

## New Features Described in Oracle JET's Documentation for Release 17.0.0

Here are updates to the documentation for Oracle JET to describe new features and enhancements added to Release 17.0.0.

For other changes in this release, see the product [Release Notes](#).

### Oracle JET

Documentation updates for this release of Oracle JET.

- **Progressive Web App support**  
Progressive Web App support for Oracle JET web apps has been enhanced with the inclusion of an `assets` folder with a range of image files for splash screens and app launcher icons. See [Add Progressive Web App Support to Web Apps](#).
- **TypeScript**  
This release of JET uses version 5.4.5 of TypeScript. For more detail about TypeScript in Oracle JET apps, see [Configure Oracle JET Apps for TypeScript Development](#).
- **Omit component version number from the output directory path**  
The `oraclejetconfig.json` file now includes an `unversioned` property. When set to `true`, Oracle JET generates components in a directory path without the component version number when you run the Oracle JET commands that output components (`build`, `serve`). For example, with `"unversioned": true`, the output path for components in an Oracle JET app is as shown in the following snippet of the terminal console:  

```
runAllComponentHooks for component: web\components\my-component-pack\component.json finished
```

  
Without the `unversioned` property in the `oraclejetconfig.json` file, use of the Oracle JET `--omit-component-version` command-line argument with the `build` or `serve` command generates components in a directory path without the component version number.

If the `oraclejetconfig.json` file includes `"unversioned": false`, Oracle JET generates components in a directory path with the component version number when you run the `build` or `serve` command, even if you use the `--omit-component-version` command-line argument. For example:

```
runAllComponentHooks for component: web\components\my-component-pack\1.0.0\component.json finished
```

In other words, setting `"unversioned"` to `true` or `false` in the `oraclejetconfig.json` file takes precedence over the command-line argument. See Properties in the `oraclejetconfig.json` File.

- Path mapping

This release provides an expanded explanation of the path mapping process and its available configuration options. It now includes more information on using the path mapping configuration file to add third-party tools and libraries to your apps. See [Add Third-Party Tools or Libraries to Your Oracle JET App](#) and [Understand the Path Mapping Script File and Configuration Options](#).

## Migration Information

Note the following change that affect JET apps that you migrate to Release 17.0.0:

See the following sections for step-by-step information about migrating your app to this release of Oracle JET.

- [Migrate Alta-themed Applications from Releases Prior to 8.3.0 to Release 17.0.0](#) describes migration steps from releases prior to release 8.3.0 that allow migrating apps to the latest release.
- [Migrate to the Redwood Theme CSS](#) updated to describe how to migrate an Alta-themed app to the Redwood theme. As the topic describes, starting in release 9.0.0 it is possible to migrate to the Redwood theme.
- [Migrate Redwood-themed Apps from Releases 9.x.0 or Later to Release 17.0.0](#) describes migration steps for Oracle JET app sources from version 9.x.0 or newer to the latest release.

## Oracle JET Audit Framework

*Using and Extending the Oracle JET Audit Framework* has been updated in the following ways.

An important change for rule writers to note is that JAF now enforces the rule that any custom configuration properties that you define for your audits must be defined under the `customOpts` rule property. Please scan your rules for direct access of custom options from `<context>.ruleOpts`, `<context>.rulePack.getRuleOptions()` or `<context>.rulePack.getRuleOption()` and amend to use the relevant custom option API. For example, `<context>.rulePack.getRuleCustomOptions()`. See [Define the Runtime Properties of Custom Audit Rules](#).

New and changed JAF audit features:

- JAF includes changes to existing rules:

- The best-practice and redwood-strict profiles increased the severity from major to blocker for the `oj-html-style-bp-font-family` and `oj-css-style-bp-font-family` rules with message IDs of JET-5040 and JET-6035.
- The `oj-html-style-bp-margin-padding` rule uses the new `stylemember` registered listener type to reduce its invocation overhead.
- The following rules now additionally check for style attribute members, such as `style.borderColor="xxx"` and `style.minHeight="xxx"`.

```
oj-html-style-abs-units
oj-html-style-bp-color
oj-html-style-bp-display
oj-html-style-bp-font
oj-html-style-bp-font-family
```

- The following rules have been updated to support the new `<oj-if>` element.

```
oj-html-bindif-test
oj-html-binding-as-slot-child
oj-html-form-bindif
oj-slot-pref-content
oj-tsx-form-bindif
```

And the following rules now recommend use of `oj-if` rather than `oj-bind-if`:

```
oj-css-style-bp-display
oj-html-ko_databind
oj-html-ko-comment
oj-html-style-display
```

- JAF includes new rules:

- **Rule: `oj-html-bp-button-xs-chroming` Severity: major Message ID: `jet-5135`**  
**Rule: `oj-tsx-bp-button-xs-chroming` Severity: major Message ID: `jet-7220`**  
 For `<oj-button>` and `<oj-c-button>` property `size="xs"` is only supported using ghost chroming and icon display mode. For `size="xs"`:
  - 1) `chroming="ghost"` is required, and:
  - 2) `display="icons"` is required.
- **Rule: `oj-html-bp-title-to-tooltip` Severity: major Message ID: `jet-5140`**  
**Rule: `oj-tsx-bp-title-to-tooltip` Severity: major Message ID: `jet-7230`**  
 The 'tooltip' attribute matches the Redwood specification, but 'title' does not. Additionally, there are accessibility issues with 'title' that are solved

using 'tooltip'.

Action: replace attribute 'title' with 'tooltip'.

- **Rule: oj-acc-button-label Severity: blocker Message ID: jet-2185**  
**Rule: oj-tsx-acc-button-label Severity: blocker Message ID: jet-7225**  
For button accessibility, the 'label' attribute should be applied to the following button components: <oj-c-button>, <oj-c-menu-button> and <oj-c-split-menu-button>.
  
- **Rule: oj-tsx-style-bp-margin-padding Severity: major<sup>1</sup> Message ID's: jet-7200, 7201, 7202**  
**Rule: oj-html-style-bp-margin-padding Severity: major<sup>1</sup> Message ID's: jet-5120, 5121, 5122**  
For best practices, margin/padding classes such as 'oj-sm-margin-4x' and 'oj-sm-padding-4x' are preferred over numeric values. See the Margins & Padding demo category in the JET cookbook under the Framework Utility CSS category. Negative values are not supported. The currently supported values are 4px - 48px, 0.25rem - 12rem, and 0.25em - 12em.  
<sup>1</sup> Possibility of more than 1 severity since there are 3 message ID's
  
- **Rule: oj-tsx-button-size-chroming Severity: major<sup>1</sup> Message ID's: jet-7215, 7216**  
**Rule: oj-html-button-size-chroming Severity: major<sup>1</sup> Message ID's: jet-5130, 5131**  
The Redwood input designs require the use of small buttons. Please update the button attributes in the 'start' or 'end' slot:
  - 1) For <oj-button>, use class="oj-button-sm"
  - 2) For <oj-c-button>, set size="sm" and chroming="ghost"<sup>1</sup> Possibility of more than 1 severity since there are 2 message ID's
  
- **Rule: oj-tsx-style-abs-units Severity: major<sup>1</sup> Message ID's: jet-7210, 7211, 7212**  
In general it is preferable to use relative length units in place of absolute units. Specifically, 'rem' units are recommended because they proportionately adjust to the root font size. 'rem' can be used for anything that takes a length unit - e.g. font-size, line-height, width, height, padding, margin, etc. However, there are cases where absolute units are required. This project is configured to allow absolute units in selector names that include one of

the following terms: 'image, and  
'picture'.

<sup>1</sup> Possibility of more than 1 severity since there are 3 message ID's

- The following new rules are only active if the configuration file inherits from the `redwood-strict` profile using the `extends` configuration property.

**Rule: oj-html-redwood-clear-icon Severity: blocker Message ID: jet-0535**

For JET components `<oj-input-text>`, `<oj-c-input-text>`, `<oj-c-input-password>`, and `<oj-c-input-sensitive>`, the 'clear-icon' attribute value 'always' is not permitted using the 'redwood-strict' profile'. Only Typing, Focus, and Selection states can show the Clear button. Other states don't show the Clear button since there is no active value to clear or delete. The value 'always' would keep the icon showing at all times, while 'conditional' behaves in the manner above.

**Rule: oj-tsx-redwood-clear-icon Severity: blocker Message ID: jet-8000**

For JET components `<oj-input-text>`, `<oj-c-input-text>`, `<oj-c-input-password>`, and `<oj-c-input-sensitive>`, the 'clear-icon' attribute value 'always' is not permitted using the 'redwood-strict' profile'. Only Typing, Focus, and Selection states can show the Clear button. Other states don't show the Clear button since there is no active value to clear/delete. The value 'always' would keep the icon showing at all times, while 'conditional' behaves in the manner above.

Changes for rule writers:

- New utility library `context.utils.configUtils` which contains configuration convenience methods. For example, the `getExtendsProfileName()` method returns the profile name from which the current active configuration was extended. See [ConfigLib: Configuration Library](#).
- New rule registration listener type, `stylemember`. Listeners of this type fire when a style attribute and a member reference are declared. For example, `style.marginTop="4px"`.
- Walkthrough of a Sample Virtual DOM TSX Audit Rule has been added to illustrate how to write audit rules for the TSX files of an Oracle JET virtual DOM app.
- Fixed failure in `metaLib.getPropStatus()` if the specified user component has no properties.

# Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

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Oracle JavaScript Extension Toolkit (Oracle JET) What's New in Oracle JET, 17.0.0  
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