

# Oracle® Cloud

## Known Issues for Oracle Integration 3



F45533-31  
March 2025



Oracle Cloud Known Issues for Oracle Integration 3,

F45533-31

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Primary Author: Oracle Corporation

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# Preface

*Known Issues for Oracle Integration 3* describes issues you may encounter when using Oracle Integration and possible workarounds.

## Topics:

- Documentation Accessibility
- Diversity and Inclusion
- Related Resources
- Conventions

## 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.

## Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

## Related Resources

For more information, see these Oracle resources:

- Oracle Integration documentation on the Oracle Help Center.
- Oracle Cloud at <http://cloud.oracle.com>.

## Conventions

The following text conventions are used in this document.

Convention	Meaning
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.

<b>Convention</b>	<b>Meaning</b>
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

# 1

## Common Issues

Review Oracle Integration common issues.

### Topics:

- [List of Deprecated Native Format Annotations in Oracle Integration 3](#)
- [Recipes Documentation Does Not Reflect Oracle Integration 3 User Interface](#)
- [Instance unavailable for one minute after creation](#)

## List of Deprecated Native Format Annotations in Oracle Integration 3

If you plan to upload custom schemas (from Oracle SOA Suite) to Oracle Integration, the following annotations are deprecated and may be removed in future releases of Oracle Integration. This section only covers the names of the directives that are deprecated. For a detailed description of the directives, see the latest Oracle SOA Suite documentation.

### Schema-Level Directives

The following directives are provided as attributes under the schema. For example:

```
<xsd:schema ... xmlns:nxsd="http://xmlns.oracle.com/pcbpel/nxsd"  
nxsd:version="NXSD" ...>
```

```
nxsd:byteOrder e.g. nxsd:byteOrder="bigEndian" or  
nxsd:byteOrder="littleEndian"  
nxsd:dataLines e.g. nxsd:dataLines="10"  
nxsd:detectLoops e.g. nxsd:detectLoops="false"  
nxsd:eofEqualsEOL e.g. nxsd:eofEqualsEOL="false"  
nxsd:outboundHeader e.g. nxsd:outboundHeader="this is the header"  
nxsd:prettyPrint e.g. nxsd:prettyPrint="true"  
nxsd:readerBufferSize e.g. nxsd:readerBufferSize="2048"  
nxsd:standalone e.g. nxsd:standalone="true"  
nxsd:stream with bytes e.g. nxsd:stream="bytes" (OIC3 only supports  
nxsd:stream="chars")  
nxsd:useArrayIdentifiers e.g. nxsd:useArrayIdentifiers="true"  
nxsd:fieldValidation e.g. nxsd:fieldValidation="true"  
nxsd:validation e.g. nxsd:validation="true"  
nxsd:validateNxsd e.g. nxsd:validateNxsd="true"  
nxsd:xlationMode e.g. nxsd:xlationMode="lax"
```

## Field-Level Directives

The following directives are provided either as `simpleTypes`, `complexType`s, or `element` definitions in the schema. These directives are deprecated and may be removed in later versions of Oracle Integration.

### Array style constructs:

```
nxsd:style="array"  
nxsd:arrayLength="<<length>>" e.g. nxsd:arrayLength="10"  
nxsd:cellSeparatedBy="<<literal>>" e.g. nxsd:cellSeparatedBy="\n"  
nxsd:arrayTerminatedBy="<<literal>>" nxsd:arrayTerminatedBy="#"  
nxsd:arrayIdentifierLength="<<length>>" e.g. nxsd:arrayIdentifierLength="2"
```

### LookAhead constructs:

```
nxsd:lookAhead="<<length>>" e.g. nxsd:lookAhead="100"  
nxsd:lookTill="<<literal>>" e.g. nxsd:lookTill="order"  
nxsd:scan="<<length>>" e.g. nxsd:scan="3"  
nxsd:lookFor="<<literal>>" e.g. nxsd:lookFor="TRUE"  
nxsd:lookForPattern="<<regex pattern>>" e.g. nxsd:lookForPattern=".purchase."  
nxsd:scanLength="<<length>>" e.g. nxsd:scanLength="3"  
nxsd:reportLookAheadError="<<true|false>>" e.g.  
nxsd:reportLookAheadError="true"
```

### Skip constructs:

```
nxsd:skip="<<number of characters>>" e.g. nxsd:skip="10"  
nxsd:skipLines="<<number of lines to skip>>" e.g. nxsd:skipLines="10"  
nxsd:skipUntil="<<skip until characters>>" e.g. nxsd:skipUntil="\n"
```

### List constructs:

```
nxsd:style="list"  
nxsd:itemsSeparatedBy="<<literal>>" e.g. nxsd:itemsSeparatedBy=","  
nxsd:listTerminatedBy="<<literal>>" e.g. nxsd:listTerminatedBy="\n"
```

### Surrounded constructs:

```
nxsd:style="surrounded"  
nxsd:surroundedBy="<<literal>>" e.g. nxsd:surroundedBy="^"  
nxsd:leftsurroundedBy="<<literal>>" e.g. nxsd:leftsurroundedBy="  
{ " nxsd:rightsurroundedBy="<<literal>>" e.g. nxsd:rightsurroundedBy=""  
"
```

### Write constructs:

```
nxsd:write="<<literal>>" e.g. nxsd:write="Mr."  
nxsd:writeMode="before|after" e.g. nxsd:writeMode="before"
```



**Timezone and Date formats:**

```
nxsd:useTimeZone="UTC"  
nxsd:dateFormat="MM-dd-yyyy"
```

**Conditional constructs:**

```
nxsd:choiceCondition="fixedLength" nxsd:length="2"  
nxsd:conditionValue="<<literal>>" e.g. nxsd:conditionValue="PO"
```

**Variable constructs:**

```
<nxsd:variables>  
  <nxsd:variable name="customerZip"/>  
</nxsd:variables>  
<nxsd:variable name="someName" value="someValue" />
```

## Recipes Documentation Does Not Reflect Oracle Integration 3 User Interface

The documentation for many recipes has been updated to provide steps using the Oracle Integration 3 user interface. However, the documentation for some recipes still currently reflects the Oracle Integration Generation 2 user interface.

For a full list of accelerators and recipes currently available for Oracle Integration, see Recipes.

### Instance unavailable for one minute after creation

If you try to open an instance within one minute of creating it, an error occurs.

As a workaround, wait one minute after creating an instance to access it.

# 2

## Integrations Issues

Review Integrations issues in Oracle Integration.

**Topics:**

- [Adapter Issues](#)
- [Integration Issues](#)

## Adapter Issues

Review known issues associated with adapters.

**Topics:**

- [REST Adapter Multipart/Mixed Option Issue](#)
- [Private Endpoints and Oracle Fusion Applications Adapters](#)
- [Oracle HCM Cloud Adapter ZIP File Issues](#)
- [Oracle E-Business Suite Adapter Issues](#)

## REST Adapter Multipart/Mixed Option Issue

If you are using the multipart/mixed option with **XML Schema** or **XML Sample** as your payload format in the REST Adapter and view the Request/Response pages in the Adapter Endpoint Configuration Wizard in edit or view mode, **JSON Sample** is shown as selected. Re-upload your sample payload. Despite **JSON Sample** appearing, this doesn't affect runtime and your XML payload is parsed correctly for mapping.

## Private Endpoints and Oracle Fusion Applications Adapters

When a private endpoint is enabled for an Oracle ERP Cloud Adapter, Oracle HCM Cloud Adapter, or Oracle CX Sales and B2B Service Adapter connection, creation of the endpoint during design time may fail for certain SOAP business objects.

## Oracle HCM Cloud Adapter ZIP File Issues

Note the following issues when using the Oracle HCM Cloud Adapter ZIP file feature:

- A ZIP file that is extracted using the Oracle HCM Cloud Adapter must only contain a single file. If there are multiple files, *only* the file with the most recent time stamp is extracted.
- The supported method for using the Oracle HCM Cloud Adapter ZIP file feature is to first zip your files, and then encrypt them.

## Oracle E-Business Suite Adapter Issues

When using the Oracle E-Business Suite Adapter in an integration, you may encounter the following issues:

- Trading partner setup form does not accept a password with special characters  
The Trading Partner Setup form does not accept a password with special characters. Therefore, the Oracle Integration password should be a combination of text and numbers.  
To resolve this issue, apply the following patches to enable Oracle XML Gateway to accept passwords with special characters:

- For Oracle E-Business Suite Release 12.2, apply Patch 27752692:R12.ECX.C.
- For Oracle E-Business Suite Release 12.1.3, apply Patch 28310667:R12.ECX.B.

- Service invocation fails for certain PL/SQL APIs with table type input parameters

When invoking certain PL/SQL APIs having table type input parameters, the following exception may occur:

```
java.sql.SQLException: ORA-06531: Reference to uninitialized collection
ORA-06512
```

To resolve the exception, pass an empty element in the request corresponding to the table type in the API. For example, when invoking the `PROCESS_BOM` API with table type parameters `P_BOM_REVISION_TBL`, `P_BOM_REF_DESIGNATOR_TBL`, and `P_BOM_SUB_COMPONENT_TBL`, pass the empty tags as a workaround:

1. Export the integration with the mappings for the Oracle E-Business Suite request.
2. Locate the corresponding `.xml` file to change the mapping entries for `P_BOM_REVISION_TBL`, `P_BOM_REF_DESIGNATOR_TBL`, and `P_BOM_SUB_COMPONENT_TBL` as follows:

```
<P_BOM_REVISION_TBL/>
<P_BOM_REF_DESIGNATOR_TBL/>
<P_BOM_SUB_COMPONENT_TBL/>
```

3. Import this modified mapping for the request mapping.
4. Activate the integration and the API should be invoked successfully.

## Integration Issues

Review known issues associated with integrations.

### Topics:

- [Errors in a Tenancy Migrated from Oracle Identity Cloud Service to an Identity Domain](#)
- [Windows 10 Design-Time Issues](#)

## Errors in a Tenancy Migrated from Oracle Identity Cloud Service to an Identity Domain

If your Oracle Integration instance tenancy was migrated from Oracle Identity Cloud Service to an identity domain, you can receive errors when using the OCI Object storage and OCI

Function actions or using a terraform script-generated service instance. These issues *don't* impact tenancies that were always enabled for identity domains.

### **Using OCI Object Storage or OCI Function Error in a Tenancy Migrated from Oracle Identity Cloud Service to an Identity Domain**

If you attempt to use the OCI Object storage action or OCI Function action in an integration, you can receive the following errors. Open a service request (SR) against Oracle Cloud Infrastructure Identity and Access Management (OCI IAM) and request a fix for Jira issue IDCS-152404.

- OCI Object storage action:

```
oracle.tip.tools.adapters.cloud.api.CloudAdapterException:  
Couldn't authenticate while querying OCI Object Storage. You may need  
to enable identity domains for your instance in Oracle Cloud  
Infrastructure.
```

- OCI Function action:

```
Couldn't authenticate while invoking an OCI Function. You may need  
to enable identity domains for your instance in Oracle Cloud  
Infrastructure.
```

### **Using a Terraform Script-Generated Service Instance in a Tenancy Migrated from Oracle Identity Cloud Service to an Identity Domain**

Terraform script-generated service instances don't work. Open a service request (SR) against Oracle Cloud Infrastructure Identity and Access Management (OCI IAM) and request a fix for Jira issue IDCS-152404.

## Windows 10 Design-Time Issues

If you attempt to drag a connection into an integration when using the Chrome browser on Windows 10, the connection is not added. If you use Internet Explorer, a forbidden icon is displayed.

If you disable support for the touch screen and restart the browser, this issue goes away.

# 3

## Oracle Cloud Infrastructure Process Automation Issues

Review Oracle Cloud Infrastructure Process Automation issues in Oracle Integration.

See [Known Issues for Oracle Cloud Infrastructure Process Automation](#).

# 4

## File Server Issues

Review File Server issues in Oracle Integration.

### Topics:

- [Copying Issue Encountered Using WinSCP](#)
- [File Names Limited to 924 Characters](#)
- [Data Removed from Files During Simultaneous Updates](#)
- [Read-Only Users Can Delete Files Using WinSCP](#)

### Copying Issue Encountered Using WinSCP

An issue was encountered when copying files to File Server when using the WinSCP client, where a zero byte file with the same file name was created.

The workaround is to use another SFTP client or delete zero byte file.

### File Names Limited to 924 Characters

If a file name in File Server exceeds 924 characters, a file system error gets logged in File Server.

### Data Removed from Files During Simultaneous Updates

When one or more integrations attempt to update the same file by appending data to it, all data in the file is sometimes removed.

The issue occurs when the integrations attempt to update the file in parallel, leading to multiple integrations changing the file simultaneously. The data removal from the file then can cause one or more integrations to fail because the integrations expect the file to contain data.

The workaround is to update your integrations so that they do not update the same file by appending data to it in parallel. As a best practice, Oracle recommends avoiding simultaneous operations on the same file.

### Read-Only Users Can Delete Files Using WinSCP

A person who has read-only permissions for a directory can edit and delete files in that directory when working with File Server from WinSCP version 5.x.

The workaround is to use a different supported SFTP client or the command line SFTP.

# 5

## Visual Builder Issues

Visual Builder issues in Oracle Integration.

### Topics:

- [Unsupported Features](#)
- [Supported Browsers](#)
- [Upgrade Policy](#)
- [Known Issues](#)

## Unsupported Features

Some Visual Builder features are not supported in Visual Builder service instances enabled in Oracle Integration 3.

Feature	Description
VB instance as a private endpoint	It is not currently possible to provision a Visual Builder instance as a private endpoint.
Processes in Visual Builder	The following Process-related features are not supported: <ul style="list-style-type: none"><li>• Register deployed processes</li><li>• Use of Process Actions in Action Chains</li><li>• Support for Process code snippets</li><li>• Process-related Quick Starts</li></ul> Instead, you can leverage service connections to interact with <a href="#">OCI Process Automation</a> . See <a href="#">Connect to Oracle Cloud Infrastructure Process Automation APIs</a> .
Start or stop a Visual Builder instance in the OCI Console	Once enabled in Oracle Integration 3, you cannot stop or start a Visual Builder instance.
Move a Visual Builder instance to another compartment	This is not supported for Visual Builder instances.
Delete a Visual Builder instance	This is not supported for Visual Builder instances.
Change the node count	This is not supported for Visual Builder instances.

## Supported Browsers

Oracle Visual Builder supports the latest version of the Chrome browser running on Mac OS X and Windows. Other browsers and platforms are not supported.

Applications created using Visual Builder can run on any browser supported by Oracle JET. For details, see [What platforms are supported by Oracle JET?](#)

JavaScript must be enabled for all browsers.

## Upgrade Policy

When you create a new visual app, Visual Builder automatically sets your runtime dependencies to the latest Visual Builder Runtime and JET versions. If you've already staged or published an app, however, it's up to you to decide when to upgrade, as long as you do so within a certain time period.

As a general rule, you can run a published Visual Builder application built on the current runtime version, and continue running it on the three previous versions—but new **Visual Builder runtime** libraries are released with new versions of the **Visual Builder Studio design time** (around four times a year). The Visual Builder design time is only updated twice a year, so it gets only two of those four versions (another reason we recommend using Visual Builder Studio as your design environment). As a result, you need to upgrade every other release in Visual Builder, while in Visual Builder Studio, you upgrade after four releases, with the design time supporting the last three versions.

So if you built your app in 24.10 (for example), Visual Builder supports the app not only on the 24.10 runtime version, but also on 25.01, 25.04, and 25.07. Once 25.10 comes out, however, support for the 24.10 runtime version will drop off, so we'll ask you to upgrade your app before you can work on it in the Designer. If you choose not to upgrade at that time, you run the risk that newer browser versions will break your app. You also won't be able to take advantage of any important security and performance improvements. For all of these reasons, we encourage you to build time into your development cycle to keep abreast of current changes, and to make sure you upgrade your app (you should version it first) **before** support for your current runtime version expires.

## Known Issues

Known issues associated with this release of Visual Builder.

### Known Issues

- [Known Issues in Service Connections](#)
- [Known Issues in Business Objects](#)
- [Known Issues in the Page Designer](#)
- [Known Issues in Creating and Building Projects](#)
- [Known Issues for Live/Staged Apps Post-Upgrade to Oracle Integration 3](#)

## Known Issues in Service Connections

The following issues might affect the behavior of service connections in your applications.

### Known Issues

- [Invoking OIC REST API from Service Connection returns 404 error](#)
- [Authentication failing on OIC service connections](#)
- [Integration Applications not listed in Service Catalog](#)
- [Error testing connection to IDCS REST APIs with OAuth User Assertion Authentication type](#)
- [Create service connection wizards ignore secure header setting](#)



- [Integration endpoint not listed in catalog](#)
- [Error creating service connection to Integration Applications from catalog](#)
- [CORS error when connecting to Oracle Integration](#)
- [Service connection using self-signed certificate not working](#)

## Invoking OIC REST API from Service Connection returns 404 error

If you are using version 119 or later of the Chrome browser, you might see the following error when trying to create a Service Connection to OIC integrations (using the "Select from Catalog") option:

```
"Error: "Network Error Unable to read the integrations from [vb-catalog://backends/ics/ic/api/integration/v1/integrations]. Please check the settings for Integration Applications and verify that Integration Applications server is working."
```

The reason for the error is that starting with version 119, the Chrome browser treats cross-domain redirects and CORS differently than earlier versions.

If you encounter the error, navigate to the "Integration Applications" backend and change the Connection Type to "Always use proxy, irrespective of CORS support" to eliminate the CORS issue.

## Authentication failing on OIC service connections

When creating a service connection to an OIC Integration REST API, connecting to the service might fail if you select an authentication mechanism that is not permitted by the OIC Integration REST service's settings.

If the connection to the service fails with a 401 HTTP error code, check if the authentication settings for the VB Service Connection match the OIC Rest Trigger's Security settings.

If using the catalog for Integration applications, and the Integration Applications backend is configured with Basic Auth, retrieving the catalog will fail. In Oracle Integration 3, all OIC factory endpoints, including the one that retrieves the catalog endpoints, require OAuth authentication. To update the authentication type, navigate to the Integration Applications backend and set the authentication type to "Oracle Cloud Account", or any of the relevant OAuth types. The nearest replacement for Basic Auth is "OAuth 2.0 Resource Owner Password".

If you create the same service connection from an endpoint or specification, updating the authentication type is not needed, provided that:

- If the VB Service Connection to an openAPI based Integration uses "Oracle Cloud Account" or any of the OAuth 2.0 methods for authentication, then the corresponding OIC REST Trigger needs to be configured with either the "OAuth 2.0" or "OAuth 2.0 OR Basic" options.
- If the VB Service Connection to an openAPI-based Integration uses "Basic" for authentication, then the corresponding OIC REST Trigger needs to be configured with either the "Basic" or "OAuth 2.0 OR Basic" options.

If you are creating a Service Connection to an OIC REST endpoint that is not an openAPI-based Integration, then most likely only OAuth will be allowed. For details, see [When is Basic Authentication Supported in Oracle Integration 3?](#) and the relevant OIC documentation.

 **Tip:**

To determine whether your Integration is an openAPI-based integration, check the integration's metadata page (which may look something like `https://OIC_instance/ic/api/integration/v1/flows/rest/ECHO/1.0/metadata/`), which will have swagger and openAPI metadata URLs.

## Integration Applications not listed in Service Catalog

When creating a service connection to an Oracle Integration service, Integration Applications created within an Oracle Integration 3 project are not included in the list of available services in the Service Catalog.

To create a service connection to integrations within a project, the workaround is to either define the specification or define the service endpoint in the Create Service Connection wizard:

1. Open the Create Service Connection wizard.
2. Do either of the following:
  - Select "Define by Specification" and specify the URL of the Oracle Integration 3 OpenAPI/Swagger.
  - Select "Define by Endpoint" and enter the Oracle Integration 3 endpoint URL.

## Error testing connection to IDCS REST APIs with OAuth User Assertion Authentication type

Testing a service connection representing an IDCS REST API with OAuth 2 User Assertion Authentication type in the Test tab will not work. In doing so, you will face an error like:

```
{
  "type": "abcs://proxy_problem/oauth/design_allowed_scope",
  "title": "Invalid URI",
  "detail": "Cannot process \"https://<idcs>.identity.oraclecloud.com/admin/v1/Me\"",
  "status": 400,
  "o:errorDetails": [
    { "type": "abcs://proxy_problem/auth/scope/update", "title": "Invalid service scope",
      "detail": "Cannot process service scope \"urn:opc:idm:t.user.me\" in IDCS, for URI \"
    {1}
    \",
    "status": 400
  }
  ]
}
```

This limitation only exists in the Service Tester (Test tab). Creating a web app and calling the same REST API from the web app works without any issues.

## Create service connection wizards ignore secure header setting

If you are using a backend that is configured with a secure header, and you create a service connection on the backend, you might receive an error when testing the connection. The wizards for creating a service connection from an endpoint and from a specification ignore the security header, which can result in the connection failing.

The workaround is to create and save an example response in the Create Service Connection from Endpoint wizard:

- Open the Create Service Connection from Endpoint wizard.
- Enter the endpoint and other connection details.
- Open the Response tab.
- In the Example text area, enter an example response (for example, {"test" : "abc"}), and then click **Save Example**. This creates a schema for the example.
- Click **Create** to create the service connection.

If you now test the connection to the endpoint, the connection is successful, and you can save the response. You can now save the actual response, which will correctly update the response schema of the service connection.

## Integration endpoint not listed in catalog

When creating a service connection from the catalog for Oracle Integrations, the endpoint you want to use might not be listed if you have more than 100 active integrations. Visual Builder currently fetches the first 100 integrations in the catalog, and then extracts the integrations that have a valid swagger endpoint to be displayed in the catalog.

If your integration isn't listed, the workaround for creating the service connection is to create it from a specification:

1. Locate the metadata URL for the OIC integration, and open the metadata URL in the browser. The metadata page will provide you with the swagger URL (the metadata URL will be similar to `https://<OIC base URL>/ic/api/integration/v1/flows/rest/ECHO/1.0/metadata`, and the swagger URL will be similar to `https://<OIC base URL>/ic/api/integration/v1/flows/rest/ECHO/1.0/metadata/swagger`). Note that Visual Builder can only consume swagger-based integrations directly via the catalog or the specification flow.
2. In Visual Builder, open the Create Service Connection wizard, and then select **Define by Specification**.
3. Enter a service name, and then select **OpenAPI/Swagger** as the API Type.
4. In the URL field, select the "Integration Applications" backend (backends/ics), and then enter the rest of the URL after the backend (for example, `ic/api/integration/v1/flows/rest/ECHO/1.0/metadata/swagger`). You can click the info icon to see the full form of the URL.
5. In the Metadata Retrieval Option field, select **Copy full OpenAPI to the application**. Click **Create**.  
If you see a dialog "Compute missing operation ids", this means Visual Builder has detected operation ids missing from the swagger or openapi from OIC. Select "Compute missing operation ids", and then proceed.

You can check if the created service connection works in the Test tab.

## Error creating service connection to Integration Applications from catalog

When creating a service connection to Integration Applications from the catalog, creating the connection might fail with the following error:

```
Error "Type 'Operation' can't map property 'X-OIC-CONSUMPTION-WARNING-CASDK-0063' to a valid type. Verify that the property name is valid in this context.
```

The error is caused by an invalid swagger coming from OIC. The invalid swagger prevents Visual Builder from creating the service connection.

## CORS error when connecting to Oracle Integration

If you are using version 119 or later of the Chrome browser, you might see the following error when trying to configure a connection to services in Oracle Integration:

```
"Error: Cross-origin resource sharing error: Missing Allow origin header"
```

The reason for the error is that starting with version 119, the Chrome browser treats cross-domain redirects and CORS differently than earlier versions.

If you encounter the error, navigate to the "Integration Applications" backend and change the Connection Type to "Always use proxy, irrespective of CORS support" to eliminate the CORS issue.

## Service connection using self-signed certificate not working

Your staged or published apps might stop working if they use service connections with self-signed certificates and the certificates have expired. Any certificates issued after 2020-09-01T00:00:00.00Z will automatically expire 398 days after they have been issued. If your apps use certificates issued before 2020-09-01T00:00:00.00Z, the certificates will not expire, but you should update them with a newer certificate.

To avoid disruptions, you should plan regular updates to refresh the self-signed certificates before they expire (for example, every 6 months). It's not recommended to use self-signed certificates in production apps.

## Known Issues in Business Objects

You might encounter the following issues when working with business objects in your applications.

### Known Issues

- [New business objects not selected in Business Object Resource Editor](#)
- [Problems when saving business object diagram as image](#)
- [Creating new record using REST API results in empty response](#)

## New business objects not selected in Business Object Resource Editor

When you create new business objects from a file (CSV, zip, xls) using the Import Business Object wizard, the business objects might not be selected when you open the Business Object Resource Editor in the Endpoints tab, but the available new business objects should be selected by default when you open the editor.

If the business objects are not selected by default:

1. Reload your browser. After reloading the browser, the business objects should be selected in the Business Object Resource Editor.
2. Choose the business objects you want to expose.
3. Click Apply Defaults, then click Save.

## Problems when saving business object diagram as image

When trying to save a business object diagram as an image, you might see the following issues:

- It's not possible to save the diagram as a PNG image.
- When saving the diagram as a SVG file, the icons representing the business object field types are not displayed correctly in the saved image. All the icons are rendered as "broken" images.

The workaround to save a diagram where the field icons are intact is to use the zoom in/out tools to make the entire diagram visible, and then to take a screen shot of the diagram using a screen capture application.

## Creating new record using REST API results in empty response

If your Visual Builder instance is configured to use another Oracle DB, when you use the REST API to insert a new record in a table you might see a response that contains no data, even though the insert is successful and the call returns the expected status (HTTP 201).

This can happen when a business object has a primary key field defined as `<column name> NUMBER GENERATED BY DEFAULT ON NULL AS IDENTITY ....`

The workaround is to perform the following steps to modify the business object's primary key field:

1. Open the application in Visual Builder.
2. Open the business object you want to modify.
3. Open the **Fields** tab.
4. Select the primary key field.
5. In the Sequence Name dropdown list, select the appropriate internal sequence used by the database to create new records in the table.

If the database schema has only one table with an identity column, it should be clear which sequence to select (the sequence will have an internal looking name). If there is more than one table with an identity column, you can use the following query to locate the sequence the database created for the column:

```
select data_default from SYS.user_tab_columns where table_name = <table name used by the BO> and column_name = <primary key field>;
```

After the Sequence Name property is set to the the correct sequence, Visual Builder will select `nextval` from that sequence before inserting the record into the table, and will use that value in the primary key column.

## Known Issues in the Page Designer

You might encounter the following issues when working with the Page Designer.

### Known Issues

- [Component not loading in page after upgrading application](#)
- [Filter field populated with cached data](#)

## Component not loading in page after upgrading application

After upgrading your application, some components might not load data correctly when bound to an ADP variable, if the application/page's JSON / JavaScript files contain configurations or code that returns invalid JSON data.

ADP data in a JSON file needs to be assigned a valid JSON value. ADP data that is assigned a value from the result of a previous action (for example, a call module action or REST action), must also be valid JSON. When a non-JSON value (such as JavaScript values like NaN or Infinity) is provided, you should choose the correct JSON value that should be used and then replace it.

Visual Builder upgrade tools might not be equipped to correctly upgrade the application when invalid JSON is present.

The workaround is to ensure that all values in JSON files are valid JSON.

## Filter field populated with cached data

When using the Filter field in the Designer, Chrome's Autofill form data feature might populate the field in some panels and dialogs with cached data. For example, when using the Filter field in the Navigator, the field might display your cached email address. If cached data is appearing in the field, clear Chrome's cached Autofill form data:

1. Click the three dots at the top right of the Chrome browser window to open the Chrome options menu.
2. Select **More tools** > **Clear browsing data** in the menu.
3. Open the **Advanced** tab in the Clear browsing data dialog box.
4. Select **All Time** in the Time range dropdown list.
5. Select **Autofill form data** in the list. Click **Clear Data**.

## Known Issues in Creating and Building Projects

You might encounter the following issues when creating and building Visual Builder projects.

### Known Issues

- [Staging PWA app fails in government realm](#)
- [Update deprecated Oracle SaaS application template theme](#)
- [Cannot switch theme in application settings](#)
- [Error when creating new version of application](#)

- [Camera component no longer offers camera capture option on Chrome browser on Android 14](#)
- [Loading JSON using Text module stops Persistence Toolkit working](#)
- [Error 502 Bad Gateway when deploying visual app](#)

## Staging PWA app fails in government realm

Staging a PWA app might fail on instances in government realms.

## Update deprecated Oracle SaaS application template theme

The sample **SaaS R13 LightBlue theme (ApplicationsCloudUITheme)** is deprecated as it relies on the deprecated Alta theme. If any of your existing apps use this theme, you are strongly encouraged to convert them to use the [Redwood or Stable themes](#), and then customize the theme using CSS variables.

The sample SaaS R13 LightBlue theme update for Oracle Visual Builder 22.10 is the final planned update.

For existing apps that still use the SaaS R13 LightBlue theme, you'll need to apply the update before running the app with Oracle Visual Builder 22.10. To upgrade the theme, download the updated version of the Oracle SaaS R13 theme files (*ApplicationsCloudUI-n.n.n.zip*) from the [vbcs-samples repository on GitHub](#), import the updated theme resources into your application, and select the updated theme in your web app's Settings editor. For details on the upgrade steps, see [Upgrading the Sample R13 SaaS LightBlue Theme for Visual Builder](#).

## Cannot switch theme in application settings

You might not be able to upgrade an application's theme because the theme dropdown list is not available or is not working properly.

If you run into this situation, the workaround is to upgrade the application:

1. Upgrade the app version to the next higher version (for example, from version 21.07 to 21.10).
2. Upgrade the application's theme.

## Error when creating new version of application

You might see errors or have problems when creating new versions of an app if the app has too many obsolete versions. Visual Builder limits the total number of versions of an app to 100, which includes development, staged and obsolete versions. You cannot create a new version if it will result in the limit being exceeded.

Each time you publish a new version of an app, the previous version becomes obsolete. On the Visual Builder Home page, you can see the total number of app versions in the Versions column, next to the number of the current version.

To remove obsolete app versions, you must first move them to the Trash, and then permanently delete them. For details, see [Delete a Visual Application](#).

## Camera component no longer offers camera capture option on Chrome browser on Android 14

When running an app in the Chrome browser on devices running Android 14, invoking the camera component from the app to capture a photo might not work correctly.

The workaround is to edit the File Picker's Accept property in the app to add "text/plain", and then republish the app.

## Loading JSON using Text module stops Persistence Toolkit working

If you add JSON resources to your app, as shown in these code snippets, the Oracle Offline Persistence Toolkit stops working.

```
// Add resource
define([
  'text!resources2/js/test.json'
], function(

// Where resources2 is defined as:
  "requirejs": {
    "paths": {
      "resources2": "{{ location.pathname +
(window.vbInitConfig.BASE_URL_TOKEN ?
      window.vbInitConfig.BASE_URL_TOKEN + '/' : '') +
'resources'}}"
    }
  },
```

The following error occurs when the app tries to load the Oracle Offline Persistence Toolkit.

```
Failed to load offline handler from /ic/builder/rt/otf/2.0/webApps/foo/
version_279023731935549663/app-flow.js: Error: importScripts failed for /ic/
builder/rt/otf/2.0/
webApps/foo/version_279023731935549663/app-flow.js at /ic/builder/rt/otf/2.0/
webApps/foo/versio
n_279023731935549663/app-flow.js
https://requirejs.org/docs/errors.html#importscripts
```

Two possible workarounds exist to address this issue:

1. Wrap the JSON file in a JavaScript file and load the JavaScript file.
2. Use the Fetch API to load the JSON file in the offline handler.

## Error 502 Bad Gateway when deploying visual app

When deploying an application to a Visual Builder instance, you might see the error message 502 Bad Gateway, and the build log might state that deployment failed.

If you see this error when deploying the app using the grunt vb-deploy task, the workaround is to update package.json so that the grunt build uses the grunt-vb-build-2504.0.28.tar.gz version of the grunt-vb-build library.



If you see this error when deploying the app through the pipeline, verify if the app was deployed correctly to the target instance. In some cases, the error message is displayed though the app was deployed successfully, in which case you can disregard the error message. There is no current workaround if the app was not deployed.

## Known Issues for Live/Staged Apps Post-Upgrade to Oracle Integration 3

The following issues might result in live or staged apps not working correctly after upgrading to Oracle Integration 3.

For details about the tasks you need to perform before and after upgrading to Oracle Integration 3, see [Upgrade from Oracle Integration Generation 2 to Oracle Integration 3](#).

### Known Issues

- [Cannot access non-catalog Integration REST APIs in app](#)
- [Visual Builder apps on obsolete VB runtime versions](#)
- [Unable to access VB business object URLs from service connections in live app](#)
- [Custom code accessing pre-upgrade Visual Builder URL failing](#)
- [PWA app no longer receives updates automatically after upgrade to Oracle Integration 3](#)

## Cannot access non-catalog Integration REST APIs in app

Service connections to the Oracle Integration design-time (or factory) APIs, created using the endpoint flow in Visual Builder, that are not listed in the catalog, will not work after the migration, and you need to update them.

An example of such an endpoint is a lookup endpoint (see [Lookups REST Endpoints in REST API for Oracle Integration 3](#)). When you test them in the service connection's Test tab, these endpoints will typically give error code HTTP 403, with the error "Unable to verify URL against allowed list". See [SendRequest in REST API for Oracle Integration 3](#) for more on the design-time URL and factory APIs.

When updating backends and service connections, bear in mind that Oracle Integration 3 does not accept Basic Auth, and recommends OAuth. For more details, see [When is Basic Authentication Supported in Oracle Integration 3?](#)

To rework these service connections using a custom backend:

1. Create a custom backend called `icsFactoryApi` (for example). For the URL, use the design-time URL (for example, `https://design.integration.region.ocp.oraclecloud.com`), and use OAuth authentication (generally OAuth 2.0 Resource Owner Password). Set the connection type to "Always Use Proxy" (recommended).
2. For existing service connections based on design-time APIs:
  - a. Change the URL from `vb-catalog://backends/ics` to point to `vb-catalog://backends/icsFactoryAPI`. (If the URL is `https://<integration_base_url>`, then replace `<integration_base_url>` with `vb-catalog://backends/icsFactoryAPI`).
  - b. Navigate to the Request tab, and then add the static query parameter of "integrationInstance", and add the appropriate value.
3. The static query parameter introduced this way becomes part of the visual application code. This parameter will be different for different Integration instances, so you would need to update the parameter if you import the app to another instance (for example, a PROD

instance). If you use a build pipeline, you would need to modify the parameter in the packaging jobs.

## Visual Builder apps on obsolete VB runtime versions

Applications that have very old VB runtime versions might break when upgraded to Oracle Integration 3 if artifacts in the app contain old static references. To avoid this, Oracle recommends that you upgrade the applications to the supported VB runtime and JET versions prior to upgrading to Oracle Integration 3. To understand which VB runtime versions are supported and how to upgrade your app, see [Upgrade Policy](#) and [Upgrade your app](#). If you cannot do this prior to upgrading to Oracle Integration 3, you will need to restage or republish the application after upgrading to Oracle Integration 3.

## Unable to access VB business object URLs from service connections in live app

After upgrading a Visual Builder instance on Oracle Integration Gen 2 to Oracle Integration 3, your live app might stop working if the app is still trying to access business objects on the Oracle Integration Gen 2 instance.

The workaround is to update the service definition to the new host name, and then re-deploy the app:

1. In the Services pane, open the service connection that is representing the Business Objects using the older Visual Builder URL.
2. In the Servers tab, click **Default Server** to open the service definition used by the connection.
3. In the Servers tab for the service definition, click **Edit** to open the Edit Server dialog.
4. In the Instance URL field, update the host name to the host name of your Visual Builder instance on Oracle Integration 3. Click **Save**.
5. Re-deploy your app.

## Custom code accessing pre-upgrade Visual Builder URL failing

To facilitate exporting and importing Visual Builder applications between different VB instances, the applications typically don't contain any references to the URL of the Visual Builder instance. However, if you have written custom code in your application that references a Visual Builder instance URL, accessing this URL might fail when your instance is upgraded to Oracle Integration 3. In this case, you will need to update the references to the old, pre-upgrade Visual Builder URL with the new Visual Builder URL.

## PWA app no longer receives updates automatically after upgrade to Oracle Integration 3

PWA apps installed on user devices no longer receive automatic updates after your Visual Builder instance is migrated from Oracle Integration Gen 2 to Oracle Integration 3.

When users install PWA apps, the URL for your Visual Builder instance is embedded in the app. If the embedded URL points to a Visual Builder instance in Oracle Integration Gen 2, the app will no longer receive updates because redirecting to the URL for the Visual Builder instance in Oracle Inetegration 3 is not possible.

To receive updates to the app, the user needs to re-install the PWA app from the new Visual Builder location in Oracle Integration 3.