

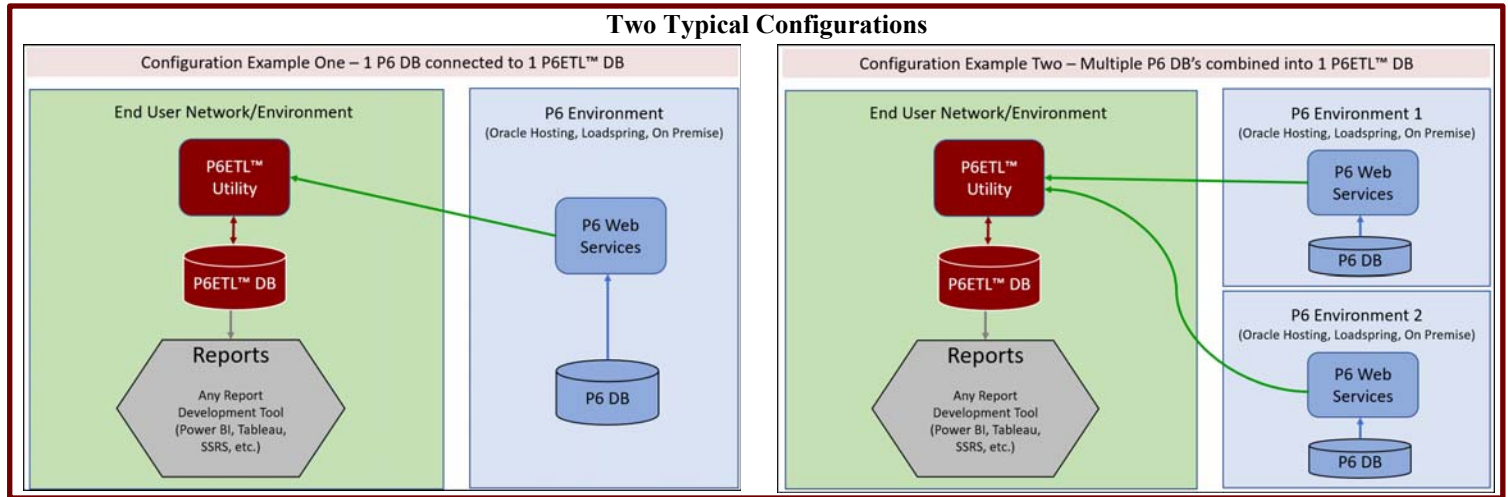
Many hosted P6 environments, such as Oracle Hosting, restrict access to your P6 Database for Report Development and Data Analysis

P6ETL™ Solves that Problem!

Overview

P6ETL™ is a software utility that extracts P6 data from a P6 hosted environment using P6 Web Services and loads the P6 data into the P6ETL™ Database. The P6ETL™ Database is a Microsoft SQL Server Database. Once the P6 data is in the P6ETL™ Database, BI reports can be created against the P6ETL™ Database using any BI report development tool that supports Microsoft SQL Server.

The P6ETL™ Database scheme is very similar to the P6 Reporting Database scheme created during the publishing step in P6 EPPM however P6ETL™ is not dependent on the P6 EPPM's publishing step. P6ETL™ extracts data directly from the P6 Database using P6 Web Services.



Features

Version 1.3.0.x populates 60 P6 tables in the P6ETL™ Database. Using these 60 P6 tables, users can create robust BI reports using tools such as Power BI. See report examples on next page. The 60 tables are:

• P6ACTIVITY	• P6CALENDAR	• P6PROJECTFUNDING	• P6RISKMATRIXSCORETYPE
• P6ACTIVITYCODE	• P6COSTACCOUNT	• P6PROJECTNOTE	• P6RISKRESPONSEACTION
• P6ACTIVITYCODEASSIGNMENT	• P6EPS	• P6PROJECTRESOURCE	• P6RISKRESPONSEACTIONIMPACT
• P6ACTIVITYCOMMENT	• P6EPSHIERARCHY	• P6PROJECTSPENDINGPLAN	• P6RISKRESPONSEPLAN
• P6ACTIVITYEXPENSE	• P6EXPENSECATEGORY	• P6RELATIONSHIP	• P6RISKSCOREMATRIX
• P6ACTIVITYNOTE	• P6FINANCIALPERIOD	• P6REPORTDATE	• P6RISKSCORETYPE
• P6ACTIVITYPERIODACTUAL	• P6FUNDINGSOURCE	• P6RESASSIGNMENTPERIODACTUAL	• P6RISKTHRESHOLDLEVEL
• P6ACTIVITYRISK	• P6LOCATION	• P6RESOURCEASSIGNMENT	• P6RISKTYPE
• P6ACTIVITYSPREAD	• P6NOTEBOOKTOPIC	• P6RESOURCEASSIGNMENTSPREAD	• P6ROLE
• P6ACTIVITYSTEP	• P6OBS	• P6RESOURCECODE	• P6UDFTYPE
• P6BASELINETYPE	• P6OVERHEADCODE	• P6RESOURCECODEASSIGNMENT	• P6USEROBS
• P6BLACTIVITY	• P6PROJECT	• P6RESOURCES	• P6USERS
• P6BLACTIVITYSPREAD ⁽¹⁾	• P6PROJECT_UDFVALUE	• P6RISK	• P6WBS
• P6BLPROJECT	• P6PROJECTBUDGETCHANGELOG	• P6RISKIMPACT	• P6WBSCATEGORY
• P6BLRESOURCEASSIGNMENTSPREAD ⁽¹⁾	• P6PROJECTCODEASSIGNMENT	• P6RISKMATRIXSCORE	• P6WBSHIERARCHY

(1) Only available in the P6ETL™ DB. These tables do not exist in P6's Reporting DB.

Features (cont.)

- **Extracts P6 Data from Hosted Environments**

P6ETL™ extracts P6 data from hosted environments such as Oracle Hosting, OCI, Loadspring, and even your own on-premise environment, and then P6ETL™ loads the P6 data into the P6ETL™ Database. The primary requirement for P6ETL™ is that the P6 environment must be running the SOAP version of P6 Web Services. P6 Web Services is a standard component in the P6 enterprise editions.

- **Robust Database Scheme that mimics the P6 Reporting Database found in P6 EPPM**

The P6ETL™ Database is a robust reporting database and it is based on the same reporting database that BI Publisher developers use when developing BI Publisher Data Models. HOWEVER – P6ETL™ is not dependent on the publishing step in P6 EPPM. P6ETL™ uses P6 Web Services to extract data directly from the P6 Database.

The P6ETL™ Database has all the calculated and time-phased data needed for advanced report development. And the column names in the P6ETL™ Database match the column names used on P6 layouts created in P6 PPM or P6 EPPM.

- **Combine Multiple P6 Databases**

To simplify report development, P6ETL™ can combine 2 or more P6 Databases into a single P6ETL™ Database for portfolio-level and enterprise-wide consolidated P6 reporting.

- **Split One P6 Database into Multiple P6ETL™ Databases**

For those situations where users need to provide P6 data to partners or clients for specific projects, P6ETL™ can extract specific projects from P6 and load the project data into separate P6ETL™ Databases.

- **Snapshot**

P6ETL™ has a Snapshot feature that can be configured to create daily, weekly, and/or monthly snapshots of both global and project data. Snapshots are similar to baselines. Using the Snapshot data, reports can be developed to compare project data between the current active projects and any previous Snapshot for those projects. With Snapshot data, reports can be developed to identify trends and to analyze projects over time.

- **Project Filtering**

Instead of loading all project data into the P6ETL™ Database, P6ETL™ has several filtering options that can be applied to control which projects and baselines are extracted from P6 and loaded into the P6ETL™ Database. For example, a filter can be created that only extracts projects under a specific EPS node. Or apply an additional Project Code filter to further narrow down the list of projects to be loaded into the P6ETL™ Database.

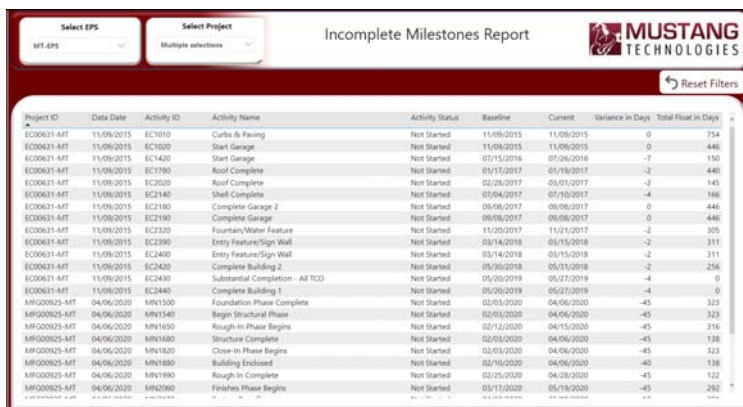
- **Automatically Synchronize the P6ETL™ Database**

After the P6ETL™ Database is initially loaded, scheduled tasks are configured to update the P6ETL™ Database on a daily-basis or throughout the day (depending on the number and size of the projects to be updated). P6ETL™ runs in batch mode, not real-time mode, therefore the data in the P6ETL™ Database could be several hours older than the data in the P6 Production Database.

Report Examples

Below are a few Power BI report examples developed by Mustang to demonstrate the types of reports that can be developed using the 60 P6 tables in the P6ETL™ Database. Mustang can provide a live demonstration of these reports during a presentation.

Mustang does not provide Power BI Reports with the P6ETL™ licenses. Report development is handled as a separate service.



Project ID	Data Date	Activity ID	Activity Name	Activity Status	Baseline	Current	Variance in Days	Total Float in Days
EC00631-AJT	11/09/2015	EC1010	Carbs & Faving	Not Started	11/09/2015	11/09/2015	0	754
EC00631-AJT	11/09/2015	EC1009	Start Garage	Not Started	11/09/2015	11/09/2015	0	446
EC00631-AJT	11/09/2015	EC1420	Start Garage	Not Started	07/15/2016	07/26/2016	-7	150
EC00631-AJT	11/09/2015	EC1780	Roof Complete	Not Started	01/17/2017	01/19/2017	-2	440
EC00631-AJT	11/09/2015	EC2020	Roof Complete	Not Started	02/28/2017	03/01/2017	-2	143
EC00631-AJT	11/09/2015	EC2140	Shell Complete	Not Started	07/04/2017	07/10/2017	-4	166
EC00631-AJT	11/09/2015	EC2180	Complete Garage 2	Not Started	09/08/2017	09/08/2017	0	446
EC00631-AJT	11/09/2015	EC2190	Complete Garage	Not Started	09/08/2017	09/08/2017	0	446
EC00631-AJT	11/09/2015	EC2320	Fourtary/Water Feature	Not Started	11/20/2017	11/21/2017	-2	305
EC00631-AJT	11/09/2015	EC2390	Entry Feature/Sign Wall	Not Started	03/14/2018	03/15/2018	-2	311
EC00631-AJT	11/09/2015	EC2400	Entry Feature/Sign Wall	Not Started	03/14/2018	03/15/2018	-2	311
EC00631-AJT	11/09/2015	EC2430	Complete Building 2	Not Started	09/30/2018	09/31/2018	-2	256
EC00631-AJT	11/09/2015	EC2430	Substantial Completion - All TCO	Not Started	09/30/2019	09/27/2019	-4	0
EC00631-AJT	11/09/2015	EC2440	Complete Building 1	Not Started	09/20/2019	09/22/2019	-4	0
MR000925-AJT	04/06/2020	MR1500	Foundation Phase Complete	Not Started	02/03/2020	04/06/2020	-45	323
MR000925-AJT	04/06/2020	MR1540	Begin Structural Phase	Not Started	02/03/2020	04/06/2020	-45	323
MR000925-AJT	04/06/2020	MR1650	Rough-In Phase Begins	Not Started	02/12/2020	04/15/2020	-45	316
MR000925-AJT	04/06/2020	MR1680	Structure Complete	Not Started	02/03/2020	04/06/2020	-45	336
MR000925-AJT	04/06/2020	MR1820	Close-In Phase Begins	Not Started	02/03/2020	04/06/2020	-45	323
MR000925-AJT	04/06/2020	MR1880	Building Enclosed	Not Started	02/10/2020	04/06/2020	-40	138
MR000925-AJT	04/06/2020	MR1990	Rough In Complete	Not Started	02/25/2020	04/28/2020	-45	122
MR000925-AJT	04/06/2020	MR2090	Finalize Phase Begins	Not Started	02/17/2020	05/19/2020	-45	292

With the **Incomplete Milestone Report**, users can view all incomplete milestones for 1 or more projects, a specific EPS node, or all EPS nodes.

The screenshot displays the 'Projects by EPS Report' interface. At the top, there's a dropdown for 'Select EPS' (MT-EPS) and a 'Projects by EPS Report' title. Below is a Gantt chart showing project bars from March 2017 to June 2021. A table below the chart provides project details:

Project ID	Project Name	Data Date	Project Manager	Start Date	Finish Date	Must Finish By Date	Anticipated Finish Date	Forecast Finish Date	Budget Cost	Actual Cost	At Completion Cost
EC00915-1	City Center Office Building Expansion	03/21/2021	Chris Fell	01/16/2016	12/28/2017	03/31/2021	04/30/2021	12/28/2017	\$1,000,000	\$0	\$540,539
EC00935-1	Nebrid Building Expansion	10/12/2015	Chris Fell	10/12/2015					\$100,000		
EC00910-MT	Hudson Pointe Assisted Living Center	09/22/2019	Mary Jones	09/30/2014	10/01/2021	10/01/2021	10/01/2021		\$3,400,000		
EC00611-MT	Saratoga Senior Community	11/09/2015	Mary Jones	11/09/2015	04/30/2021	05/31/2021	04/30/2021		\$4,000,000		
MF020023-MT	Melrose - Plant Expansion & Modernization	04/06/2020	Serge Cortez	07/01/2010	04/01/2021	07/01/2021	04/01/2021				

The **Projects by EPS Report** provides a Gantt Chart with all the projects in a specific EPS node. The bars on the Gantt Chart show the start of the project, the Data Date, and the end of the project.

The triangle on the Gantt Chart is P6's **Must Finish by Date**.

The table below the Gantt Chart provides project details.

The screenshot displays the 'Filtered Activities Report' interface. It features several filter dropdowns: 'Select Activity Type' (All), 'Select Activity Status' (Not Started), 'Select Activity Phase' (All), 'Select Activity Responsibility' (All), and 'Select Activity Key Milestone'. A 'Reset Filters' button is also present. Below the filters is a table with the following columns: Project ID, Activity ID, Activity Name, Activity Type, Status, Phase, Responsibility, Key Milestone, Start, Finish, Planned Units, Actual Units, At Comp. Units, Variance, and Non-Planned.

Before applying any filters, the **Filtered Activities Report** lists all activities in the P6ETL™ Database. From there, users can set a variety of filters that are applied across EPS nodes and projects to narrow the list of activities.

For example, the user can list all **In Progress Task** Dependent activities for a specific EPS node that has a specific **Responsibility** activity code.

The screenshot displays the 'Progress Report' interface. It includes dropdowns for 'Select EPS' (All) and 'Select Project' (NSC0910-MT). There are also dropdowns for 'Select Contractor' (Zach Companies), 'Select Phase' (All), and 'Select Responsibility' (All). A 'Reset Filters' button is located below the dropdowns. The main visual is a bar chart showing 'Baseline, Planned and Actual' progress from February 2021 to June 2021. Below the chart is a data table with columns for dates from 01/05/21 to 01/05/21 and rows for Baseline, RT Baseline, Planned, RT Planned, Actual, and RT Actual.

With the **Progress Report**, users can view the daily progress for a whole project or the progress on a subset of activities.

For example, this report can show the daily progress for a subcontractor during the pre-turnaround phase.

The screenshot displays the 'Schedule Compliance Report' interface. It has a left sidebar with filters for 'All', 'EBC', 'Energy', 'Manufacturing', 'ProcDev', 'ProdProg1', 'ProdProg2', 'Corporate', 'In-Flight', 'Pipeline', 'In-Flight 2', 'IT', 'USB 1', 'USB 2', and 'MT-EPS'. The main area shows 'Avg Score', 'EPC Ret Comp', and 'Exercises' tabs. A bar chart titled 'Average Compliance Score' shows scores for EBC (62%), Energy (62%), and Manufacturing (64%). Below the chart is a table with columns: EPS / Project ID, ID, Name, Must Finish By Date, Project Score, Data Date, Project % Complete, Actvs Org, Actvs Comp, Actvs Act, Business Process, Location, Project Manager, Project Status, and Project Type.

EPS / Project ID	ID	Name	Must Finish By Date	Project Score	Data Date	Project % Complete	Actvs Org	Actvs Comp	Actvs Act	Business Process	Location	Project Manager	Project Status	Project Type	
EC20818		Haking Corporate Park	08/27/21	64%	08/27/21	0	0	0	0		Thomas Chen	In Progress	CapEx	Construction	
EC20819		City Center Office Building Expansion	08/26/21	45%	08/26/21	0	0	0	0		Chris Fell	Planned	CapEx	Construction	
EC20820		Nebrid Building Expansion	12/21/15	3%	12/21/15	0	0	0	0		Chris Fell	Planned	CapEx	Construction	
EC20814		Hudson Pointe Assisted Living Center	08/21/21	0%	08/21/21	0	0	0	0	Construction		Mary Jones	In Progress	CapEx	Construction
EC20822		Juniper Nursing Home	08/27/18	0%	08/27/18	0	0	0	0	Construction		Serge Cortez	In Progress	CapEx	Construction
EC20863		Saratoga Senior Community	11/09/15	0%	11/09/15	0	0	0	0	Construction		Mary Jones	Planned	CapEx	Construction
EC20814		Alaska University - Anchorage	08/24/21	64%	08/24/21	0	0	0	0		Anchorage	Mary Jones	Planned	CapEx	Construction

With the **Schedule Compliance Report**, managers can identify projects that are not coded to the company's standards which is usually a requirement for standardize reporting.

In addition to identifying missing data and incomplete data, this report scores each project and group of projects.

For a presentation, please contact Mustang Technologies at (920) 883-9048 or email us at info@MustangTechnologies.com
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