

## Data mappings for Primavera Contractor and Microsoft Project (MSP)

The following tables describe the data exchange mapping between Primavera Contractor and Microsoft Project. Although the data mapping between both products is as close as possible for the purpose of import/export, Primavera Contractor was not designed to be another Microsoft Project. Therefore, some information may be lost when importing and exporting.

**Important!** Due to slight variations in how Primavera Contractor and Microsoft Project calculate units and costs, values for units and costs may not be identical when exchanging data between Primavera Contractor and Microsoft Project.

**Note:** Refer to the Primavera Contractor application Help or the Contractor Reference Manual for Microsoft Project import/export considerations.

### DATA MAPPINGS DURING PRIMAVERA CONTRACTOR EXPORT

<b>Options (from MSP Tools menu)</b>			
<b>Contractor Field</b>	<b>Contractor Table Field</b>	<b>Contractor Table</b>	<b>MSP Field</b>
<b>View tab</b>			
Currency Symbol	curr_symbol	CURRTYPE	Symbol
Positive Currency Format	pos_curr_fmt_type	CURRTYPE	Placement
Number of Decimal Places	decimal_digit_cnt	CURRTYPE	Decimal digits
<b>Schedule tab</b>			
Durations Format Unit of Time	user_data	USERDATA	Duration is entered in
Default Duration Type	def_duration_type	PROJECT	Default task type
<u>CONTRACTOR Field</u> Fixed Duration and Units/Time Fixed Duration and Units Fixed Units/Time Fixed Units		<u>MSP Field</u> Fixed Duration Fixed Duration Fixed Units Fixed Work	
Units Format Unit of Time	user_data	USERDATA	Work is entered in
Units per Time format	user_data	USERDATA	Show Assignment Units as a
<b>Calendar tab</b>			
Work Hours Per Day	day_hr_cnt	PREFER	Hours per day
Work Hours Per Week	week_hr_cnt	PREFER	Hours per week
Fiscal Year Begins	fy_start_month_num	PROJECT	Fiscal year starts in

<b>Calculation tab</b>			
Critical Activities	critical_drtm_hr_cnt	PROJECT	Tasks are critical if slack is less than or equal to __ days

- The currency settings exported are based on the currency selected in the User Preferences, Currency tab in Primavera Contractor.

<b>Project</b>			
Contractor Field	Contractor Table Field	Contractor Table	MSP Field
<b>Project Properties</b>			
Project Name/WBS Name	wbs_name	PROJWBS	Title
Notebook Description	wbs_memo	WBSMEMO	Comments
User Defined Field Title	User Defined Field*	UDFVALUE	Manager
User Defined Field Title	User Defined Field*	UDFVALUE	Subject
User Defined Field Title	User Defined Field*	UDFVALUE	Category
User Defined Field Title	User Defined Field*	UDFVALUE	Keywords
<b>Project Information</b>			
Default Project Calendar	clndr_id	PROJECT	Calendar
Data Date	data_date	PROJECT	Start date and Status date
n/a	defaults to Project Start Date	n/a	Schedule from
n/a	calculated by MSP	n/a	Current Date**

<b>Resource</b>			
Contractor Field	Contractor Table Field	Contractor Table	MSP Field
n/a	auto-generated by MSP	n/a	ID
Resource Name	rsrc_name	RSRC	Name
Resource ID	rsrc_short_name	RSRC	Initials
Max Units/Time	max_qty_per_hr	RSRC	Max Units
Price/Unit	cost_per_qty	RSRC	Standard Rate
Price/Unit*Overtime Factor	cost_per_qty*ot_factor	RSRC	Overtime Rate
Resource Name (of parent)	rsrc_name (of parent)	RSRC	Group
E-Mail Address	email_addr	RSRC	Email Address
Resource Type (labor, equipment, material)	rsrc_type	RSRC	Type (work= labor or

			equipment, material = material)
Unit of Measure	unit_abbrev	UMEASURE	Material Labor
Units & Prices	start_date cost_per_qty cost_per_qty2 cost_per_qty3 cost_per_qty4 cost_per_qty5	RSRCRATE	Cost Rate Tables
<u>CONTRACTOR Field</u> Effective date Price/Unit 1-5		<u>MSP Field</u> Effective Date Standard Rate (A-E)	
Resource Notes	rsrc_notes	RSRC	Notes
User Defined Field Title	User defined field*	UDFVALUE	Text1 – Text30
User Defined Field Title	User defined field*	UDFVALUE	Cost1 – Cost10
User Defined Field Title	User defined field*	UDFVALUE	Date1 – Date10
User Defined Field Title	User defined field*	UDFVALUE	Duration1 – Duration10
User Defined Field Title	User defined field*	UDFVALUE	Number1 – Number20
User Defined Field Title	User defined field*	UDFVALUE	Start1 – Start10
User Defined Field Title	User defined field*	UDFVALUE	Finish1 – Finish10
User Defined Field Title	User defined field*	UDFVALUE	Flag1 – Flag20
User Defined Field Title	User defined field*	UDFVALUE	Baseline Cost1 – Baseline Cost10 (MSP 2002 and later)
User Defined Field Title	User defined field*	UDFVALUE	Baseline Work1 – Baseline Work10 (MSP 2002 and later)

Task			
Contractor Field	Contractor Table Field	Contractor Table	MSP Field
n/a	auto-generated by MSP	n/a	ID
Activity Name	task_name	TASK	Name
WBS Code***	wbs_short_name	PROJWBS	WBS
n/a	calculated on export	n/a	Outline Level
Primary Constraint	cstr_type	TASK	Constraint Type
<u>CONTRACTOR Field</u> Start on Start on or before Start on or after Mandatory Start Finish on Finish on or after Finish on or before Mandatory Finish As late as possible Activities without constraints		<u>MSP Field</u> Must start on Start no later than Start no earlier than Must start on Must finish on Finish no earlier than Finish no later than Must finish on As late as possible As soon as possible	
Primary Constraint Date	cstr_date	TASK	Constraint Date
<u>CONTRACTOR Field</u> Top High Medium Low Lowest		<u>MSP Field</u> Highest Higher Medium Lower Lowest	
Activity Type	task_type	TASK	Task or Milestone
<u>CONTRACTOR Field</u> Task Dependent  Resource Dependent  Start Milestone Finish Milestone Level of Effort  WBS Summary		<u>MSP Field</u> Task - Scheduling Ignores Resource Calendars is checked (MSP 2000 and later) Task - Scheduling Ignores Resource Calendars is not checked (MSP 2000 and later) Milestone - Mark Task as Milestone is checked Milestone - Mark Task as Milestone is checked Task - Scheduling Ignores Resource Calendars is not checked (MSP 2000 and later) Summary Task	
At Completion Duration	total_drtn_hr_cnt	TASK	Duration
Original Duration	target_drtn_hr_cnt	TASK	Baseline Duration
Actual Duration	act_drtn_hr_cnt	TASK	Actual Duration
Remaining Duration	remain_drtn_hr_cnt	TASK	Remaining Duration

Duration Type	duration_type	TASK	Task Type
<u>CONTRACTOR Field</u>		<u>MSP Field</u>	
Fixed Duration and Units/Time		Fixed Duration (Effort Driven No)	
Fixed Units/Time		Fixed Units (Effort Driven Yes)	
Fixed Units		Fixed Work (Effort Driven No)	
Fixed Duration and Units		Fixed Duration (Effort Driven Yes)	
Fixed Units/Time		Fixed Units (Effort Driven No)	
Predecessors	n/a	TASKPRED	Predecessors
Start	start_date	TASK	Start
Finish	end_date	TASK	Finish
Early Start	early_start_date	TASK	Early Start
Early Finish	early_end_date	TASK	Early Finish
Late Start	late_start_date	TASK	Late Start
Late Finish	late_end_date	TASK	Late Finish
Planned Start	target_start_date	TASK	Baseline Start
Planned Finish	target_end_date	TASK	Baseline Finish
Actual Start	act_start_date	TASK	Actual Start
Actual Finish	act_end_date	TASK	Actual Finish
At Completion Labor Units	total_work_qty	TASK	Work
Budgeted Labor Units	target_work_qty	TASK	Baseline Work
Actual Labor Units	act_work_qty	TASK	Actual Work
Estimate At Completion Cost (actual cost + estimate to complete cost)	EAC	TASK	Cost
At Completion Expense Cost	total_expense_cost	TASK	Fixed Cost
Budget At Completion (budgeted labor, nonlabor, and expense cost)	BAC	TASK	Baseline Cost
Actual Cost (actual labor, nonlabor, and expense cost)	ACWP	TASK	Actual Cost

Accrual Type	cost_load_type	PROJCOST	Fixed Cost Accrual
<u>CONTRACTOR Field</u> Start of Activity Uniform over Activity Finish of Activity		<u>MSP Field</u> Start Prorated End	
Activity Calendars	clndr_id (foreign key)	TASK	Task Calendar
Expected Finish (MSP 2000 and later)	expect_end_date	TASK	Deadline
Physical % Complete (MSP 2002 and later)	phys_complete_pct	TASK	Physical % Complete (MSP 2002 and later)
Estimate To Complete (Remaining labor, nonlabor, and expense cost)	ETC	TASK	Remaining Cost
Notebook Description	task_memo	TASKMEMO	Notes
User Defined Field Title	User defined field*	UDFVALUE	Text1-Text30
User Defined Field Title	User defined field*	UDFVALUE	Cost1-Cost10
User Defined Field Title	User defined field*	UDFVALUE	Duration1-Duration10
User Defined Field Title	User defined field*	UDFVALUE	Start1-Start10
User Defined Field Title	User defined field*	UDFVALUE	Finish1-Finish10
User Defined Field Title	User defined field*	UDFVALUE	Flag1-Flag20
User Defined Field Title	User defined field*	UDFVALUE	Number1-Number20
User Defined Field Title	User defined field*	UDFVALUE	Date1 – Date10
User Defined Field Title	User defined field*	UDFVALUE	Baseline Cost1 – Baseline Cost10 (MSP 2002 and later)
User Defined Field Title	User defined field*	UDFVALUE	Baseline Duration1 – Baseline Duration10 (MSP 2002 and later)
User Defined Field Title	User defined field*	UDFVALUE	Baseline Work1 – Baseline Work10 (MSP 2002 and later)

Resource Assignments			
Contractor Field	Contractor Table Field	Contractor Table	MSP Field
Budgeted Units/Time	target_qty_per_hr	TASKRSRC	Units
At Completion Units	total_qty	TASKRSRC	Work
Budgeted Units	target_qty	TASKRSRC	Planned Work
Actual Regular Units	act_reg_qty	TASKRSRC	Actual Work
Actual Overtime Units	act_ot_qty	TASKRSRC	Actual Overtime Work
At Completion Cost	total_cost	TASKRSRC	Cost
Budgeted Cost	target_cost	TASKRSRC	Planned Cost
Actual Cost	act_cost	TASKRSRC	Actual Cost
Lag	lag_drtn_hr_cnt	TASKRSRC	Assignment Delay
Resource Curve	curv_id (foreign key)	TASKRSRC	Work Contour
<u>CONTRACTOR Field</u>		<u>MSP Field</u>	
Linear		Flat	
Triangular Increase		Back Loaded	
Triangular Decrease		Front Loaded	
Double Peak		Double Peak	
Early Peak		Early Peak	
Offset Triangular		Late Peak	
Bell Shaped		Bell	
Trapezoidal		Turtle	
All other curve types (including Manual)		Contoured	
User Defined Field Title	User defined field*	UDFVALUE	Notes
User Defined Field Title	User defined field*	UDFVALUE	Cost1 – Cost10
User Defined Field Title	User defined field*	UDFVALUE	Date1 – Date10
User Defined Field Title	User defined field*	UDFVALUE	Duration1 – Duration10
User Defined Field Title	User defined field*	UDFVALUE	Start1 – Start10
User Defined Field Title	User defined field*	UDFVALUE	Finish1 – Finish10
User Defined Field Title	User defined field*	UDFVALUE	Text1 – Text30
User Defined Field Title	User defined field*	UDFVALUE	Flag1 – Flag20
User Defined Field Title	User defined field*	UDFVALUE	Baseline Cost1 – Baseline Cost10 (MSP 2002 and later)

User Defined Field Title	User defined field*	UDFVALUE	Baseline Work1 – Baseline Work10 (MSP 2002 and later)
User Defined Field Title	User defined field*	UDFVALUE	Number1 – Number20

\* The User Defined Field is exchanged if a mapping is defined for the field.

\*\* These fields are calculated by Microsoft Project.

\*\*\* When WBS records are exported, the following occurs:

WBS Code	wbs_short_name	PROJWBS	WBS
WBS Name	wbs_name	PROJWBS	Task Name

**Notes:**

- All project-level calendars and any global calendars assigned to activities are exported to Microsoft Project as Working Time Calendars.
- Calendars assigned to resources are exported to Microsoft Project as Resource Working Time Calendars.



## DATA MAPPINGS DURING PRIMAVERA CONTRACTOR IMPORT

<b>Options (from MSP Tools menu)</b>			
<b>MSP Field</b>	<b>Contractor Table Field</b>	<b>Contractor Table</b>	<b>Contractor Field</b>
<b>View tab</b>			
Symbol	curr_symbol	CURRTYPE	Currency Symbol
Placement	pos_curr_fmt_type	CURRTYPE	Positive Currency Format
Decimal digits	decimal_digit_cnt	CURRTYPE	Number of Decimal Places
<b>Schedule tab</b>			
Default task type	def_duration_type	PROJECT	Default Duration Type
<u>MSP Field</u> Fixed Duration Fixed Units Fixed Work		<u>CONTRACTOR Field</u> Fixed Duration and Units/Time Fixed Units/Time Fixed Units	
<b>Calendar tab</b>			
Fiscal year starts in	fy_start_month_num	PROJECT	Fiscal Year Begins
<b>Calculation tab</b>			
Tasks are critical if slack is less than or equal to ___ days	critical_drtn_hr_cnt	PROJECT	Critical Activities

<b>Project</b>			
<b>MSP Field</b>	<b>Contractor Table Field</b>	<b>Contractor Table</b>	<b>Contractor Field</b>
<b>Project Properties</b>			
Title	wbs_name	PROJWBS	Project Name/WBS Name
Comments	wbs_memo	WBSMEMO	Notebook Description
Manager	User Defined Field*	UDFVALUE	User Defined Field Title
Subject	User Defined Field*	UDFVALUE	User Defined Field Title
Category	User Defined Field*	UDFVALUE	User Defined Field Title
Keywords	User Defined Field*	UDFVALUE	User Defined Field Title
<b>Project Information</b>			
Calendar	clndr_id	PROJECT	Default Project Calendar
Start date	data_date plan_start_date	PROJECT	Data Date and Planned Start
Finish date**	plan_end_date	PROJECT	Must Finish By

<b>Resource</b>			
<b>MSP Field</b>	<b>Contractor Table Field</b>	<b>Contractor Table</b>	<b>Contractor Field</b>
Name	rsrc_name	RSRC	Resource Name
Resource Initials or Resource Name	rsrc_short_name	RSRC	Resource ID
Max Units	max_qty_per_hr	RSRC	Max Units/Time
Standard Rate	cost_per_qty	RSRC	Price/Unit
Overtime Rate	cost_per_qty*ot_factor	RSRC	Price/Unit*Overtime Factor
Group	rsrc_name (of parent)	RSRC	Resource Name (of parent)
Email Address	email_addr	RSRC	E-Mail Address
Type (work= labor, material = material)	rsrc_type	RSRC	Resource Type (labor, equipment, material)
Material Labor	unit_abbrev	UMEASURE	Unit of Measure
Cost Rate Tables	start_date cost_per_qty cost_per_qty2 cost_per_qty3 cost_per_qty4 cost_per_qty5	RSRCRATE	Units & Prices
<u>MSP Field</u> Effective date Standard Rate (A-E)	<u>CONTRACTOR Field</u> Effective Date Price/Unit 1-5		
Notes	rsrc_notes	RSRC	Resource Notes
Text1 – Text30	User defined field*	UDFVALUE	User Defined Field Title
Cost1 – Cost10	User defined field*	UDFVALUE	User Defined Field Title
Date1 – Date10	User defined field*	UDFVALUE	User Defined Field Title
Duration1 – Duration10	User defined field*	UDFVALUE	User Defined Field Title
Number1 – Number20	User defined field*	UDFVALUE	User Defined Field Title
Start1 – Start10	User defined field*	UDFVALUE	User Defined Field Title
Finish1 – Finish10	User defined field*	UDFVALUE	User Defined Field Title

Flag1 – Flag20	User defined field*	UDFVALUE	User Defined Field Title
Baseline Cost1 – Baseline Cost10 (MSP 2002 and later)	User defined field*	UDFVALUE	User Defined Field Title
Baseline Work1 – Baseline Work10 (MSP 2002 and later)	User defined field*	UDFVALUE	User Defined Field Title

<b>Task</b>			
<b>MSP Field</b>	<b>Contractor Table Field</b>	<b>Contractor Table</b>	<b>Contractor Field</b>
ID	auto-increment or MSP ID	TASK	Activity ID
Name	task_name	TASK	Activity Name
WBS	wbs_short_name	PROJWBS	WBS Code
Outline Level	builds the WBS structure	n/a	n/a
Constraint Type	cstr_type	TASK	Primary Constraint
<u>MSP Field</u> Must start on Start no later than Start no earlier than Must finish on Finish no earlier than Finish no later than As late as possible As soon as possible		<u>CONTRACTOR Field</u> Mandatory Start Start on or before Start on or after Mandatory Finish Finish on or after Finish on or before As late as possible Activities without constraints	
Constraint Date	cstr_date	TASK	Primary Constraint Date

Task or Milestone	task_type	TASK	Activity Type
<u>MSP Field</u>		<u>CONTRACTOR Field</u>	
Task - Scheduling Ignores Resource Calendars is checked (MSP 2000 and later)		Task Dependent	
Task - Scheduling Ignores Resource Calendars is not checked (MSP 2000 and later)		Resource Dependent	
Milestone - Mark Task as Milestone is checked		Start Milestone	
Summary Task		WBS Summary	
NOTE: If Mark Task as Milestone is checked, it will take precedence over tasks that have durations and ignore the calendar option setting.			
Duration	total_drtn_hr_cnt	TASK	At Completion Duration
Baseline Duration	target_drtn_hr_cnt	TASK	Original Duration
Actual Duration	act_drtn_hr_cnt	TASK	Actual Duration
Remaining Duration	remain_drtn_hr_cnt	TASK	Remaining Duration
Task Type	duration_type	TASK	Duration Type
<u>MSP Field</u>		<u>CONTRACTOR Field</u>	
Fixed Duration (Effort Driven No)		Fixed Duration and Units/Time	
Fixed Units (Effort Driven Yes)		Fixed Units/Time	
Fixed Work (Effort Driven No)		Fixed Units	
Fixed Duration (Effort Driven Yes)		Fixed Duration and Units	
Fixed Units (Effort Driven No)		Fixed Units/Time	
Predecessors	n/a	TASKPRED	Predecessors
Start	start_date	TASK	Start
Finish	end_date	TASK	Finish
Early Start	early_start_date	TASK	Early Start
Early Finish	early_end_date	TASK	Early Finish
Late Start	late_start_date	TASK	Late Start
Late Finish	late_end_date	TASK	Late Finish
Baseline Start	target_start_date	TASK	Planned Start
Baseline Finish	target_end_date	TASK	Planned Finish
Actual Start	act_start_date	TASK	Actual Start
Actual Finish	act_end_date	TASK	Actual Finish
Work	total_work_qty	TASK	At Completion Labor Units
Baseline Work	target_work_qty	TASK	Budgeted Labor Units
Actual Work	act_work_qty	TASK	Actual Labor Units

Cost	EAC	TASK	Estimate At Completion Cost (actual cost + estimate to complete cost)
Fixed Cost	total_expense_cost	TASK	At Completion Expense Cost
Baseline Cost	BAC	TASK	Budget At Completion (budgeted labor, nonlabor, and expense cost)
Actual Cost	ACWP	TASK	Actual Cost (actual labor, nonlabor, and expense cost)
Fixed Cost Accrual	cost_load_type	PROJCOST	Accrual Type
<u>MSP Field</u> Start Prorated End		<u>CONTRACTOR Field</u> Start of Activity Uniform over Activity Finish of Activity	
Task Calendar	clndr_id (foreign key)	TASK	Activity Calendars
Deadline	expect_end_date	TASK	Expected Finish (MSP 2000 and later)
Physical % Complete (MSP 2002 and later)	phys_complete_pct	TASK	Physical % Complete (MSP 2002 and later)
Remaining Cost	ETC	TASK	Estimate To Complete (Remaining labor, nonlabor, and expense cost)
Notes	task_memo	TASKMEMO	Notebook Description
Text1-Text30	User defined field*	UDFVALUE	User Defined Field Title
Cost1-Cost10	User defined field*	UDFVALUE	User Defined Field Title
Duration1-Duration10	User defined field*	UDFVALUE	User Defined Field Title
Start1-Start10	User defined field*	UDFVALUE	User Defined Field Title
Finish1-Finish10	User defined field*	UDFVALUE	User Defined Field Title

Flag1-Flag20	User defined field*	UDFVALUE	User Defined Field Title
Number1-Number20	User defined field*	UDFVALUE	User Defined Field Title
Date1 – Date10	User defined field*	UDFVALUE	User Defined Field Title
Baseline Cost1 – Baseline Cost10 (MSP 2002 and later)	User defined field*	UDFVALUE	User Defined Field Title
Baseline Duration1 – Baseline Duration10 (MSP 2002 and later)	User defined field*	UDFVALUE	User Defined Field Title
Baseline Work1 – Baseline Work10 (MSP 2002 and later)	User defined field*	UDFVALUE	User Defined Field Title

Resource Assignments			
MSP Field	Contractor Table Field	Contractor Table	Contractor Field
Units	target_qty_per_hr	TASKRSRC	Budgeted Units/Time
Work	total_qty	TASKRSRC	At Completion Units
Planned Work	target_qty	TASKRSRC	Budgeted Units
Actual Work	act_reg_qty	TASKRSRC	Actual Regular Units
Actual Overtime Work	act_ot_qty	TASKRSRC	Actual Overtime Units
Cost	total_cost	TASKRSRC	At Completion Cost
Planned Cost	target_cost	TASKRSRC	Budgeted Cost
Actual Cost	act_cost	TASKRSRC	Actual Cost
Assignment Delay	lag_drtn_hr_cnt	TASKRSRC	Lag
Work Contour	curv_id (foreign key)	TASKRSRC	Resource Curve
<u>MSP Field</u>		<u>CONTRACTOR Field</u>	
Flat		Linear	
Back Loaded		Triangular Increase	
Front Loaded		Triangular Decrease	
Double Peak		Double Peak	
Early Peak		Early Peak	
Late Peak		Offset Triangular	
Bell		Bell Shaped	
Turtle		Trapezoidal	
Contoured		Manual	

Notes	User defined field*	UDFVALUE	User Defined Field Title
Cost1 – Cost10	User defined field*	UDFVALUE	User Defined Field Title
Date1 – Date10	User defined field*	UDFVALUE	User Defined Field Title
Duration1 – Duration10	User defined field*	UDFVALUE	User Defined Field Title
Start1 – Start10	User defined field*	UDFVALUE	User Defined Field Title
Finish1 – Finish10	User defined field*	UDFVALUE	User Defined Field Title
Text1 – Text30	User defined field*	UDFVALUE	User Defined Field Title
Flag1 – Flag20	User defined field*	UDFVALUE	User Defined Field Title
Baseline Cost1 – Baseline Cost10 (MSP 2002 and later)	User defined field*	UDFVALUE	User Defined Field Title
Baseline Work1 – Baseline Work10 (MSP 2002 and later)	User defined field*	UDFVALUE	User Defined Field Title
Number1 – Number20	User defined field*	UDFVALUE	User Defined Field Title

\* The User Defined Field is exchanged if a mapping is defined for the field.

\*\* These fields are calculated by Microsoft Project.

**Notes:**

- Working Time Calendars in Microsoft Project are imported into Primavera Contractor as project-level calendars.
- Resource Working Time Calendars in Microsoft Project are imported into Primavera Contractor as resource-level calendars.