

CS125381

# Safety First—with BIM 360 Field

Lauren L Collier SSOE Group

### **Learning Objectives**

- Learn how to create your own custom checklist in BIM 360 Field
- Learn how to use and replicate a practical safety Checklist example
- Understand what data is available to connect and harvest from BIM 360 Field
- Learn how to visualize and make project safety decisions based on live project data

### **Description**

This class will "safely" introduce how to integrate BIM 360 Field software into a construction safety program. If your company is looking to start using BIM 360 Field, safety is an excellent and safe approach to beginning. We'll explore the creation of custom checklists, and how to create templates for consistency across projects. The presentation will guide you through the application, and we'll provide some tips and tricks to being successful in data collection. A Safety First culture is to be both preventative and proactive on our job sites—not only is it significant to be rigorous in monitoring, but what do you do with all this data collected? The second part of the presentation will look at the open BIM 360 API. We'll share live project dashboards to replace your stagnant weekly or monthly summaries—but, more importantly, to make safer decisions for your projects. The activity trends are now more obvious and visible to the construction teams, letting both praise and corrective actions occur.

### Speaker(s)

Lauren has over 12 years of industry experience ranging from healthcare and industrial architectural design, BIM implementation, Innovation Projects and executing Corporate Initiatives. She holds a Master of Architecture degree from Savannah College of Art and Design and a Bachelor of Art and Architecture degree from Miami University. Her creative passion lies in Lean, constant improvements and innovative model/data use solutions for design and construction operations. She leads a group of VDC Technical leaders and Model Managers whose focus is implementing these new innovative technologies and best practices in design and construction. In addition to her role at SSOE, Lauren is an active amateur photographer as well as a wife and mother of two imaginative and energetic boys.



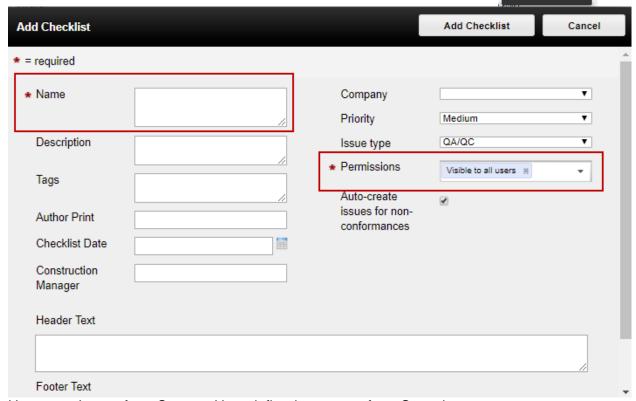
### **Creating a Checklist**

1. Log into Web BIM 360 Field Classic – <a href="https://bim360field.autodesk.com/home">https://bim360field.autodesk.com/home</a>

2. Reminder you must have accepted an invite to Project.



- Go to User Initials Far Right of Web Page
- 5. Go to Project Admin
- 6. Checklist Icon Pick Type: QAQC; Safety, Commissioning.



7. Users can Import from System, User defined, or create from Scratch.



8.

Lauren Collier Settings

Account Admin Project Admin

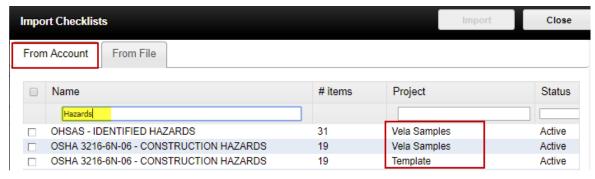
Help What's New? Contact Support

Community

About Field Sign Out

Submit Your Ideas

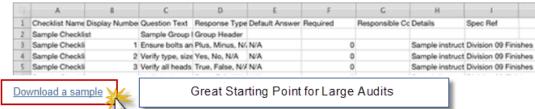




9. 10. Import Option



Imported files should be formatted as follows, with one checklist item per row:



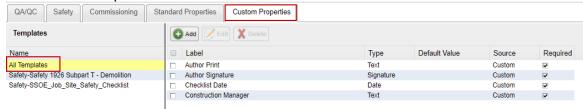
Note - Format dates as vollows: 2017-11-07

Choose an Excel file to import below.

Then, click Start Import to begin importing.



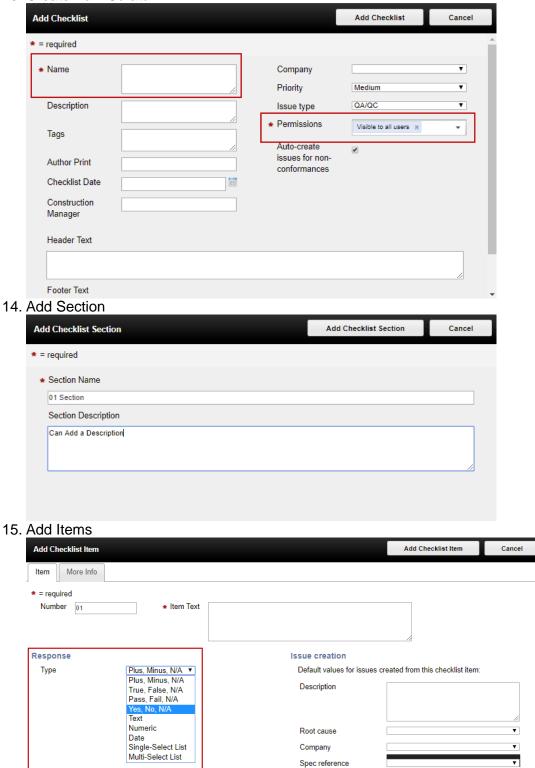
11. Add Custom Properties



12.



13. Create from Scratch



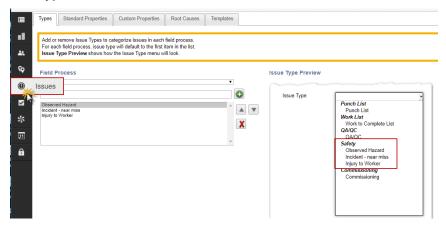
16. Recommendation – You can't edit Response Types once created. Users have to re-do.



### **Additional Basic Set-up**

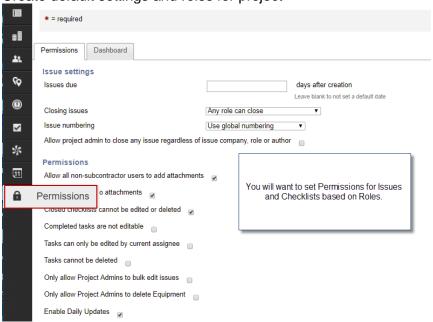
#### Issues

Set Types

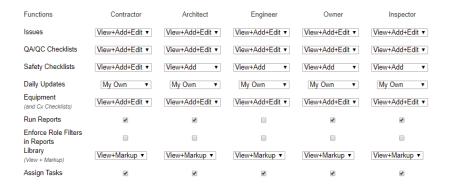


#### **Permissions**

· Create default settings and roles for project







#### **Add Companies & Members**

- Add Companies who will be on site
- You can have a company added to project without members
- This is useful for dailies, issue and task assignments.
- Add Members who will be viewer, using, or interacting with Field
- Apply Roles to users to set permissions

#### **Create Saved Reports**

In Main Page of Field – Go to last Icon Reports.



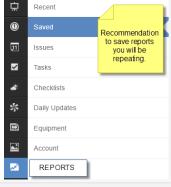
## **Tips and Tricks for Field**

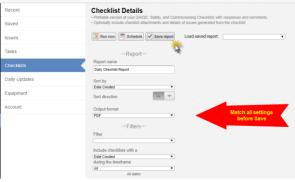
#### Recommendations

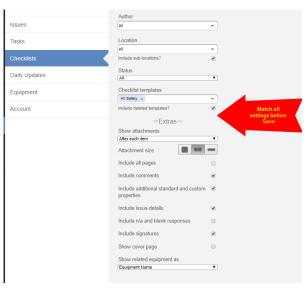
- Plan out Sections of your Audits
- Be consistent in your Response Types
- Plan which checklist templates to be added to project
- Have Checklist exports for easy future editing.
- Create Saved Reports for Issues and Checklists.

#### Warnings

- Create a Multi-List Answer that needs updates a lot. Too much administration
- Manage Custom Properties on Unique Checklists
- Too Large of Audits are difficult to Scroll on IPad App









#### **API and Data Harvesting**

API Documentation Link: <a href="https://bim360field.autodesk.com/apidoc/index.html#mobile\_api\_method\_1">https://bim360field.autodesk.com/apidoc/index.html#mobile\_api\_method\_1</a> SSOE wrote a Custom BIM 360 Harvester Application with the Rest API.

Get

```
public class API {
private string _url;
private loken_token;
private strong login = "/api/login";
private string login = "/api/login";
private string login = "/api/login";
private string _project = "/api/projects";
private string _project = "/api/rogicts";
private string _project = "/api/rogicts";
private string _contacts = "/api/templates";
private string _contacts = "/api/templates";
private string _get_tasks = "/api/get_tasks";
private string _get_checklists - "/api/get_checklists';
private string _get_checklists - "/api/get_checklists';
private string _get_locations = "/fieldapi/companies/locations";
private string _get_locations = "fieldapi/api/sivations";
private string _get_companes = "fieldapi/api/sivations";
private string _get_companies = "/fieldapi/companies/locations";
private string _get_companies = "/fieldapi/companies/locations";
private string _get_issue type = "/fieldapi/companies/locations";
private string _get_issue + "/fieldapi/companies/locations = "/api/get_sivates/locations = "/api/locations = "/ap
```

Project



Companies

#### Checklists



- Questions
- Issues



#### **Post**

We chose to Push our Company data.

### POST /api/companies

Description: Returns a list of companies in the specified project.

DEPRECATED .. backwards compatible support only! See GET /fieldapi/companies/v1

Access: FREE

Return: [JSON] - Returns an array of companies defined in the project specified.

Parameters:

max\_date: string - If specified, only retrieve companies that have been created or updated after this date.

ticket: string - The ticket obtained from the login call.

project\_id : string - The ID of the project to perform this action against.

 Our master vendors live in Deltek we update monthly or as needed to BIM 360 Enterprise Location.