ANSYS ACT 2019 R2 Known Issues and Limitations

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This document lists known issues and limitations in the ACT 2019 R2 release.

Note:
- This document might contain entries that do not appear in "Migration Notes" 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*.

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.

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.

ACT Debugger is 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.

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\v194\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.

Creating mesh data for degenerate elements with dropped mid-side nodes

The method `CreateMeshData()` does not treat correctly the degenerate elements with dropped mid-side nodes. These kinds of elements are located at the boundary between a quadratic mesh and a linear mesh. If you want to use `CreateMeshData()` on a model where the different meshes do not have the same mesh order, it is advised to remesh the model to have the same order for the different bodies.

Electronics Desktop module CoreGlobalScriptContextFunctions unavailable

Projects that stored the following types in attributes prior to 2019 R2 will not save or resume those attributes properly in 2019 R2:
- `AddErrorMessage`
- `AddFatalMessage`
- `AddInfoMessage`
- `AddWarningMessage`
- `LogDebug`
- `LogError`

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