

TAPS – Primavera P6 Barcode Updating

Are you spending too much time getting status updates into your P6 schedule leaving no time to analyze the results?



CUSTOMER COMMENTS

"We have used this system for progressing Primavera scheduled activities for 3 turnarounds now and I and everyone who has used it for updating are most favorably impressed with the speed and accuracy achieved. What used to take an experienced user 1 ½ hours to 2 hours to update manually now can be done in ½ an hour to ¾ of an hour and can be done accurately by a less experienced user".

Lead TA and Construction Scheduler, Suncor Energy

"I have to say that the TAPS system provided by Emerald is one of the more efficient, easy to use, and accurate systems I've had the opportunity to use while working with Primavera. Thanks for this great tool. Progressing activities is no longer a work of drudgery."

Lead Scheduler/Planner

THE PROBLEM

Shutdowns and Turnarounds are expensive, time sensitive and high profile projects that must be executed with military precision to ensure the plant is up and productive when promised. Schedule updates, work forecasts and productivity analyses are done daily to keep crews on track and give management key information to get the project done on time.

Updating hundreds or thousands of activities individually at the end of each shift is a big roadblock to getting updates completed and ensuring the next shift is productive. The entire scheduling team typically spends the bulk of the update window frantically entering status updates, adding found work and removing unneeded scope instead of analyzing the schedule and optimizing the upcoming work to gain resource efficiencies and cost savings.

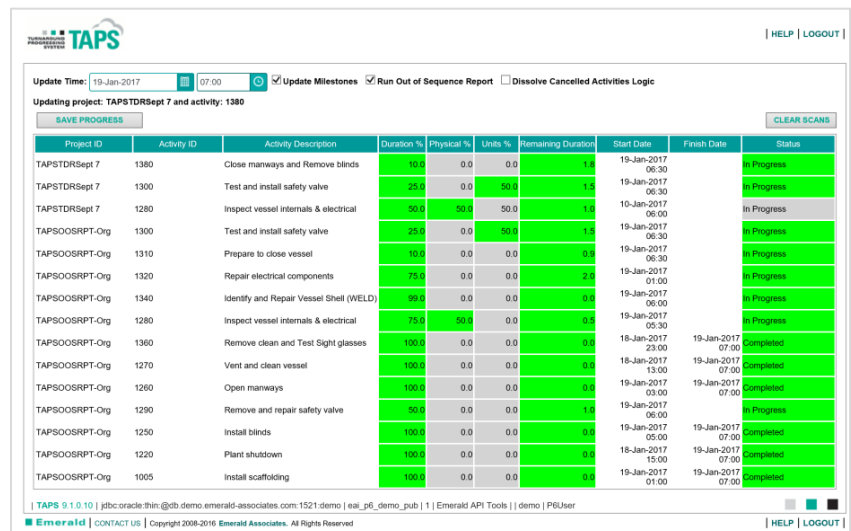
THE SOLUTION

With TAPS®, instead of searching for one activity among thousands and then manually updating the start, finish and percent complete, the scheduler simply uses a barcode scanner to find, start and update any activity within the schedule with two fast scans:

1. The first scan references the activity and finds it in Primavera P6.
2. The second scan can start, finish and status the activity based on the reported progress. The second scan can even remove cancelled scope in one step.

Updating with TAPS saves time-consuming keystrokes, prevents data entry mistakes, and allows less experienced users to perform the update work.

After all the activities have been scanned and updated the on-screen data can be reviewed for accuracy. To fix any mis-scans, simply re-scan and save.



The screenshot shows the TAPS interface with a table of activity updates. The table has columns for Project ID, Activity ID, Activity Description, Duration %, Physical %, Units %, Remaining Duration, Start Date, Finish Date, and Status. The data is as follows:

| Project ID | Activity ID | Activity Description | Duration % | Physical % | Units % | Remaining Duration | Start Date | Finish Date | Status |
|----------------|-------------|---|------------|------------|---------|--------------------|-------------------|-------------------|-------------|
| TAPSTDRSept 7 | 1380 | Close manways and Remove blinds | 100.0 | 0.0 | 0.0 | 0.0 | 19-Jan-2017 06:30 | 19-Jan-2017 06:30 | In Progress |
| TAPSTDRSept 7 | 1300 | Test and install safety valve | 25.0 | 0.0 | 50.0 | 1.5 | 19-Jan-2017 06:30 | 19-Jan-2017 06:30 | In Progress |
| TAPSTDRSept 7 | 1280 | Inspect vessel internals & electrical | 50.0 | 50.0 | 50.0 | 1.0 | 10-Jan-2017 06:00 | 19-Jan-2017 06:00 | In Progress |
| TAPSOOSRPT-Org | 1300 | Test and install safety valve | 25.0 | 0.0 | 50.0 | 1.5 | 19-Jan-2017 06:30 | 19-Jan-2017 06:30 | In Progress |
| TAPSOOSRPT-Org | 1310 | Prepare to close vessel | 10.0 | 0.0 | 0.0 | 0.3 | 19-Jan-2017 06:30 | 19-Jan-2017 06:30 | In Progress |
| TAPSOOSRPT-Org | 1320 | Repair electrical components | 75.0 | 0.0 | 0.0 | 2.9 | 19-Jan-2017 01:00 | 19-Jan-2017 01:00 | In Progress |
| TAPSOOSRPT-Org | 1340 | Identify and Repair Vessel Shell (WELD) | 99.0 | 0.0 | 0.0 | 0.3 | 19-Jan-2017 06:00 | 19-Jan-2017 06:00 | In Progress |
| TAPSOOSRPT-Org | 1280 | Inspect vessel internals & electrical | 75.0 | 50.0 | 0.0 | 3.3 | 19-Jan-2017 05:30 | 19-Jan-2017 05:30 | In Progress |
| TAPSOOSRPT-Org | 1360 | Remove clean and Test Sight glasses | 100.0 | 0.0 | 0.0 | 0.0 | 18-Jan-2017 23:00 | 19-Jan-2017 07:00 | Completed |
| TAPSOOSRPT-Org | 1270 | Vent and clean vessel | 100.0 | 0.0 | 0.0 | 0.0 | 18-Jan-2017 13:00 | 19-Jan-2017 07:00 | Completed |
| TAPSOOSRPT-Org | 1260 | Open manways | 100.0 | 0.0 | 0.0 | 0.0 | 19-Jan-2017 03:00 | 19-Jan-2017 07:00 | Completed |
| TAPSOOSRPT-Org | 1290 | Remove and repair safety valve | 50.0 | 0.0 | 0.0 | 1.9 | 19-Jan-2017 06:00 | 19-Jan-2017 07:00 | In Progress |
| TAPSOOSRPT-Org | 1250 | Install blinds | 100.0 | 0.0 | 0.0 | 0.0 | 19-Jan-2017 05:00 | 19-Jan-2017 07:00 | Completed |
| TAPSOOSRPT-Org | 1220 | Plant shutdown | 100.0 | 0.0 | 0.0 | 0.0 | 18-Jan-2017 15:00 | 19-Jan-2017 07:00 | Completed |
| TAPSOOSRPT-Org | 1005 | Install scaffolding | 100.0 | 0.0 | 0.0 | 0.0 | 19-Jan-2017 01:00 | 19-Jan-2017 07:00 | Completed |

Barcode Data Review Screen – TAPS v9 Interface

TECHNICAL SPECS

- IE 9 or newer/ Firefox/ Chrome/ Safari/ Edge;
- An industry standard barcode scanner (such as Symbol 3408);
- No client JRE is required – TAPS is now a pure web application;

Server

- 1 GB RAM
- 5 GB free disk space
- Primavera API or Web Services;
- Windows 2003 or newer or Linux;
- No server JRE is required – TAPS install as a native Linux or Windows application.

THE BENEFIT

Schedule updates that previously took a lot of man-hours are completed in minutes. Emerald's Turnaround Progressing System (TAPS) cuts your shift statusing time and increases your accuracy by up to 75%. Less expensive resources can take on the updating tasks, giving your experienced schedulers the time to analyze and act on the schedule update results, as well as issue the shift reports on time.

PRODUCT HIGHLIGHTS

What's New

- TAPS v9 built using HTML5 with all Java removed - compatible with all browsers and mobile devices
- Improved user interface highlights updated data
- Update activities with any of the percent complete types available in P6
- Calculate Earned Value at the resource assignment level using duration percent complete or physical percent complete – making EV reporting more accurate
- Customize crew reports and status percentages to your business
- Uses P6 API or Web Services so P6 security is respected

Saves Time

- 75% faster status updates while increasing accuracy
- Shift reports completed on time with less stress
- Removes cancelled work automatically
- Highlights out-of-sequence tasks

Saves Money

- No training or Primavera P6 skills necessary
- Deploy TAPS v9 anywhere with minimal support from IT
- Allows more time for analysis and critical path compression

Implementation
Automation
Integration
Training
Risk Analysis
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Turnaround Assistance
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hq 403.686.7100 ■
toll free 1.877.316.6005 ■
emerald@emerald-associates.com ■
www.emerald-associates.com ■

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