Certainty Software Release Notes

Version 4.7

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Contents

Overview

The 4.7 release of Certainty contains the new Vision and Insights features, bringing the power of artificial intelligence directly to your audits and inspections, as well as a suite of additional ease of use and performance improvements.

New features in this release

- ✔ Vision and Insights
- ✔ Reaudits and Copy Submissions
- ✔ Media Library
- ✔ Schedule Improvements
- ✔ Bug Fixes and Ease of Use Improvements

Vision

Key Vision Features:

- ✔ Vision utilizes automation technology to quickly, easily, and accurately complete audit and inspection questions based on the analysis of images and PDF attachments.
- ✔ Each automation-generated answer includes a confidence score, ensuring transparency and trust in the results and the data needed to continually improve data accuracy over time.
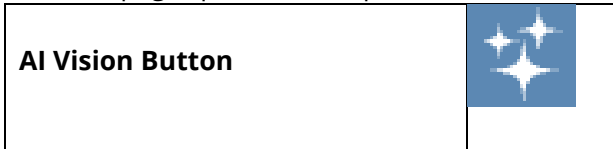- ✔ Vision is an optional feature and must be enabled for your instance to be available.

Examples of how Vision can be used:

- Analyze photos of a worker in a manufacturing environment to automatically complete a behavioral-based safety observation.
- Analyze videos of a construction site to complete a job site safety inspection quickly, easily and efficiently.
- Analyze photos of a semi-trailer to automatically complete a vehicle safety inspection.
- Analyze a supplier's Sustainability Policy to help complete supplier sustainability due diligence assessments.
- Analyze images of products on the manufacturing assembly line to detect defects or deviations from quality standards.
- Analyze videos of machinery or equipment to identify signs of wear or failure, assisting in predictive maintenance.

How does it work?

- ✔ The new Vision feature in Certainty introduces the capability to automatically answer questions and complete checklists in the Certainty app by analysing images and PDFs.
- ✔ An Administrator can enable Vision and define instructions (prompts) for how Vision should analyze images and PDF files added by users completing checklists.
- ✔ Users can upload images and PDF files for Vision analysis directly through the Certainty app when completing checklists.

✔ Users completing checklists in the Certainty app will see a Vision symbol where Vision has been enabled (at checklist, page, question set or question level). Clicking the Vision symbol will bring up the Vision menu, where they can begin the process for the associated checklist/page/question set/question.

AI Vision Button	

✔ These submissions are then sent to a designated AI Engine, where advanced algorithms process images and interpret data to provide accurate answers to the posed questions given the predetermined instructions (prompts) set by the Administrator.
✔ Vision returns results and the user can choose to use the results to complete the checklist, discard the results or try again.

Example - Images Submitted for a BBS PPE question set:

In the following example, the user attaches several images through the question set and then selects the AI vision button at the question set level.

Visions returns results:

AI Vision Results   ✕

AI Vision Results: 5 out of 8 answers provided.

Summary: The AI analysis focused on Personal Protective Equipment (PPE) usage in a construction or industrial setting. The results show a strong adherence to safety protocols, with all observed PPE being used correctly and in good condition. The worker was noted wearing appropriate hand protection, eye protection, a hard hat, and a high-visibility vest while using a tablet device. Interestingly, several questions were marked as "Not Applicable" (NA) due to the limited scope of the image, including those related to fall protection, respirators, and hearing protection.

Suggestions: To improve future assessments, users could upload images that:
1. Show workers at elevated heights to evaluate fall protection systems.
2. Capture areas with potential airborne hazards to assess respirator usage.
3. Include environments with high noise levels to check hearing protection practices.
4. Provide closer views of PPE items to better evaluate their condition.

Disclaimer: Certainty AI Vision can make mistakes.

[Try Again]   [Discard Results]   [Use Results]

Insights

Key Insights Features:

✔ The new Insights feature can help you extract and report customizable insights from a completed checklist.

✔ Insights transforms your raw data into valuable, relevant, and actionable intelligence.

✔ Insights can automatically generate an Executive Summary for a completed checklist.

✔ Insights automatically identifies and summarizes key risks to your business based on the results of completed checklists.

✔ Insights instantly flags incomplete checklist answers and those that need to be reviewed.

✔ Insights generates recommendations for corrective and preventive actions for a completed checklist.

✔ Insights automatically generates a confidence score for the accuracy of completed checklists.

✔ Insights is an optional feature and must be enabled for your instance to be available.

How does it work?

✔ The new Insights feature in Certainty introduces the capability to automatically send completed checklists to an AI Engine for analysis and extraction of specific Insights (data points) from each completed checklist.

✔ Users can then access and report on these data points, significantly augmenting Certainty's data analysis capabilities and leveraging the insights to enhance decision-making.

✔ Insights can be configured by Administrators on a checklist-by-checklist basis.

✔ An Administrator adds a prompt to guide the analysis and specify when the analysis should take place.

✔ An Administrator selects an AI Engine (AI Engines can be customized through our Professional Services team).

✔ When an Insights analysis is triggered, the system sends a completed checklist in PDF format via API to the selected AI Engine. The PDF will include images and supporting documentation. Once analysed, the AI Engine returns a set of Insights (data points) which are individually saved for that completed checklist and can be reported on.

✔ A primary Insight can be selected and will be visible in a new AI Insight column in the completed checklist grid. Other insights will be visible in a new AI Insights sub-grid.

#	Checklist	Site	User	Date	Identifier	Score
103	Behavioral Based Safety (BBS) Observation Checklist	Berlin	Certainty Admin	Aug 15, 2024, 12:50:52 PM		41/45 (91.11%)
Snapshot id	Source	Workflow step		Processed	OCR errors	
101	Electronic			Aug 15, 2024, 1:21:45 PM		

AI Insights   Answers   Actions   Additional Users   History   Workflow History

Insight ▾   Value ▾

Insight ↑↓	Value ↑↓
Checklist Score	41/45 (91.11%)
Date	15 August 2024
Department	Maintenance
Environment and Work Areas	Safe in 11/14 criteria
Ergonomics	Safe in 7/7 criteria
Location	British Columbia, Canada
PPE Compliance	Safe in 6/6 criteria
Procedures	Safe in 3/3 criteria
Shift	Day
Tools and Equipment	Safe in 5/6 criteria

10 Items   ⟳ Refresh   « ‹ 1 › »   10 ▾

Reaudits and Copy Submissions

The new Reaudit and Copy features enable users to perform 'follow up' audits based on an existing submission. Answers, actions, files, and photos can be pre-filled based on the original submission. Users can opt to choose question by question if they want to reuse a previous answer (Reaudit) or they can copy all answers in a previous submission and edit only select answers (Copy). Default answers have also received a few ease-of-use updates allowing answers from submissions to become the 'default' for future submissions.

Allow photos	☑
Allow files	☑
Allow actions	☑
Allow reaudit	☑
Enable copy	☑
Action workflows	Add action workflows
Allow additional users	☐
Enable scoring	☑
Initial score	0

Media Library

The Media Library is a new tab on the Completed Checklists menu. Images and other files added to checklists completed using Vision will appear here and can be previewed, filtered, and downloaded. Each image and file in the Media Library link directly to the corresponding completed checklist for easy viewing of insights, answers, actions, and other details.

Schedule Improvements

Multiple users can now be tied to the same checklist submission, allowing several users to be scheduled to work on the same submission, rather than each starting their own.

Various Bug Fixes and Ease of Use Improvements

Usability improvements to the filter menus in Actions as well as a variety of minor bugs have also been addressed and fixed in this release.

Thank you for your continued input on the Certainty platform and if you have any product issues or ideas for new features, we always welcome your feedback!