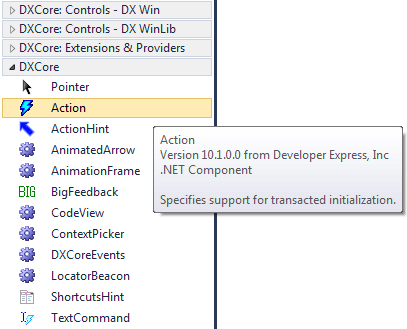
**DXCore Components – Action**

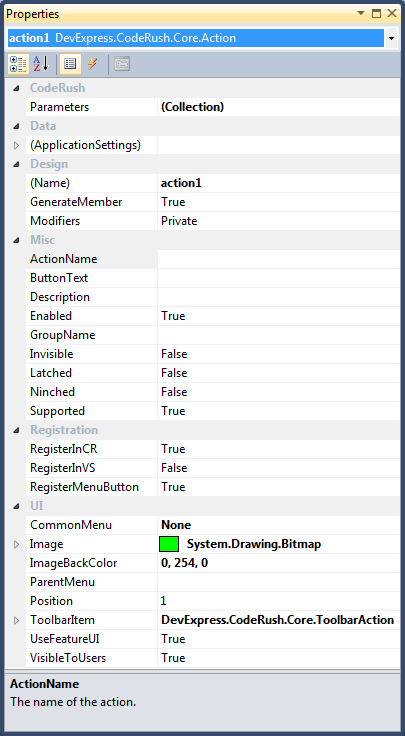
September 17th, 2010

The**Action**[component](http://skorkin.com/2010/11/dxcore-components-and-controls-list/) is one of the primary, simplest and useful components of the [DXCore](http://skorkin.com/2010/06/devexpress-dxcore-framework/" \o "DevExpress DXCore framework" \t "_blank). It registers an “action” within **DXCore**/[CodeRush](http://skorkin.com/2010/06/devexpress-coderush-pro/" \o "DevExpress CodeRush Pro" \t "_blank) and the Visual Studio IDE, which can be triggered using either a keyboard shortcut or a mouse button (with the shift key if necessary), and/or placed within a Visual Studio menu (e.g. in the IDE main menu, Code Editor context menu, etc).

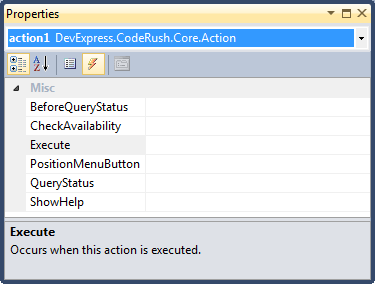
You can drop it onto your plug-in design surface from the “**DXCore**” category of Visual Studio Toolbox:



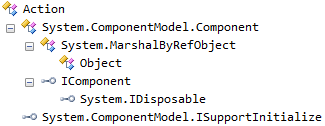
It’s not a visual control, all you need is to tweak its properties and subscribe to its events. Here’s the **Properties** window, containing available properties, their categories and default values:



and the Events list:



The **Action** component is located in the “***DevExpress.CodeRush.Core***” assembly. It is derived from the “***System.ComponentModel.Component***” class:



Here’s a list of properties in alphabetical order, without base class (**Component**) standard properties:

|  |  |
| --- | --- |
| **Property name** | **Description** |
| ActionName | The name of the action displayed in the IDE Tools UI. |
| ButtonText | Text for buttons and menu items associated with this action. |
| CommonMenu | Visual Studio common menu enumeration, e.g. “File”, “Edit”, “View”, etc. |
| Description | A hint associated with this action, describing this action. |
| Enabled | Sets the enabled state for this action in the current context. You can change this property in a *BeforeQueryStatus* event handler. |
| GroupName | The name of the action group. |
| Image | Sets the bitmap image for this action. Action images are optional, but can be useful for menu items and toolbar buttons inside the IDE. |
| ImageBackColor | Sets the image background color for this action. It is used to determine which color is to be treated as transparent in the bitmap assigned to the Image property. |
| Invisible | Sets the visibility for this action. |
| Latched | Sets the latched (e.g., selected or checked) state for this action in the current context. You can change this property in a BeforeQueryStatus event handler. |
| Ninched | Sets the indeterminate state (neither checked nor cleared) for this action in the current context. You can change this property in a BeforeQueryStatus event handler. |
| Parameters | A collection of expected parameters for this action. Optional. |
| ParentMenu | Sets the name of the parenting command bar. If you want to create a menu item for this action, specify the name of the parenting command bar here (e.g., “Tools”). *ParentMenu* is an alternative to CommonMenu. Use the name of any menu you know of, to place the action on it, rather than one of “common” ones. |
| Position | Sets the position for this action in the specified ParentMenu. The first position is one. If you specify zero for this value, the item will be appended to the end of the menu. If you specify a negative number, the menu item position will be calculated from the end of the menu (e.g., if Position equals -1, then this menu item will be inserted before the last entry). |
| RegisterInCR | Registers this action with **DXCore**. If false, this action may still be available in the Visual Studio Options dialog on the Keyboard page. If you want to place this action in a menu or on a command bar, then you must set this property to true. If true, you can bind a keystroke to this command in the [IDE Tools Options dialog](http://www.skorkin.com/2010/08/ide-tools-options-dialog/) on the [Shortcuts](http://www.skorkin.com/2011/08/ide-tools-coderush-shortcuts-options-page/) options page. |
| RegisterInVS | Registers this action as a Visual Studio command. If false, you can still bind a keystroke to this action in the [IDE tools Options dialog](http://www.skorkin.com/2010/08/ide-tools-options-dialog/) on the [Shortcuts](http://www.skorkin.com/2011/08/ide-tools-coderush-shortcuts-options-page/) page. If true, this action will be available in the Visual Studio Options dialog on the Keyboard page. If you want to place this action in a menu or on a command bar, then you must set this property to true. |
| RegisterMenuButton | Registers this menu button for a Visual Studio command. It works only if option RegisterInVS is set to true. |
| Supported | Indicates if this action is supported in the current context. You can change this property in a BeforeQueryStatus event handler. |
| ToolbarItem | An instance of the “DevExpress.CodeRush.Core.ToolbarAction” object that allows you to [add this action](http://skorkin.com/2010/09/how-to-programmatically-add-a-button-to-the-dxcore-visualize-toolbar/) to the [DXCore Visualize toolbar](http://skorkin.com/2010/09/ide-tools-dxcore-visualize-toolbar/" \o "IDE tools DXCore Visualize toolbar" \t "_blank). The ToolbarAction object has the following properties: “BeginGroup”, “ButtonIsPressed”, “Caption”, “Image”, “Index”, “PlaceIntoToolbar”. |
| UserFeatureUI | Show [Feature UI](http://www.skorkin.com/2010/08/ide-tools-what-happened-feature-ui-window/) before executing this action. |
| VisibleToUsers | If true, this Action will be visible to users, and will appear in the command list on the [Shortcuts](http://www.skorkin.com/2011/08/ide-tools-coderush-shortcuts-options-page/) options page, and will also be documented in the [User Guide](http://skorkin.com/2010/08/ide-tools-user-guide/). Setting this property to false will prevent this Action from appearing in the command list. However, bindings to this Action can still be established by typing in the Action name. |

Events:

|  |  |
| --- | --- |
| **Event name** | **Description** |
| BeforeQueryStatus | Occurs when the IDE requests the status of the action. |
| CheckAvailability | Checks the availability of this action in the current context. |
| Execute | Occurs when this action is executed. Fired whenever the assigned shortcut is triggered or the representative menu item is chosen. |
| PositionMenuButton | Occurs when the menu button for this action is being positioned within its parent menu or toolbar. Handling this, allows precise positioning of the menu button. |
| QueryStatus | Occurs before an action is accessed (displayed).  This enables properties of this action to be set in the event handler before it reaches the user. |
| ShowHelp | Occurs before this action is being executed to notify the user about the action. |

See the “[How to use Action DXCore control](http://www.skorkin.com/2010/12/how-to-use-action-dxcore-control/)” topic for learn more.