

# ModelCenter 2023 R1 with optiSLang Technology

## Overview

ModelCenter 2023 R1 is released and available for customers to download at Download Center as of March 9<sup>th</sup> 2023. In MC 23 R1 release, Noesis Algorithms (old algorithms) have been replaced with optiSLang (oSL) optimization algorithms in ModelCenter.

Please refer to the FAQs below and feel free to reach out to product management if you have any additional questions.

## General

1. *What's the difference between MC Premium/Enterprise North American SKU and the default MC Premium/Enterprise SKU in the pricelist after MC 23 R1 release?*

The old version of ModelCenter Premium/Enterprise for a North American customer is moved to the legacy price list. The now available ModelCenter Premium/Enterprise is the default ModelCenter version available to sell globally (including North America).

2. *Are MC global and MC default SKU are the same after MC 23 R1 release?*

Yes, the ModelCenter version available is now the default ModelCenter version available to sell globally (including North America).

## Technical

1. *What are the optiSLang optimization algorithms in MC 23 R1 release?*

ModelCenter 2023 R1 comes with the following optiSLang optimization algorithms:

- NLPQLP (Nonlinear Programming by Quadratic Lagrangian) Algorithm
- EA (Evolutionary Algorithm)
- CMA (Covariance Matrix Adaption) Algorithm
- PSO (Particle Swarm Optimization) Algorithm
- OCO (One-click-Optimizer) Algorithm

2. *Does MC 23 R1 release have ROMs (Reduced Order Models)?*

Yes, ModelCenter 23 R1 release comes with Kriging ROM, RBF (Radial Basis Function) ROM, and RBF Fast ROM.

3. *Does MC 23 R1 release have an adaptive DOE (Design of Experiments)?*

Yes, ModelCenter 23 R1 release comes with adaptive DOE from optiSLang technology.

4. *Are the optiSLang algorithms better than Noesis Algorithms?*

optiSLang algorithms are comparable to the Noesis Algorithms with similar performance and optimization accuracy.

## **/ New Sales**

1. *Does ModelCenter 2023 R1 by default come with optiSLang technology?*

Yes, ModelCenter 2023 R1 comes with optiSLang algorithms.

2. *Can we sell the ModelCenter North American SKU to a new customer?*

No, we cannot sell ModelCenter North American SKU to a new customer.

## **/ New Sales (Add-on)**

1. *Can we sell the ModelCenter North American SKU to existing customers after 2023 R1 release?*

Yes, but only if it's absolutely necessary for the existing customer to use Noesis Algorithms in ModelCenter North American SKU. There are royalties associated for the new sales of ModelCenter North American SKU.

## **/ Renewal Sales (Lease or TECS)**

1. *Where can I find the old ModelCenter North American SKU in the price list if the existing customer needs to continue using the Noesis Algorithms?*

ModelCenter North American SKU can be found in the legacy price list after March 13<sup>th</sup> 2023.

2. *Do existing customers need to install a new license file to run optiSLang algorithms in MC 23 R1?*

Yes, existing customers need to install a new license file to run optiSLang algorithm in MC 23 R1.

3. *Do existing customers need to run a separate installer to run Noesis Algorithms in MC 23 R1?*

Yes, a separate installer is required to install the Noesis Algorithms in MC 23 R1 and the subsequent releases.

4. *How should we assess the existing customers' need to access the Noesis Installer?*

The existing customer should have a valid reason to continue using Noesis Algorithms. For instance, a customer might have an existing project which requires them to use Noesis Algorithms. It is recommended that you confer with the ACE (Ansys Customer Excellence) team to understand the need.

5. *Who should we request permission from to give customers access to the separate Noesis Installer?*

The sales team sends requests to the ModelCenter Product Management team for approval and to help the customer with the Noesis Installer.

## **/ Miscellaneous**

1. *What if a customer wants to get an older version of ModelCenter for audit purposes?*

Request older versions of ModelCenter from the ModelCenter support team. Access to the previous versions of ModelCenter with the Noesis Algorithms will be available for 3 years, i.e., until end of 2025. If the customer needs support after that, permission will depend on Noesis approval.