

Noesis Solutions redesigns Optimus 2023.2 enhancing its automation features to increase efficiency & reduce computational costs

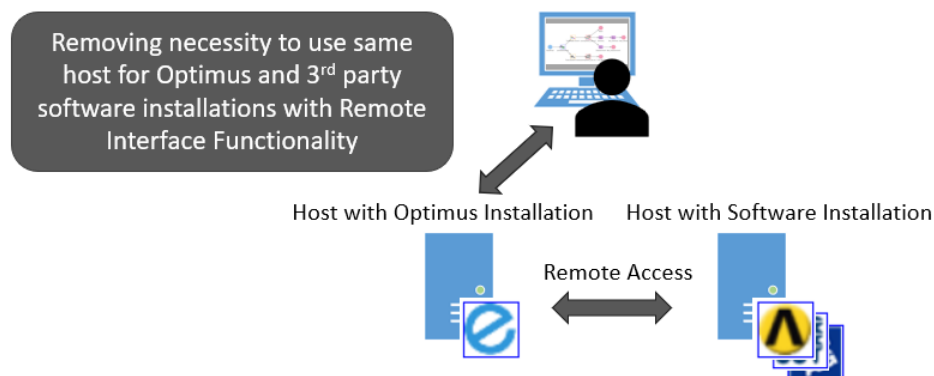
- *With the new update, Optimus enables remote access to software interfaces to effortlessly run them from anywhere and introduces efficient optimization tools to reduce computational costs and extends access to existing data.*

Leuven, Belgium, October 31, 2023: Noesis Solutions, a trusted digital engineering partner, announced latest updates to their automation and optimization tool, Optimus. The latest updates include the availability of remote access to interfaces, reducing computational costs with the introduction of Multi-Fidelity Efficient Global Optimizer (MFEGO), and enhances the existing optimization capabilities with easy, fast, and scalable multi-objective optimization algorithm - Multi-Objective Lighthouse algorithm and introduction of nvision interface, an AI-powered surrogate modelling tool by Noesis Solutions.

With over two decades of pioneering innovation, Noesis Solutions has gained global recognition as a leading digital engineering innovation partner for top-tier companies, driving designs with their cutting-edge optimization, collaboration, simulation data analytics, and AI-driven tools. Commenting on the latest release, Christine Schwarz, Product Owner – Optimus, Noesis Solutions says, “Optimus 2023.2 brings new features that strengthen Noesis Solutions’ automation and optimization capabilities by reacting to customers’ increasing heterogeneous networks, introducing new optimization solutions targeting reduced computational costs, and improving the access to existing files and results.”

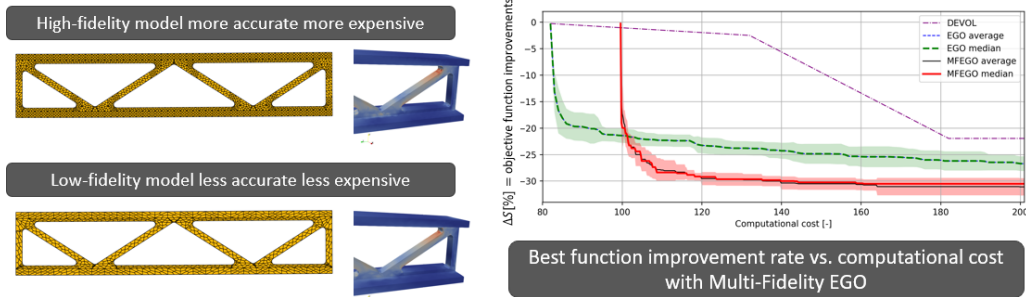
Key Features of Optimus 2023.2 includes:

1. **Remote access to interfaces:** Optimus 2023.2 introduces remote access to interface functionality, that allows users to remotely control and interact with various 3rd party software tools. This new feature removes the necessity of a physical installation of the interface software on the local host and enables access to these interfaces through a remote system from anywhere. The connection to the remote machine hosting the software installation from Optimus 2023.2 is realized using a Parallel System, that helps orchestrate engineering workflows by transferring the necessary files and packages to the remote machine automatically.



2. **Multi-Fidelity EGO:** Modern engineering design processes are challenged by the need to incorporate data coming from different sources into unique and consistent predictive models. With the introduction of the new Multi-fidelity Efficient Global

Optimizer (Multi-Fidelity EGO) in Optimus 2023.2, the users can achieve reduced simulation and analysis costs and simultaneously improve the final design quality. This optimizer will consider simulations with different fidelity levels, adaptively select the sampling location, and improve the accuracy of the optimization while reducing the computational costs.



3. **Multi-Objective Lighthouse:** The Optimus 2023.2 release is introducing the integration of a new multi-objective Lighthouse algorithm, an easy, fast, and scalable multi-objective algorithm, to enhance the existing optimization capabilities of Optimus. In addition to high performance the user benefits from the convenience of an easy setup and the possibility to reuse existing results.
4. **nvision Interface:** Optimus 2023.2 extends the portfolio of interfaces to 3rd party tools with the introduction of a new interface to nvision, an AI-powered surrogate modelling tool by Noesis Solutions. With the nvision interface, Optimus offers direct access to nvision models, which allows the user to integrate real-time predictions into an Optimus workflow instead of running time-consuming simulations.

With a commitment to innovation, Optimus 2023.2 paves way for its users to harness the full potential of automation by streamlining processes, improving accessibility, and reducing operational costs. Optimus 2023.2 is available on the market now. To update your Optimus tool to the latest version, please write to info@noesissolutions.com.

About Noesis Solutions

Established in 2003, Noesis Solutions, a trusted digital engineering innovation partner, has empowered customers to adopt a transformational strategy that resolves their toughest multidisciplinary engineering challenges of today. Our continuously evolving product portfolio, state-of-the-art technology, and unmatched customer services enable customers transform the way they build their products in a much faster and an efficient manner.

Noesis Solutions is a majority-owned subsidiary of Cybernet Systems, a leading provider of multi-domain CAE (Computer Aided Engineering) solutions covering a vast range of engineering problems. Headquartered in Leuven, Belgium, Noesis Solutions operates through a network of subsidiaries and representatives in key locations around the world. For more information, please visit www.noesissolutions.com.

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