October 17-19, 2016
ATLANTA, GEORGIA

Partnered Coordination
Greg Schleusner - HOK
Overview

- Building Design Coordination done by HOK/WSP-PB
- Using IFC as the main format
  - Not because of idealism
  - Data Driven Coordination tools better for us
- Skanska/Walsh taking part but not leading until handover
- Wanted to have a process for use to manage open issues
- Skanska/Walsh needed a better way to manage trades
Goals

• Repository for issues that can flow from design team into construction
• Fast delivery and phasing means not all can be resolved at the same time
• Plan on using BCF as it’s the most flexible option
Coordination: Traditional Approach HOK
Coordination: Traditional Approach (Skanska)

- Clash detection
- Documentation → Excel / Word
HOK Model Review Goals

• Working to make models part of coordination from the start
• Daily Batch Export of ~20 IFCs
• 2x Weekly updated from consultants
• IFCs as close as possible to the working Design Models
• Begin Model Coordination from the start
The Plan – Security Limitations
WeWork Open Sources Apps Developed by CASE

by David Fano

When CASE joined WeWork in August 2015, it sparked a new opportunity to positively impact and improve the building process. Focusing on WeWork’s already impressive physical and digital platforms, the Product team continues to expand and enhance these platforms that enable our members to do incredible things. We also believe in making a positive impact that reaches beyond our members and want the work we’ve been developing to benefit the building, design, and technology industries.
Clear Benefit of an Open BCF Standard

- Planning on Using BCF with HOK Desktop Tools
- If Web an option would have used hosted solution
- Jira Option could replace others without disruption
What → Agile
What is Kanban/Scrum Board?
What

- Multiple projects
- Issue tracking
- Notifications, comments
- Analysis, reporting, records
How we use Jira

CASE LGP
ISSUE TRACKER
WORKFLOW

NAVISWORKS

REVIT

IFC

BCF

SOLIBRI

XML

INDESIGN

ISSUE REPORT

TABLEAU

JIRA

OWNER

DESIGNER

CONTRACTOR

@gschleusner
What is JIRA Software?
Planned Jira Cycle (2-week cycle)

- **day 1-2**: Lead Coordinator found issue and uploads it to Jira for assignment and prioritization.
- **day 3-9**: Modeler assigned issue via Jira and working on solution. Affected discipline alerted of change.
- **day 10**: Modeler resolved issue in model. Lead Coordinator verifies issue is closed by re-running clash detection.
Design Coordination Process

1) CJV Team revises and uploads models

2) Coordination Manager compiles notes and issues

3) Issues are reviewed at consultant coordination meeting

- No Clashes Found
  - Sign-off
  - Publish Clash Log

- Issues Found
  - Update Models

Working Models: SM, MP, ELEC, PLUM, FP

Export to NWC: SM, MP, ELEC, PLUM, FP

Combine In Composite Model: COMP

Run Clash Detection
Design Coordination Process

### Bi-weekly Design Coordination Process: Week 1

<table>
<thead>
<tr>
<th>Day 1</th>
<th>Day 2</th>
<th>Day 3</th>
<th>Day 4</th>
<th>Day 5</th>
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</thead>
<tbody>
<tr>
<td>HOK</td>
<td>HOK/SWJV Planning Meeting</td>
<td>SWJV Internal Review</td>
<td>DJV Coordination Meeting</td>
<td>DJV Action On Conflicts</td>
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<tr>
<td>DJV</td>
<td>Engineers Review</td>
<td>Jira Comments</td>
<td>DJV Action On Conflicts</td>
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<tr>
<td>Jira</td>
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<td>SWJV</td>
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### Week 2

<table>
<thead>
<tr>
<th>Day 6</th>
<th>Day 7</th>
<th>Day 8</th>
<th>Day 9</th>
<th>Day 10</th>
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</thead>
<tbody>
<tr>
<td>HOK</td>
<td>BIM Leads Check-In</td>
<td>DJV Model Upload</td>
<td>Repeat at Day 1</td>
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<tr>
<td>Engineers</td>
<td></td>
<td>DJV Action On Conflicts</td>
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Status

• Adding to the Development of the Open Source Project
  • Parent Topics
  • Workflow Items

• HOK and Partners using Desktop BCF

• Going to Merge “HOK Desktop Logic with JIRA”

• Big Picture
  • Not all projects require JIRA
  • Develop a BCF Playlist that we choose on projects.
  • Standard Process, Flexible tools
TEAMWORK

MAKES THE DREAM WORK