**eRoof**

**Project Inspection System**

**July 4, 2010**

**Project Inspection System**

1 Overview 3

2 Sections.Projects tab 4

3 Company.Projects tab 5

4 Inspection dictation program (AIR) 6

4.1 Data Structures 6

4.2 Main Screen 6

4.3 Edit Form 7

4.4 Upload 8

5 Playback controls 9

6 Report 10

# Overview

The project inspection system consists of the following components:

* A Projects tab at the Sections level that allows for creation and editing of new projects and inspections (completed).
* A Projects tab at the company (Aegis) level that will list all projects, with the same information and editing functions as in the Projects tab at the Sections level, except that projects can not be added.
* An AIR application that will be used on-site to capture inspection photos and dictation for uploading into eRoof.
* Playback functions that will be used to enter dictation.
* An inspection report.

Specifications for each of these items are provided in following sections.

# Sections.Projects tab

This function has been completed.

This screen is used to create new projects.

The screen may also be used to enter inspections, activity records, and photos. Alternatively, these inspection details may be uploaded using the inspection data capture program described in the next section.

The following changes are required.

* Change the project list grid and the inspection list grid to the same width.
* Display the project list in descending order – recent inspection first.
* Display the inspection list in descending order – recent inspections first.
* Position lost
  + A project was created
  + Two inspections were added
  + The first inspection was selected
  + An activity record was added.
  + A second activity record was added.
  + Screen incorrectly went to the second inspection, and new information added did not display, but was displayed when the first inspection was re-selected.
* The browse function on my computer is unable to locate root folders – shows the C: drive as empty!

# Company.Projects tab

* Add a Projects tab (3rd tab) at the top level of the tree – Aegis – Company Summary page.
* Same screens as in the Sections. Projects tab – but listing all projects.
* The projects form should have the following view-only fields at the start.

Client Name Acme Corp

Facility Name Head Office

Section A – Warehouse

* The project Add function will not be available - projects must be added at the section level, or through an upload.

# Inspection dictation program (AIR)

## Data Structures

* All data will be in folder C:\Inspections
* This folder will contain project folders, with the names matching the eRoof project names.
* The project folder will contain sub-folders for each inspection with the inspection number.
* Each inspection folder will contain the following files:
  + General.mpg
  + Activity.mpg
  + Photo1.jpg, Photo1.mpg
  + Photo2.jpg, Photo2.mpg
* All folders will be created manually.
* Each inspection folder will be created when the photos are transferred from the camera.

## Main Screen

The following screen is displayed when the application starts.

**Inspection System**

**Date Time Inspection**

Jun 26 2:00 pm ING 100 Yonge/02 Edit Upload

Jun 26 10:00 am ING 200 Bloor/01 Edit Upload

Jun 25 10:00 am ING 100 Yonge/01 Edit Upload

* The date and time will be the date and time that the folder was created.
* List in Descending sequence – recent inspections first.
* The inspection name is the folder name
* The edit and upload links (or buttons) will invoke the screens on the following pages.

## Edit Form

The following form will be displayed for recording of inspection data.

Exit

Playback

Record

Playback

Record

Exit

Record

Playback

**Inspection System**

Project ING 100 Yonge/02

**GENERAL INFORMATION**

Date, Time, Weather

Forman, Number of Crew working

**ACTIVITIES**

Provide details on each activity – name, progress today, cumulative progress

**PHOTOS**



---- repeat for each photo ----

The following functions are available:

* Record/ Playback general information
* Record/Playback activities
* Record/ Playback photo annotations – one recording for each photo
* All recordings are saved immediately to disk, overriding any previous recording.

Notes

* The photos can all be placed on one screen – as long as the scroll position can be retained.
* Otherwise – tabs should be used.
* Is it possible to continue a recording (append to previous content)?
* Is it possible to show the duration of the record?

## Upload

Inspections will be uploaded by clicking the upload button on the inspection list.

Ok

**Upload Form**

Uploading inspection ING 100 Yonge St/2

The following logic is required:

* Locate the project in eRoof by searching for a project with a project name that matches the project name in the file folder name. If no matching project is found, display an error and return to the project list.
* Create a new inspection record, using the inspection number from the folder name. If the inspection is already present, display an error message and return to the project list.
* Upload General.mpg and Activity.mpg files as File Attachment fields in the Project Inspections record.
* Create a Project Inspection Photos record for each photo in the folder.
* Upload the Photo.mpg files as File Attachment fields in the Project Inspection Photos records.
* Display a progress bar based on the number of photos uploaded.

(A counter would also be sufficient - uploading phone 1 of 5)

* The Ok button should be disabled until the upload is completed.

# Playback controls

Three playback controls are required:

On the Inspection Form

* Playback of General.mpg

On the header of the Activities grid

* Playback of Activities.mpg

On the Photos form

* Playback of the recording for the photo.

Notes

* The playback will need to allow data entry during the playback.
* Pause/ rewind/ forward controls will be required, and must be available during form entry.
* Foot pedal usage will be investigated.
* Can these controls be disabled is there is no recorded content?
* Can the duration be displayed on the button i.e. Play (20 sec) ?

# Report

Report specs have been provided.

Add button “Print Inspection Report”

* Add on top line of the Inspections grid – to the left of the Add button.
* Add on the Sections.Projects page and the Company.Projects page