ORACLE
Construction and
Engineering

Oracle Aconex Model Coordination Cloud Service

Amplify model coordination in a secure common data environment (CDE) with seamless integration to the project ecosystem and no additional software required for collaboration

The challenges of model management

Model management and BIM in engineering and construction projects have been the domain of specialists using proprietary modeling tools. The broader project team has been unable to easily participate in the design and coordination process as the BIM design information has been disconnected from them, dispersed across many different systems. Most importantly, the critical model coordination process suffers from lack of flow across the applications landscape:

- Design issue resolution is spread across multiple systems impacting cost and administration.

- Lack of integration with authoring and validation tools leads to errors and further cost.

- Scattered data and data silos lead to poor overview and control on status of the coordination process.

- Unreliable progress reports and audit records impact quality and control.

Slow progress and decision-making based on assumptions are the direct result of disconnected teams working with separated data and little to no transparency. Information spread over different systems creates multiple versions of the truth leading to lack of clarity, errors, and disputes—all impacting cost, quality, and schedule.

Model coordination across projects in a secure and collaborative environment

Oracle Aconex Model Coordination Cloud Service simplifies model management by connecting teams, models, and all relevant project data in a truly collaborative CDE. A powerful model viewer with Clash in the Cloud aligns the project team and the entire supply chain to the design coordination process, enabling all project participants to easily share, visualize, coordinate, review, and contribute to models across organizations.

Accessing the CDE via a mobile device or web browser, design teams enjoy a single platform to query, communicate, and manage the coordination process with a dashboard, providing a clear view of status. Teams gain the full benefits of collaboration, including a full audit trail of all decisions made during the project.
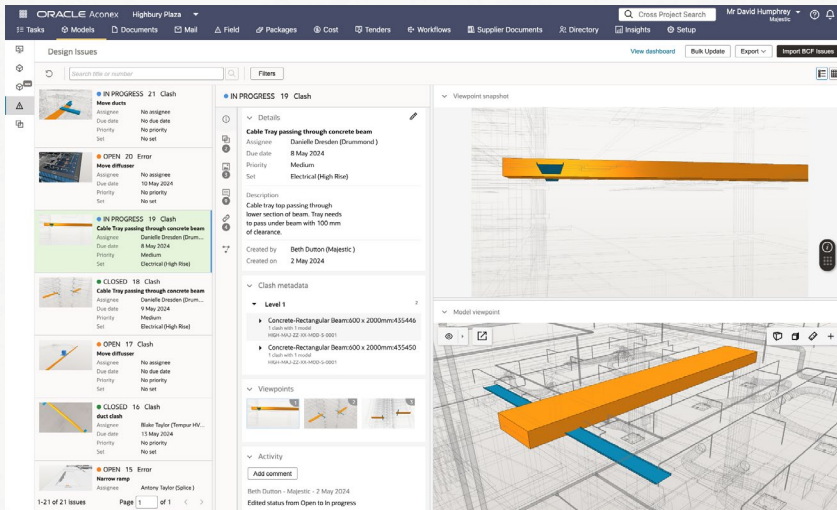
Figure 1. Oracle Aconex Model Coordination

A true common data environment

A sophisticated model server forms the center of the Oracle Aconex CDE, facilitating integration with the most common authoring and model checking tools. So no additional management tools for issues and clashes are required. The entire project team can benefit from the interoperability of open BIM standards, can interact with models, and participate in the BIM process. Two levels of functionality are available based on a project's requirements.

Level 1: Model Explore

This collaborative, high-performance model viewer is fast, intuitive, and allows teams to:

- Upload model files and seamlessly view, federate, navigate, section, and share models, with authorized project participants able to view with zoom, rotate, pan, and section.

- Integrate with the Oracle Aconex Document Register.

- Directly upload supported models from Revit.

- Navigate models on a web browser and mobile.

Level 2: Model Coordination

In addition to Model Explore capabilities, Model Coordination includes capabilities to:

- Use comprehensive issue and clash management to support the end-to-end coordination process.

- Perform seamless design issue capture, management, and resolution.

- Create simple or complex search conditions based on object data, isolate the search results in the viewer, and save the object search for re-use later.

- Use built-in clash detection that automates the identification of clashes, improving the quality and efficiency of models.

- Automatically detect clashes and clearances earlier in the design process and see trends by zones.

Take action with Oracle Aconex Model Coordination Cloud Service:

- Create a single source of truth and facilitate end-to-end process management with a true common data environment that connects all teams and data.

- Manage coordination resolution in a single platform—with no additional software required.

- Enable BIM participation across projects and model access for faster processes and cycle times.

- Focus on the coordination issues that need attention.

- Complement existing authoring tools.

- Complete projects faster with improved efficiency and quality.

- Keep everyone protected with the Oracle data ownership model and leading Oracle security.

- Easily identify, inspect, and collaborate on clashes occurring across multiple design disciplines.

- Raise the design issue with automatic resolution and connect to a request for information all within Aconex.

- Manage complex project areas with Clash Spaces.

- Define roles and responsibilities for participants collaborating in the Clash Space.

- Manage and configure clash tests by models, objects, and user-defined conditions.

- Interrogate and visualize clashes in the online viewer.

- Plug in integrations to authoring and model-checking tools.

- Monitor progress and reporting with a dashboard.

- Create and share viewpoints.

- Measure in the model and communicate results.

- Integrate process support with a full audit trail across the supply chain.
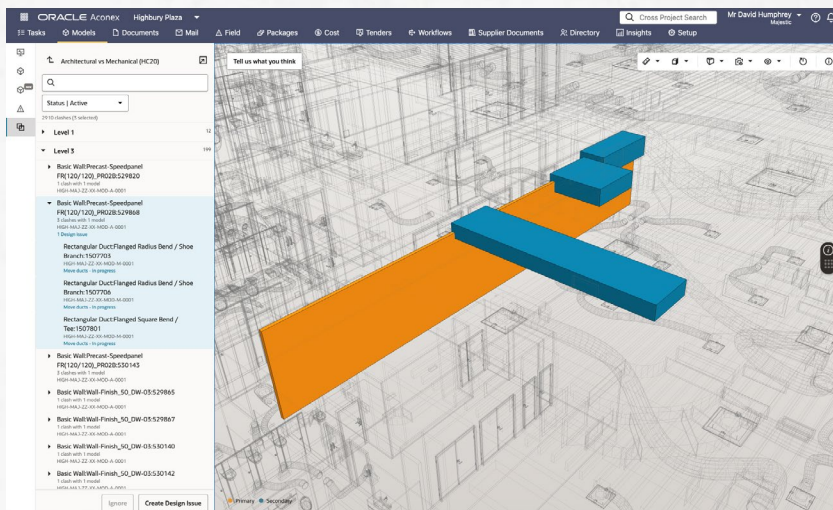
Figure 2. Oracle Aconex Model Coordination
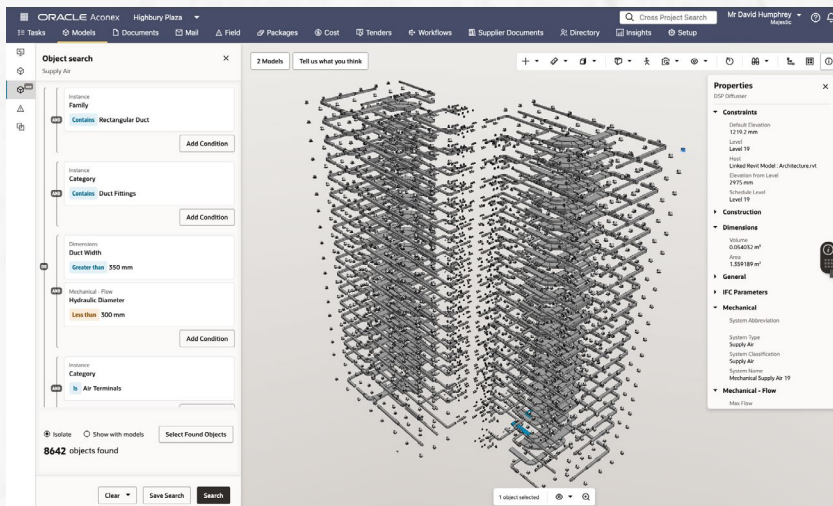
Figure 3. Oracle Aconex Model Coordination

Minimize coordination errors with Aconex Open CDE BCF API and Documents API

Coordinating models can be complicated for design teams working across different authoring tools and applications. Issues including interoperability, the double handling of information, and the transfer of data between authoring tools and the CDE all increase the risk of errors and can add time to coordination processes.

The Open CDE BCF API and documents API addresses these issues, standardizing information uploads and downloads, facilitating the exchange of design issues and documents with the Aconex CDE. It provides interoperability between authoring tools and Aconex, facilitating much faster model coordination and cycle times, eliminating the double handling of information, and allowing the seamless transfer and flow of information.

Simplify model coordination and collaboration with Oracle

Want to learn more? Check out our ebook on improving collaboration challenges with Aconex. Access here.