

COMPANY

ONG&ONG GROUP

LOCATION

Singapore

SOFTWARE

Autodesk® BIM 360® Design
Autodesk® BIM 360® Docs

An ISO-Compliant Common Data Environment

Sustainable design firm one of the first to receive ISO 19650 accreditation

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– Daniels Chandra

Director of Design Technology
ONG&ONG Group



Image courtesy of ONG&ONG Group

Vision for workplace mobility

Geographic borders should not limit collaboration or creativity—such is the belief of ONG&ONG Group, a multidisciplinary design firm with a vision of workplace mobility. The firm has a presence in seven countries across Asia and, over the last few years, its chairman has advocated an environment that is conducive to collaboration among international team members, consultants, and contractors.

Management recognised that digital transformation affects processes, people, and technology. The firm was already ISO 9001 certified, which proved a solid foundation for digitalising the project delivery process. The people element was more challenging; employees were reluctant to change their analogue ways

of working. For the technology aspect, ONG&ONG Group needed to implement a common data environment (CDE) that would act as an information hub, accessible from anywhere at any time.

Transitioning to a digital delivery process

ONG&ONG Group partnered with Autodesk to transition from on-premises Revit servers to BIM 360 Design software in the cloud. The backbone of ONG&ONG Group's CDE is a container-based document management system, which it migrated to BIM 360 Docs over the course of two years. With the cloud migration, the firm needed to define new digital workflows and customise permissions, file access, and data retrieval protocols.





Image courtesy of ONG&ONG Group

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Director of Design Technology
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“Autodesk is helping us understand our digital workflows and how to alter them so they are fit for purpose,” says Daniels Chandra, Director of Digital Technology at ONG&ONG. “Technically, the migration from Revit Server to the cloud was a progressive change. BIM 360 has made the process seamless, by levelling up the digital delivery process and enabling online collaboration.”

Single source of truth in the CDE

The latest milestone for ONG&ONG Group is becoming internationally BIM-certified with ISO 19650, a global standard for end-to-end information management over the life cycle of a built asset. As one of the first to receive the accreditation in the region, ONG&ONG Group has demonstrated its ability to execute digital workflows using BIM.

To achieve the ISO 19650 certification, ONG&ONG Group had to implement digital approval of drawings and models as well as a risk management register—tools that were unavailable with Revit Server. Autodesk has introduced new features to BIM 360 to support these and other evolving regulatory requirements.

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Enhanced productivity and accountability

With a single source of information from project inception to delivery, productivity is enhanced, errors are reduced, and duplication is avoided. Chandra also notes an uptick in accountability, which is vital in a multidisciplinary firm with teams across multiple countries.

Most importantly, ONG&ONG Group is realising its vision of borderless collaboration. The ability to access and work on documents from anywhere has proven particularly valuable during the COVID-19 crisis. “Our teams are grateful that we’ve moved to the cloud. Remote working is no longer an issue for us,” Chandra says. The firm continues to hold training sessions to help employees sharpen their BIM skills, and their mindset is evolving to embrace the advantages of the cloud.



Image courtesy of ONG&ONG Group

Achieving ISO 19650 certification is not a one-time feat, just as true digital transformation persists and alters over time. The firm is now tackling cross-region mapping and archiving as the next steps in fulfilling its digital mobility vision. A strong feedback circle between Autodesk and ONG&ONG Group continues to support this vision as both teams strive to stay at the forefront of technological innovation.