



# ANSYS ACT 2021 R1 Known Issues and Limitations

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# ANSYS ACT 2021 R1 Known Issues and Limitations

This document lists known issues and limitations in the ACT 2021 R1 release.

## Note:

- This document might contain entries that do not appear in “Known Issues and Limitations” in the *ACT Developer’s Guide* because they were found after this guide’s publication.
- For known issues and limitations specific to Mechanical APIs, see “Mechanical API Known Issues and Limitations” in the *Scripting in Mechanical Guide*.

## Third-Party Solver fails to display in Workbench

A third-party solver exposed through the `<solver>` simdata tag may not display in the Workbench **Toolbox** if the XML file specified for the attribute `system_template` relies on a `ValidationCode`. To obtain a correct `ValidationCode` value compatible with recent licensing system upgrades, contact your local support channel.

## ACT panels may not fill entire dialog width

Some ACT panels, such as the **ACT Console** and **ACT Debugger**, may not “spring” the entire width of the parent dialog. Panel behavior and user interaction are unaffected.

## Reloading a Workbench extension while in use

A Workbench extension can define new systems to insert in the **Project Schematic**. Reloading such an extension after creating new system instances will result in unexpected behavior. Before reloading, delete all extension-related systems or save and reset the project.

## Images in HTML components do not display unless the file URL protocol is used

An image in an HTML component does not display unless the file URL protocol (`file:///`) is placed before the file path. In previous versions, an absolute path could be used to display an image in an HTML component:

```
img src="c:/Users/User1/myimage.jpg"
```

However, now the `file:///` protocol must be placed before the file path:

```
img src="file:///c:/Users/User1/myimage.jpg"
```

## After installation, the ACT Start Page sometimes appears blank

If after installing ANSYS products, you see that the **ACT Start Page** is blank, right-click inside the blank window and select **Reload**.

## VPN conflicts can arise if IP information is retained

When using a VPN, IP information can be retained, even after turning off the VPN and rebooting the computer. The workaround is to release the IP configuration using the following script:

```
echo Releasing IP
ipconfig /release > NUL
echo Acquiring new IP
ipconfig /renew > NUL
```

## Enabled FIPS security policy

When running with an enabled FIPS security policy, ACT User Interface elements are not supported.

## Workbench customization

When using ACT to create Workbench custom workflows, not all optional attributes for the tag `<property>` are currently supported. For example, `visibleon` is not supported.

## For DesignModeler, the ACT Console, Extensions Log, and ACT wizards are supported on Windows platform only

For DesignModeler, the **ACT Console**, **Extensions Log**, and ACT wizards are supported only when DesignModeler is running on the Windows platform.

## ACT for Fluent is supported on Windows platform only

When using ACT for Fluent customization, ACT is supported only when Fluent is running on the Windows platform.

## For Fluent, the initial attempt at opening the Extensions Log from the ACT Start Page causes an unexpected shutdown

In a new Fluent installation, the initial attempt at opening the **Extensions Log** from the **ACT Start Page** does not display the log dialog box. Instead, Fluent shuts down unexpectedly. However, subsequent attempts at opening this dialog box are successful.

## ACT Debugger and App Builder are supported on Windows platform only

The **ACT Debugger** is supported only on the Windows platform from the **Project** page in ANSYS Workbench and from DesignModeler and Mechanical. The **ACT App Builder** is supported only on the Windows platform.

## ACT App Builder is not supported in ANSYS Electronics Desktop

The **ACT App Builder** is not supported in ANSYS Electronics Desktop (AEDT). Clicking the **Open App Builder** icon on the **ACT Start Page** in AEDT will not start the App Builder.

## Limited ACT localization support

Localization of ACT is limited to the languages currently supported in ANSYS Workbench. This limitation does not apply to the ability to manage various languages within the extension. For example, the property names created by an extension do not have to be in the same language as the current activated language in Workbench.

There is no mechanism to integrate localization for the property names defined by an extension. To manage different languages for your property names, you must develop localization yourself. Both regional settings based on the "." or the "," decimal symbol are available. However, the implementation of the extension should use the "." symbol for any value defined at the XML or IronPython level.

## Default location of ACT extensions for SpaceClaim

The default location in which SpaceClaim is to look for ACT extensions is %ANSYSversion\_DIR%\scdm\Addins. However, SpaceClaim is not currently recognizing this location. Workarounds include either installing extensions in %APPDATA%\Ansys\v202\ACT\extensions or using the gear icon on the graphic-based **Extension Manager** accessed from the **ACT Start Page** to add the folder for the default location or the folder to which you installed the extension.

## Mechanical read-only mode

ACT does not support Mechanical read-only mode. If you launch Mechanical and see read-only mode, avoid interactions with ACT extensions and features as changes could result in unexpected application behavior.

## Captions for custom objects cannot contain a space followed by a number

When renaming a caption for a custom object, do not follow a space with a number. While no error appears, the caption is not renamed. **Workaround:** When renaming a caption for a custom object, always follow a space with a non-numeric character before using a number. For example, rather than renaming a caption to "my custom object 2", rename it to "my custom object n2".

## ExtAPI.Extension.Attributes does not support OrderedDict values

When `ExtAPI.Extension.Attributes` is used to store a value of type `OrderedDict`, an empty dictionary is stored instead of the supplied value.

## Saving dictionaries in attributes slows the opening of Mechanical significantly

When loading a project with custom ACT objects whose attributes have been filled with dictionaries, it takes Mechanical much more time to open. In cases where these dictionaries are very large, Mechanical may be unable to recreate results as ACT results, displaying user-defined results instead.

## Accessing `UserInterface` on `ExtAPI` in Mechanical from an `onInit` callback or globally causes errors

Accessing `UserInterface` on `ExtAPI` in Mechanical from an `onInit` callback or globally causes errors to be thrown in the **Extensions Log File**, resulting in instability. **Workaround:** Access `UserInterface` from an `onload` callback or any place other than the `onInit` callback. Keep in mind that an `onLoad` callback is invoked only when Mechanical is started. Reloading an extension using the button in the GUI will not invoke an `onLoad` callback.

## Electronics Desktop module `CoreGlobalScriptContextFunctions` unavailable

The Electronics Desktop module `CoreGlobalScriptContextFunctions` is unavailable in ACT. The following functions are available only through the **Command** window in Electronics Desktop:

- `AddErrorMessage`
- `AddFatalMessage`
- `AddInfoMessage`
- `AddWarningMessage`
- `LogDebug`
- `LogError`

As alternatives, you can use the following:

- `oDesktop.AddMessage`
- Python logging functionality (for example, `"import logging"` and use the logging module)

## Limitations Unique to Linux

If you are running on Linux, you should be aware of the following limitations:

### Starting the ACT Start Page can cause an unexpected shutdown

When you start the **ACT Start Page** on Linux, an unexpected shutdown can occur. On some Linux operating system variants such as Red Hat, removing the package `totem-mozplugin` resolves the issue:

```
yum remove totem-mozplugin
```

### **Some Linux versions contain a JPEG library that conflicts with the ANSYS package**

In some Linux versions, a JPEG library conflicts with the ANSYS package. When using ACT wizards with JPEG images, this conflict can produce an SIGSEV error and an application crash. If this occurs, you can convert your images to other file formats such as GIF or PNG.

### **Graphics API issues in ANSYS DesignModeler and Mechanical when no extensions are loaded**

When no extensions are loaded, there are some limitations on the `Graphics` API from the **ACT Console** in ANSYS DesignModeler and Mechanical. For instance, the `Factory2D` does not work. Therefore, you should load one or more extensions before using the `Graphics` API from the **ACT Console**.