



adaptTo()

APACHE SLING & FRIENDS TECH MEETUP
2 - 4 SEPTEMBER 2019

Everything is a Component - Site Development with Composum Pages
Ralf Wunsch, IST GmbH Dresden

who am i

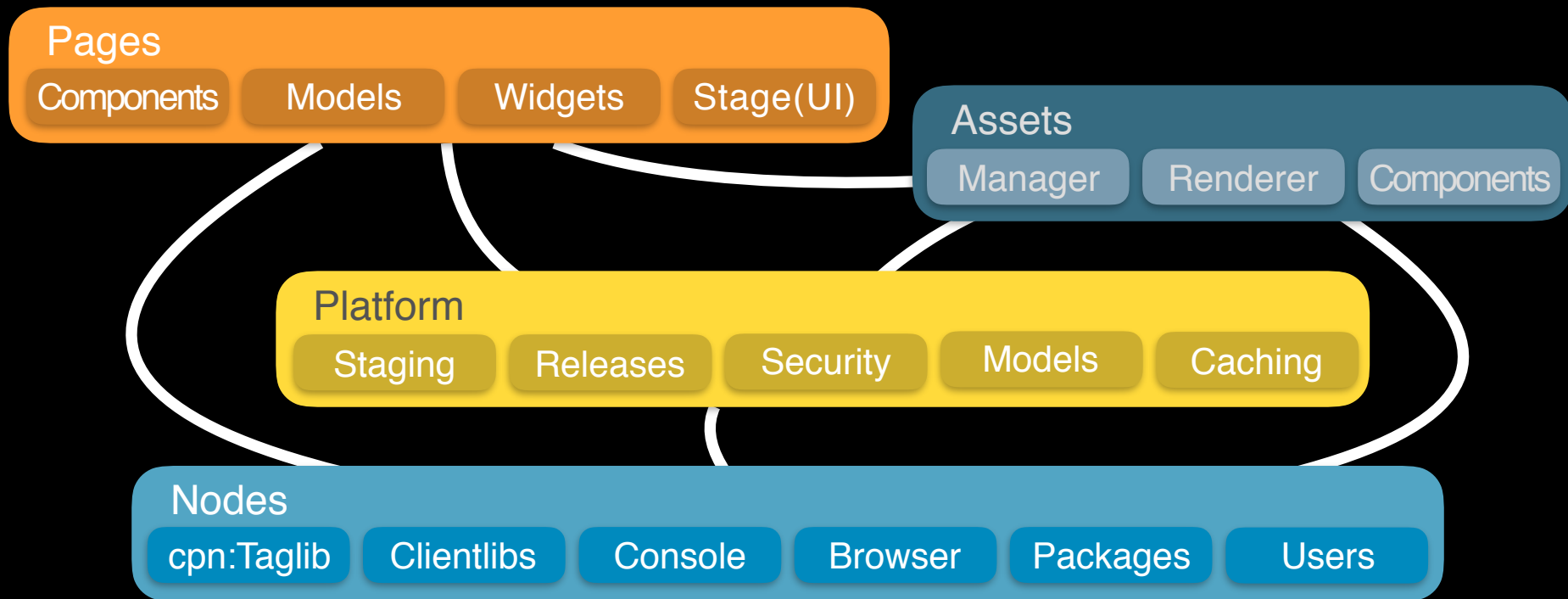


- Developer, Founder of the IST GmbH
 - Sling enthusiast - Sling / AEM since 2009
 - 2015 Composum Console - 'Composum'
 - 'warm up' project, part of the Sling starter
 - Composum 'Pages' / 'Platform' / ...
 - first ideas 2016 - Release 1.0 2019
- just now

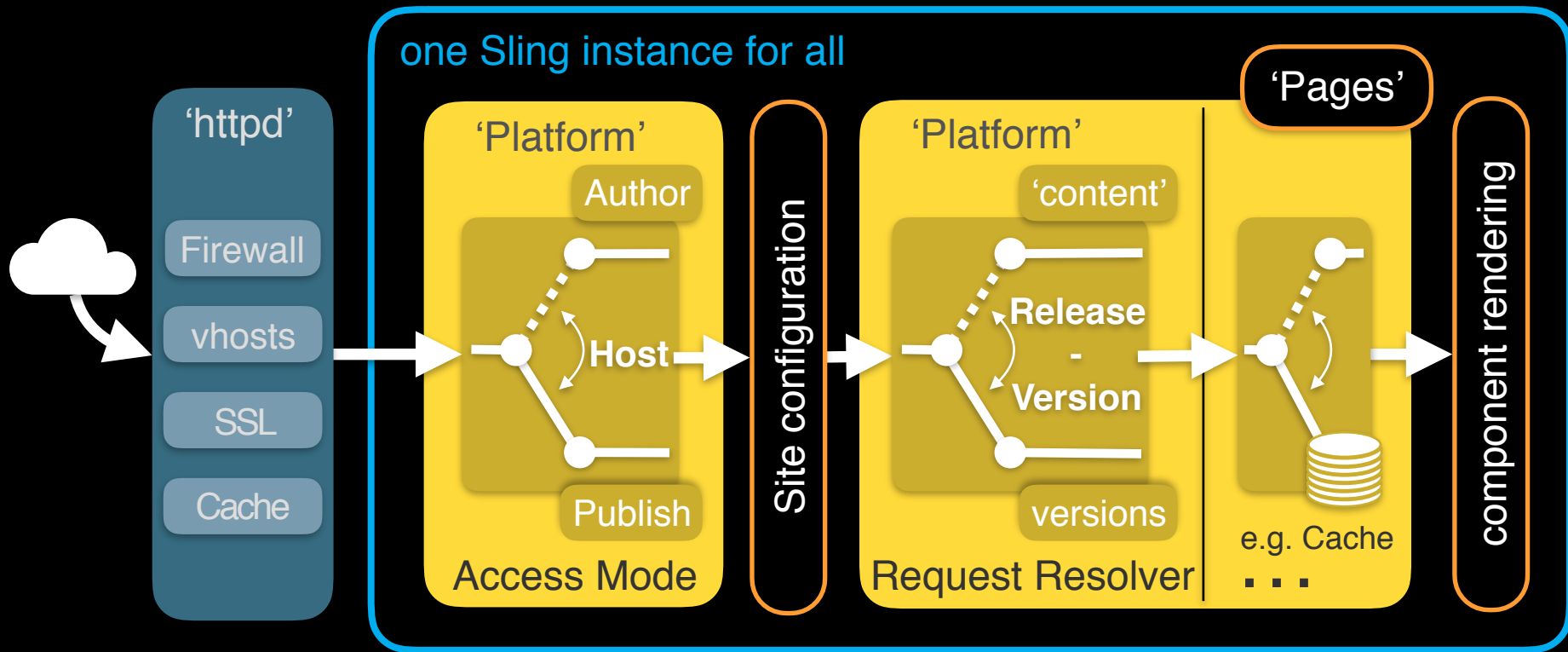
Ralf Wunsch

- ‚Nodes‘ - Browser, Package / User Manager - Core API
- ‚Platform‘ - Release / Access Management
- ‚Pages‘ - Content Management
- ‚Assets‘ - Asset Management (deferred - work in progress)
- see: <https://www.composum.com/home.html>
<https://www.composum.com/home/cloud.html>
<https://cloud.composum.com/>

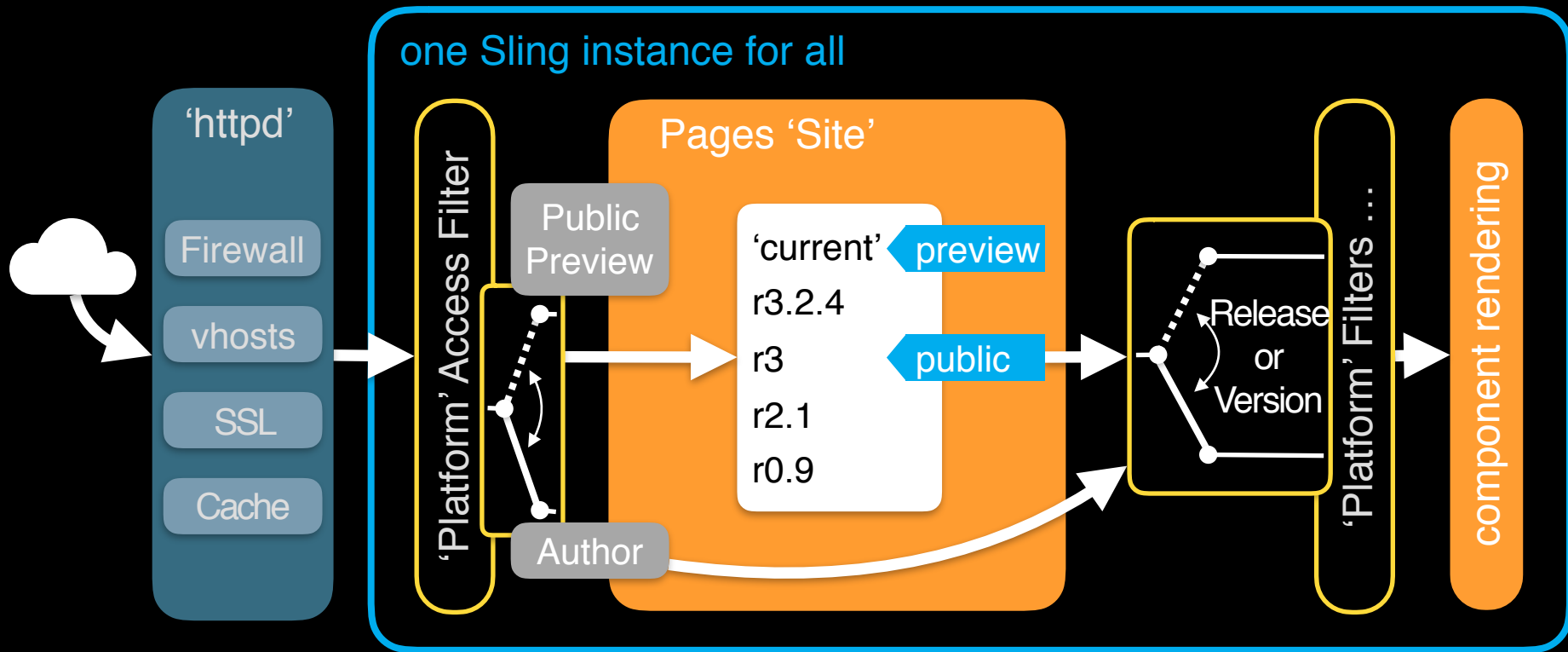
Composum Modules



'Platform'



'Pages' Releases





- Site - the whole website - released
 - Page - a single page - various languages
 - Container - arranges a set of elements
 - Element - more or less complex piece
 - Asset - file based resource - part of the site
- Templates - Site / Page - design policies



- a CMS on top of Composum Nodes / Platform
- content release management and delivery ('preview' / 'public')
- language support on the property and/or the page level
- a modularised client libraries (CSS, JS)
- content structure templates and page content design rules
- extendable CMS user interface powered by Apache Sling
- standard component and widget set (extendable)
- content components development framework

today: 'Pages' components

Pages UI Components



The screenshot displays the adaptTo() Pages UI Components editor interface. The interface is divided into several panels:

- Left Panel (File Explorer):** Shows a tree view of the project structure. The 'test-cs' directory is selected, and the 'teasers' subdirectory is highlighted. Other visible directories include 'content', 'shared', 'ist', 'components', 'composum', 'no-template', 'restricted', 'simple', 'software', 'test-cs', 'home', 'meta', 'about', 'assets', 'sites', 'composum', 'slingshot', and 'starter'.
- Top Panel (Toolbar):** Contains icons for editing, deleting, and other actions. A blue box highlights the edit, copy, and delete icons.
- Center Panel (Preview):** Displays a preview of the 'Video Teaser' component. The preview shows a video background with the text 'Video Teaser' and 'Video Teaser Subtitle'. A blue box highlights the edit, copy, and delete icons for this component.
- Right Panel (Component List):** Lists the available components. The 'Video Teaser' component is selected and highlighted in blue. Other components listed include 'Default Teaser', 'Image Teaser', and 'Symbol Teaser'.

The 'Video Teaser' component is described as 'a teaser with a video in the background'. The interface also shows a 'test-cs' directory and a 'content/ist/test-cs' path.

Everything is a (Sling) component



- Pages, Containers, Elements
- Component Tiles / Toolbars
- Pages Tools
 - Navigation (left)
 - Context (right)
- Edit Dialogs / **Widgets**

Demo

an image component example

the component declaration

```
<jcr:root xmlns:...  
  jcr:primaryType="cpp:Component"  
  jcr:title="Image (Simple)"  
  jcr:description="a single image element"  
  category="[Image,Prototype,Simple]"  
  sling:resourceSuperType="composum/.../components/element"/>
```

```
<jcr:root xmlns:...  
  jcr:primaryType="cpp:Component" ...  
  componentType="cpp:Element"/>
```

the rendering template

```
<cpp:element var="model"
    type="com.composum.pages.common.model.Image"
    test="@{model.valid||model.editMode}">
  <cpp:dropZone property="imageRef" filter="asset:image">
    <cpn:div test="${model.valid}" class="${modelCSS}_frame">
      <cpn:image class="${modelCSS}_picture"
        src="${model.src}" alt="${model.alt}"
        title="${model.title}"/>
    </cpn:div>
  </cpp:dropZone>
</cpp:element>
```

Yes, a JSP taglib!

- keep component code as simple as possible
- avoid complex layering (edit hooks are embedded in the page)
- a ‘language’ on top of the scripting engine
- JSP as proven ‘old’ standard
- extendable - probably if HTL supports a ‘taglib’ feature
- Thymeleaf? - ideas are welcome
- Questions? - after the talk!

Demo

the various component types

content components / page components

- rendering template
- dialogs: edit [, create, delete]
- component tile and thumbnail
- component actions (toolbar)
- component help (content)
- use Pages Components as template

Demo

- Sling Component
 - `primaryType: cpp:Widget`
 - rendering template (for the POST servlet)
 - widget model class (tag attribute handling)
 - CSS / JS scripts if necessary
- use Pages Commons standard widgets as example

Demo

a simple widget (,confidentiality')

```
<jcr:root ...  
  jcr:primaryType="cpp:Widget"  
  sling:resourceSuperType="composum/pages/commons/widget/select">  
  <attributes  
    jcr:primaryType="nt:unstructured"  
    options="secret,confidential,internal,public"  
    default="internal" required="true">  
  </jcr:root>  
  
<cpp:widget label="Confidentiality" property="confidentiality"  
  type="confidentiality" required="false">
```

Demo

how it works together

- containers and elements
 - tree structure navigation, DnD between tools
- sites and pages
 - current release - activation / deactivation
- releases and publishing
 - markers for 'preview' / 'public' release

Demo

try it...

getting started

- <https://cloud.composum.com> (for testing)
 - request your own tenant
 - create your first site, content and component
- for local installation see:
<https://www.composum.com/home/pages/setup.html>
- this talk - see:
<https://www.composum.com/home/news/adaptTo.html>

sources on GitHub

- Pages (with Components module)
 - <https://github.com/ist-dresden/composum-pages>
- more Examples (e.g. the simple image)
 - <https://github.com/ist-dresden/composum-prototype>

Appendix

Taglib tags - Page tags

```
<html ${currentPage.htmlLangAttribute} ${currentPage.htmlDirAttribute}
      class="${currentPage.htmlClasses}" data-context-path="${slingRequest.contextPath}">
<cpp:head>
  <cpn:clientlib type="css" category="${currentPage.viewClientlibCategory}"/>
  <cpn:clientlib type="css" test="${not empty currentPage.themeClientlibCategory}"
    category="${currentPage.themeClientlibCategory}"/>
  <cpn:clientlib type="css" test="${currentPage.editMode}"
    category="${currentPage.editClientlibCategory}"/>
</cpp:head>
<cpp:body>
  <sling:call script="body.jsp"/>
  <cpn:clientlib type="js" category="${currentPage.viewClientlibCategory}"/>
  <cpn:clientlib type="js" test="${currentPage.editMode}"
    category="${currentPage.editClientlibCategory}"/>
</cpp:body>
</html>
```

Example

the edit dialog

```
<cpp:editDialog var="model" type="com.composum.pages.common.model.Image"
    title="Image Properties">
  <cpp:widget label="Image" property="imageRef" type="imagefield"
    hint="the path to the image asset in the repository"/>
  <cpp:widget label="Title" property="title" type="textfield" i18n="true"
    hint="the title text normally shown on mouse over"/>
  <cpp:widget label="Alt Text" name="alt" type="textfield"
    value="${model.altText}" i18n="true"
    hint="the text for a text based view"/>
</cpp:editDialog>
```

Example

toolbar and tile example

```
<cpp:element var="model" type="com.composum.pages.commons.model.GenericModel"
    cssBase="composum-pages-component-tile">
    <sling:call script="_icon.jsp"/>
    <sling:call script="_title.jsp"/>
    <cpn:text value="${model.name}" format="({})" class="${modelCSS}_name"/>
    <cpn:text value="${model.pathHint}${model.name}" class="${modelCSS}_path"/>
    <cpn:text value="${model.component.typeHint}" class="${modelCSS}_type"/>
</cpp:element>
<cpp:editToolbar>
    <div class="composum-pages-tools_button-group btn-group btn-group-sm" role="group">
        <cpp:treeAction icon="edit" label="Edit" title="Edit the selected element"
            action="window.composum.pages.actions.element.edit"/>
    </div> ...
</cpp:editToolbar>
```

Example

content templates

- resolvers search path
- page and site templates
- predefined structure (copied)
- design rules (referenced)
- each template can reference another template
- use Pages Components templates as example

more...