Dependencies Constraints

Dependencies are one of the constraints that can be defined when determining the controls to be selected in an Optimization.

You can view the dependencies in **Table** or **List** view.

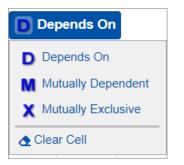Dependencies are displayed in the Table view by default as shown below:

> The "List View" will be ON by default (grid view is disabled) when the system detected that there are so many controls that will make the grid view slow or hang up.

By single-clicking on the intersecting cell of the column and row, you can specify one of the three dependencies between controls in the Resource Allocation process:

- **D (Depends on)** – the row control depends upon the column control. The optimization assures that the row control is not funded unless the column control is funded. When there are Time Periods, the "depends on" dependency can either be **concurrent** or **non-concurrent**. **Concurrent** means that the row and column controls can be funded at the same period, while non-concurrent is not.
- **M (Mutually dependent)** – the row and the column are mutually dependent; both must be funded or neither is funded.
- **X (Mutually Exclusive)**– the row and the column are mutually exclusive; funding one precludes funding the other.

The clicked cell will display any of the letters explained above (**D, M, X**) depending on the currently selected dependency type (or clear to remove) on the button at the top.

Alternatively, you can right-click on a cell and then select the dependency you want to define for that row and column controls:

The row and column controls are being highlighted with yellow as you hover on their intersecting cells.

Toggle the List View switch to display the dependencies is list view:

Click the ➕ icon to add a new dependency.

Click the 🔽 to see options to edit and delete.

When there are Dependencies (or any other constraint) specified, that constraint will be **bold** on the Optimization ignore options.

You can choose to use or ignore the dependencies and other constraints when optimizing.