

Structural Design to Fabrication with AEC Collection — Part II

Deepak Maini

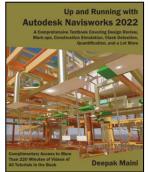
National Technical Manager - Named Accounts Cadgroup Australia

Welcome to AU 2021 The Digital Experience

Introduction

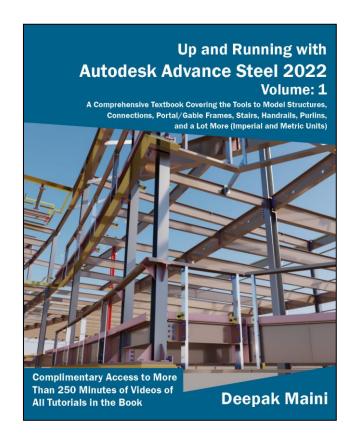
- National Technical Manager Named Accounts, Cadgroup Australia
- Qualified Mechanical Engineer
- Over 22 years of experience in the industry
- Autodesk Expert Elite, Autodesk BIM 360 Certified Consultant, and Certified Trainer
- Awarded the "Best Autodesk University Speaker" two years in a row at AU2018 and AU2017 in Las Vegas
- Voted "Top Speaker" at the Bluebeam XCON 2019 in Washington DC
- Author of the Up and Running with Autodesk Navisworks, Autodesk Navisworks for BIM/VDC Managers, Up and Running with Autodesk Advance Steel, and Up and Running with Bluebeam Revu series of books
- Guest lecturer at the University of Technology Sydney (UTS) and University of New South Wales (UNSW), University of Salford UK, Virginia Tech University

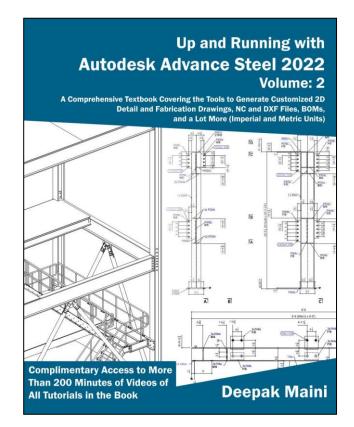






My Aim: Have lots of fun as we learn





Acknowledgements

- Janice Miller-Kellerman and Adam Sopko from the AU Content Team
- Sidney Shaola and Lauren Ames from the AU Speaker Management
 Team
- Patricia Lundberg, Nicolas Martineau, and Autodesk Technical Crew

Learning Objectives

- Revisit the Advance Steel, Revit, and Robot Structural Analysis workflows for seamless structural design to fabrication
- Learn how to share structural BIM data and fabrication drawings with the field teams
- Learn how to create and manage site issues and notify design teams
- Compare different versions of structural BIM data and fabrication drawings

Revisit 2020 class



Taking the next step

Sharing the design and drawings with the external teams

This is where the challenge is

Unclear communication lines between teams

Costs the construction industry over \$15
Billion a year in rework

55%
Claims are due to "inaccurate field data"



Missing project data

62% of construction professionals transfer field data manually or via spreadsheets

30% of data created during design and construction is lost by project closeout



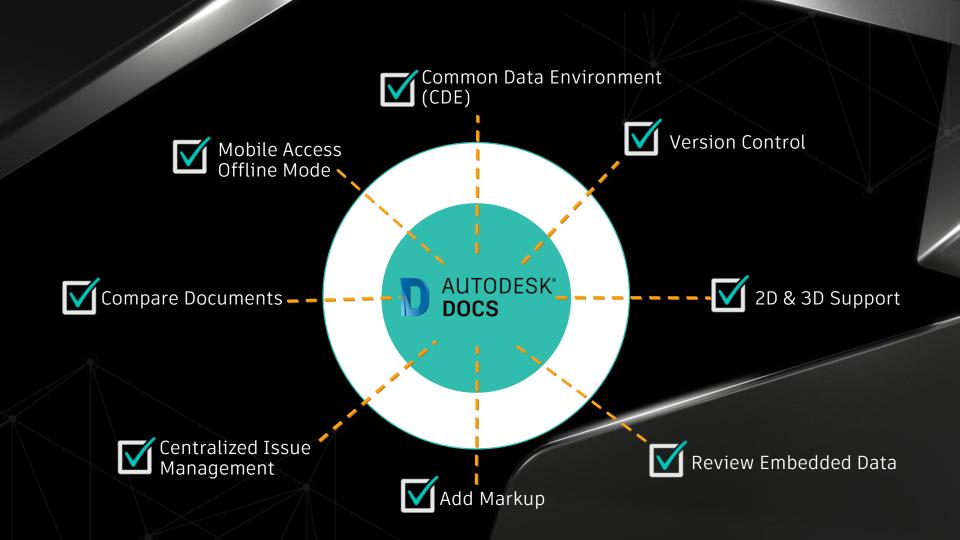
Emerson Reliability Consulting



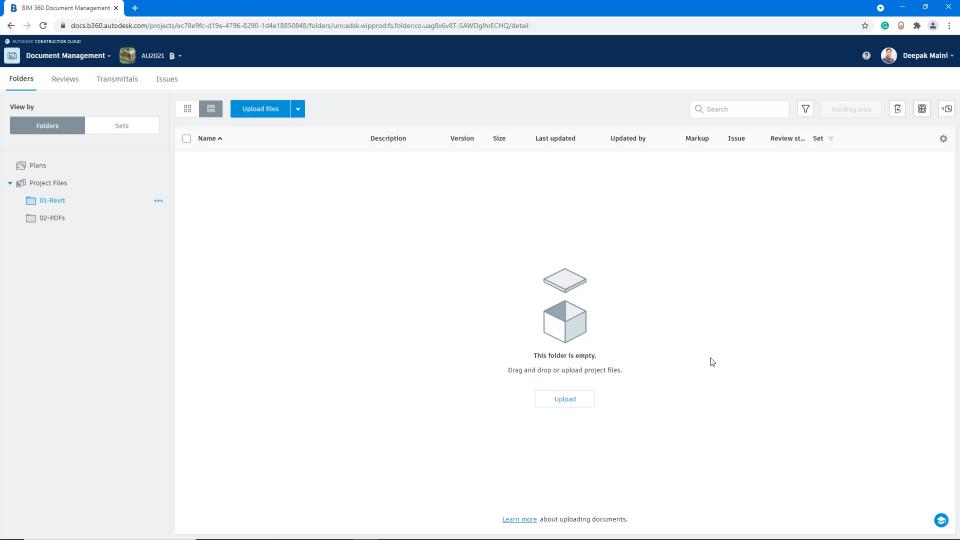


All this changes now...

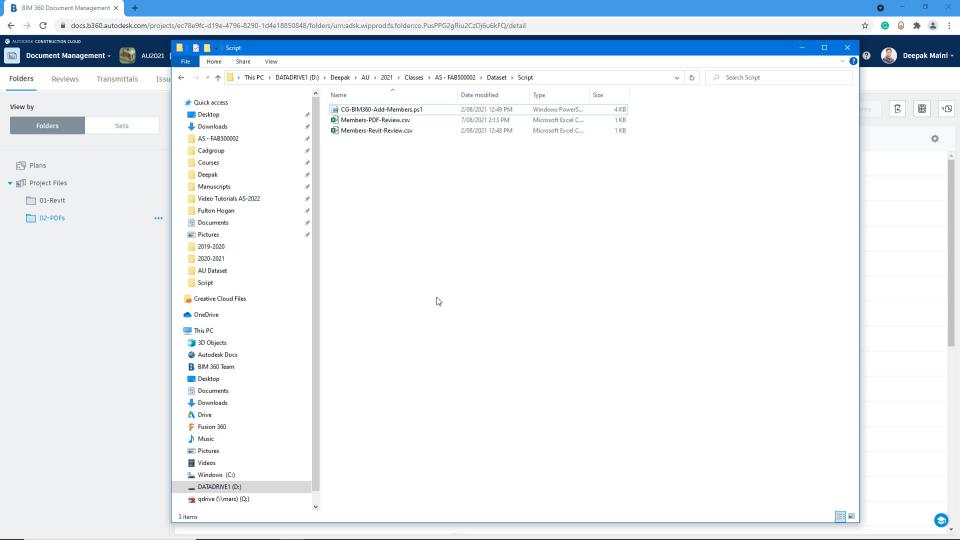
AEC Collection now includes access to Autodesk Docs Yayyyyy!!!



Demo Upload data to Autodesk Docs

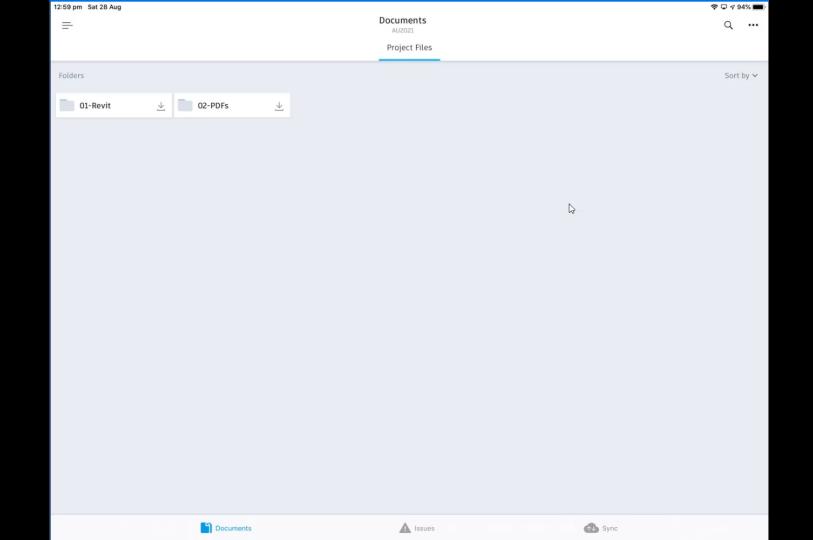


Share data using Autodesk Docs (Project members can use their Autodesk Docs from AEC Coll subscription)

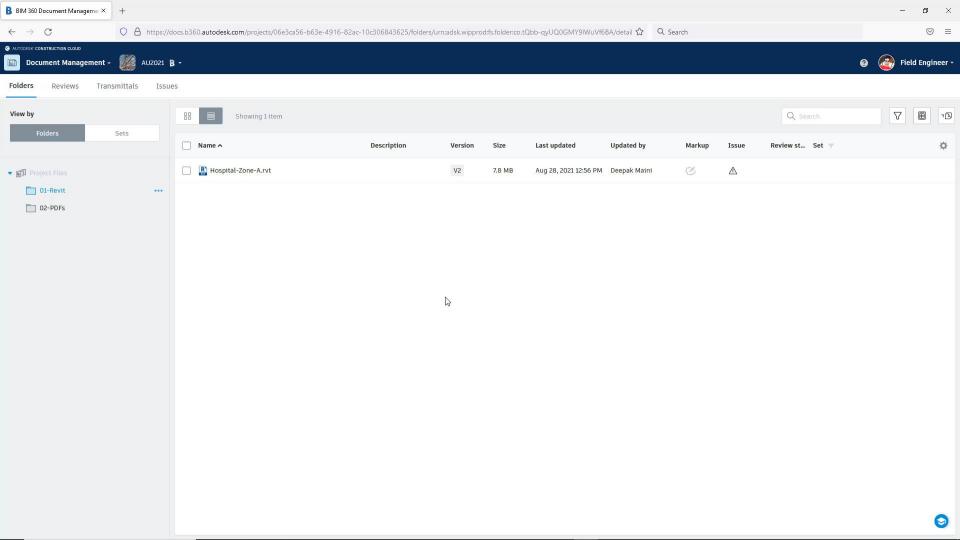


Accessing and reviewing design in the field (All this included with AEC Coll)

Demo
(Accessing data and creating issues in the field using the BIM 360 mobile app)



Demo (Creating design issue using the Web browser)

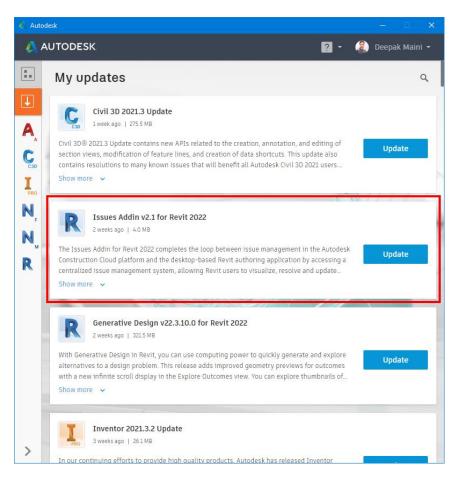


Downloading issues in Revit (Needs Issues add-on)

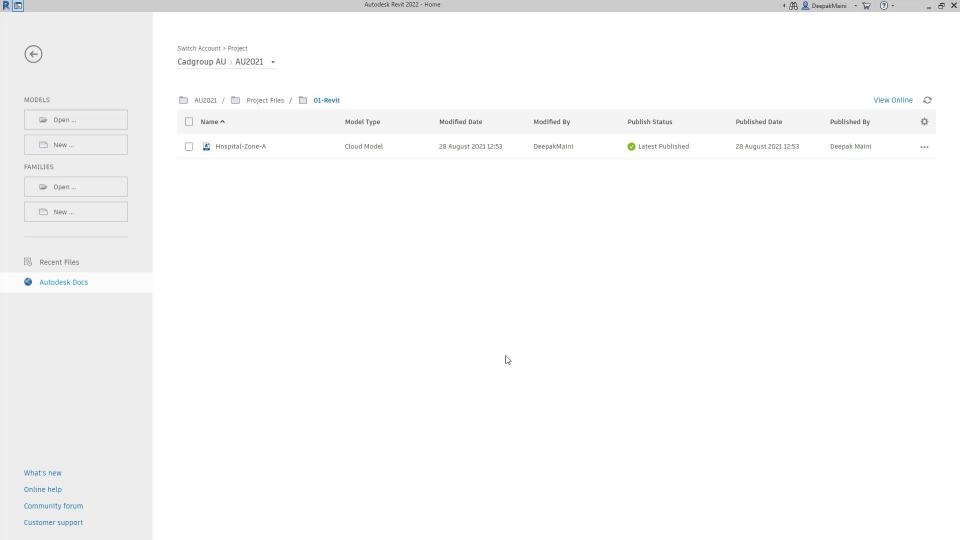
Download and install the Issues Add-on

Available for Revit 2022, 2021, 2020

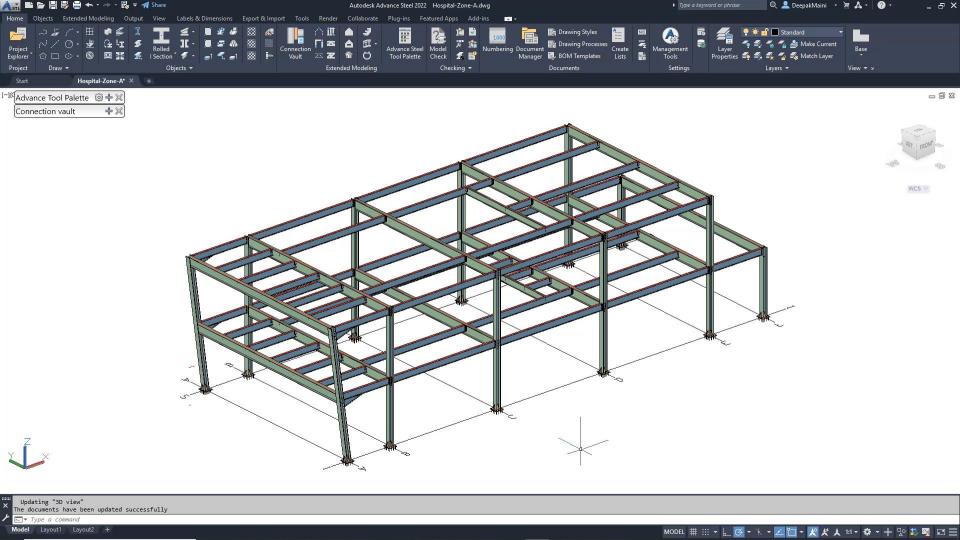
- Available for existing subscription customers
- Available in the Desktop App
- Or from the Autodesk Account



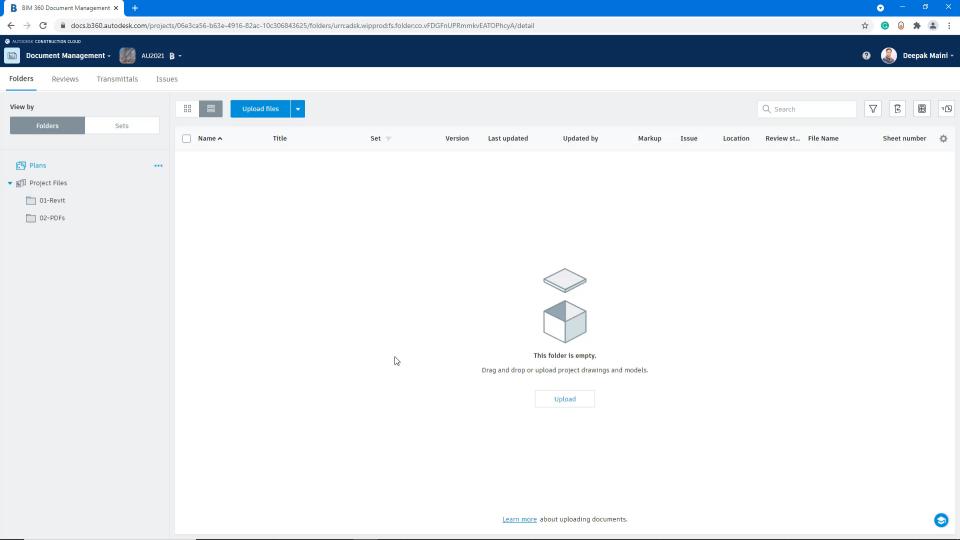
Demo (Downloading and actioning issues in Revit)



Synchronizing Advance Steel and using Desktop Connector to upload the revised PDFs to Autodesk Docs)



Demo (Comparing models in Autodesk Docs and closing issues)



Taking the next step is possible now with Autodesk Docs...
And secure...
And comes with several design review features...

Three takeaways

- AEC Collection gives you access to Autodesk Docs (BYOS)
- Autodesk Docs is the CDE that can be used to share data with field and external teams
- Comes with a closed loop end-to-end issue management system supported by the user notification functionality

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