New in 7.3

Merge of Servoy 6.1.x into Servoy 7.3

With the release of Servoy 7.3 the upgrade path for the 6.1.x branch will be the Servoy 7.x branch, as Servoy 7.x can be considered Servoy 6.1.x + Servoy Mobile. This means that Servoy 6.1.6 is the last update in the Servoy 6.1 branch and that installations that run Servoy 6.1.x can upgrade to Servoy 7.3, skipping 7.0.0 - 7.2.

The auto-update mechanism in Servoy Developer and the command-line upgrade mechanism in the Servoy Application Server will start offering the Servoy 7.3 version as update on Servoy 6.1.x releases as of November 8 2013.

For more information on all supported version, see Supported Versions

See the following links for the Release Notes of previous 7.x.x releases:

- New in 7.0
- New in 7.0.1
- New in 7.1
- New in 7.2

Mobile Client

- SVY-4231 Added online mode to the Mobile Client, allowing to display data retrieved live from the server
  See Online Mobile for more details
- SVY-4908 Added support for debugging Mobile Solutions
  See Debugging Mobile for more details. As a result of gaining this new debugging ability, the emulated Mobile Debug Clienthas been removed from Servoy Developer
- SVY-4258 Added option to specify the name of the Service Solution when exporting the Mobile Solution
- SVY-4258 Added `application.get/setServerURL()` to specify the URL of the Application Server to which the Mobile Client will connect to access it's Service Solution.
  If the server URL is not set at export, it must be set before `security.authenticate` is called from custom login form. This way, the URL is set before any calls to server are done
- SVY-4402 Added option to specify a custom login form
  On mobile solution properties, a login form can be specified. This login form has to call security.authenticate to authenticate server side against a username/password. After security.authenticate is called the flow of application will be the same as for default login screen.
- SVY-4799 Added `application.getApplicationType()`
- SVY-4884 Added support for using FoundSets based on in-mem datasources for offline data
- SVY-5011 Added option to programatically logout
- SVY-4672 Added `JSFoundSet.getRecordIndex(JSRecord)`
- SVY-5088 Added `plugins.mobile.getUUIDPKValueAsString`
  When communicating between the Mobile Client and the Service solution, records need to have a UUID PK. Inside the Mobile Client however, the UUID's are translated into unique integer values, to preserve memory and storage. The `plugins.mobile.getUUIDPKValueAsString` method allows to get the UUID PK value for a specific JSRecord. This is needed in case callbacks are made from the Mobile Client to the Service Solution outside the the built-in sync mechanism and information about specific records needs to be communicated.
- SVY-4397 Refactored text property on Bean to innerHTML and also made it available `@designtime`
- SVY-4657 Added `new/removeValueList()` to `solutionModel`
- SVY-5036 Added `application.get/setUserProperties` support to the Service Solution
  When setting User Properties in the service solution using `application.getUserProperty()`, the properties and their values will be send back to the Mobile Client where they are persisted. With each subsequent request to the service solution the properties and their values will be send back to the service solution, where they can be accessed through application.getUserProperty. Note that the sending of the properties and their values back to the service solution with each request is only applicable to requests made by the Servoy API. In custom AJAX calls done through JQuery for example, the special HTTP Request Headers that take care of sending the properties and their values to the service solution are not set and thus the properties and their values are not available in the service solution.

Servoy Developer

- SVY-4567 Added support for the standard GIT setup in Servoy Developer
  Servoy Developer now also supports working with projects (== solutions) that don't contain all the project files inside the project directory in the workspace, but in a different location, like a GIT Repository which is located somewhere else on the file system
- SVY-1321, SVY-4744 Script editor now supports `@typedef` (https://developers.google.com/closure/compiler/docs/js-for-compiler) where one can have a variable that is then an alias for a more complex type. The variable name can then be used in `@param {varname}` or `@type {varname}`
- SVY-4548 Support for `@protected` annotation on members of constructor functions
- SVY-2826 Added a Code Template for FoundSet loops
- SVY-4893 Made `application.output()` statements with WARNING and ERROR level appear in red in the Console in Servoy Developer, so they stand out more
- SVY-4964 Added i18n key selector to dataprovider title editor

Solution Development

⚠

> ⚠️ **Behavior Changes**
>
> Due to the implementation of SVY-5036: 'Added application.get/setUserProperties support to the Service Solution', the behavior of `get /setUserProperty` in the Headless & Batch Processor clients has changed.
>
> - Before Servoy 7.3 User Properties set from within Headless Clients would be persisted in the servoy.properties file of the Application Server and be shared between all Headless Clients running on that server.
>   As of Servoy 7.3 the behavior changed in the following ways:
>   - In most Headless Clients the User Properties are stored on Session level, which means that when the session ends, the User Properties are no longer persisted. This also means that User Property values are not shared anymore between the different Headless Clients
>   - In Headless Clients used by the Restful plugin the User Properties are added as an HTTP Header (name=servoy. userproperties) of the generated HTTP Response for each call to the Restful API. The client that calls the Restful API (a browser for example) can read the values from the HTTP Header in the response. In order to persist the User Properties between subsequent calls to the Restful API, the client that calls the Restful API needs to add the User Properties as to the HTTP Request header.
> - The only exception to this rule are Headless Clients created through the Headless Client Java API with an HTTP Request/Session, for example when integrating the Headless Client into JSP pages. In this case the User Properties were stored in the HTTP Session object and still are

- SVY-937 Encapsulation support on ValueLists, Relations and Media
- SVY-3259 Made the Form Encapsulation property clearer
- SVY-4734 Support to deprecate Forms, ValueLists, Relations and Media's
- SVY-1873 Added option to launch a Smart Client without initial MenuBar/ToolBar/StatusBar
- SVY-4869 Ability to specify the PK column in `databaseManager.createDataSource()`
- SVY-4547 Added support to the RESTfull WebServices plugin to receive multi-part post
- SVY-4281 Added option to retrieve fallbackValueList on JSValueList
- SVY-2003 Added option to open files in the Web Client, instead of downloading them
- SVY-4799 Added `APPLICATION_TYPES.MOBILE`
- SVY-1088 Added support to call `databaseManager.saveData(JSRecord/JSFoundSet)` from within table events on related records
  This allows the creation and succesive save of related records when a parent records gets inserted/updated
- SVY-3611 Exposed formIndex property on elements
- SVY-4504 Added `JSDataSet.getColumnNames()`
- SVY-2241 Added `JSComponent.getDesigntimePropertyNames()`
- SVY-1978 Support for working with literal values in relation through the solutionModel

Web Client

- Several updates to the rendering of the TableView to improve performance

Deployment

- SVY-1718 Tomcat setting "useHttpOnly" now set to true by default in order to mitigate possible XSS attacks
- SVY-4677 Added option to remove Profiles through the Servoy Admin pages
- SVY-3851 Option to disable Smart Client usage when deploying as a WAR

Public Java API

- SVY-3192 Added several methods to the IPageContributor interface to add JavaScript and CSS resources globally to all current and future windows and dialogs in the current Web Client session

Open Source

- Updated the Open Source guide with instructions for Servoy Mobile