

MSPProject Domain

Introduction

The MSPProject domain lets you extract information from a Microsoft Project plan.

The MSPProject domain returns Task and Resource information such as Actual Cost, Actual Start Date, Actual Finish Date, Baseline information, Milestones, Group, and ID.

Assignment

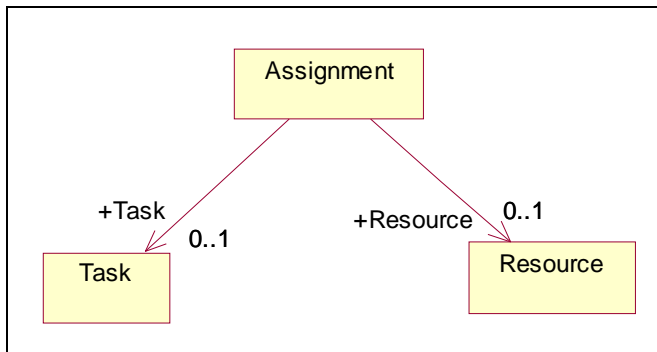
MSProject Domain

An assignment of a resource to a task.

ClassHierarchy: Assignment

SubClasses of Assignment

This class has no subclasses.



Properties Specific to Assignment

Properties	Inherited From	Description
ActualCost		Cost that has actually been incurred to date for the assignment.
ActualFinish		Date and time the assignment is actually completed.
ActualOvertimeCost		Actual cost of work on an assignment scheduled beyond the assigned resource's regular working hours.
ActualOvertimeWork		Actual amount of work on an assignment scheduled beyond the assigned resource's regular working hours.
ActualStart		Date and time the assignment actually started.
ActualWork		Actual work for the assignment.
ACWP		(Actual cost of work performed) Cost incurred for work already done on the assignment.
BaselineCost		Total planned cost for work to be performed by a resource on the assignment.

Properties	Inherited From	Description
Baseline1Cost		Total planned cost for work to be performed by a resource on a task. Baseline1Cost is the planned cost for the assignment saved with Baseline 1, and so on.
Baseline10Cost		
BaselineFinish		Planned completion date for the assignment at the time a baseline is saved.
Baseline1Finish		Planned completion date for the assignment at the time a baseline is saved.
Baseline10Finish		Baseline1Finish is the planned finish date for assignment saved with Baseline 1, and so on.
BaselineStart		Planned beginning date for the assignment at the time a baseline is saved.
Baseline1Start		Planned beginning date for the assignment at the time a baseline is saved.
Baseline10Start		Baseline1Start is the planned start date for assignment saved with Baseline 1, and so on.
BaselineWork		Original amount of work to which a resource is assigned for a specific task.
Baseline1Work		Planned person-hours scheduled for the assignment at the time a baseline is saved.
Baseline10Work		Baseline1Work is the planned work for assignment saved with Baseline 1, and so on.
BCWP		(Budgeted cost of work performed) Value of the assignment's PercentComplete multiplied by the assignment's BaselineCost.
BCWS		(Budgeted cost of work scheduled) Baseline costs up to the status date or today's date.
Confirmed		TRUE if a resource assigned to a task has accepted the task assignment.
Cost		Total estimated cost of the assignment.

Properties	Inherited From	Description
Cost1 ▪ ▪ ▪ Cost10		Custom cost assignment information defined for a specific project.
CostRateTable		Collection of information about a resource's rates, including the standard rate, overtime rate, any per-use cost, and the date when the pay rate takes effect.
CostVariance		Difference between the baseline cost and total cost for the assignment.
CV		(Earned value cost variance) Difference between the budgeted and actual cost of work performed on the assignment.
Date1 ▪ ▪ ▪ Date10		Custom assignment date information defined for a specific project.
Delay		Amount of time between the scheduled start of a task and the time when work should actually begin on the task.
Duration1 ▪ ▪ ▪ Duration10		Custom duration information for the assignment. Duration is the total span of active working time required to complete the assignment.
EnterpriseCost1 ▪ ▪ ▪ EnterpriseCost10		Custom assignment cost information that is available to all users throughout the organization.
EnterpriseDate1 ▪ ▪ ▪ EnterpriseDate30		Custom assignment date information that is available to all users throughout the organization.

Properties	Inherited From	Description
EnterpriseDuration1 ▪ ▪ ▪	EnterpriseDuration10	Custom assignment duration information that is available to all users throughout the organization.
EnterpriseFlag1 ▪ ▪ ▪	EnterpriseFlag20	Custom flag information for assignments that is available to all users throughout the organization. A flag property is marked TRUE or FALSE.
EnterpriseNumber1 ▪ ▪ ▪	EnterpriseNumber40	Custom number information for assignments that is available to all users throughout the organization.
EnterpriseResourceOutlineCode1 ▪ ▪ ▪	EnterpriseResiyrceOutlineCode29	Custom fields containing alphanumeric code that represents a flat list or hierarchical structure of resources. These fields are available to all users throughout the organization.
EnterpriseResourceRBS		A resource outline code used specifically for RBS (Resource Breakdown Structure) that is available to all users throughout the organization.
EnterpriseText1 ▪ ▪ ▪	EnterpriseText40	Custom text information for assignments that is available to all users throughout the organization.
Finish		Date when an assigned resource is scheduled to complete work on a task.
Finish1 ▪ ▪ ▪	Finish10	Custom finish date information for the assignment.
FinishVariance		Difference between the assignment's baseline finish date and its currently scheduled finish date.

Properties	Inherited From	Description
FixedMaterialAssignment		Absolute quantity of a material resource to be used to complete the assignment.
Flag1		Custom flag information that indicates whether the assignment is marked for further action or identification of some kind. A flag property is marked TRUE or FALSE.
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▪		
▪		
Flag20		
Hyperlink		Title or explanatory text for a hyperlink associated with the assignment.
HyperlinkAddress		Address for a hyperlink associated with the assignment.
HyperlinkHREF		Combination of the HyperlinkAddress and HyperlinkSubAddress fields associated with the assignment.
HyperlinkScreenTip		Text displayed when user pauses the pointer on a hyperlink.
HyperlinkSubAddress		Specific location in a document within a hyperlink associated with the assignment.
Index		Unique index number identifying the assignment in the project.
LevelingDelay		Amount of time that the assignment is to be delayed from the scheduled start date as a result of resource leveling.
LinkedFields		TRUE if there are OLE links to any of the assignment fields.
Notes		Comments about the assignment.
Number1		Custom numeric information for the project.
▪		
▪		
▪		
Number20		
Overallocated		TRUE if resource is assigned to more work on a specific task than can be done within the resource's normal working capacity.
OvertimeCost		Total overtime cost for a resource assignment.
OvertimeWork		Amount of overtime to be performed by a resource on a task.

Properties	Inherited From	Description
Peak		Maximum percentage or number of units that a resource is assigned for a task.
PercentWorkComplete		Current status of the assignment, expressed as the percentage of the assignment's work that has been completed.
Project		Name of subprojects where assignments originate.
RegularWork		Total amount of nonovertime work scheduled to be performed by a resource assigned to a task.
RemainingCost		Cost for the resource assigned to the task to finish the remaining scheduled work.
RemainingOvertimeCost		Remaining scheduled overtime expense for the assignment.
RemainingOvertimeWork		Amount of overtime work remaining on the assignment.
RemainingWork		Amount of time still required by a resource assigned to a task to complete the assignment.
ResourceID		Unique identifier number of the resource associated with the assignment.
ResourceName		Name of the resource associated with the assignment.
ResourceRequestType		Indicates the type of the resource request.
ResourceType		Indicates whether the resource for the assignment is a work resource or material resource.
ResourceUniqueID		Unique ID of the resource associated with the assignment.
ResponsePending		TRUE if acknowledgment has not been received from an update sent to assign a team member to a task.
Start		Date when an assigned resource is scheduled to begin working on a task.
Start1		Custom fields that show any specific assignment start date information.
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▪		
▪		
Start10		

Properties	Inherited From	Description
StartVariance		Amount of time that represents the difference between the assignment's baseline start date and its currently scheduled start date.
SV		(Earned value schedule variance) Difference between the budgeted cost of work performed and the budgeted cost of work scheduled.
TaskID		ID of the task associated with the assignment.
TaskName		Name of the task associated with the assignment.
TaskOutlineNumber		Number that represents the associated task's position in the hierarchical outline structure.
TaskSummaryName		Name of the summary task for the task associated with the assignment.
TaskUniqueID		Unique ID of the task associated with the assignment.
TeamStatusPending		TRUE if response has not been received for progress request sent to a resource assigned to a task.
Text1 . . . Text30		Custom textual information for the assignment.
UniqueID		Unique ID of the assignment.
Units		The percentage, or number of units, for which a resource is assigned to a task.
UpdateNeeded		TRUE if update needs to be sent to team member assigned to a task because of changes to the start date, finish date, or team reassignments.
VAC		(Variance at completion) Difference between the baseline cost and the expected total cost for the assignment on a task.
Work		Total amount of time scheduled for a resource on a task.

Properties	Inherited From	Description
WorkContour		Contour shape for the assignment that determines how work is to be distributed across the duration of the assignment.
WorkVariance		Difference between the assignment's baseline work and the currently scheduled work.

Relationships Specific to Assignment

Name	Kind	Class	Description
Resource	0..1	Resource	Resource assigned to a task.
Task	0..1	Task	Task associated with the assignment.

Project

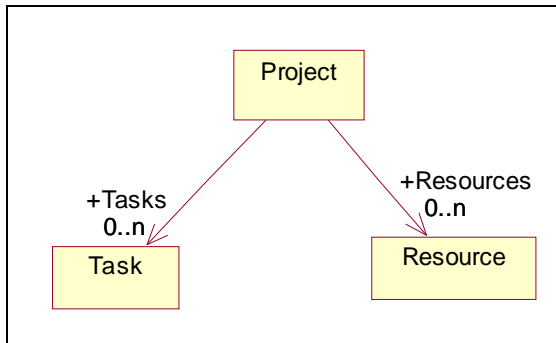
MSProject Domain

A project is a collection of data, including assignments, resources, and tasks.

ClassHierarchy: Project

SubClasses of Project

This class has no subclasses.



Properties Specific to Project

Properties	Inherited From	Description
Directory		Directory for the project.
FinishDate		Finish date of the project.
Name		Name of the project.
Path		File path of the project.
ReadOnly		Set to TRUE, by default.
StartDate		Start date of the project.

Relationships Specific to Project

Name	Kind	Class	Description
Resources	0..n	Resource	Resources for the project.
Tasks	0..n	Task	Tasks of the project.

Resource

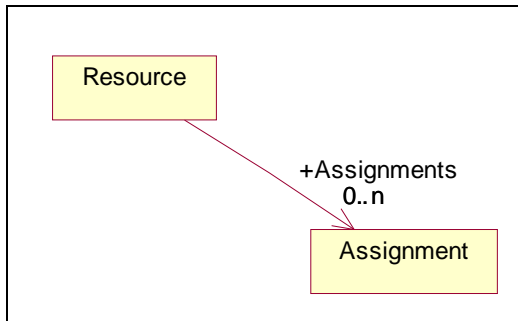
MSProject Domain

A single resource.

ClassHierarchy: Resource

SubClasses of Resource

This class has no subclasses.



Properties Specific to Resource

Properties	Inherited From	Description
BaselineCost		Planned cost for the resource for all assigned tasks.
BaselineWork		Planned work for the resource for all assigned tasks.
CostPerUse		Cost for each time the resource is used.
Group		Name of the group to which the resource belongs.
Name		Name of the resource.
RemainingCost		Expense to complete the remaining work assigned to the resource.
RemainingWork		Remaining amount of time for the resource to complete all assigned tasks.
UniqueID		Unique ID for the resource.

Relationships Specific to Resource

Name	Kind	Class	Description
Assignments	0..n	Assignment	Assignments for the resource.

Task

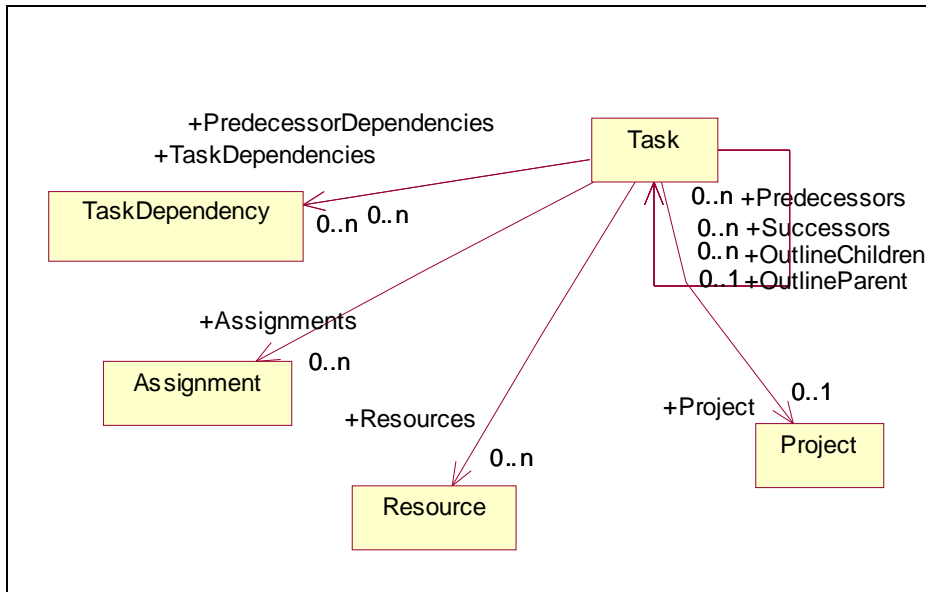
MSProject Domain

A specific piece of work to be done.

ClassHierarchy: Task

SubClasses of Task

This class has no subclasses.



Properties Specific to Task

Properties	Inherited From	Description
ActualCost		Costs incurred for work already performed by all resources on the task, along with any other recorded costs associated with the task.
ActualDuration		Actual working time for the task, based on the scheduled duration and current remaining work.
ActualFinish		Actual finish date and time of the task.
ActualOvertimeCost		Costs incurred for overtime work already performed on the task by all assigned resources.
ActualOvertimeWork		Actual amount of overtime work already performed by all resources assigned to the task.

Properties	Inherited From	Description
ActualStart		Actual start date and time of the task.
ActualWork		Actual work that has been done by the resources assigned to the task.
ACWP		(Actual cost of work performed) Costs incurred for work already done on the task.
BaselineCost		Total planned cost for the task.
Baseline1Cost		Total planned cost for the task. Baseline1Cost is the planned cost for the task saved with Baseline 1, and so on.
▪		
▪		
▪		
Baseline10Cost		
BaselineDuration		Original span of time planned to complete the task.
Baseline1Duration		Span of time planned to complete the task. Baseline1Duration is the planned duration saved with Baseline 1, and so on.
▪		
▪		
▪		
Baseline10Duration		
BaselineDurationEstimated		Estimated duration specified in the baseline.
Baseline1DurationEstimated		Estimated duration specified in the baseline. Baseline1DurationEstimated is the estimated duration for the task saved with Baseline 1, and so on.
▪		
▪		
▪		
Baseline10Duration Estimated		
BaselineFinish		Planned completion date for the task at the time a baseline is saved.
Baseline1Finish		Planned completion date for the task at the time its corresponding baseline is saved. Baseline1Finish is the planned finish date for the task saved with Baseline 1, and so on.
▪		
▪		
▪		
Baseline10Finish		
BaselineStart		Planned beginning date for the task at the time a baseline is saved.
Baseline1Start		Planned beginning date for the task at the time its corresponding baseline is saved. Baseline1Start is the planned start date for the task saved with Baseline 1, and so on.
▪		
▪		
▪		
Baseline10Start		

Properties	Inherited From	Description
BaselineWork		Total planned person-hours scheduled for the task.
Baseline1Work		Total planned person-hours scheduled for the task.
▪		Baseline1Work is the planned work for the task saved with Baseline 1, and so on.
▪		
▪		
Baseline10Work		
BCWP		(Budgeted cost of work performed) Value of the task's PercentComplete multiplied by the task's BaselineCost.
BCWS		(Budgeted cost of work scheduled) Baseline costs up to the status date or today's date.
Calendar		All calendars available to be applied to the task, including the base calendars.
Confirmed		TRUE if all resources assigned to the task accept the task assignment. FALSE if any resource assigned to the task rejects the assignment.
ConstraintDate		Date associated with the constraint type.
ConstraintType		Type of constraint that can be applied for scheduling a task.
Contact		Name of an individual responsible for the task.
Cost		Total projected cost for the task.
Cost1		Custom cost information for the task.
▪		
▪		
▪		
Cost10		
CostVariance		Difference between the baseline cost and total cost for the task.
CPI		(Cost performance index) Ratio of baseline costs of work performed to actual costs of work performed.
Created		Date and time the task was added to the project.
Critical		TRUE if the task is on the critical path. FALSE if there is any room in the schedule for task to slip.

Properties	Inherited From	Description
CV		(Earned value cost variance) Difference between how much it should have cost and how much it has actually cost to achieve the current level of completion.
CVPercent		(Cost variance percent) Ratio of cost variance to budgeted cost of work performed.
Date1		Custom date information for the task.
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•		
•		
Date10		
Deadline		Target date indicating when the task should be completed.
Duration		Total span of active working time required to complete the task.
Duration1		Custom duration information for the task.
•		
•		
•		
Duration10		
Duration1Estimated		Custom estimated duration information for the task.
•		
•		
•		
Duration10Estimated		
DurationVariance		Difference between the task's baseline duration and the total duration.
EAC		(Estimate at completion) Expected total cost of the task, based on performance up to the status date.
EarlyFinish		Earliest date the task could possibly finish, based on early finish dates of predecessor and successor tasks, other constraints, and any leveling delay.
EarlyStart		Earliest date the task could possibly begin, based on the early start dates of predecessor and successor tasks, and other constraints.

Properties	Inherited From	Description
EarnedValueMethod		Indicates whether PercentComplete or PhysicalPercentComplete is to be used to calculate budgeted cost of work performed.
EffortDriven		TRUE if the task is effort driven.
EnterpriseCost1		Custom task cost information that is available to all users throughout the organization.
▪		
▪		
▪		
EnterpriseCost10		Custom task date information (including start and finish dates) that is available to all users throughout the organization.
EnterpriseDate1		
▪		
▪		
▪		Custom task duration information that is available to all users throughout the organization.
EnterpriseDate30		
EnterpriseDuration1		
▪		
▪		Custom flag information for tasks that is available to all users throughout the organization. A flag property is marked TRUE or FALSE.
▪		
▪		
EnterpriseFlag1		
▪		Custom number information for tasks that is available to all users throughout the organization.
▪		
▪		
EnterpriseFlag20		
EnterpriseNumber1		Custom fields containing alphanumeric code that represents a flat list or hierarchical structure of tasks. These fields are available to all users throughout the organization.
▪		
▪		
▪		
EnterpriseNumber40		Custom text information for tasks that is available to all users throughout the organization.
EnterpriseOutlineCode1		
▪		
▪		
▪		Custom text information for tasks that is available to all users throughout the organization.
EnterpriseOutlineCode30		
EnterpriseText1		
▪		
▪		TRUE if the task's duration is estimated.
▪		
EnterpriseText40		
Estimated		

Properties	Inherited From	Description
ExternalTask		TRUE if the task is linked from another project. FALSE if task originated in the current project.
Finish		Date and time that the task is scheduled to be completed.
Finish1		Custom finish date information for the task.
▪		
▪		
▪		
Finish10		
FinishSlack		Duration between the EarlyFinish and LateFinish dates.
FinishVariance		Difference between the task's baseline finish date and its current finish date.
FixedCost		Costs not associated with a resource for the task.
FixedCostAccrual		Accrual method for managing the task's fixed cost.
FixedDuration		TRUE if task's duration does not change when the number of resources assigned to it increases or decreases.
Flag1		Custom flag information that indicates whether the task is marked for further action or identification of some kind. A flag property is marked TRUE or FALSE.
▪		
▪		
▪		
Flag20		
FreeSlack		Amount of time the task can be delayed without delaying any successor tasks.
GroupBySummary		TRUE if this row in the task sheet is the summary row for tasks grouped by a particular category.
HideBar		TRUE if Gantt bar and Calendar bar for the task are hidden.
Hyperlink		Title for a hyperlink associated with the task.
HyperlinkAddress		Address for a hyperlink associated with the task.
HyperlinkHREF		Combination of HyperlinkAddress and HyperlinkSubAddress for the task.

Properties	Inherited From	Description
HyperlinkScreenTip		Text displayed when user pauses the pointer on a hyperlink.
HyperlinkSubAddress		Specific location in a document within a hyperlink associated with the task.
ID		ID of the task.
IgnoreResourceCalendar		TRUE if the scheduling of the task does not take into account the calendars of the resources assigned to the task.
Index		Unique index number identifying the task in the project.
LateFinish		Latest date the task can finish without delaying the finish of the project.
LateStart		Latest date the task can start without delaying the finish of the project.
LevelIndividualAssignments		TRUE if the leveling function can delay and split individual assignments to resolve overallocations.
LevelingCanSplit		TRUE if resource leveling can cause splits on remaining work on the task.
LevelingDelay		Amount of time the task is to be delayed from its EarlyStart as a result of resource leveling.
LinkedFields		TRUE if there are OLE links to the task.
Marked		TRUE if the task is marked for further action or identification of some kind.
Milestone		TRUE if the task is a milestone.
Name		Name of the task.
Notes		Notes for the task.
Number1		Custom numeric project information relating to the task.
▪		
▪		
▪		
Number20		
Objects		Number of objects attached to the task.

Properties	Inherited From	Description
OutlineCode1		Custom alphanumeric codes that represent the hierarchical structure of tasks.
▪		
▪		
▪		
OutlineCode10		
OutlineLevel		Outline level of the task in the project.
OutlineNumber		Outline number of the task.
Overallocated		TRUE if any of the assigned resources on the task is assigned to more work on the task than can be done within the normal working capacity.
OvertimeCost		Total overtime cost for the task.
OvertimeWork		Overtime work scheduled for the task.
PercentComplete		Percentage of the task's duration that has been completed.
PercentWorkComplete		Percentage of the task's work that has been completed.
PhysicalPercentComplete		Percent complete value that can be used as an alternative for calculating BCWP.
Predecessors		Task IDs for predecessor tasks on which the task depends.
PreleveledFinish		Finish date of the task as it was before resource leveling was done.
PreleveledStart		Start date of the task as it was before resource leveling was done.
Priority		Level of importance set for the task.
Project		Name of subproject where the task originates.
Recurring		TRUE if the task is part of a series of recurring tasks.
RegularWork		Regular work scheduled for the task.
RemainingCost		Remaining cost to complete the task.
RemainingDuration		Remaining amount of time to complete the task.
RemainingOvertimeCost		Remaining overtime cost to complete the task.
RemainingOvertimeWork		Remaining overtime work to complete the task.

Properties	Inherited From	Description
RemainingWork		Remaining work to complete the task.
ResourceGroup		Resource groups to which the resources assigned to the task belong.
ResourceInitials		Abbreviations for names of resources assigned to the task.
ResourceNames		Names of resources assigned to the task.
ResourcePhonetics		Phonetic information for names of resources assigned to the task. (Japanese version only)
ResponsePending		TRUE if acknowledgment has not been received for all updates sent to assign team members to the task.
Resume		Date to resume remaining portion of the task after progress is entered.
ResumeNoEarlierThan		Earliest date on which the remaining portion of the task can be resumed.
Rollup		TRUE if information on subtask Gantt bars is rolled up to summary task bar.
SPI		(Schedule performance index) Ratio of work performed to work scheduled.
Start		Start date and time set for the task.
Start1		Custom start date information for the task.
▪		
▪		
▪		
Start10		
StartSlack		Duration between EarlyStart and LateStart dates for the task.
StartVariance		Difference between the baseline start date and the scheduled start date for the task.
Status		Current status of the task.
Stop		Date that represents the end of the actual portion of the task.
Subproject		Path and file name of a project inserted into the active project file.
SubProjectReadOnly		TRUE if the subproject of this task is a read-only project.

Properties	Inherited From	Description
Successors		Task IDs for successor tasks to the task.
Summary		TRUE if the task is a summary task.
SV		(Schedule variance) Difference in cost terms between the current progress and the baseline plan of the task.
SVPercent		(Schedule variance percent) Ratio of schedule variance to budgeted cost of work scheduled, expressed as a percentage.
TCPI		(To complete performance index) Ratio of work remaining to be done to funds remaining to be spent.
TeamStatusPending		TRUE if response has not been received for progress request sent to resources assigned to the task.
Text1 ▪ ▪ ▪ Text30		Custom text information for the task.
TotalSlack		Amount of time the task can be delayed without delaying project's finish date.
Type		Task type.
UniqueID		Unique ID of the task.
UniqueIDPredecessors		Unique IDs for predecessor tasks on which the task depends.
UniqueIDSuccessors		Unique IDs for successor tasks to the task.
UpdateNeeded		TRUE if update needs to be sent to team members due to task changes.
VAC		(Variance At Completion) Difference between baseline cost and EAC for the task.
WBS		(Work breakdown structure) Alphanumeric codes that represent the task's position within the hierarchical structure of the project.

Properties	Inherited From	Description
WBSPredecessors		Work breakdown structure codes for predecessor tasks on which the task depends.
WBSSuccessors		Work breakdown structure codes for successor tasks of the task.
Work		Task's total amount of work scheduled to all assigned resources.
WorkVariance		Difference between the baseline work and the scheduled work for the task.

Relationships Specific to Task

Name	Kind	Class	Description
Assignments	0..n	Assignment	Assignments for the task.
OutlineChildren		Task	Task's children tasks.
OutlineParent		Task	Task's parent task.
PredecessorDependencies	0..n	TaskDependency	Tasks that are the predecessors in the task dependency.
Predecessors		Task	Associated tasks that must start or finish before the task starts or finishes.
Project	0..1	Project	Project with which the task is associated.
Resources	0..n	Resource	Resources for the task.
Successors		Task	Associated tasks that rely on the task to start or finish.
TaskDependencies	0..n	TaskDependency	Dependencies of the task on other tasks.

TaskDependency

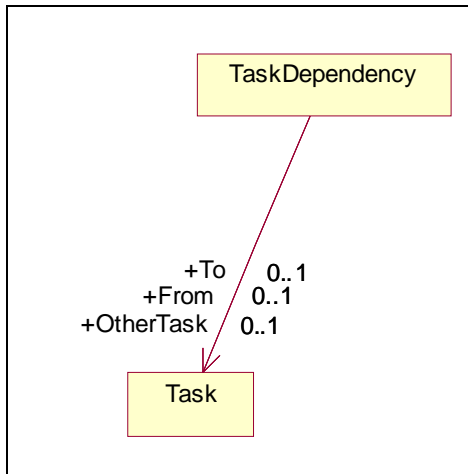
MSPProject Domain

A dependency between two linked tasks.

ClassHierarchy: TaskDependency

SubClasses of TaskDependency

This class has no subclasses.



Properties Specific to TaskDependency

Properties	Inherited From	Description
Lag		Time delay between the tasks that have a dependency.
OtherTaskID		ID of another task associated with the task dependency.
Type		The kind of task dependency.

Relationships Specific to TaskDependency

Name	Kind	Class	Description
From	0..1	Task	Task that is the predecessor in the task dependency.
OtherTask	0..1	Task	The task that is not the parent task of the task dependency (either the From or To task).
To	0..1	Task	Task that is the successor in the task dependency.