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P6 EPPM CPP Import/Export Data Map Guide

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About CPP Import/Export Data Map Guide

This guide details how data is mapped between P6 EPPM and the US Department of Energy's CPP format.

All users who want to exchange data between various formats should use this document.

Note: All date fields are exported as date only, without the time. All units, durations, and float fields are exported as hours.

Caution: Personal information (PI) may be at risk of exposure. Depending on local data protection laws organizations may be responsible for mitigating any risk of exposure.

AutoMap Functionality

To populate the CPP project, you must map the relevant CPP fields to appropriately configured codes, UDFs, or notebook topics. The Auto Map feature searches P6 EPPM codes, UDFs, and notebook topics for names matching the required CPP fields and configures the mapping accordingly. Alternatively, you can create the mapping manually or use a mixture of manual mapping and Auto Map to populate the map.

If you select to run Auto Map when some of the CPP fields have already been mapped, P6 gives two options:

- ▶ You can choose to retain the fields that have already been mapped and Auto Map will map only those fields that have not yet been mapped.
- ▶ Or you can choose to remap all fields.

The table below describes the fields Auto Map searches in order to populate the CPP mapping for each data type. The order of priority is used to determine which code, UDF, or notebook topic to map if there are multiple codes, UDFs, or notebook topics with names similar to the CPP field name being mapped.

CPP DS Code	CPP Field Name	Priority 1	Priority 2	Priority 3	Priority 4	Priority 5
DS_04	description	Activity UDF	Activity Code (Global)	Activity Code (EPS)	Activity Code (Project)	
DS_04	subtype	Activity Code (Global)	Activity Code (EPS)	Activity UDF	Activity Code (Project)	

CPP DS Code	CPP Field Name	Priority 1	Priority 2	Priority 3	Priority 4	Priority 5
DS_04	milestone_level	Activity UDF	Activity Code (Global)	Activity Code (EPS)	Activity Code (Project)	
DS_04	milestone_level_description	Activity UDF	Activity Code (Global)	Activity Code (EPS)	Activity Code (Project)	
DS_04	WBS_ID	WBS UDF	Activity UDF	Activity Code (Global)	Activity Code (EPS)	Activity Code (Project)
DS_04	justification_WBS	WBS UDF	Activity UDF	Activity Code (Global)	Activity Code (EPS)	Activity Code (Project)
DS_04	CAM	WBS UDF	Activity Code (Global)	Activity Code (EPS)	Activity UDF	Activity Code (Project)
DS_04	EVT	WBS UDF	Activity Code (Global)	Activity Code (EPS)	Activity UDF	Activity Code (Project)
DS_04	justification_EVT	WBS UDF	Activity Code (Global)	Activity Code (EPS)	Activity UDF	Activity Code (Project)
DS_04	justification_float_high	Activity UDF	Activity Code (Global)	Activity Code (EPS)	Activity Code (Project)	
DS_04	justification_lag	Activity UDF	Activity Code (Global)	Activity Code (EPS)	Activity Code (Project)	
DS_04	RMT_ID	Activity Code (Global)	Activity Code (EPS)	Activity UDF	Activity Code (Project)	
DS_04	justification_constraint_hard	Notebook Topics	Activity UDF	Activity Code (Global)	Activity Code (EPS)	Activity Code (Project)
DS_04	justification_constraint_soft	Notebook Topics	Activity UDF	Activity Code (Global)	Activity Code (EPS)	Activity Code (Project)

CPP DS Code	CPP Field Name	Priority 1	Priority 2	Priority 3	Priority 4	Priority 5
DS_04	justification_constraint_secondary	Notebook Topics	Activity UDF	Activity Code (Global)	Activity Code (EPS)	Activity Code (Project)
DS_04	HDV_CI_ID	Activity Code (Global)	Activity Code (EPS)	Activity UDF	Activity Code (Project)	
DS_06	EOC	Resource Code	Assignment Code	Resource UDF	Assignment UDF	

Data Mappings During Export

DS05 Schedule Logic

CPP Field Name	CPP Field Description	P6 Source
PARSID	Project Assessment and Reporting System identifier for the project submitted.	Entered in the template.
CPP_status_date	Contractor "as-of" date.	Entered in the template.
schedule_type	Describes whether the schedule is a baseline (BL) or forecast (FC).	Project type
task_ID	Task identifier of the successor.	Successor's Activity ID.
predecessor_task_ID	Task identifier of the predecessor.	Predecessor's Activity ID.
type	Determines whether the relationship between task and predecessor is finish to start (FS), start to start (SS), start to finish (SF), or finish to finish (FF)	Relationship Type

CPP Field Name	CPP Field Description	P6 Source
lag_days	Task relationship lag, based on predecessor's calendar. A positive figure represents lag, a negative figure represents lead.	Lag
subproject_ID	Unique subproject identifier.	Project Short Name of the predecessor activity's project.

DS04 Schedule

CPP Field Name	CPP Field Description	P6 Source
PARSID	Project Assessment and Reporting System identifier for the project submitted.	Entered in the template.
CPP_status_date	Contractor "as-of" date.	Entered in the template.
\$schema	The JSON schema for this object.	Visible in the template. Not editable.
schedule_type	Describes whether the schedule is a baseline (BL) or forecast (FC).	Project type (baseline or project).
task_ID	Task identifier.	Activity ID
type	Describes whether the task is an activity (A) or milestone (M).	Activity Type Task dependent, resource dependent, level of effort, and WBS summary activities are assigned the type A. Start milestones and finish milestones are assigned the type M.

CPP Field Name	CPP Field Description	P6 Source
description	Unique task description. This description should include a verb. This field is mandatory.	Mapped in the template.
subtype	Task subtype selection. Restricted to: "SVT", "ZBA", or null. SVT is a schedule visibility activity and is used to characterize potential impacts to the logic-driven network. Tasks of subtype SVT can be activities or milestones, but should not be performance management baseline activities, nor should they be resource loaded. The EVT (earned value technique) for SVT tasks defaults to level of effort. ZBA is a zero budget activity and is used for fixed-price procurements. Tasks of subtype ZBA should be used on a limited basis and should not be resource loaded. The task_description for a ZBA activity must be prefixed with "Payment Milestone\". The EVT (earned value technique) for ZBA tasks defaults to level of effort.	Mapped in the template.
milestone_level	Milestone level selection for tasks of DS04.type M, that identify key milestones, deliverables, and control point dates. The schedule should include exactly one task with a milestone level of either 170 or 175 to signify the end of the project. Restricted to the values described in <i>Milestone Level Descriptions</i> (on page 13).	Mapped in the template.
WBS_ID	Work package (WP) or planning package (PP) WBS identifier. This field is mandatory.	Mapped in the template.
justification_WBS	Justification narrative for situations where the WBS_ID is not WP or PP.	Mapped in the template.

CPP Field Name	CPP Field Description	P6 Source
CAM	Control account manager name in the format: <Last Name> <First Name> <Optional Middle Initial> Characters allowed are A-Z (Upper and lower case, latin characters only), 0-9, apostrophe, hyphen, and underscore. This field is mandatory.	Mapped in the template.
EVT	The earned value technique used. Milestones should have have EVT set to NA. If the EVT is coded as H, J, L, M, N, O, or P, provide an explanation in DS04.justification_EVT. Restricted to the values described in EVT Selection Descriptions (on page 14).	Mapped in the template.
justification_EVT	Justification narrative where DS04.EVT is H, J, L, M, N, O, or P.	Mapped in the template.
ES_date	Early start date.	Early Start
EF_date	Early finish date.	Early Finish
LS_date	Late start date.	Late Start
LF_date	Late finish date.	Late Finish
AS_date	Actual start date.	Actual Start
AF_date	Actual finish date.	Actual Finish
duration_original	Original duration calculated using the activity calendar.	Original Duration / Planned Duration
duration_remaining	Remaining duration calculated using the activity calendar.	Remaining Duration
duration_actual	Actual duration calculated using the activity calendar.	Actual Duration
float_free	Free float calculated using the activity calendar.	Free Float
float_total	Total float calculated using the activity calendar.	Total Float

CPP Field Name	CPP Field Description	P6 Source
justification_float_high	Justification narrative for high float. The value for high float is calculated as 10% of the number of calendar work days between the CPP_status_date and the end of the project. The end of the project for this definition is the early finish date of the final milestone of the project, i.e. the task with the milestone level of 170 or 175.	Mapped in the template.
justification_lag	Justification narrative for lag on relationship to predecessor. This should be populated when the value of DS05.lag_days is greater than zero.	Mapped in the template.
driving path	Determines whether the task is on the longest path or (in P6) the driving path. Restricted to: <ul style="list-style-type: none"> ▶ Y ▶ N 	Longest Path
risk_ID	A semicolon-separated list of risks assigned to the task. The list of risks is only required if there is no Risk Mitigation Task (RMT) assigned to the task. Maximum length: 50 characters.	Risk IDs assigned to the Activity.
RMT_ID	Unique identifier for a Risk Mitigation Task. Do not provide an RMT if there are risks assigned to the task listed in the risk_ID field. Maximum length: 50 characters.	Mapped in the template.
PC_type	The percent complete type of the task. Restricted to: <ul style="list-style-type: none"> ▶ duration ▶ physical ▶ units 	Percent complete type

CPP Field Name	CPP Field Description	P6 Source
PC_duration	Duration percent complete of the task, rounded to two decimal places. The value should be between zero and one.	Duration % Complete divided by 100.
PC_physical	Physical percent complete of the task, rounded to two decimal places. The value should be between zero and one.	Physical % Complete divided by 100.
PC_units	Units percent complete of the task, rounded to two decimal places. The value should be between zero and one.	Units % Complete divided by 100.
constraint_type	Primary constraint type. Restricted to the values described in <i>Constraint Selection Descriptions</i> (on page 15).	Primary Constraint Type
constraint_date	Primary constraint date.	Primary Constraint Date
justification_constraint_hard	Justification narrative if the constraint_type is a hard constraint.	Mapped in the template.
justification_constraint_soft	Justification narrative if the constraint_type is a soft constraint.	Mapped in the template.
justification_constraint_secondary	Justification narrative for secondary constraints applied to activities. Note: Although P6 EPPM allows secondary constraints, the CPP format does not.	Mapped in the template.
HDV_CI_ID	High dollar value critical item identifier. Maximum length: 50 characters.	Mapped in the template.

CPP Field Name	CPP Field Description	P6 Source
calendar_name	Calendar name.	Calendar
subproject_ID	Unique subproject identifier, which can be used for SVT tasks or multi-project schedules.	Project ID

Milestone Level Descriptions

Milestone Level	Description
1xx	DOE O 413.3B milestones. All 1xx are considered DS04.task_subtype SVT, unless otherwise noted.
100	approve start project
110	approve CD-0
111	approve CD-0R-01
112	approve CD-0R-02
120	approve CD-1
121	approve CD-1R-01
122	approve CD-1R-02
130	approve CD-2
131	approve BCP-01
132	approve BCP-02
133	approve BCP-03
134	approve BCP-04
135	approve BCP-05
138	approve reprogramming (not SVT) (Specify if OTB and/or OTS in DS04.milestone_level_description)
139	approve replan (not SVT)
140	approve CD-3A
141	approve CD-3B

142	approve CD-3C
143	approve CD-3D
144	approve CD-3E
145	approve CD-3F
150	approve CD-3
160	approve CD-4A
161	approve CD-4B
162	approve CD-4C
163	approve CD-4D
164	approve CD-4E
165	approve CD-4F
170	planned/estimated completion without UB
175	planned/estimated completion with UB
180	contract completion
190	approve CD-4
195	approve closeout
199	approve finish project
2xx	contract driven milestones and periods of performance
3xx	customer driven milestones. All 3xx are considered DS04.task_subtype SVT.
4xx	programmatically driven milestones
5xx	major internal driven milestones
6xx	minor internal driven milestones
7xx	external driven milestones, e.g., regulatory, consent decree. All 7xx are considered DS04.task_subtype SVT.
8xx	subK alignment milestones.

EVT Selection Descriptions

EVT Value	EVT Description
A	Level of effort
B	Weighted milestones

C	Percent complete
D	Units complete
E	50-50
F	0-100
G	100-0
H	Variation of 50-50
J	Apportioned
K	Planning package
L	Assignment percent complete
M	Calculated apportionment
N	Steps
O	Earned as spent
P	Percent manual entry

Constraint Selection Descriptions

Constraint Name	Constraint Type	Notes
NA	None	-
CS_ASAP	As Soon As Possible	-
CS_MANDSTART	Mandatory Start	Hard constraint. Provide justification in DS04.justification_constraint_hard
CS_MSO	Must Start On	Hard constraint. Provide justification in DS04.justification_constraint_hard.
CS_MSOA	Must Start On Or After	Soft constraint: DS04.justification_constraint_soft.
CS_MSOB	Must Start On Or Before	Hard constraint. Provide justification in DS04.justification_constraint_hard.
CS_MANDFIN	Mandatory Finish	Hard constraint. Provide justification in DS04.justification_constraint_hard.
CS_MEO	Must Finish On	Hard constraint. Provide justification in DS04.justification_constraint_hard.
CS_MEOA	Must Finish On Or After	Soft constraint: DS04.justification_constraint_soft.
CS_MEOB	Must Finish On Or Before	Hard constraint. Provide justification in

		DS04.justification_constraint_hard.
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DS06 Schedule Resources

CPP Field Name	CPP Field Description	P6 Source
PARSID	Project Assessment and Reporting System identifier for the project submitted.	Entered in the template.
CPP_status_date	Contractor "as-of" date.	Entered in the template.
schedule_type	Describes whether the schedule is a baseline (BL) or forecast (FC).	Project type
task_ID	Task identifier. This field cannot be empty.	Activity ID (Successor)
resource_ID	Resource identifier.	Resource ID
resource_name	Resource name.	Resource Name
type	Resource type.	Resource Type
EOC	Element of cost describes whether the cost associated with the resource is related to labor, subcontract, materials, overheads, or " other direct costs". Restricted to: <ul style="list-style-type: none"> • labor • material • ODC • overhead • subcontract 	Mapped in the template.
start_date	Resource start date.	Start Date of the assignment.
finish_date	Resource finish date.	Finish Date of the assignment.
budget_dollars	Total budget in dollars.	Planned Cost
actual_dollars	Total actual in dollars.	Actual Cost

CPP Field Name	CPP Field Description	P6 Source
remaining_dollars	Total remaining in dollars.	Remaining Cost
budget_units	Total budgeted units. The units of measure are specified in the UOM field.	Planned Units
actual_units	Total actual units. The units of measure are specified in the UOM field.	Actual Units
remaining_units	Total remaining units. The units of measure are specified in the UOM field.	Remaining Units
UOM	Unit of measure for budgeted_units, actual_units, and remaining_units fields.	If the resource type is labor or nonlabor, the value of the UOM is "h". If the resource is a material the value of UOM is derived from the Unit of Measure for the material resource. If a material unit has not been specified, the value is "units".
lag_planned_days	Task relationship planned lag, based on predecessor's calendar. A positive figure represents lag, a negative figure represents lead. This field cannot be empty.	Planned Lag
lag_remaining_days	Task relationship remaining lag, based on predecessor's calendar. A positive figure represents lag, a negative figure represents lead. This field cannot be empty	Remaining Lag

CPP Glossary

Abbreviation	Description
#	number

\$RAM	dollarized RAM
Ac	ACWP cumulative
Act	actual
ACWP	actual cost of work performed
ACWPC	ACWP cumulative
ACWPI	ACWP incremental
AF	actual finish
Ai	ACWP incremental
AS	actual start
ASAP	as soon as possible
ATC	at completion
auth	authorization
AUW	authorized unpriced work
BAC	budget at completion
BCP	baseline change proposal
BCR	baseline change request
BCR-C	BCR usage of contingency
BCR-M	BCR usage of MR
BCR-P	BCR usage of UB
BCWP	budgeted cost for work performed
BCWPC	BCWP cumulative
BCWPI	BCWP incremental
BCWS	budgeted cost for work scheduled
BCWSc	BCWS cumulative
BCWSi	BCWS incremental
bgt	budget
BL	baseline
BOM	bill of material
c	cumulative
CA	control account
CAL	corrective action list
CAM	control account manager

CBB	contract budget base
CC	change control
CD	critical decision
CFSR	contract funds status report
CI	critical item
CLIN	contract line item number
cmp	type of EVMS cost tool software file
CNT	DOE contingency
col.	column
con	contract
CPP	contractor project performance
CPP+1	CPP, 1 month future
CPP-1	CPP, 1 month prior
CPP-2	CPP, 2 months prior
CPP-3	CPP, 3 months prior
CPP-5	CPP, 5 months prior
CPPSD	CPP supporting documentation
CS	constraint
csv	comma-separated value
cum	cumulative
CV	cost variance
D	direct
DB	distributed budget
DID	data item descriptions
DMS	document management system
DOE	U.S. Department of Energy
e.g.	for example
EAC	estimate at completion
EACc	EAC cumulative
EACi	EAC incremental
EE	Office of Energy Efficiency and Renewable Energy
EF	early finish

EFCO	Energy Facility Contractors Group
EIA	Electronic Industries Alliance
EM	Office of Environmental Management
EOC	element of cost
ES	early start
est	estimate
ETC	estimate to complete
ETCc	ETC cumulative
EU	estimate uncertainty
EV	earned value
EVM	earned value management
EVMS	earned value management system
EVT	earned value technique
F	format
F	FTE
fav	favorable
FC	finish constraint
FC	forecast
FE	Office of Fossil Energy
FF	finish to finish
FF	flat file
FFTSCS	flat file to source crosswalk spreadsheet
FIFO	first-in, first-out
FS	finish to start
FY	fiscal year
GAO	U.S. Government Accountability Office
GL	guideline
H	hours
HDV	high dollar value
I	indirect
i.e.	that is
ID	identifier

IMP	integrated master plan
IMS	integrated master schedule
inc	incremental
IP2M	integrated project/program management
IPMR	integrated program management report
JSON	JavaScript object notation
K	thousands of dollars
LF	late finish
LIFO	last-in, first-out
LOE	level of effort
LS	late start
M	milestone
M	month
max.	maximum
METRR	maturity and environment total risk rating
MIN	minimum
min.	minimum
MR	management reserve
NA	National Nuclear Security Administration
NA or N/A	not applicable
NCC	negotiated contract cost
NDIA	National Defense Industrial Association
NE	Office of Nuclear Energy
neg	negotiated
no	number
NTE	not-to-exceed
O	order
OBS	organization breakdown structure
ODC	other direct costs
OE	Office of Electricity
org	original
OTB	over-target baseline

OTS	over-target schedule
P	period
PARS	Project Assessment and Reporting System
PASEG	Planning & Scheduling Excellence Guide
PB	performance baseline
PBB	project budget base
Pc	BCWP cumulative
pct	percent
PEP	project execution plan
perf	performance
Pi	BCWP incremental
PM	contractor project manager
PM	Office of Project Management
PMB	performance measurement baseline
PMP	project management plan
POP	period of performance
PP	planning package
PRJ	project summary
QBD	quantity basis document
QRA-CL	quantitative risk analysis confidence level
qty	quantity
RAM	responsibility assignment matrix
RC	root cause
rel	relationship
rem	remaining
rep	representative
RMT	risk mitigation task
RP	reporting period
RP	reporting period date (the associated CPP status date)
RP+1	next RP
RPG	formal reprogramming analysis
rpg	reprogramming adjustment

RPT	report
SC	Office of Science
SC	schedule contingency
SC	start constraint
SD	system description
SF	start to finish
SLPP	summary level planning package
SM	schedule margin
SOP	standard operating procedure
SOW	scope of work
SR	schedule reserve
SS	start to start
subK	subcontract
subktr	subcontractor
SV	schedule variance
SVT	schedule visibility task
TAB	total allocated budget
TCPI	to-complete performance index
tgt	target
tot	total
trn	transaction
UB	undistributed budget
UCNI	unclassified controlled nuclear information
unfav	unfavorable
UOM	unit of measure
v	version
VAC	variance at completion
VAR	variance
W	whole dollars
w/	with
w/o	without
WAD	work authorization document

WBS	work breakdown structure
WP	work package
WPM	WP manager
X	numerator value or test flags
xer	type of IMS software file
Y	denominator value or test population
ZBA	zero budget activity

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