

ROUTi-AI Ver.1.0.0

Configuration



System Requirements

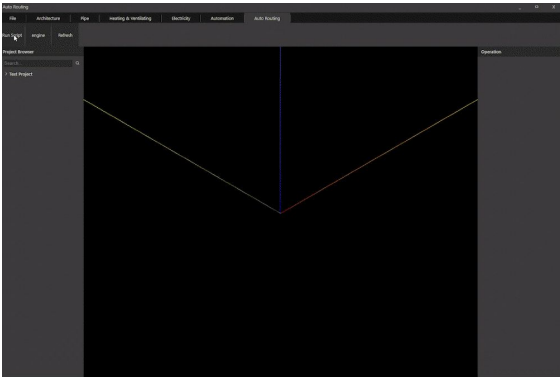
OS	Window 10, 11
Revit	Autodesk Revit 2021, 2022
Disk Space	30 GB free disk space
Memory	8GB
Video Adapter	DirectX® 11 capable graphics card with Shader Model 5 and a minimum of 4GB of video memory

What is ROUTi-AI?

ROUTi-AI is specialized software designed to streamline and automate plant design processes in industries such as semiconductor manufacturing and chemical engineering. Complex designs are automatically generated by applying algorithmic principles to the different discipline-specific areas of MEP (Mechanical, Electrical, Plumbing) design engineering.

ROUTi-AI simplifies the creation of plant system designs by allowing users to import calculation sheets (in Excel format) and drawings (in CAD format) across various disciplines, including architecture, utility piping, electrical systems, equipment layout, automation control, and fire protection. It ensures that all designs adhere to the relevant industry-specific rules and standards.

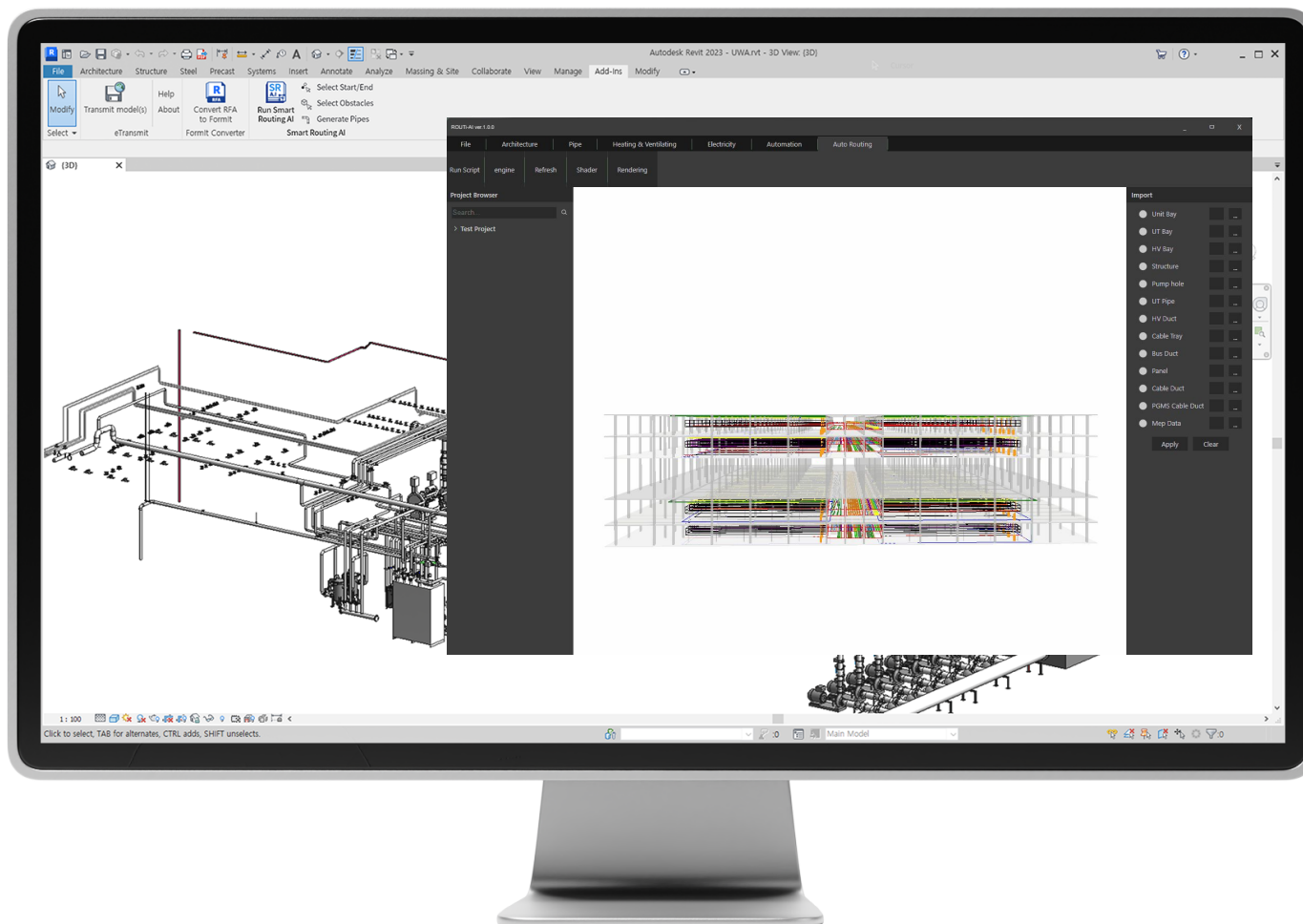
ROUTi-AI provides the capability to export the resulting data in the form of Building Information Modeling (BIM) data that is fully compatible with Autodesk's Revit software.



Target professional users include:

- **MEP Designers**
- **Civil Engineers**
- **Architectural Designers**

*ROUTi-AI is available through the Autodesk App Store.

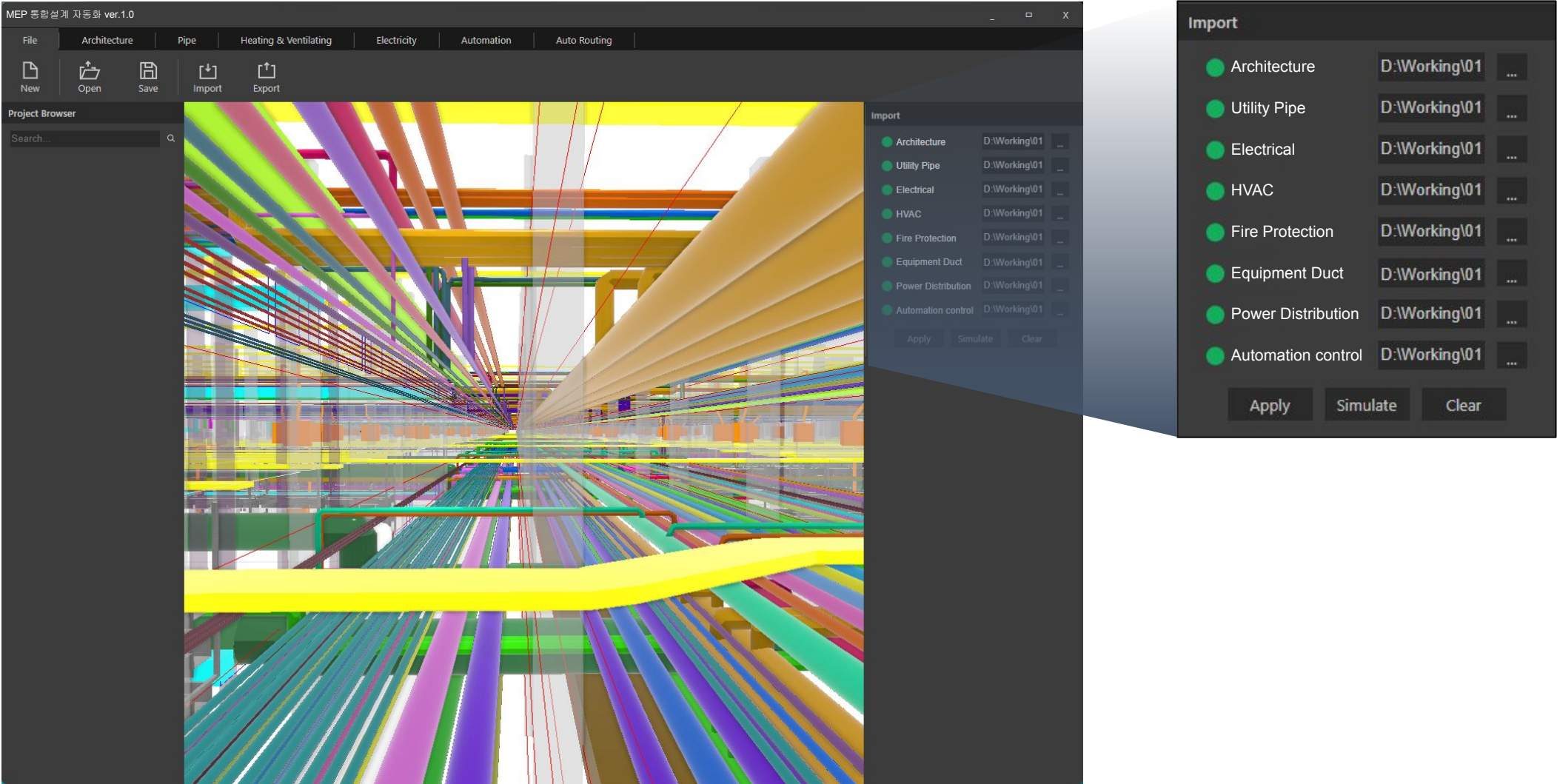


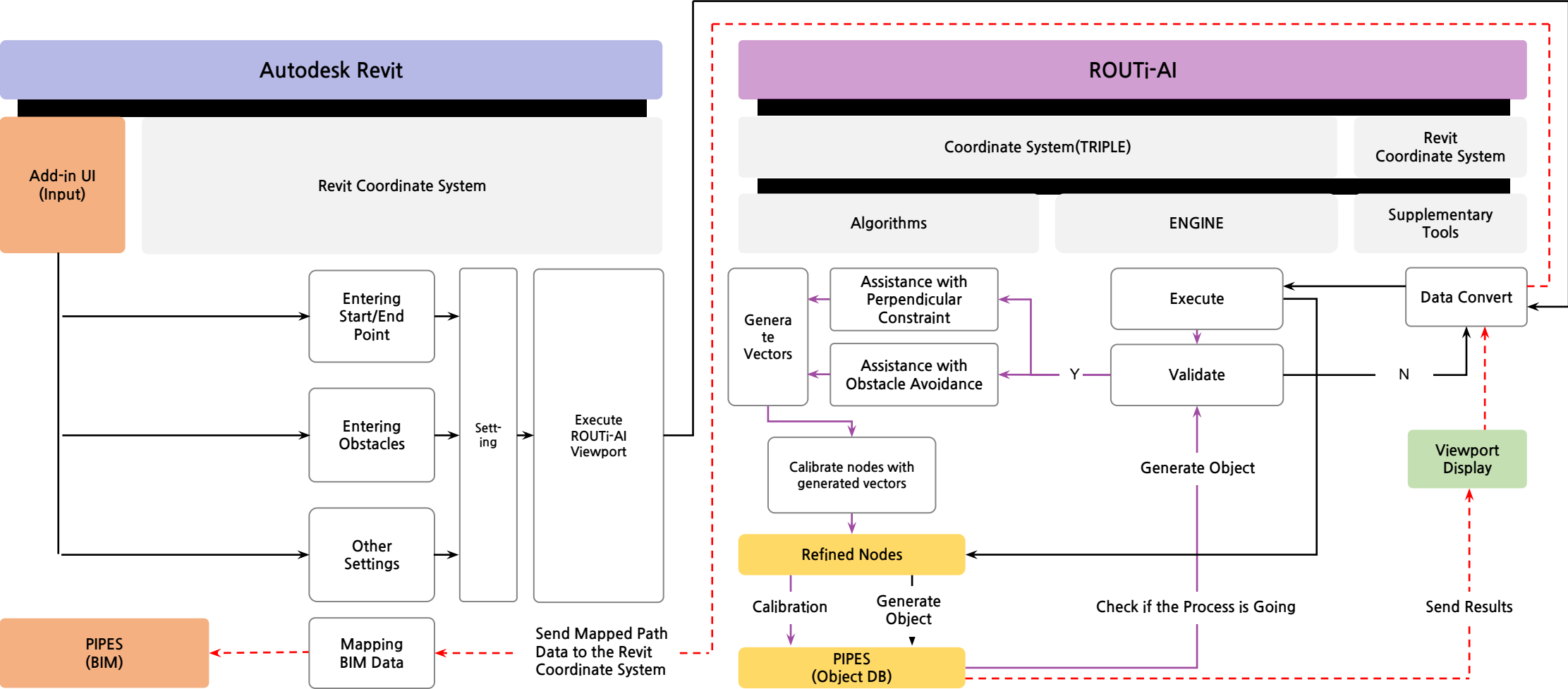
Key Features

- **Seamless Integration with Autodesk Revit**
ROUTi-AI seamlessly integrates with Autodesk's Revit software as an add-in available from the Autodesk app store, enhancing Revit's usability and compatibility with existing design workflows.
- **Web-Based Real-Time Rendering**
The web-based display capability allows for real-time rendering of plant designs, supporting projects of up to approximately 30,000 square meters in size. It ensures that design visualization is dynamic, immediate, and actionable during the planning process.

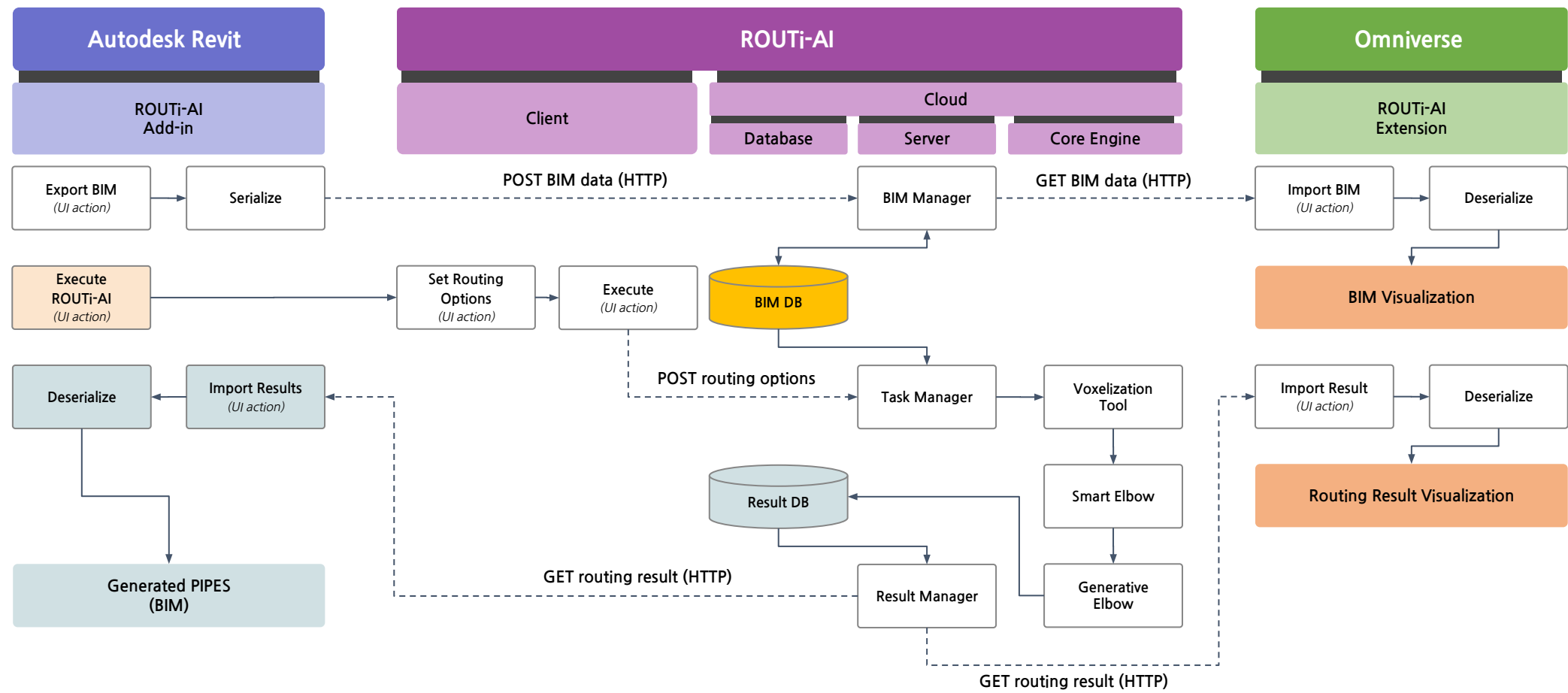
Advantages

- **Algorithm-Driven Piping and Duct Layouts**
ROUTi-AI utilizes advanced algorithms to generate optimal piping and duct layouts for each specific discipline. It intelligently avoids obstacles, ensuring the most efficient routing possible.
- **Customization and Flexibility**
Generated routes can be easily customized to meet the unique requirements of individual users. It allows for the fixation of specific objects and permits re-computation as necessary, accommodating various design preferences and constraints.
- **Seamless Revit Integration**
ROUTi-AI seamlessly integrates with Revit libraries, including pipe fittings and other components. It goes beyond 3D modeling by incorporating attribute information, enriching the resulting BIM data with valuable details for comprehensive design documentation.





While Revit provides inputs for the ROUTi-AI engine, ROUTi-AI is an independent engine that does not rely on Revit.



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