

OpenCms Days 2009

Integrating OpenCms and Liferay Portal

Dan Liliedahl

Author: *OpenCms 7 Development*

OSE Consulting

Overview / Background

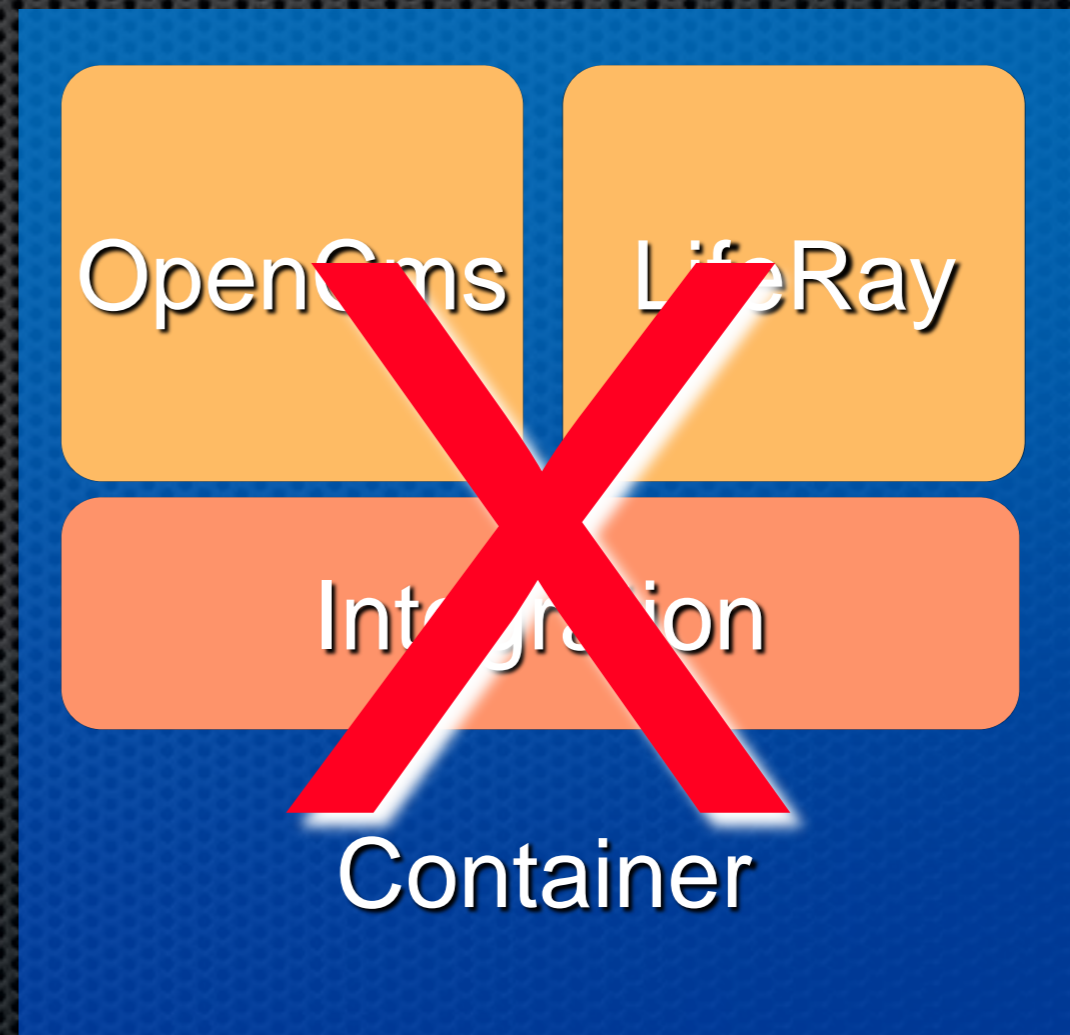
- Why Integrate?
 - OpenCms infrastructure already in place
 - Existing content
 - Wanted to implement company intranet
 - Chose Liferay Portal Server
 - How to integrate these two?

Goals

- Keep Costs Low = Open Source Platform 100%
- Leverage Existing Content / Infrastructure as much as possible
 - Avoid content migration
 - Allow for re-skin / theming of site
- Use LifeRay for presentation

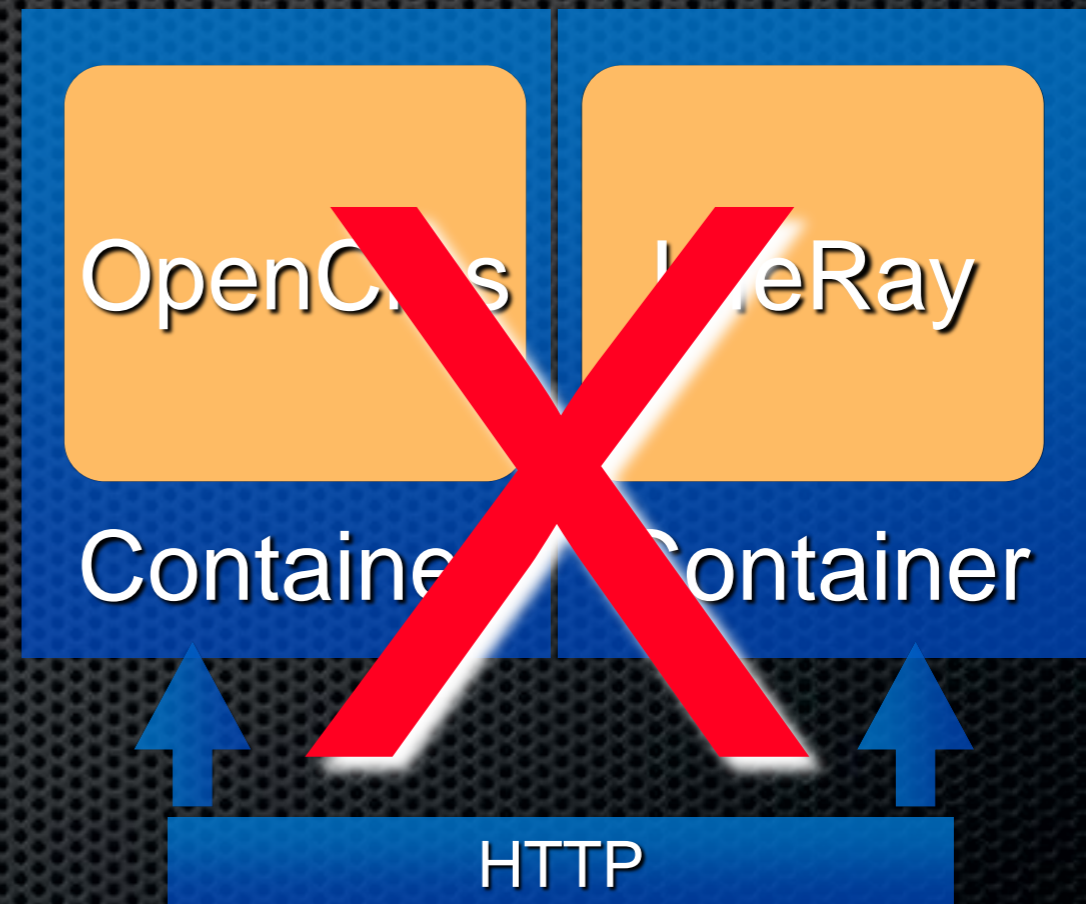
Integration Approaches

- Option 1 - Tightly Coupled
 - Single Web Application
 - In Context calls
 - Disadvantages
 - Maintenance!



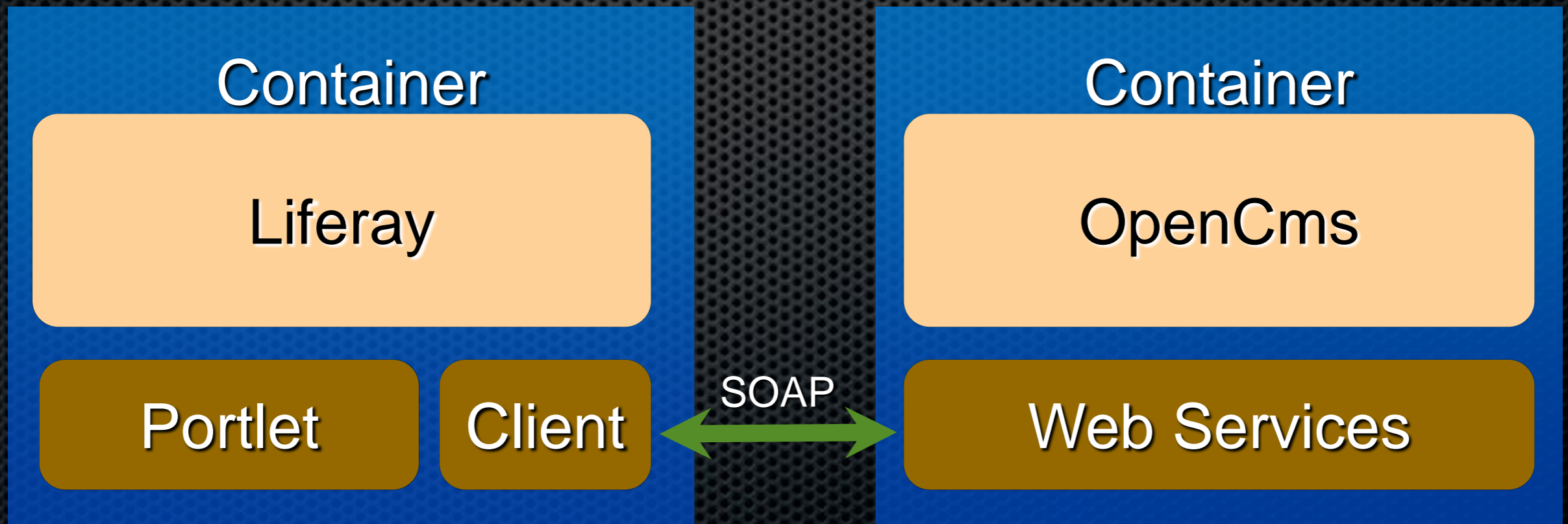
Approach Options...

- Option 2 - Loose Coupling
 - HTTP Interface or custom UI in OpenCms
 - easier to implement
 - Disadvantages
 - No access to local server



Solution - Web Services

- Loose Coupling
- Minimal Impact on Existing OpenCms install
- Bonus: re-usable component



Solution Continued...

- Locating, retrieval done via Web Services
- Plain rendering, elements with DIVs
 - `<DIV class="param" id="element">`
- Style on Client side using CSS, Liferay themes
 - URLs fixed up upon delivery
- Back end protected via Single Sign On

Demo

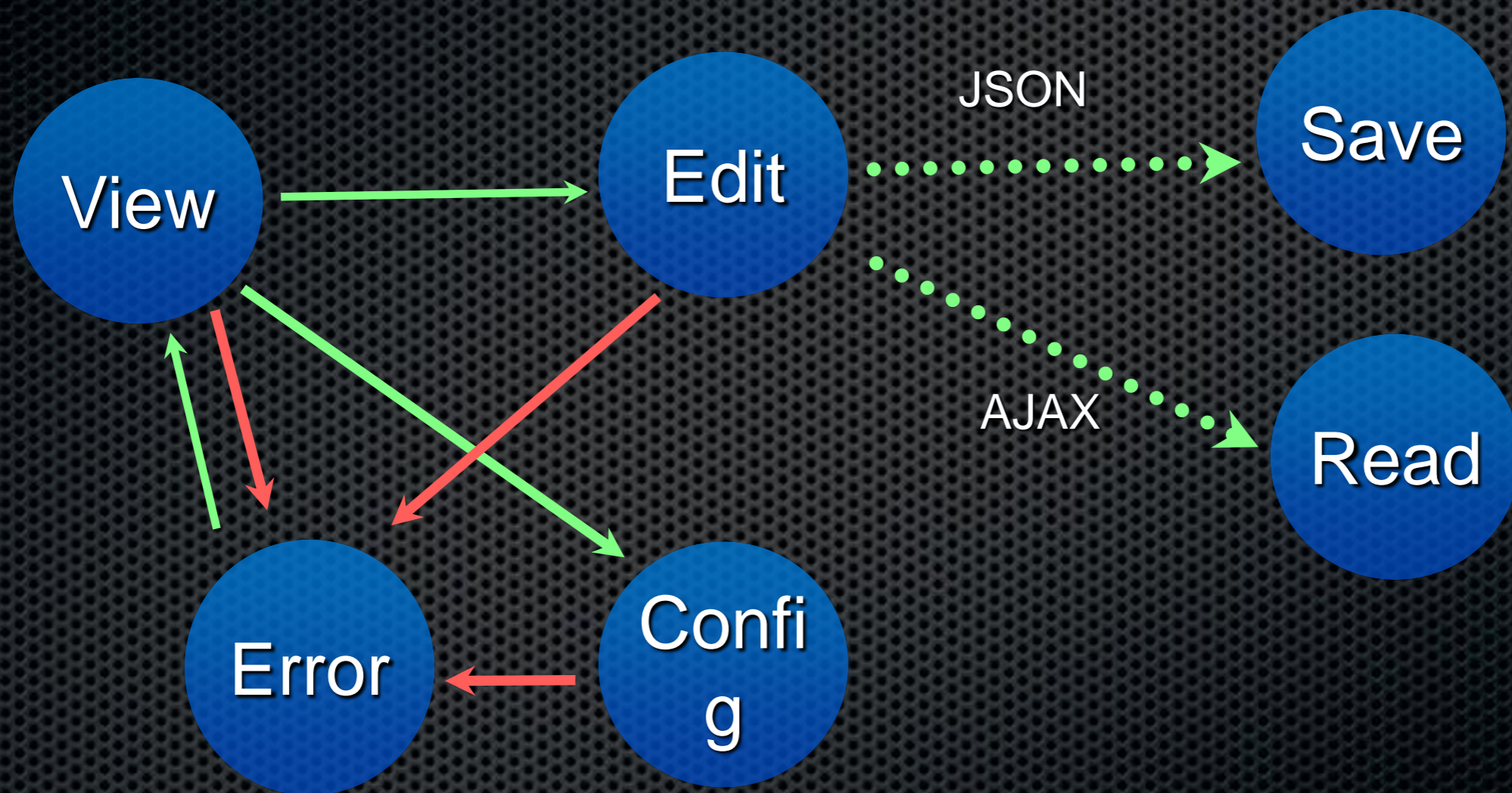
Limitations

- Currently no Editing on Portlet Side
 - Web Services API allows it - could be added without too much work (in progress - stay tuned)
- Solution uses xmlpage resource only
 - Nothing preventing other resource types from being used, requires render handling
- Simple translation of URLs from relative to local

Portlet Design

- Liferay supports JSR 268
- Liferay Extension Environment
 - Specific to Liferay - can be made generic without too much work
- Struts / Tiles Portlet
 - Easier handling of paths
- Utilizes AJAX / JSON Actions

Portlet Actions / States



OpenCms Web Services

- 2 Flavors, Source code is the same
 - JAX-WS
 - Newer standard, annotation based generation
 - JAX-RPC
 - Older standard, Apache AXIS 1.0
 - Supported by Liferay

Technical Details

- Web Service API
- Session Handling
- Deployment Details
 - JAX - RPC
 - Install AxisServlet into [web.xml](#)
 - Optional AdminServlet, SOAPMonitor, etc
 - JAX - WS

Technical Details...

- JAX-WS
 - Install filter into [web.xml](#)
 - Install endpoint service into [web.xml](#)
 - Install servlet mappings
 - Add required JAX-WS libraries

Thank you / Questions

- Dan Liliedahl
- OSE Consulting
- <http://www.opencmsconsulting.com>