



Worksharing API Roundtable

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Intro

- This class is a follow-up to my earlier lecture
 - DV1888 - Facing the Elephant in the Room: Making Autodesk® Revit® Add-ins That Cooperate with Worksharing
 - You don't have to have been there to participate here
- I don't expect to do too much talking here
 - I'll try to facilitate the discussion
 - Try to let everyone get involved

Intro

- Discussion questions
 - Try to keep the discussion topical (roughly)
 - I'll try to keep us from going too far off target
 - There's a catch-all at the end
- Code is available
 - I'm happy to show example code or run any of the examples from the previous lecture if it helps the discussion

Recording

- This session is being recorded – the recording will be provided after the session for download
 - Speak loud and clear enough for the local audience ... and for the recording
- If there are any objections feel free to leave the room

Discussion topic 1

- Worksharing is disruptive to add-ins for several reasons, including the fact that Revit ElementIds are **not stable** in the workshared environment.
 - How are you caching Element identification info in your application, in Revit models, and in external storage mechanisms?
 - Do you think your techniques will interact safely with workshared models? Why or why not?

Discussion topic 2

- Another significant disruption caused by operating in a workshared environment is the possibility of **editing conflicts**, where add-ins cannot make edits due to checkouts or where users cannot make edits due to checkouts performed by add-ins.
 - Has anyone ever run into an editing conflict caused by your application?
 - Do you think your add-in is designed well enough to minimize such disruptions for the end users?

Discussion topic 3

- When your add-in deals with **file operations** (opening, closing, saving, etc) you have additional concerns to deal with – those files may be in multiple places and states (non-workshared, local, central, on server, on disk, etc).
 - What are the best ways you've found to write a worksharing-compatible add-in that deals with operations on files?
 - Are you using any tricks to minimize impact to users (e.g. opening files as detached)?

Discussion topic 4

- Worksharing is a **complex system** that is not always considered when new features are being developed for Revit users.
 - Are there other comments, questions or concerns you'd like to discuss about worksharing and add-ins?
 - What changes do you plan to make to your add-ins as a result of the discussions today?

Wrap up

- Thank you for the useful and informative discussion!
- Reminder: visit <http://au.autodesk.com> to find all of the class materials from this roundtable and the initial lecture
 - Recording
 - Sample code
 - Lecture material/handout
- Contact me at: Scott.Conover@autodesk.com with any follow-up questions