



# Explore API Documentation

SelfService\_Schedule\_ScheduleWorkBreakdownStructure

Version 1.0

Last Modified: 8/25/2023

Last Modified By: Kimo Pickering

Change Log

This changelog only contains significant or notable changes to the revision. Any editorial-type changes or minor changes are not included.

Revision	Change Date	Description	Modified By
1.0	3/24/2023	Initial Draft	Kimo Pickering

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## Overview

The SelfService\_Schedule\_ScheduleWorkBreakdownStructure API is one of multiple APIs comprising the data contained in the Schedule Work Breakdown Structure (WBS) entity.

The SelfService\_Schedule\_ScheduleWorkBreakdownStructure table contains the list of individual WBS activities in an organization's tenant environment with specific values of the foreign key lookup values stored in the ScheduleWorkBreakdownStructure table and can provide a convenient way to reference data as it appears in the application without needing to look up the foreign key values from a lookup table.

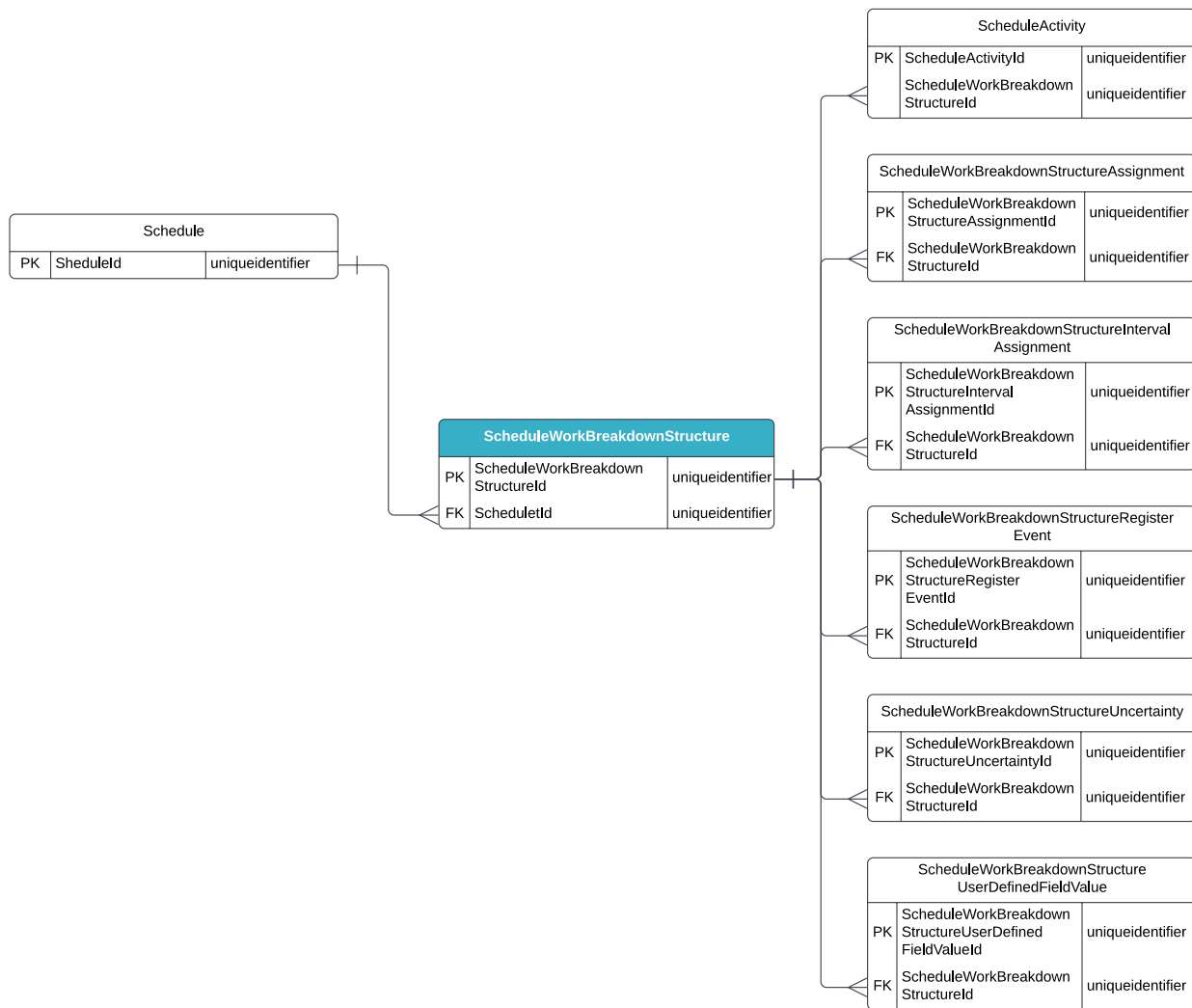
## Relationships and Dependencies

From: Table <sup>1</sup>	To: Table <sup>1</sup>	Relationship	Cardinality <sup>2</sup>	Comment
ScheduleWorkBreakdownStructure(SWBS)	Schedule(S)	SWBS.ScheduleId : S.ScheduleId	M:1	
ScheduleActivity(SA)	ScheduleWorkBreakdownStructure(SWBS)	SA.ScheduleWorkBreakdownStructureId : SWBS.ScheduleWorkBreakdownStructureId	M:1	
ScheduleWorkBreakdownStructureAssignment(SWBSA)	ScheduleWorkBreakdownStructure(SWBS)	SWBSA.ScheduleWorkBreakdownStructureId : SWBS.ScheduleWorkBreakdownStructureId	M:1	
ScheduleWorkBreakdownStructureIntervalAssignment(SWBSIA)	ScheduleWorkBreakdownStructure(SWBS)	SWBSIA.ScheduleWorkBreakdownStructureId : SWBS.ScheduleWorkBreakdownStructureId	M:1	
ScheduleWorkBreakdownStructureRegisterEvent(SWBSSRE)	ScheduleWorkBreakdownStructure(SWBS)	SWBSSRE.ScheduleWorkBreakdownStructureId : SWBS.ScheduleWorkBreakdownStructureId	M:1	
ScheduleWorkBreakdownStructureUncertainty(SWBSU)	ScheduleWorkBreakdownStructure(SWBS)	SWBSU.ScheduleWorkBreakdownStructureId : SWBS.ScheduleWorkBreakdownStructureId	M:1	
ScheduleWorkBreakdownStructureUserDefinedFieldValue(SWBSUDFV)	ScheduleWorkBreakdownStructure(SWBS)	SWBSUDFV.ScheduleWorkBreakdownStructureId : SWBS.ScheduleWorkBreakdownStructureId	M:1	

<sup>1</sup> Prefix table name with "SelfService\_Schedule\_" and exclude table abbreviation for queries (e.g., SelfService\_Schedule\_ScheduleWorkBreakdownStructure)

<sup>2</sup> 1:M = One to Many, 1:1 = One to One, M:1 = Many to one

Figure 1 - SelfService\_Schedule\_ScheduleActivity ER Diagram



## API Detail

Direction	From Project Suite		
Pagination	50,000 Rows		
Frequency	All Reporting APIs are used by calling a GET method at an interval determined by the customer. InEight suggests using these APIs on an infrequent basis (once per day) to avoid potential performance impact to live systems when the returned data set could be large.		
Trigger Method(s)	All default OData filters are supported		
Average Payload Size	Depends on date range selected		
APIM Name	SelfService_Schedule_ScheduleWorkBreakdownStructure		
Data Refresh/Delta/Incremental Loads	This API must be run as a full refresh each time; the data in this API refreshes every 15-20 minutes		
Project Suite	Starting Version	23.6	
	Ending Version	N/A	

## Supported Filters

All default OData filters are supported by this API.

## Fields

Name	Type	Char Max Length	Numeric Precision	Scale	Product	Required?	P K
ScheduleWorkBreakdownStructureId	uniqueidentifier	16	0			Y	P
ScheduleId	uniqueidentifier	16	0			Y	F
ParentId	uniqueidentifier	16	0			N	
Name	nvarchar(100)	100	0			Y	
ScheduleWorkBreakdownStructureTypeId	bigint	8	19			Y	
ShortName	nvarchar(40)	40	0			Y	
StartDateTime	datetime2	8	27	7		Y	
EndDateTime	datetime2	8	27	7		Y	
EarlyStartDateTime	datetime2	8	27	7		N	
EarlyEndDateTime	datetime2	8	27	7		N	
LateStartDateTime	datetime2	8	27	7		N	
LateEndDateTime	datetime2	8	27	7		N	
PlannedStartDateTime	datetime2	8	27	7		N	
PlannedEndDateTime	datetime2	8	27	7		N	
ActualStartDateTime	datetime2	8	27	7		N	
ActualEndDateTime	datetime2	8	27	7		N	

Name	Type	Char Max Length	Numeric Precision	Scale	Product	Required?	P K
Duration	float	8	53			Y	
RemainingDuration	float	8	53			Y	
OriginalDuration	float	8	53			Y	
ActualDuration	float	8	53			Y	
Cost	decimal(16,5)	17	16	5		N	

## Field Descriptions

Name	Description	Example(s)
ScheduleWorkBreakdownStructureId	A unique identifier assigned to each WBS item.	9c214320-b132-4d53-93c1-81ba54bab9ef
ScheduleId	A unique identifier assigned to each schedule record in the table. Formerly known as the Project Id.	d533c1fc-ec95-4430-b8e4-7d70ac218d58
ParentId	The ID of the WBS that is the parent of the selected WBS item.	438609b5-8306-4349-82fd-86218ce38069
Name	The name of the Work Breakdown Structure item.	Power Systems
ScheduleWorkBreakdownStructureTypeId	A unique identifier assigned to each WBS type.	25794
ShortName	The abbreviated name given to a WBS item.	Pwr Sys.
StartDateTime	The date work starts for the activity.	2022-03-11 15:06:45.695
EndDateTime	The date all work is complete on the project.	2022-12-03 16:22:10.596
EarlyStartDateTime	The earliest possible date the remaining work for the activity can begin. This date is calculated based on network logic, schedule constraints, and resource availability.	2022-08-06 09:23:31.077
EarlyEndDateTime	The earliest possible date the activity can finish. This date is calculated based on network logic, schedule constraints, and resource availability.	2020-07-08 12:09:20.795
LateStartDateTime	The latest possible date the remaining work for the activity can begin without delaying the project finish date. This date is calculated based on activity relationships, schedule constraints, and resource availability.	2020-09-15 10:30:23.566
LateEndDateTime	The latest possible date the activity can finish without delaying the project finish date. This date is calculated based on activity relationships, schedule constraints, and resource availability.	2022-11-16 10:27:24.940
PlannedStartDateTime	The date the activity is scheduled to start.	2022-01-02 10:38:39.736
PlannedEndDateTime	The date the activity is scheduled to finish if the activity has not started.	2022-08-14 10:08:32.234
ActualStartDateTime	The date the activity actually began. Manual entry.	2021-05-26 08:18:55.518

Name	Description	Example(s)
ActualEndTime	The date the activity actually completed. Manual entry.	2022-07-10 10:57:25.837
Duration	The total working days to complete the activity.	15
RemainingDuration	The total working days from the activity's Start Date to the Finish Date.	7
OriginalDuration	The original amount of working days for an activity before any schedule updates or re-baselines.	10
ActualDuration	The total working days from the activity's Actual Start Date to the Actual Finish Date for completed activities.	8
Cost	The rolled-up total cost of all activities assigned to the selected WBS item.	1854

## Sample

### SelfService\_Schedule\_ScheduleWorkBreakdownStructure

```
{ "ScheduleWorkBreakdownStructureId": "9c214320-b132-4d53-93c1-81ba54bab9ef",
  "ScheduleId": "d533c1fc-ec95-4430-b8e4-7d70ac218d58",
  "ParentId": "438609b5-8306-4349-82fd-86218ce38069",
  "Name": "Power Systems",
  "ScheduleWorkBreakdownStructureTypeId": "25794",
  "ShortName": "Pwr Sys.",
  "StartDateTime": "2022-03-11 15:06:45.695",
  "EndDateTime": "2022-12-03 16:22:10.596",
  "EarlyStartDateTime": "2022-08-06 09:23:31.077",
  "EarlyEndDateTime": "2020-07-08 12:09:20.795",
  "LateStartDateTime": "2020-09-15 10:30:23.566",
  "LateEndDateTime": "2022-11-16 10:27:24.940",
  "PlannedStartDateTime": "2022-01-02 10:38:39.736",
  "PlannedEndDateTime": "2022-08-14 10:08:32.234",
  "ActualStartDateTime": "2021-05-26 08:18:55.518",
  "ActualEndStartDateTime": "2022-07-10 10:57:25.837",
  "Duration": "15",
  "RemainingDuration": "7",
  "OriginalDuration": "10",
  "ActualDuration": "8",
  "Cost": "1854" }
```

## Data Validation

This data can be validated by navigating to the InEight Schedule application, opening a project schedule, and selecting the desired WBS item.

## Figure 2: Schedule > WBS

