Step-by-step moving-load analysis first steps (CSiBridge)

Step-by-step moving-load analysis can be setup using the following procedure:

- Define Vehicle via "Loads Tab > Vehicles > New".
- Define layout line via "Layout Tab > Layout Line > New".
- Define lane via "Layout Tab > Lane > New".
- Use "Load Tab > Load Patterns" to define new load pattern of type "Vehicle Live". See Figure 1 below. Use the "Modify Bridge Live Load" button to define the load assignments, such as lanes, vehicles, vehicle speed, movement direction, etc.
The load pattern of "Vehicle Live" type is defined as follows:

- A multi-step static load case is automatically created. This load case may be reviewed via "Analysis Tab > Load Cases > Modify".
- Dynamic response may be evaluated when load-case type is changed from Multi-step Static to Time-history, and analysis type to Nonlinear, Direct-integration. Damping and other parameters may be specified as necessary.

See Also