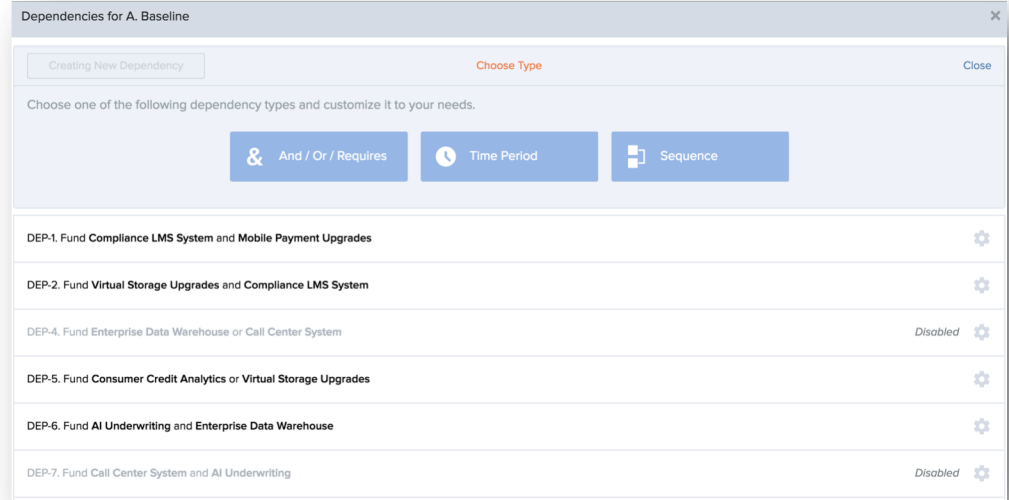


Dependencies Training

Release Date: March 2018

Feature Summary

- New and improved user interface
- Addition of Time Period Dependency
- Addition of Sequence dependency
- Ability to apply a dependency to all or specific scenarios







The screenshot shows a web interface titled "Dependencies for A. Baseline". At the top, there is a "Creating New Dependency" button and a "Choose Type" link. Below this, a message states: "Choose one of the following dependency types and customize it to your needs." Three buttons are available: "& And / Or / Requires", "Time Period", and "Sequence". Below these buttons is a list of dependencies:

Dependency ID	Dependency Description	Status	Settings
DEP-1	Fund Compliance LMS System and Mobile Payment Upgrades	Active	⚙️
DEP-2	Fund Virtual Storage Upgrades and Compliance LMS System	Active	⚙️
DEP-4	Fund Enterprise Data Warehouse or Call Center System	Disabled	⚙️
DEP-5	Fund Consumer Credit Analytics or Virtual Storage Upgrades	Active	⚙️
DEP-6	Fund AI Underwriting and Enterprise Data Warehouse	Active	⚙️
DEP-7	Fund Call Center System and AI Underwriting	Disabled	⚙️

Creating a new Dependency

- Only Owners within a portfolio can create dependencies
- Reviewers can view dependencies but cannot create, edit, or delete them
- Create a dependency from Allocate, Inputs by selecting the “Dependencies” button

Resource Pools Add Pool			
	2016	2017	
Application Development	600,000	1,000,000	
	600,000	1,000,000	
Alternative Costs Dependencies (13)			
Based On weightings of: Technology Oversight			
	2016	2017	
ERP Upgrade to v.9.0  v	0	0	
Call Center System v	175,000	199,000	
Applications Database Mi...  v	0	0	
Virtual Storage Upgrades  v	0	0	
Consumer Credit Analytics  v	0	0	
Enterprise Data Warehou... v	390,000	300,000	
AI Underwriting v	270,000	210,000	

Dependency Types

Select the type of dependency that needs to be created

And / Or / Requires

- A dependency between two Alternatives. Examples:
 - Alternative A and Alternative B must be funded
 - Alternative A or Alternative B must be funded
 - Alternative A requires Alternative B in order to be funded

Time Period

- Require an Alternative to start after or end by a certain time period. Examples:
 - Alternative A must start after November 2019
 - Alternative A must end before May 2020

Sequence

- A project must start or end at a certain time relative to another project. Examples:
 - If funded, Alternative A starts before Alternative B starts
 - If funded, Alternative A starts at the same time as Alternative B ends
 - If funded, Alternative A ends after Alternative B starts

Creating And / Or / Requires Dependency

Example: Fund Project A or fund Project B



Dependencies for 2018 Force Funding Scenario

Creating New Dependency Choose Type > And / Or / Requires Close

Create your dependency by choosing an item from each section below.

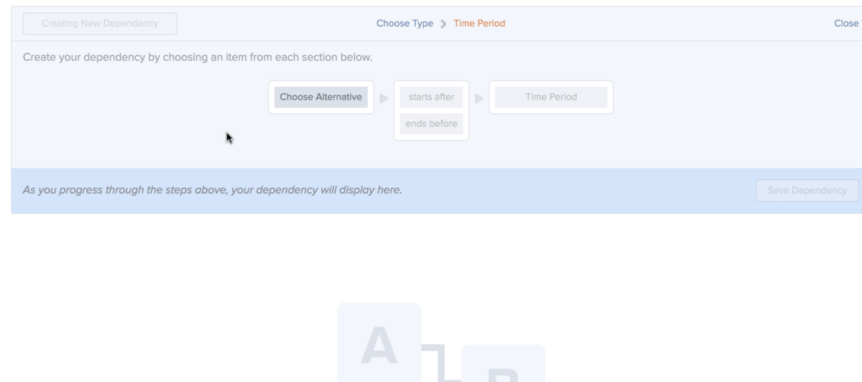
Choose Alternative ▶ And Or Requires ▶ Choose Alternative

As you progress through the steps above, your dependency will display here. Save Dependency

- To create an And / Or / Requires dependency, select two Alternatives and their relationship from the tiles
 - Use the search box to quickly find Alternatives
- The dependency will display as the Alternatives and operator are selected
- Once two Alternatives and an operator have been selected, the dependency can be saved
- Logic has been built to prevent users from creating dependencies that contradict each other. This will not however inform users when their dependencies have put them into an over constrained state.

Creating a Time Period Dependency

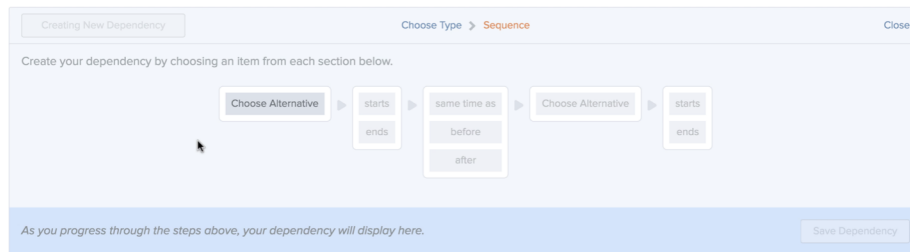
Example: Project A ends before February 2020



- To create a Time Period dependency, select the Alternative and specify if it must start after or end before a particular time period
 - Time Period selection will always be as Month and Year. When suggest schedule is run, a translation will be done on the back end to convert the month and year selected to the timeframe that has been selected for the scenario. Example: Scenario is in Quarters and project must start after February 2020. This will translate to the project must start after Q1 when optimized.
- The dependency will display as the Alternatives, operator and time period are selected
- The dependency can be saved once all selections have been made
- Logic has been built to prevent users from creating dependencies that contradict each other. This will not however inform users when their dependencies have put them into an over constrained state.

Creating a Sequence Dependency

Example: If funded, Project A starts before Project B starts



Creating New Dependency Choose Type > Sequence Close

Create your dependency by choosing an item from each section below.

Choose Alternative starts same time as Choose Alternative starts

ends before after ends

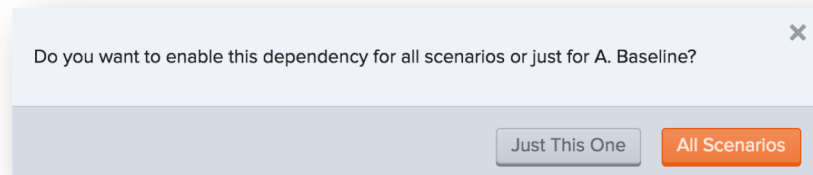
As you progress through the steps above, your dependency will display here. Save Dependency



- To create a Sequence dependency, select the first Alternative and specify if it must start or end before, after or at the exact same time as another alternative starts or ends
- The dependency will display as the Alternatives, operators and timing are selected
- The dependency can be saved once all selections have been made
- Logic has been built to prevent users from creating dependencies that contradict each other. This will not however inform users when their dependencies have put them into an over constrained state.

Saving Dependencies

- Dependencies can be applied to all scenarios or only to the scenario that is currently in view
 - Dependencies that are not saved to all scenarios can be enabled for specific scenarios later if desired
 - Dependencies applied to all scenarios can be disabled for specific scenarios later if desired
- Dependencies are saved to the CMF file and will be maintained as part of the portfolio if it is exported, copied or imported












Dependency ID

- Once a dependency is saved, a unique ID will display with it so that it can be easily referenced and identified
- ID's are unique and will never be repeated

DEP-10. Applications Data

Viewing Dependencies

Dependencies are ordered from oldest to newest with the ID at the front of the dependency






Create New Dependency	
DEP-1. Fund Compliance LMS System and Mobile Payment Upgrades	
DEP-2. Fund Virtual Storage Upgrades and Compliance LMS System	
DEP-4. Fund Enterprise Data Warehouse or Call Center System	
DEP-5. Fund Consumer Credit Analytics or Virtual Storage Upgrades	
DEP-6. Fund AI Underwriting and Enterprise Data Warehouse	
DEP-7. Fund Call Center System and AI Underwriting	
DEP-8. Fund AI Underwriting or Social Media Management	Disabled 
DEP-9. Fund Enterprise Data Warehouse or Data Center Virtualization	
DEP-10. ID Management System starts after May 2020	
DEP-11. Virtual Storage Upgrades starts after May 2022	Disabled 
DEP-12. Applications Database Migration requires Enterprise Data Warehouse	

Use the gear to edit, delete or enable/disable a dependency

Enabling/Disabling Dependencies

- Dependencies can go across scenarios and can be enabled or disabled for specific scenarios
- Use the gear icon to enable or disable a dependency for a scenario
- Time Period and Sequence dependencies cannot be enabled for a scenario with a single time period
- The Time Period dependency cannot be enabled for scenarios that are not using calendar settings

Disabled dependencies appear in gray

DEP-6. Fund AI Underwriting and Enterprise Data Warehouse	
DEP-7. Fund Call Center System and AI Underwriting	
DEP-8. Fund AI Underwriting or Social Media Management	Disabled 
DEP-9. Fund Enterprise Data Warehouse or Data Center Virtualization	
DEP-10. ID Management System starts after May 2020	<div data-bbox="1329 846 1497 966"> Edit Dependency Disable Dependency Delete Dependency </div>
DEP-11. Virtual Storage Upgrades starts after May 2022	Disabled 

Use the gear to enable or disable dependencies

Resources

- Decision Lens Support
 - Submit Ticket: <https://dl-support.zendesk.com/hc/en-us>
 - Speak with Support Representative: (703) 399-2114
- [TxDOT Decision Lens Community Page](#)
- [Decision Lens University](#)



Hank Emerson
Strategic Account Manager
hemerson@decisionlens.com
(703) 399-3177