JSR 378 - 2nd Public Review

June 8, 2021

Neil Griffin
Specification Lead
Liferay, Inc.
**Title:**

*Portlet 3.0 Bridge for JavaServer™ Faces 2.2 Specification*

**Goal:**

To define the requirements for a portlet bridge that enables webapp developers to deploy their JSF applications as portlets with little-to-no modification
The JSF Portlet Bridge (FacesBridge) is a technology that connects the **Portlet Lifecycle** to the **JSF Lifecycle**.
Portlets

- Portlets are web applications that are deployed within a portlet container

- Portlet containers **aggregate the markup** of one or more portlets in order to present a portal page to the user
h:datatable

HtmlDataTable is a UiData (iterator) component that renders a table element with tabular data and is designed to be used in conjunction with h:column child component tags.

General Usage

The value attribute tag must be bound via EL to a model bean property (which is wrapped implicitly by JSF with a DataModel). The var attribute is used to introduce a variable name into the EL when iterating over the model.

<table>
<thead>
<tr>
<th>First Name</th>
<th>Last Name</th>
<th>Date of Birth</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>John</td>
<td>Adams</td>
<td>Nov 30, 1735</td>
<td>United States</td>
</tr>
<tr>
<td>Samuel</td>
<td>Adams</td>
<td>Oct 27, 1722</td>
<td>United States</td>
</tr>
<tr>
<td>Josiah</td>
<td>Bartlett</td>
<td>Dec 21, 1729</td>
<td>United States</td>
</tr>
<tr>
<td>Carter</td>
<td>Braxton</td>
<td>Oct 16, 1736</td>
<td>United States</td>
</tr>
<tr>
<td>Charles</td>
<td>Carroll</td>
<td>Oct 19, 1737</td>
<td>United States</td>
</tr>
<tr>
<td>Benjamin</td>
<td>Franklin</td>
<td>Feb 17, 1706</td>
<td>United States</td>
</tr>
<tr>
<td>Elbridge</td>
<td>Gerry</td>
<td>Mar 03, 1701</td>
<td>United States</td>
</tr>
<tr>
<td>John</td>
<td>Hancock</td>
<td>Feb 23, 1737</td>
<td>United States</td>
</tr>
<tr>
<td>Thomas</td>
<td>Jefferson</td>
<td>May 13, 1743</td>
<td>United States</td>
</tr>
<tr>
<td>Francis</td>
<td>Lewis</td>
<td>Apr 21, 1713</td>
<td>United States</td>
</tr>
</tbody>
</table>

Footer
Liferay Faces is an open source umbrella project that provides support for the JavaServer™ Faces (JSF) standard in webapp and portlet projects.

[Issue Tracker] [Forums] [Tutorials]

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**JSR 378: Portlet 3.0 Bridge for JavaServer™ Faces 2.2**

The purpose of JSR 378 is to define the requirements necessary for developing a Portlet 3.0 Bridge for applications developed with JavaServer™ Faces 2.2.

- API Source
- Spec Source
- RI Source
- Experts Mailing List
- Observers Mailing List
- Issue Tracking

This JSR builds upon the foundation established by JSR 329 (Portlet 2.0 Bridge for JSF 1.2).
JSR 378 Timeline

- EDR#1
- EDR#2
- Public Review#1
- Public Review#2
- About to be here
- FINAL RELEASE

- 2017
- 2018
- 2019
- 2020
- 2021

About to be here

COVID-19

About to be here
Portlet 3.0 Timeline

- **2017**
  - Apache Pluto 3.0.0

- **2018**
  - Liferay Portal 7.1
  - Apache Pluto 3.0.1

- **2019**
  - Liferay Faces Bridge 4.2
  - Portlet 3.0 + JSR 371 MVC 1.0
  - Apache Pluto 3.1.0

- **2020**

- **2021**

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Apache
Pluto
3.0.0

Liferay
Portal
7.1

Portlet 3.0
+ JSR 371 MVC 1.0

Liferay
Faces Bridge
4.2
JSR 378 Reference Implementation

Version 4.x
Java Package API:
com.liferay.faces.bridge

Version 5.x
Java Package API:
javax.portlet.faces
Download Stats 2019-2020

Downloads Over the Last 12 Months For com.liferay.faces:com.liferay.faces.bridge.impl

Downloads Over the Last 11 Months For com.liferay.faces:com.liferay.faces.bridge.impl

Downloads have DOUBLED since June 2019!
Demos
Demo: JSF Showcase

**h:inputText**

`HtmlInputText` is a `UIInput` component that renders a field for editing single-line text.

**General Usage**

The `value` attribute can be bound to a model bean property via EL.

**Example**

- **Required**
- **Text Field**
  - Hello World

**Model Value**

- Hello World

**Source Code**

```xml
1. <ui:composition xmlns="http://www.w3.org/1999/xhtml"
3.   xmlns:ui="http://xmlns.jcp.org/jsf/facelets">
4.   
5.   <h:form>
6.     <h:inputText id="text" label="#{i18n['text-field']}"
7.       required="#{showcaseModelBean.selectedComponent.required}" value="#{inputTextModelBean.text}"/>
```
Demo: Applicant Reference Portlets
Demo: Faces Flows

Enter Booking Flow

Booking Type
Flight

Departure Airport
108 Mile Ranch: South Cariboo Region / 108 Mile Airport (ZI)

Arrival Airport
Abbotsford: Abbotsford Airport (YXX)

Departure Date
06/01/2021

Search Flights Exit Booking Flow
Deliverables

• Standard:
  • Spec Document
  • Reference Implementation (source, binaries, javadoc)
  • Technology Compatibility Kit (TCK)

• Bonus:
  • JSF Showcase (portlet & webapp versions):
    http://www.liferayfaces.org/web/guest/jsf-showcase

  • Variety of demos including Plain JSF, PrimeFaces, ICEfaces, RichFaces, Liferay Faces Alloy, and Inter-Portlet Communication

  • Maven Archetypes for: Plain JSF, PrimeFaces, ICEfaces, RichFaces, and Liferay Faces Alloy
Licenses

• **Spec:** *JCP License*
  
  https://github.com/liferay/liferay-faces-bridge-api/blob/5.x/bridge-spec/LICENSE.txt

• **RI:** *Apache License, Version 2.0*
  

• **TCK:** *Apache License, Version 2.0*
  
• **Q:** Is the RI available for public download?
  **A:** [https://oss.sonatype.org/content/repositories/snapshots/com/liferay/faces/com.liferay.faces.bridge.impl/5.0.0-SNAPSHOT/](https://oss.sonatype.org/content/repositories/snapshots/com/liferay/faces/com.liferay.faces.bridge.impl/5.0.0-SNAPSHOT/)

• **Q:** Is the TCK available for public download?
  **A:** Yes, but only in source form because deployment of the TCK to a portlet container (like Pluto) is most easily achieved through the Maven build system.

• **Q:** Do you have a source-code repository?
  **A1:** Spec & API: [https://github.com/liferay/liferay-faces-bridge-api](https://github.com/liferay/liferay-faces-bridge-api)
  **A2:** Impl & TCK: [https://github.com/liferay/liferay-faces-bridge-impl](https://github.com/liferay/liferay-faces-bridge-impl)
Wrap Up

• 2nd Public Review being submitted in the coming days/weeks

• Requesting a 30 day schedule for the ballot
Thank you!

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