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SIMULATION SOLUTIONS

physics on screen

October 11, 2021

BETA CAE Systems announces the release of SPDRM v1.6.1

About this Release

BETA CAE Systems announces the release of SPDRM v1.6.1.

This version delivers a number of enhancements and fixes to the users of the most advanced Simulation Process Data and Resources Management software.

The most important enhancements and fixes are listed below.

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Enhancements and known issues resolved

Enhancements

Process Library

Machine Learning: A new plugin is introduced to enable the training of a ML Predictor for the detection of Embedded Clips on remote resources (BAL machine). Such Predictor can be used in ANSA by the ANSA functionality Isolate > Embedded Clips. The training task is initiated through KOMVOS, from the Actions > Machine Learning menu.
The BAL machine that will be used for the training process must meet the following requirements:

- Latest ML Toolkit installed (requires special license feature to run)
- NVIDIA GPU Graphics card with at least 8GB of VRAM (the more VRAM, the faster training will be) and CUDA 11 support.

More information on the plugin is given in the Installation Guide and in the SPDRM Users' Guide.

License Management

From this version onward, the SPDRM Client can release its license credits when it is idle. This way, the SPDRM user does not need to close the SPDRM Client only to release the license. This change affects interactive (GUI) SPDRM Client sessions only.

Also, from now on, the idle timeout should be defined (in minutes) in the administrator options of BETA_LM (*license.opt*) through the key *'IDLE_USER_TIMEOUT'*, similarly to all other BETA products.
Due to this change, the corresponding key in the SPDRM Client's configuration file (taxisprops.xml) turns obsolete.

Script API

The new script function *' process.deleteInstanceWorkflow'* has been implemented to enable the deletion of a workflow instance.

The values *start_date, end_date* and *duration* (that correspond to the statistics of a workflow instance) are now returned by the script function *'process.getWorkflowAttributes'*, in addition to the values already returned by the function.

REST API

The *'dm/dmobjects/{id}/contents'* REST endpoint now returns *'400 Bad Request'* in case of invalid requested DM Object.

System Configuration

The new configuration key *'rest_auth_type'* in the SPDRM server's configuration file (*taxis.conf*), controls the authorization type (*SPDRM*, or *LDAP*) during login through REST API.

Known issues resolved

Data Tree

The status of the DM Tree filters was not consistent with the actual filters applied to tree objects, after restarting the SPDRM Client, or switching role / user.

Data Search

The query for DM items could fail in case of Oracle database with large amount of attributes stored.

Data Lifecycle

The system could throw an error while modifying the filtering options in the *'Lifecycle Graph'*.

Process Design / Execution

An unexpected error could occur while attempting to update the drawing of already deleted workflow components.

Process Observer / HPC submission

The JMA (Job Monitor Assistant) service could stop working due to faulty behavior of the inactivity timer, when the 'idle_user_timeout' option was enabled in the SPDRM Client's configuration file (*taxisprops.xml*) .

Web Services – API

The update of the data model in SPDRM 1.6.0 could end up to the generation of problematic DM paths for Subsystems. This problem would only affect the cases where the Subsystem properties in the new data model were different from those defined in the default data model.

REST API

The *'dm/dmobjects/{id}/contents'* REST endpoint would fail to return the contents of subsystem.

For more details about the new software features, enhancements and corrections please, refer to the Release Notes document.

Documentation Updates

Updated Documents

Updated installation guide, scripting API guide and user's guide.

Supported Platforms and System Requirements

The server software of SPDRM is currently available on Linux and MS Windows 64bits.

The client software of SPDRM is running under 64bit flavours of Linux and MS Windows.

The software requires a different license key to the rest of the products of BETA CAE Systems. This license key should be incorporated

into the same license file, if such is already installed, and requires beta_lm, the proprietary license manager of BETA CAE Systems.

For details, refer to the System Requirements document.

Download

Where to download from

Customers who are served directly by BETA CAE Systems, or its subsidiaries, may download the new software and documentation from their account on our server. They can access their account through the "sign in" link at our web site.
Contact us if you miss your account details. The Downloads menu items give you access to the public downloads.
Customers who are served by a local business agent should contact the local support channel for software distribution details.

What to download

All files required for the installation of this version reside in the folder named: "**SPDRM_v1.6.0**" and are dated as of **October 11, 2021**.

These files should replace any pre-releases or other files downloaded prior to that date.

The distribution of this version of SPDRM is packaged in one, single, unified installation file that invokes the respective installer and guides the procedure for the installation of the required components (i.e. SPDRM server and client).

For the installation of the software on each platform type, download from the respective folders, the .tar.gz file for Linux or the .zip file for Windows.

Earlier software releases are also available in the sub-directory called "Previous_Versions" or in a folder named after the product and version number.