About Composing Controls, Tag Handlers and XML Macros

When do you need your own controls? In general, there are two cases:

- You want to combine existing controls to form complex controls with a certain dedicated task. For example, you want to define an "address area" control which consists of a certain arrangement of fields and labels which form an address. These kinds of controls are called "composing controls" in this documentation you take what is available and group it into certain units.
- You want to create new controls. For example, you need some special kind of icon with a certain behavior.

In early releases, every control consisted of the control definition (XML file) and its corresponding tag handler (Java class). In the case of a composing control, the handler class typically consists of a simple sequence of calls to the inner tag handler classes. Have a look at the source of ADDRESSROWAREAHandler (in the directory

<your-webapplication>/cisdemos/src/com/softwareag/cis/demolibrary). Now you do not need to provide for such a tag handler class anymore; you can now express the inner structure directly in the XML file. We call such a control an "XML macro". However, when you create new controls, you still have to provide for a corresponding tag handler in order to generate your own HTML/JavaScript code.

For short, there are two ways to build your own controls:

- You define the control in the XML file and provide for a corresponding tag handler (mandatory for new controls).
- You write an XML macro (recommended for composing controls).

The Control Editor supports both ways.