

# Solution

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Supported Clients

SmartClient WebClient NGClient MobileClient

| Property Summary |                   |                                                                                                                                                                                                  |
|------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| String           | comment           |                                                                                                                                                                                                  |
| Number           | firstForm         | The first form that loads when a solution is deployed.                                                                                                                                           |
| String           | i18nDataSource    | The i18n database server connection and database table that stores the i18n keys for a solution.                                                                                                 |
| Number           | loginForm         | The name of the login form that loads when a solution is deployed.                                                                                                                               |
| String           | loginSolutionName | Get the first module that is also a login solution.                                                                                                                                              |
| String           | modulesNames      | The list of modules that have been added to a solution.                                                                                                                                          |
| Boolean          | mustAuthenticate  | Flag that tells if authentication is needed in order to access the solution.                                                                                                                     |
| Number           | solutionType      | The type of a solution; can be "Normal" (non-module), "Module", "Web client only", "Smart client only", "Login", "Authenticator", "Pre-import hook module", "Post-import hook module", "Mobile". |
| Number           | styleSheet        | The custom CSS used by the solution (a MEDIA lib entry).                                                                                                                                         |
| Number           | textOrientation   | The direction that text is displayed.                                                                                                                                                            |
| String           | titleText         | The menu bar title of a solution.                                                                                                                                                                |
| String           | version           | This is the version of the solution, this can be any kind of string but try to follow "Semantic Versioning".                                                                                     |

| Event Summary |                                                                  |                                                                                                                          |
|---------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| void          | <a href="#">onAutoSaveFailed(recordMarkers)</a>                  | The method that is executed when autosave results in validation or save failures.                                        |
| void          | <a href="#">onBeforeLogin()</a>                                  | The method that is to onOpen just that it executes before the login on solutions with a login form (not login solution). |
| Boolean       | <a href="#">onClose(force)</a>                                   | The method that is executed when a solution closes.                                                                      |
| void          | <a href="#">onDataBroadcast(dataSource, action, pks, cached)</a> | Method that is executed when data broadcast occurs.                                                                      |
| Boolean       | <a href="#">onError(ex)</a>                                      | The method that is executed when a solution opens and an error occurs.                                                   |
| void          | <a href="#">onOpen(arg, l)</a>                                   | The method that is executed when a solution opens.                                                                       |

Property Details

comment

Returns

String

Supported Clients

SmartClient,WebClient,NGClient

Sample

firstForm

The first form that loads when a solution is deployed.

NOTE: If the Login form is specified, then the firstForm is the first form that will load next after the loginForm.

Returns

Number

Supported Clients

SmartClient,WebClient,NGClient,MobileClient

Sample

i18nDataSource

The i18n database server connection and database table that stores the i18n keys for a solution.

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**Returns**[String](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**  
**loginForm**

The name of the login form that loads when a solution is deployed.

**Returns**[Number](#)**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**  
**loginSolutionName**

Get the first module that is also a login solution.

**Returns**[String](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**  
**modulesNames**

The list of modules that have been added to a solution.

**Returns**[String](#)**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**  
**mustAuthenticate**

Flag that tells if authentication is needed in order to access the solution.

If unchecked, the Smart Client will always require authentication, regardless of this setting.

If checked, authentication is required, and either a provided loginSolution or otherwise the default Servoy login mechanism will be used.

If default Servoy login mechanism is used, the "servoy.webclient.basic.authentication" setting on the Admin Page can be used to enable the use of the standard browser basic authentication.

**Returns**[Boolean](#)**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample**  
**solutionType**

The type of a solution; can be "Normal" (non-module), "Module", "Web client only", "Smart client only", "Login", "Authenticator", "Pre-import hook module", "Post-import hook module", "Mobile".

These constants are defined in SolutionMetaData class.

**Returns**[Number](#)**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample****styleSheet**

The custom CSS used by the solution (a MEDIA lib entry). It can reference other media resources (even additional .css through relative '@import' statements).  
For NGClient - this CSS will be available directly in the browser.

**Returns**

[Number](#)

**Supported Clients**

NGClient

**Sample****textOrientation**

The direction that text is displayed.

Options include:

DEFAULT  
left to right  
right to left  
locale specific

**Returns**

[Number](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****titleText**

The menu bar title of a solution.

**Returns**

[String](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****version**

This is the version of the solution, this can be any kind of string but try to follow "Semantic Versioning". This version is important when you are making modules that are distributed by the Servoy Package Manager. Then this version is used to know what the developer has installed. This version should be in sync then with the webpackage.json file.

**Returns**

[String](#)

**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample****Event Details****onAutoSaveFailed(recordMarkers)**

The method that is executed when autosave results in validation or save failures. This is not called for save or validate calls that are triggered from javascript itself (databaseManager.saveData()), only when Servoy tries an auto save because of some event like user clicking on the form itself or foundset selection change.

**Parameters**

[Object](#) recordMarkers an array of all the record markers that failed to validate or save.

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****onBeforeLogin()**

The method that is to onOpen just that it executes before the login on solutions with a login form (not login solution). The default is -none-.

**Parameters**

[Object](#) | [String](#)> queryParams all query parameters of the deeplink url with which the Client was started, [key](#)>[string](#) if there was one value else [key](#)>[Array](#)<[String](#)>

**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample****onClose(force)**

The method that is executed when a solution closes. The default is -none-.

**Parameters**

[Boolean](#) force if false then solution close can be stopped by returning false

**Returns**

[Boolean](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****onDataBroadcast(dataSource, action, pks, cached)**

Method that is executed when data broadcast occurs. The default is -none-.

**Parameters**

[String](#)      dataSource table data source  
[Number](#)    action      see SQL\_ACTION\_TYPES constants  
[JSDataset](#) pks      affected primary keys  
[Boolean](#)    cached      data was cached

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****onError(ex)**

The method that is executed when a solution opens and an error occurs. The default is -none-.

**Parameters**

[Object](#) ex exception to handle

**Returns**

[Boolean](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****onOpen(arg, )**

The method that is executed when a solution opens. The default is -none-.

Parameters

- `String` `argstartup` argument part of the deeplink url with which the Client was started
- `Object` `queryParams` all query parameters of the deeplink url with which the Client was started, `key>string` if there was one value else `key>Array<String>`

Supported Clients

`SmartClient`, `WebClient`, `NGClient`, `MobileClient`

Sample

