

CaptainCasa Enterprise Client RISC

...in a Nutshell...

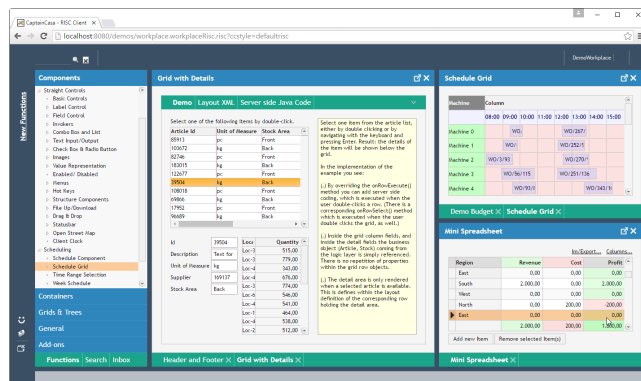
POSITIONING

CaptainCasa Enterprise Client is a rich client framework that meets the requirements of enterprise and business applications:

- Many dialogs
- Complex, server side business logic
- High demands towards UI performance and usability, both covering the requirements of casual and professional users
- Long term life cycle - developed, sold and used for many years

CaptainCasa Enterprise Client RISC is based on Java standards in the backend (J2EE) - and on HTML5 standards in the browser frontend.

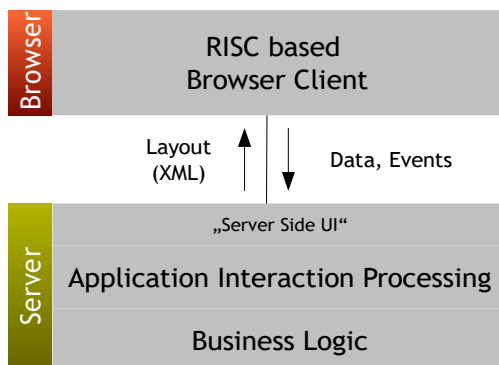
It takes use of the so called RISC Method, that ensures a new level of compatibility and robustness within the browser, decoupling your frontend processing from all the maintenance effort that you are confronted with when using default HTML5 technologies.



Demo Workplace

BUILDING BLOCKS

CaptainCasa Enterprise Client RISC follows a server centric architecture: dialogs are managed on server side - a corresponding XML description is at runtime sent to the browser client. Inside the browser the XML is interpreted and the dialog is rendered accordingly. Data input and events of the user within the browser client are registered and sent at the right point of time to the server side, where the application is updated.



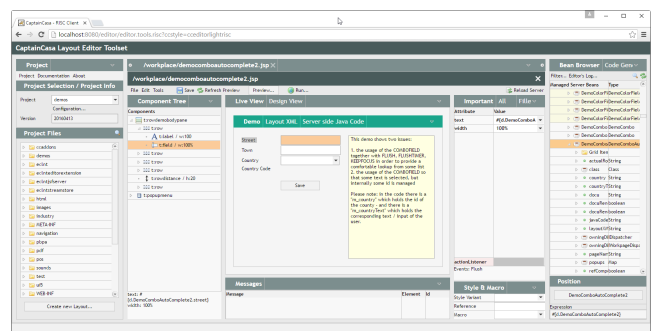
This means:

- All the application interaction logic is managed on server side. There is no client coding required!

- The client is a generic rendering engine that renders XML layout description and passes back data changes and events.
- Between browser client and server processing there is a http(s) based communication, in which changes are transferred in both directions. The data volume exchanged is low as consequence.

For developing dialogs there is a sophisticated toolset, including:

- WYSIWYG Layout Editor
- Java class parser / Java code generator
- Literal / Translation Management
- Performance analysis and tuning



Layout Editor

CaptainCasa Enterprise Client RISC comes with a huge set of visual and non-visual components. The component library can be extended by own controls in a simple way. The styling of the components is defined by corresponding style sheet definitions.

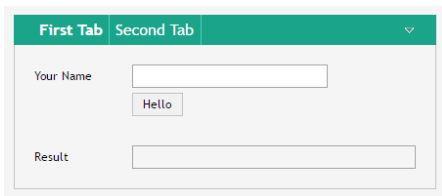
ADVANTAGES

The advantages of using CaptainCasa Enterprise Client RISC are a result of internally using the RISC Method for the browser HTML5 processing and using a server-centric UI processing as architecture.

- Reliable, robust, fast HTML client which is designed for cross browser and cross device compatibility
- Simple and efficient development: no client coding required, all development done on server side. Normal Java knowledge is enough to jump start.
- Transparent communication between the client side and the server side - no need for explicit APIs. The communication is optimized (data volume, round trips).
- High number and high quality of available graphical components.
- Scalable and robust due to usage of server side standards (J2EE). Running in any server environment (including Tomcat, Jetty).

DEVELOPMENT PRINCIPLES

The following dialog is implemented using CaptainCasa Enterprise Client RISC: the user keys in some name, after pressing the „Hello“ button the name is output with some „Hello world, !“ around.



On server side dialogs are kept as XML layout definition - being either statically defined or dynamically assembled at runtime.

The layout definition of this example looks like:

```
<t:rowbodypane>
  <t:row id="g_3">
    <t:tabbedpane width="100%">
      <t:tabbedpanetab padding="20"
        rowdistance="5"
        text="First Tab">
        <t:row>
          <t:label text="Your Name"
            width="100" />
          <t:field
            text="#{DemoHelloWorld.name}"
            width="200" />
        </t:row>
        <t:row>
          <t:coldistance
            width="100" />
          <t:button
            actionListener="#{DemoHelloWorld.onHello}"
            text="Hello" />
        </t:row>
        <t:rowdistance height="20" />
        <t:row>
          <t:label text="Result"
            width="100" />
          <t:field enabled="false"
            text="#{DemoHelloWorld.output}"
            width="100%" />
        </t:row>
      </t:tabbedpanetab>
      <t:tabbedpanetab
        text="Second Tab" />
    </t:tabbedpane>
  </t:row>
</t:rowbodypane>
```

Inside the layout definition attributes of components are either defined statically („100%“) or by using a binding to a so called managed bean („#{DemoHelloWorld.name}“).

The managed bean's server side Java code is:

```
package demo;
import javax.faces.event.ActionEvent;
public class DemoHelloWorld
{
    String m_name;
    String m_output;

    public void setName(String value)
    {
        m_name = value;
    }
    public String getName()
    {
        return m_name;
    }
    public String getOutput()
    {
        return m_output;
    }

    public void onHello(ActionEvent ae)
    {
        if (m_name == null)
            m_output = "No name set.";
        else
            m_output = "Hello world,
                "+m_name+"!";
    }
}
```

The managed bean provides the properties and methods that are referenced by the layout. Because the managed bean is running on server side, you can directly access all APIs of your server side logic - without having the need to first make them publicly reachable.

CAPTAINCASA COMMUNITY

The CaptainCasa Community is an open community of independent software vendors out of Germany, Switzerland, Austria, the Netherlands and Belgium. Applications that are developed within the community cover areas like:

- Manufacturing Execution
- Financials, Controlling, Financial Risk Management, Internal Administration
- Logistics, Warehouse Management, Sales
- Human Resources, Identity Management

The community was founded in 2007 - starting with a Java Swing (later JavaFX) based client and is now moving over to the new RISC HTML based client. During all these technical changes the XML layout interface to the client side was kept stable - so that switching from one technology to the next is done with a minimum of effort.

The CaptainCasa GmbH is the „legal entity“ behind.

JUMP-START

CaptainCasa Enterprise Client RISC can be downloaded and used for free. In order to efficiently jump-start we provide certain services:

- Guided screen sharing tours: „Overview“ & „Developing your first dialog“
- „Pressure Workshop“ (2 days on site) - you define some scenario as proof of concept consisting out of 3-5 dialog definitions and some clear interfacing to (maybe) existing server side logic. During the two days a prototype of the scenario is built. - On the one hand you learn the basics of CaptainCasa Enterprise Client RISC, on the other hand you receive some concrete deliverable that you may show to others and use for discussions.

LICENSING

You may use CaptainCasa Enterprise Client RISC completely for free - without any functional restrictions, but without warranty and without rights on sources.

Commercial licenses provide warranty, a defined service level and extended rights on sources.

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