



Yadle for AEC

Architecture, Engineering, and Construction firms continue to transform their businesses with the continuing adoption of digital technologies. These technologies – software applications, cloud services, job site scanning, AR/VR – allow new capabilities and opportunities that did not exist even a few years ago.

A common element of all digital technologies is the production and consumption of data, often in the form of files. The volume of new files is large and continuous. While this has potential to improve AEC activities on many fronts, there is a human impact to be considered: how do I find what I need?

Remote workers, files stored in multiple locations, cloud migrations, and new file types are increasing the daily challenges your workers have finding files needed to complete their projects. Files are often duplicated, creating confusion about what revision to use. Information is stored in silos based on service or geographic locations, making it impossible to find.

The negative impact of not finding files ripples through your organization. Delays in workflow are common as people hunt for the files they need. Project accuracy may be impacted as people under time pressure may choose to use an older or inferior version of a file. Your IT infrastructure is impacted as people duplicate files in their own private folders in an attempt to know where files are. Storage capacity is wasted on unnecessary duplicates and expanding the footprint of offline & backup storage. Help-desk requests expand as people ask for help in finding files.



The problem of finding files needed to do your job is very real and very expensive:

- “19.8% of business time – the equivalent of one day per working week – is wasted by employees searching for information to do their job effectively”. Source: [A Fifth of Business Time is Wasted Searching for Information, says Interact](#)
- IDC data shows that “the knowledge worker spends about 2.5 hours per day, or roughly 30% of the workday, searching for information....60% [of company executives] felt that time constraints and lack of understanding of how to find information were preventing their employees from finding the information they needed.” Source: [Information: The Lifeblood of the Enterprise](#).
- “According to McKinsey report, employees spend 1.8 hours every day—9.3 hours per week, on average—searching and gathering information. Put another way, businesses hire 5 employees but only 4 show up to work; the fifth is off searching for answers, but not contributing any value.” [Source: The social economy: Unlocking value and productivity through social technologies.](#)
- In 2018, in the [Definitive Guide to America’s Most Broken Processes](#), Nintex has conducted a survey of 1,000 U.S. full-time employees across industries and departments. 39% of the people interviewed observed broken document management processes:
 1. 49% said they have trouble locating documents
 2. 43% have trouble with document approval requests and document sharing
 3. 33% struggle with the document versioning



The Yadle Solution - File Intelligence

With roots in the Visual Effects industry and a strong focus on visual content, Yadle is a powerful amplifier for the file-based workflows of the AEC community. Our file discovery and data collection technologies gather deep information about your files, making them accessible in useful ways by both people and systems.

Yadle is an easy to use application that continuously collects, analyzes, augments, and visualizes your files. We call this **File Intelligence** and it provides deep knowledge about your file content, who is using a file, where files are located, and how your files flow in & out of your organization.

The **File Intelligence** data is available to humans and machines to find and take action on needed files. Finding files in Yadle is done using contextual terms such as “window” or “wood” or “precedence”, not file or folder names (although you can do that too!).

Yadle File Channels allow your files to be organized into safe virtual sets that fit into your workflow, without actually moving files around.

The result is that Yadle solves the problem of lost files by removing the need to think in terms of file and folder names. Yadle lets us find files quickly using human-friendly terms and phrases we already associate with the files.

With Yadle, people can find the files they need and focus on being productive, saving time, money, and resources while building an effective and exciting future.



Yadle File Intelligence

Yadle ROI - People

Your people want to work on productive, interesting tasks – they want to focus on what they were hired to do. Artists want to create images, architects want to design. Being unable to quickly find and use needed files is a wasteful distraction from these primary activities

Using Yadle, your people quickly locate exactly what they need, allowing them to focus on being creative and productive - and recovering 9+ hours a week of wasted time looking for files.

Tools in Yadle: file search, file tags, file annotations, visualization of 2D, 3D, and video files.

Key benefits: time efficiency, cost savings, increased accuracy, reduced rework

ROI: Yadle users greatly reduce time wasted looking for needed files, saving up to \$11,000 per year in wasted time per employee. By providing Yadle search to employees, your teams can focus on their primary roles. Employee satisfaction increases when people can quickly find assets they need to complete tasks. This lowers employee turn-over, increases retention of key people, and helps create a positive work environment.

Using Yadle will reduce time wasted on looking for files, lower stress on teams, and improve job satisfaction. This increases time spent on creative & design activities, and results in faster time-to-market delivery of projects.



Yadle ROI – Workflow

AEC companies use file-based workflows. Architects, designers, & artists save their work as files, and these files form the foundation of project knowledge. A single worker delayed because they cannot find the file they need can impact all participants. The costs of such delays can impact the entire project, exposing firms to potential penalties and litigation.

Yadle can let you manage and solve workflow issues like:

-  - No organized folder of site pictures to document progress and mistakes.
-  - Weak peer review process so many damaging mistakes slip through in plans
-  - Weak integration between architecture plans and engineering structural and mechanical plans.

Tools in Yadle: file tags, file annotations, File Channels

Key benefits: time efficiency, cost savings, increased accuracy, reduce rework

ROI: Yadle makes file-based workflows more efficient by using File Channels, tags, and file annotations to organize and identify files as they move through your project. Users can capture institutional knowledge by adding tags and comments to files.

Yadle File Channels let you organize and manage files by project, use, vendors and customers – without actually moving files, and can be used to control file access for internal and external collaborators. The results from searching File Channels enable efficient visual brainstorming of photos, drawings, and models without loading them into another application.

Yadle's File Channels, tags, and annotations provide powerful tools to enhance your workflow. It works seamlessly with your existing workflow, reducing development costs by improving efficiency and clarity of your projects.



Yadle ROI - IT

It is a reality of today's business environment that your files reside in many locations. Managing storage across multiple geographic locations as well as those in cloud services is difficult. This challenge is compounded by new IT practices such as migration to the cloud or moving files to cloud-based object stores.

Storing files across multiple locations and services invites unnecessary duplication of files. These duplicates increase the size and cost of provisioned storage and produce larger backup sets.

Moving files to the cloud introduces confusion as files are moving, forcing users to rediscover when files they need are now located.

Yadle continuously tracks the file activities in your organization. This includes files stored or in the cloud. Yadle also determines if files are duplicates by the actual file contents, not by filenames or size.

The result of Yadle continuously monitoring the life cycle of your files is deep knowledge of how files are used, when they are used, and where they are used. File Intelligence allows you to use this knowledge to easily manage files no matter where they are stored.

Tools in Yadle: search, Insights, tags, RESTful API,

Key benefits: optimize storage, reduce duplicate files, view historic and projected storage use

ROI: Yadle can optimize your storage by identifying duplicate files. This not only lowers storage & backup costs, but also reduces user confusion by helping to eliminate old or obsolete files from user access.

Yadle tags can be used to identify files sets that moved offline or to object store, allowing everyone to easily find files that are no longer on active file systems. This reduces IT costs and improves file recovery times.

Yadle File Intelligence and Insights provide deep knowledge of your file's life cycle to simplify file-related IT tasks, freeing your IT staff to work on more important tasks.