

New Features Described in Oracle JET's Documentation for Release 19.0.0

Here are updates to the documentation for Oracle JET to describe new features and enhancements added to Release 19.0.0.

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

Oracle JET

Documentation updates for this release of Oracle JET.

- Oracle JET CLI add `translation` command and support for ICU translation bundles

A new command-line argument (`add translation`) facilitates the creation and management of ICU translation bundles in Oracle JET apps. See [Work with ICU Translation Bundles in an Oracle JET Virtual DOM App](#).

- Configuration property to generate source map files

A new property, `generateSourceMaps`, in the `oraclejetconfig.json` file controls the generation of source map files. When `true`, the Oracle JET CLI configures Terser and RequireJS packages to generate source map files when you build your Oracle JET app. Its default value is `false`. See [Properties in the oraclejetconfig.json File and Debug Web Apps](#).

- Configuration property to enable use of NPM's `--legacy-peer-deps` flag

The `oraclejetconfig.json` file supports a new configuration property, `enableLegacyPeerDeps`, which, when set to `true`, implements support for the optional inclusion of the `--legacy-peer-deps` flag during NPM package installation. When `true`, the Oracle JET CLI modifies any invoked existing NPM install commands, such as the Oracle JET CLI's `add docgen` command, to include the `--legacy-peer-deps` flag. You need to add the `enableLegacyPeerDeps` property to the `oraclejetconfig.json` file if you want to use this optional capability. The default value of `false` means that NPM installations proceed without the `--legacy-peer-deps` flag. See [Properties in the oraclejetconfig.json File](#).

- TypeScript

This release of JET uses version 5.8.3 of TypeScript. For more detail about TypeScript in Oracle JET apps, see [Configure Oracle JET Apps for TypeScript Development](#).

- Migration log file

The Oracle JET CLI's `migrate` command now writes a file named `ojet.migrate.log` to the root directory of the Oracle JET app that you attempt to migrate. This log file contains details about the updates (for example, properties added to the `oraclejetconfig.json` file) that the `migrate` command makes. For more information about migrating your Oracle JET app to this release, see [Oracle JET App Migration to Current Release](#).

Oracle JET Audit Framework

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

New and changed JAF audit features:

- Oracle JAF now supports WAI-ARIA 1.2, including properties like `aria-modal` introduced in WAI-ARIA 1.1. Previously, it supported WAI-ARIA 1.0.

- Oracle JAF in a non-Oracle JET project

If an Oracle JAF configuration file (for example, `jafconfig.json`) sets the `typescript.compile` property to `true` for VComponent compilation, but no `oraclejetconfig.json` file is found in the root directory (indicating a non-Oracle JET project), Oracle JAF now continues with audits where previously it terminated due to an inability to set up VComponent compilation.

- JAF includes updates to existing rules:

- The `csp-html-unsafe-expr` rule now detects use of `async await` in a JET expression.
- The `jetwc-use-public-apis` rule in the `builtinJetWcRules` rule set is now enabled by default.
- `oj-acc-select-aria-label`

This rule no longer checks no longer checks the `oj-c-select-multiple` and `oj-c-select-single` Core Pack components to avoid false positives.

- `oj-html-alta-deprecated`

This rule's message has been revised to request you to remove all Alta CCS or SCSS as soon as possible.

- `oj-html-form-bindif`, `oj-tsx-form-bindif`, and `oj-html-binding-as-slot-child`

The `oj-html-form-bindif` and `oj-tsx-form-bindif` rules now handle the `oj-c-form-layout` Core Pack component in addition to the legacy `oj-html-form-layout` component, while the `oj-html-binding-as-slot-child` rule now exempts both `oj-c-form-layout` and `oj-form-layout`.

- The severity of the `oj-html-msgs-cat-text` rule is elevated to blocker in the `redwood-strict` profile.
 - `oj-html-wctag-for` and `oj-html-wctag-id`

These rules now check that the related `component.json` metadata has a *type* property of *composite* or is omitted.
 - `oj-tsx-ojattr`

The severity of this rule is now critical for the case where a `kebab-case` attribute is assigned a string of the form `[[...]]` or `{{...}}` and, additionally, warns in a message that the result is coerced to a string.
- JAF includes new rules:
 - `oj-acc-navigable-link` and `oj-tsx-acc-navigable-link`

Rule: `oj-acc-navigable-link` Severity: blocker Message ID: `jet-2190`
 Rule: `oj-tsx-acc-navigable-link` Severity: blocker Message ID: `jet-7278`
 In order to be keyboard accessible, hyperlinks must be defined with either an `'href'` or a `'tabindex'` property (or both).
 - `oj-css-bp-zindex`

Rule: `oj-css-bp-zindex` Severity: major¹ Message ID's: `jet-6075, 6076`
 For best practices, CSS z-index property values should not be used. Use of JET standard secondary window components (popup, dialog or messages) is recommended for proper UI element stacking.

¹ Possibility of more than 1 severity since there are 2 message ID's
 - `oj-cca-compjson-prop-conflict`

Rule: `oj-cca-compjson-prop-conflict` Severity: major¹ Message ID's: `jet-8045, 8046, 8047`
 JET custom components should not define custom property names that conflict with HTML global attributes. Overriding standard HTML APIs in a custom component implementation can cause unexpected behavior and bugs that are hard to diagnose.

As an alternative, JET custom VComponents have the ability to observe a subset of the available global attributes of their HTML custom element. Refer to the `ObservedGlobalProps` helper type in the JET VComponent documentation for further details.

¹ Possibility of more than 1 severity since there are 3 message ID's

- oj-html-badge-maintenance

Rule: oj-html-badge-maintenance Severity: info Message ID: jet-0017
class 'oj-badge' is moved to maintenance status starting in JET 19.0, and is superseded by oj-c-badge.

- oj-html-corerequired and oj-tsx-corerequired

Rule: oj-html-corerequired Severity: blocker Message ID: jet-2260
Rule: oj-tsx-corerequired Severity: blocker Message ID: jet-7280
Some components need to be configured such that at least one property or slot must be populated out of a given set for the component to function correctly (the 'anyOf' requirement), or alternatively the component should not be configured with properties and slots from a given set (the 'not' requirement). This requirements are often used for accessibility.

- oj-html-oj-ux-ico-slot

Rule: oj-html-oj-ux-ico-slot Severity: blocker Message ID: jet-8040
Menus and other action components that can be configured with an icon starting with 'oj-ux-ico-', should always have the icon applied via a span tag in the assigned slot. Applying the icon class anywhere else will result in the component not functioning as expected.

- oj-html-redwood-ojoption-disabled

Rule: oj-html-redwood-ojoption-disabled Severity: blocker Message ID: jet-8055
By extending the profile 'redwood-strict', Redwood compliance is required by the Audit. Redwood compliant designs do not allow individual child <oj-option> components of <oj-radioset> and <oj-checkboxset> to be disabled, and should be removed. If an option is not available for interaction by the user, it should not be included in the set of options.

Extend the redwood-strict profile to enable this rule. It is disabled by default.

– oj-html-nav-tab-nointeractive

Rule: oj-html-nav-tab-nointeractive Severity: blocker Message ID: jet-8050

The <template> 'itemTemplate' slot in <oj-tab-bar> and <oj-navigation-list> must not contain interactive tags. That is, content other than , <a>, <div>, , <oj-badge>, text, <oj-bind-text>, <oj-bind-if>, <oj-bind-for-each>, or <oj-if>.

– oj-tsx-tabbar-progressive-popup

Rule: oj-tsx-tabbar-progressive-popup Severity: minor Message ID: jet-7285

For JET 18.0.0 and later, <oj-tab-bar> truncation="progressive" should always be used with overflow="popup" for handling overflow properly. If truncation="progressive" is used alone, for long labels it is possible that all items may not fit within oj-tab-bar despite being truncated.

– oj-tsx-prop-ko-binding

Rule: oj-tsx-prop-ko-binding Severity: critical Message ID: jet-7275

When components are used in VDOM, properties should be using the appropriate VDOM style of binding syntax which uses single curly braces. Knockout style binding syntax using string values with pairs of square brackets or curly braces will be simply treated as a literal strings and this is likely to have unexpected effects on the operation of the component.

– jetwc-use-public-apis

Rule: jetwc-use-public-apis Severity: blocker¹ Message ID's: jetwc-0250, 0251, 0252, 0253

This rule checks that any components or APIs used by a component are either from within the same pack or are marked as public and from a declared dependency

¹ Possibility of more than 1 severity since there are 4 message ID's

Changes for rule writers:

- A new API, `isFolderWritableSync()`, in the file system utilities library allows you to check if a folder has write access permission. You can access this API through `<rule_context>.utils.fsUtils`. See `FsUtils: File System Functions`.
- New listener types:
 - `jetcorecomp` listens for Oracle JET Core Pack components.
 - `globtag` has been extended to optionally accept the name of an HTML global element as an argument. For example, `"globtag(a)"` or `"globtag(span)"`.
 - `attr-aria` for HTML and `TsxAria` for TSX allows a rule to listen directly for all `aria-*` properties instead of having to examine all element properties.
 - `requirements` for web components that have `requirements` metadata.
 - See `Listener Types for HTML and JSON Rules`.
 - `TsxRequirements` is called for web components that have `requirements` metadata. See `Listener Types for TSX Rules`.
- During the JAF pre-audit phases, the `jafLib` interface, available through `ruleCtx`, has been expanded to include the `isCLI()`, `isAMD()`, and `isAPI()` methods, which were previously available only in the main audit phase. See `JafLib: JAF Core Access Methods`.

File path separators for the Windows platform

A future release of Oracle JAF will remove support for glob paths with escaped backslashes on Windows. To prepare for this change, review `oraclejafconfig.json` properties like `"files"`, `"exclude"`, and `"components"` and replace values that use escaped backslashes to use forward slashes.

For example, if you encounter a value similar to the following for the `"files"` property:

```
"files": [
  ".\\src\\**\\*.html",
```

replace it as follows:

```
"files": [
  "./src/**/*.*.html",
```

Failure to make this change will result in referenced files not being processed by JAF on Windows in a future release.

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>.

Access to Oracle Support

Oracle customer access to and use of Oracle support services will be pursuant to the terms and conditions specified in their Oracle order for the applicable services.

Oracle JavaScript Extension Toolkit (Oracle JET) What's New in Oracle JET, 19.0.0

G33838-02

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