



CONSTRUCTION MANAGEMENT

ExeVision's Construction Management Subsystem (CMS) is a part of the integrated Project Development (iPD) solution, focused on providing an easy-to-use web application for recording construction data. CMS tracks and maintains data including project documents, Daily Diaries, Project Ledger/Quantity Book, and Contractor Pay Estimates, and utilizes the Electronic Field Book (eFieldBook™) application on hand held devices to gather and synchronize field and inspection data with the home office CMS.

ExeVision's iPDWeb Construction Management solution provides an automated method of tracking the various events that occur during a construction project, resulting in more efficient, accurate, and timely contractor payments.

Using the CMS web-based subsystem, the agency records daily work activities including the quantities of work performed and other critical activities related to construction projects that affect processing contractor payments—for example, Weather, Time Charges,

The screenshot displays the iPDWeb Construction Management Subsystem (CMS) interface. The main content area shows a detailed view for project entry 21-00527-00-RS3. The interface includes a navigation menu on the left with options like 'Daily Report', 'Quantity Book', 'Pay Estimate', and 'Subcontracting'. The main view is divided into several sections:

- Daily Comment:** BD McKinley - 10/28/2021 5:20:41 PM. Ongoing material delivery challenges - guardrails
- Weather:** A table showing weather conditions for AM and PM. AM: Clear, 58, Calm. PM: Overcast, 63, Light.
- Productivity:** A table showing productivity metrics. Working: 100%, Productivity: Normal.
- Activities:** A table listing activities such as 'Phone Call' and 'Shop Drawing' with their respective last update by and comments.
- TRANSCORE ITS LLC - Comments:** A table showing comments from the creator, BD McKinley, such as 'On site with no issues today.'
- Equipment and Labor:** Two tables showing equipment and labor resources. Equipment includes Air Compressor (2), Dump Truck (1), Concrete Saw (1), and Backhoe (1). Labor includes Foreman (1), Skilled (3), and Flaggers (1).

iPDWeb Construction Management Subsystem (CMS)

Activities, Equipment, Labor, Diary Entries, etc. These entries may be made with the web-based CMS application or through ExeVision's eFieldBook field data collection application. From these entries, reports are generated based on the daily work completed, the overall percentage of project complete, funding and payment information, etc. Custom reporting is available using the intuitive and user-friendly ad hoc reporting engine and reporting dashboards may be created from report outputs.

Contract Payment Processing

Financial allocations can be managed for a contract by adding funding sources for the projects, adding or modifying funding sources at a category level, or even setting specific funding sources on an item-by-item basis. Funding can be split by assigning funding source by percentage including minimum and maximum amounts and can be prioritized by "rolling-over" to other funding sources when a pre-determined amount or percentage has been reached. Finally, work entries are compiled into pay estimates, including the ability for authorized users to include or exclude items. Calculations take place "on-the-fly" so that item-dependent amounts such as mobilization, fuel adjustments, etc., are not reflected in the totals. Additionally, items not included in the current pay estimate will automatically show up on subsequent, future pay estimates until they are approved and included on a pay estimate.

CMS provides a wide variety of reports used by the project manager to analyze the project status including monthly progress and pay estimate reports. Additional reports may be created by non-technical users with the ad-hoc reporting tool that facilitates the creation of one-off or specialized reports.

Change Orders & Subcontracts

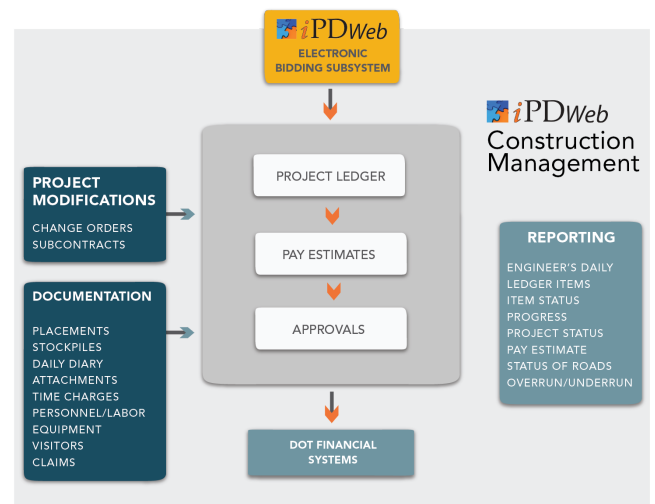
ExeVision has eliminated much of the communication complexity of change orders and subcontracts between the agency and the contractor by integrating that communication within the contractor's web-based application—iCXWeb. iCX is used by contractors to create, submit, and track electronic bids but equally important for construction projects is the ability for change order and subcontract information to flow effortlessly between the agency's construction management application (iPD CMS) and the contractor's application (iCX-Web). In iCX, Contractors create and manage subcontracts (including subcontract payments) and interact with agency personnel on subcontract approvals, change order approvals, etc. Contractors are notified within the application of change orders and their potential impact on DBE subcontract commitments. The transportation agency is likewise notified of potential impacts to a contractor's DBE subcontract commitment for a project. Contractors also use iCX to record payments to subcontractors and the integration between iCX and iPD allows the ongoing review of critical compliance factors such as prompt payment. CMS also supports processes that allow contractors to approve/disapprove payments and time charges if the agency uses such processes.

Electronic Field Book (eFieldBook)

The Electronic Field Book (eFieldBook) application supports the use of mobile devices to view items and project data from the home office CMS application and collect field data, even when working on remote sites where direct network connections are not available. Engineers or inspectors document daily work activities at the project site, including pay items and quantities of work performed, labor and equipment used

by the contractor and subcontractors, daily time charges, daily weather conditions and temperatures at the project site, diary information including project inspections, and instructions to the contractor.

The eFieldBook downloads project pay items and other project information from the central CMS to the portable device and electronically uploads the daily work information through the device's synchronization functionality. CMS manages the coordination of all information being uploaded and downloaded from multiple engineers and inspectors working on the same project and ensures that a single consistent view of the project is maintained using data received from many different sources.



About ExeVision

ExeVision, Inc., is the developer of the iPDWeb solution, a comprehensive, project development system fully integrating all functional aspects of road and bridge construction from estimate creation and electronic bidding, through final contractor payment. ExeVision is also the creator of the iCXWeb application, designed to assist contractors in the creation and submission of responsive bids and facilitate seamless bid communication between contractors and the agency. These two solutions provide substantial time and cost savings for the state transportation agencies that have implemented them. ExeVision has been developing and deploying mission critical applications for over 25 years and is a Utah based company.

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