



Explore API Documentation

SelfService_Schedule_ScheduleLogicLink

Version 1.0

Last Modified: 5/5/2023

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	5/5/2023	Initial Draft	Kimo Pickering

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Overview

The SelfService_Schedule_ScheduleLogicLink API is one of the multiple APIs comprising the data contained in the Schedule Logic Link entity. The application's Plan view's Iris panel Logic tab is where the values contained in the API table come from. Logic Links connect activities together and define the relationships between the activities in the schedule. Relationship types include Finish to Start (FS), Finish to Finish (FF), Start to Finish (SF), and Start to Start (SS).

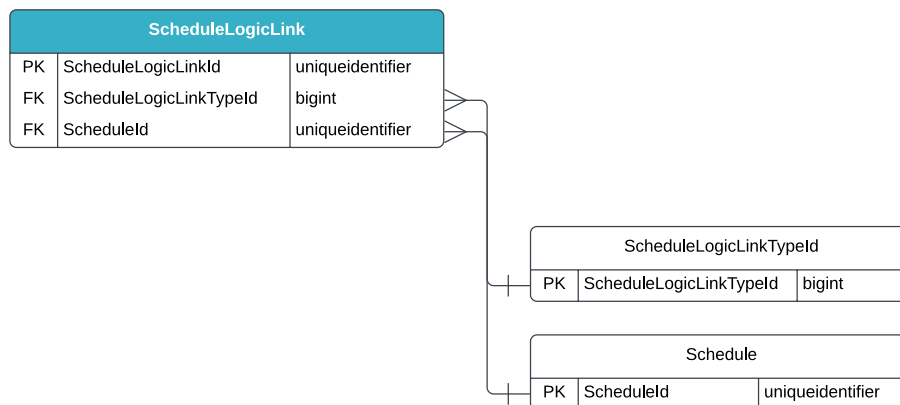
Relationships and Dependencies

From: Table ¹	To: Table ¹	Relationship	Cardinality ²
ScheduleLogicLink(SLL)	ScheduleLogicLinkType(SLLT)	SLL.ScheduleLogicLinkTypeId : SLLT.ScheduleLogicLinkTypeId	M:1
ScheduleLogicLink(SLL)	Schedule(S)	SLL.ScheduleId : S.ScheduleId	M:1

¹ Prefix table name with "SelfService_Schedule_" and exclude table abbreviation for queries (e.g., SelfService_Schedule_ScheduleLogicLink)

² 1:M = One to Many, 1:1 = One to One, M:1 = Many to one

Figure 1. SelfService_Schedule_ScheduleLogicLink 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_ScheduleLogicLink	
Data Refresh/Delta/Incremental Loads	This API will only refresh once per day	
Project Suite	Starting Version	23.8
	Ending Version	N/A

Supported Filters

All default OData filters are supported by this API.

Fields

Name	Type	Char Max Length	Numerical Precision	Required?	Key?		
ScheduleLogicLinkId	uniqueidentifier	16	0	Y	P		
PredecessorActivityId	uniqueidentifier	16	0	Y			
SuccessorActivityId	uniqueidentifier	16	0	Y			
ScheduleLogicLinkTypeId	bigint	19	19	Y	F		
ScheduleId	uniqueidentifier	16	0	Y	F		
Lag	float	8	53	Y			
CreatedDate	datetimeoffset	10	34	Y			
CreatedById	bigint	19	19	Y			
ModifiedDate	datetimeoffset	10	34	Y			
ModifiedById	bigint	19	19	Y			
RowVersion	Bigint	Null	Null	Null	Y		

Field Descriptions

Name	Description	Example(s)
ScheduleLogicLinkId	A unique identifier assigned to a Logic Link. Not visible in the interface.	26123de5-5821-4e70-a8f4-ce9bdfae6bea
PredecessorActivityId	A unique identifier assigned to a predecessor activity. This is not the same value as the ActivityID. Not visible in the interface.	1a3d9055-bbd7-4a11-8e03-37480689bfec
SuccessorActivityId	A unique identifier assigned to a successor activity. This is not the same value as the ActivityID. Not visible in the interface.	50e0bf9c-267d-4f6c-8003-17f5d66f50a1
ScheduleLogicLinkTypeId	A system assigned code to a Logic Link type. (e.g., 1 = Finish to Start; 2 = Finish to Finish; 3 = Start to Finish; 4 = Start to Start)	2
ScheduleId	A unique identifier assigned to each schedule record in the application's home page project workspace table. Formerly known as the Project Id.	b4dd0a28-1ea9-4ac7-bbab-c2164778d3c6
Lag	The amount of time (days) an activity is delayed, thereby affecting the start or finish date of its successor activity.	5
CreatedDate	Date/timestamp the item is created.	2021-11-30 16:39.000 + 00.00
CreatedById	The unique identifier of the user who created the item. Not visible in the Interface.	85136477

ModifiedDate	Date/timestamp the item was modified.	2022-03-08 13:54.410 + 00.00
ModifiedById	The unique identifier of the user who modified the item. Not visible in the Interface.	29834765
RowVersion	An indicator if a row has been updated. if this value is greater than the stored value, then update record.	54582065

Sample

[https://\[tenant\].hds.ineight.com/reportwebservices/odata/SelfService_Schedule_ScheduleLogicLink](https://[tenant].hds.ineight.com/reportwebservices/odata/SelfService_Schedule_ScheduleLogicLink)

```
{
  "ScheduleLogicLinkId": {
    "ScheduleLogicLinkId": "26123de5-5821-4e70-a8f4-ce9bdfae6bea",
    "PredecessorActivityId": {
      "PredecessorActivityId": "1a3d9055-bbd7-4a11-8e03-37480689bfec",
      "SuccessorActivityId": {
        "SuccessorActivityId": "50e0bf9c-267d-4f6c-8003-17f5d66f50a1",
        "ScheduleLogicLinkIdType": {
          "ScheduleLogicLinkIdType": "2",
          "ScheduleId": {
            "ScheduleId": "b4dd0a28-1ea9-4ac7-bbab-c2164778d3c6",
            "Lag": {
              "Lag": "5",
              "CreatedDate": "2021-11-30 16:39.000 + 00.00",
              "CreatedBy": {
                "CreatedBy": "85136477",
                "ModifiedDate": "2022-03-08 13:54.410 + 00.00",
                "ModifiedBy": {
                  "ModifiedBy": "29834765",
                }
              }
            }
          }
        }
      }
    }
  }
}
```

Data Validation

Schedule Logic Links are created by the user from the Plan view. Navigate to the Plan view, open the Iris panel, click on the Logic tab, then click on an activity in the Activities table or the Gantt chart to see the activity's predecessors and successors and the relationship types (e.g., FS, FF, SF, or SS). See Figures 2 and 3 below.

Figure 2. Schedule > Plan view > Iris > Logic tab

ID	Description	Actions	Id	Start Date	Finish Date	Duration	Remaining Duration	Float
01-US-10	US-10 Pre-bid	...	01-US-10	11 Jan 2016	24 Apr 2020	1096d	1096d	
01-US-10.1	WBS Level 1	...	01-US-10.1	11 Jan 2016	12 Feb 2016	24d	24d	
A16700	WBS Summary Activity	...	A16700	11 Jan 2016	12 Feb 2016	24d	24d	1072d
01-US-10.1.1	Planning Package	...	01-US-10.1.1	11 Jan 2016	12 Feb 2016	24d	24d	
01-US-10.01	Milestones	...	01-US-10.01	11 Jan 2016	24 Apr 2020	1096d	1096d	
A2050	Contract Execution	...	A2050	11 Jan 2016	9 Feb 2016	22d	22d	18d
A2670	Notice of Award	...	A2670	11 Jan 2016		0d	0d	24d
A11920	Litigation of Segment C	...	A11920	11 Jan 2016	5 May 2018	846d	846d	229d
A16690	Finish Milestone Constraint Type 3 - Finish On Or Before	...	A16690		11 Jan 2016*	0d	0d	1087d
A16630	Start Milestone Constraint Type 2 - Start On Or Before	...	A16630	11 Jan 2016*		0d	0d	131d
A2640	NTP 1	...	A2640	10 Feb 2016		0d	0d	18d
A5400	NTP 2	...	A5400	13 Jul 2016		0d	0d	212d
A16620	Start Milestone Constraint Type 1 - Start On Or After	...	A16620	13 Jul 2016*		0d	0d	965d
A16640	Start Milestone Constraint Type 3 - Must Start On	...	A16640	18 Jul 2016*		0d	0d	0d
A16650	Start Milestone Constraint Type 4 - Mandatory Start	...	A16650	19 Jul 2016*		0d	0d	0d
A5440	Construction Start Date	...	A5440	5 Jan 2017		0d	0d	133d
A5410	NTP 3	...	A5410	7 May 2018		0d	0d	164d
A11930	Project Closeout	...	A11930	12 Oct 2019	8 Apr 2020	180d	180d	11d
A5420	Substantial Completion	...	A5420		12 Oct 2019*	0d	0d	10d
A5430	Final Completion	...	A5430		8 Apr 2020*	0d	0d	11d
A16680	Finish Milestone Constraint Type 2 - Finish On Or After	...	A16680		9 Apr 2020*	0d	0d	11d
A16700	Finish Milestone Constraint Type 4 - Must Finish On	...	A16700		17 Apr 2020*	0d	0d	0d
A16670	Start Milestone Constraint Type 5 - As Late As Possible	...	A16670	23 Apr 2020		0d	0d	0d
A16660	Finish Milestone Constraint Type 1 - As Late As Possible	...	A16660		23 Apr 2020	0d	0d	0d
A16710	Finish Milestone Constraint Type 3 - Mandatory Finish	...	A16710		28 Apr 2020*	0d	0d	0d
01-US-10.02	Engineering	...	01-US-10.02	11 Jan 2016	6 Dec 2018	738d	738d	
01-US-10.03	Procurement	...	01-US-10.03	11 Jan 2016	12 Dec 2018	742d	742d	
01-US-10.04	Construction	...	01-US-10.04	10 Feb 2016	11 Oct 2019	935d	935d	

Figure 3. Schedule > Plan view > Iris > Logic tab > Predecessors

