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BIMscript® & LENA
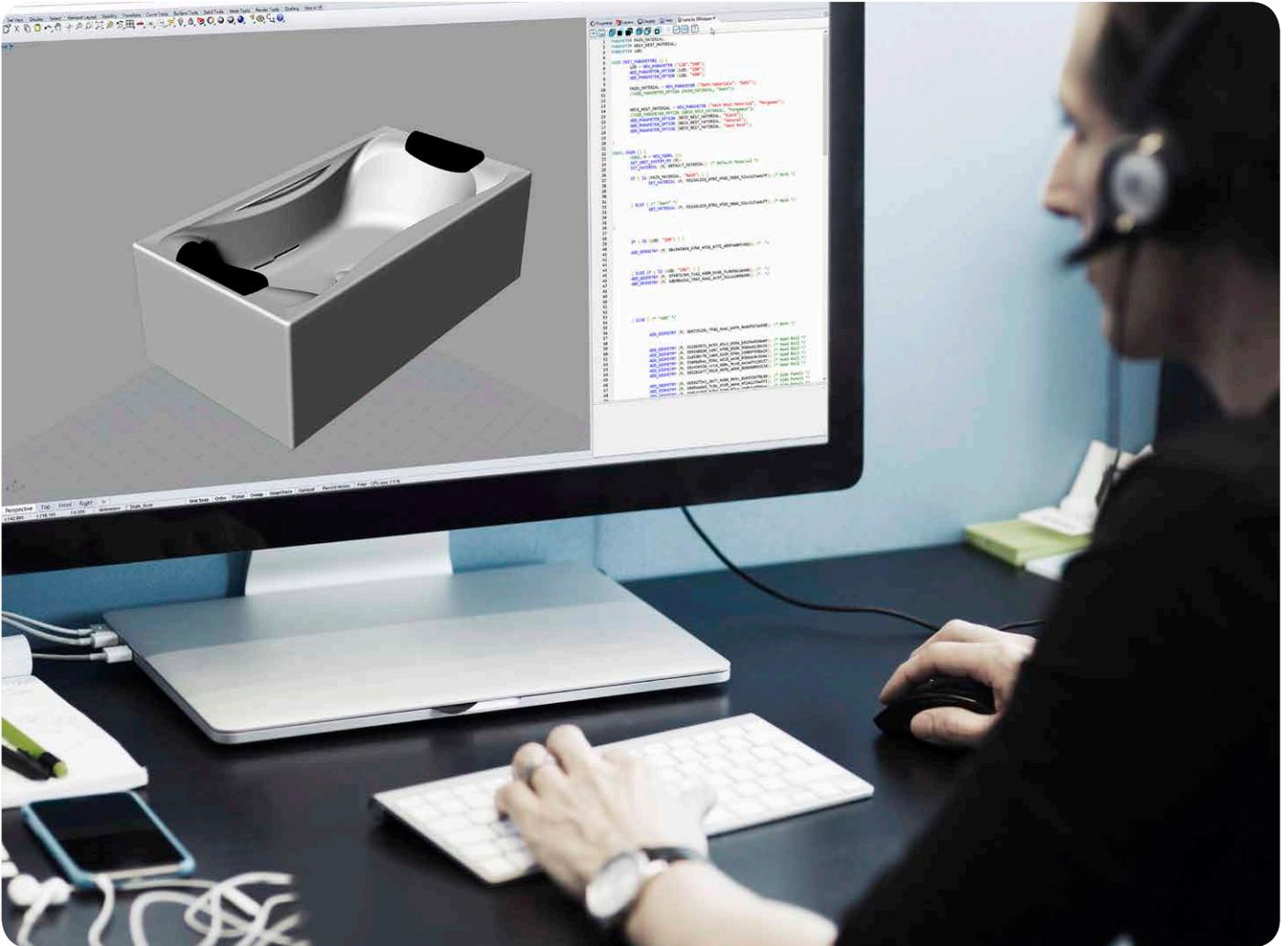
Turning mechanical CAD into intelligent BIM objects

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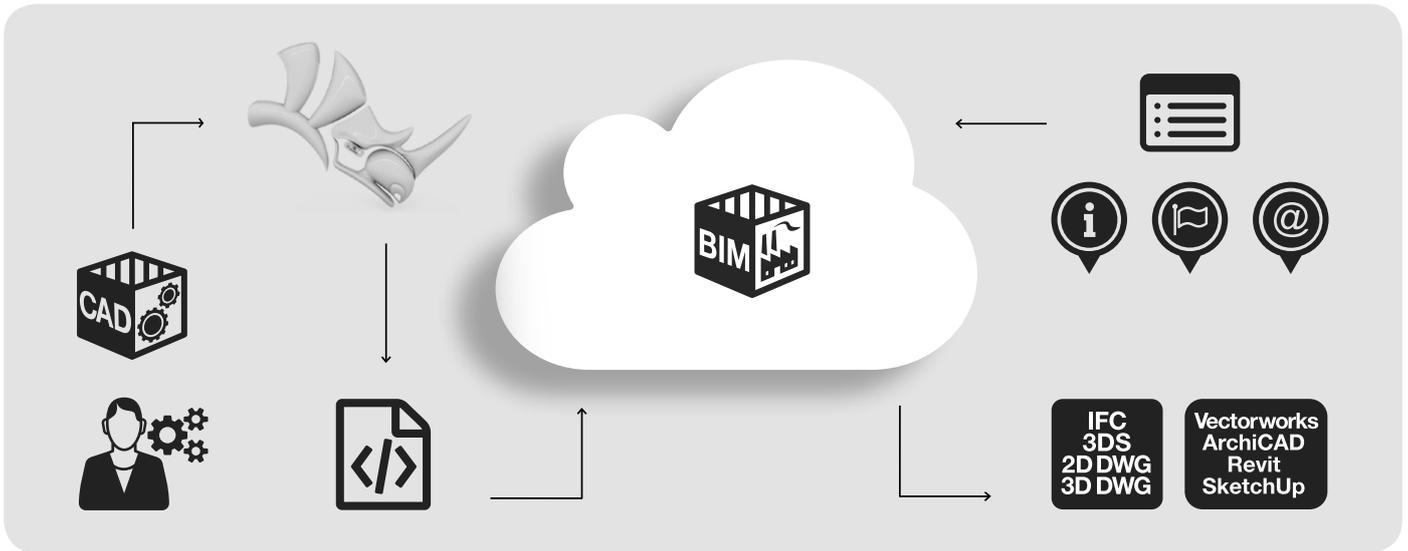
Powerful scripting language

BIMscript includes not only parametric behaviours but also calculations, product logic, level of detail (with several levels of complexity of geometry and geometry combinations) and a huge range of properties and attributes.

Import mechanical CAD geometry

LENA is an authoring app for the mechanical 3D CAD system Rhino that generates BIMscript. It is a solution in which mechanical CAD geometry can be imported from most mechanical CAD systems, including industry-leading products such as CATIA, SolidWorks, SolidEdge, IGES, NX, JT, Inventor and Pro E. Rhino is the hosting platform for BIMobject LENA in which BIMscript is generated, and works in combination with the modelling and optimisation features of Rhino.

Generate native BIM objects

Operating in the cloud, BIMscript generates intelligent, native BIM objects in a number of formats for the most popular BIM applications from Autodesk, Graphisoft, Trimble and Vectorworks with the potential for more in the near future. It also generates objects in commonly used formats such as IFC, 3DS, DWG and WebGL.

Connected to BIMobject Cloud

BIMobject LENA is directly connected to the BIMobject Cloud, providing a seamless workflow to publish objects and includes a connection to the corresponding product information stored in property sets in the BIMobject Cloud.

Scalable and intelligent

The solution is scalable and can describe products as well as components in a very intelligent way, creating configurable objects with parametric variations and different levels of detail. BIMscript is a subset of the C programming language and it enables smart objects to be created in BIMobject LENA and then hosted and managed in the BIMobject Cloud. Objects created using BIMscript have the ability to include properties and metadata from BIMobject Properties (BOPC).

Easy to use

BIMobject LENA requires the developer to have a commercial licence for Rhino 3D and an accreditation from BIMobject before being used. BIMobject LENA is very user-friendly and within it, all syntax controls, testing and creation of the generated BIMscript takes place. The technology is available for free and will be enhanced continuously.

For more details, please contact a BIMobject sales office. https://bimobject.com

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