

Resource allocation and utilization

Automatically assigns team members with appropriate skills and availability to new architecture and engineering projects while tracking utilization rates.

Optimizes resource allocation to maximize billable hours and prevent over/under-staffing across the firm.

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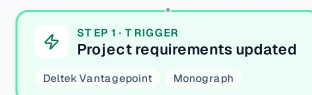
WORKFLOW TRIGGER



New project is created or existing project scope changes in project management system

Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.





Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

Project requirements updated

A new project is initiated or an existing project's scope, timeline, or resource requirements are modified in the project management system. This triggers the resource allocation workflow to begin.

2

 ACTION

Extract project skill requirements

Parse project details to identify required disciplines (structural, MEP, architectural design, etc.), experience levels, and estimated hours per skill type. Map these requirements to available staff competencies.

Deltek Vantagepoint

BQE Core

3

 ACTION

Analyze current team availability

Query resource management systems to determine current workload, scheduled time off, and availability windows for all team members. Calculate current utilization rates and capacity.

Unanet

Ajera

4

 DECISION

Evaluate resource capacity match

Compare project requirements against available resources and current utilization rates. Determine if adequate capacity exists internally or if external resources are needed.

Monograph

BQE Core

5

 ACTION

Generate optimal team assignments

Create recommended staff assignments based on skills match, availability, and utilization targets. Prioritize assignments that balance workload and maintain target billable hour goals.

Deltek Vantagepoint

Unanet

6

 ACTION

Update project schedules automatically

Populate project management system with assigned team members, their allocated hours, and updated project timeline based on resource availability. Block assigned time in individual calendars.

Newforma

Monograph

7

 OUTPUT

Distribute allocation notifications

Send automated notifications to project managers, assigned team members, and department heads with finalized resource assignments and updated project schedules. Include utilization impact analysis.

Deltek Vantagepoint

BQE Core



Outputs

- Optimized team assignments with skills matching

AI Business OS

- Updated project schedules with resource allocation
- Automated calendar blocking for assigned staff
- Resource utilization impact reports



Key Metrics

- Team utilization rate percentage
- Average time to assign resources
- Skills-to-project match accuracy
- Project staffing completion rate



Tools & Integrations

- Deltek Vantagepoint
- Monograph
- BQE Core
- Unanet
- Ajera
- Newforma

AI Business OS

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