntax
```
public int ToInt()
```

Returns
This property's value as an integer

ToString() method
Convert this property's value to a string.

Visual Basic syntax
```
Public Function ToString() As String
```

C# syntax
```
public string ToString()
```

Returns
This property's value as a string

ToTime() method
Convert this property's value to a time.

Visual Basic syntax
```
Public Function ToTime() As TimeSpan
```

C# syntax
```
public TimeSpan ToTime()
```

Returns
This property's value as a time

ToUInt() method
Convert this property's value to an unsigned integer.

Visual Basic syntax
```
Public Function ToUInt() As UInteger
```

C# syntax
```
public uint ToUInt()
```

Returns
This property's value as an unsigned integer

PropertyType property
The type of property this is (e.g., string or integer).

Visual Basic syntax
```
Public ReadOnly Property PropertyType As AgentryPropertyType
```

C# syntax
```
public AgentryPropertyType PropertyType {get;}
```

ICustomAgentryControl interface

The third-party custom control must implement this interface in order to provide the Agentry client with specific information about how it should operate.

Visual Basic syntax
```
Public Interface ICustomAgentryControl
```

C# syntax
```
public interface ICustomAgentryControl
```

Members
All members of ICustomAgentryControl, including inherited members. **Methods**

Modifier and Type	Method	Description
public string	*GetExtensionString(string)* on page 262	Return the value of the passed key for this custom control.

Properties

Modifier and Type	Property	Description
public bool	*ClientDisplaysLabel* on page 262	Return a flag indicating if the client should display this control's label text.
public bool	*ClientDisplaysValidationError* on page 262	Return a flag indicating if the client should display this control's validation error message.

GetExtensionString(string) method

Return the value of the passed key for this custom control.

Visual Basic syntax

```
Public Function GetExtensionString(ByVal key As String) As
String
```

C# syntax

```
public string GetExtensionString(string key)
```

ClientDisplaysLabel property

Return a flag indicating if the client should display this control's label text.

Visual Basic syntax

```
Public ReadOnly Property ClientDisplaysLabel As Boolean
```

C# syntax

```
public bool ClientDisplaysLabel {get;}
```

ClientDisplaysValidationError property

Return a flag indicating if the client should display this control's validation error message.

Visual Basic syntax

```
Public ReadOnly Property ClientDisplaysValidationError As
Boolean
```

C# syntax

```
public bool ClientDisplaysValidationError {get;}
```

IEnumerable< IAgentryData > class

Visual Basic syntax

```
Public Class IEnumerable< IAgentryData >
```

C# syntax

```
public class IEnumerable< IAgentryData >
```

Derived classes

- *IAgentryControlViewModelCollectionDisplay* on page 214

AgentryDataType enumeration

Enum Constant Summary

- **Unknown –**
- **Object –**
- **Property –**
- **Collection –**

AgentryPropertyType enumeration

Enum Constant Summary

- **Unknown –**
- **String –**
- **Identifier –**
- **Integer –**
- **Decimal –**
- **Boolean –**
- **Date –**
- **Time –**
- **DateTime –**
- **Duration –**
- **ListSelection –**
- **DataTableSelection –**
- **ComplexTableSelection –**
- **Signature –**
- **ExternalData –**
- **Image –**
- **Location –**

SMPActionResult enumeration

Enum Constant Summary

- **UserBackedOut –**
- **Error –**
- **UserCanceled –**
- **Pending –**
- **Complete –**

SMPActionState enumeration

Enum Constant Summary

- **Enable –**
- **Disable –**
- **NoOperation –**
- **Error –**

SMPDurationFormat enumeration

Enum Constant Summary

- **HMS –**
- **HM –**
- **MS –**
- **FractionalHour –**

SMPProcessInputReturn enumeration

Enum Constant Summary

- **None –**
- **Valid –**
- **Munged –**
- **Changed –**

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