

Step-by-step moving-load analysis first steps (SAP2000)

Tutorial	
Name:	Step-by-step moving-load analysis first steps
Description:	Procedure for initiating step-by-step moving-load analysis.
Program:	SAP2000
Version:	all
Model ID:	na

Step-by-step [moving-load](#) analysis is initiated through the following process:

- Define [vehicle](#) type through Define > Bridge Loads > Vehicles.
- Define the [lane](#) through Define > Bridge Loads > Lanes.
- Select Define > Load Pattern (Figure 1) to define the Type of [load pattern](#) Bridge Live. Select Modify Bridge Live Load to define such parameters as lanes, vehicles, vehicle speed, movement direction, etc.

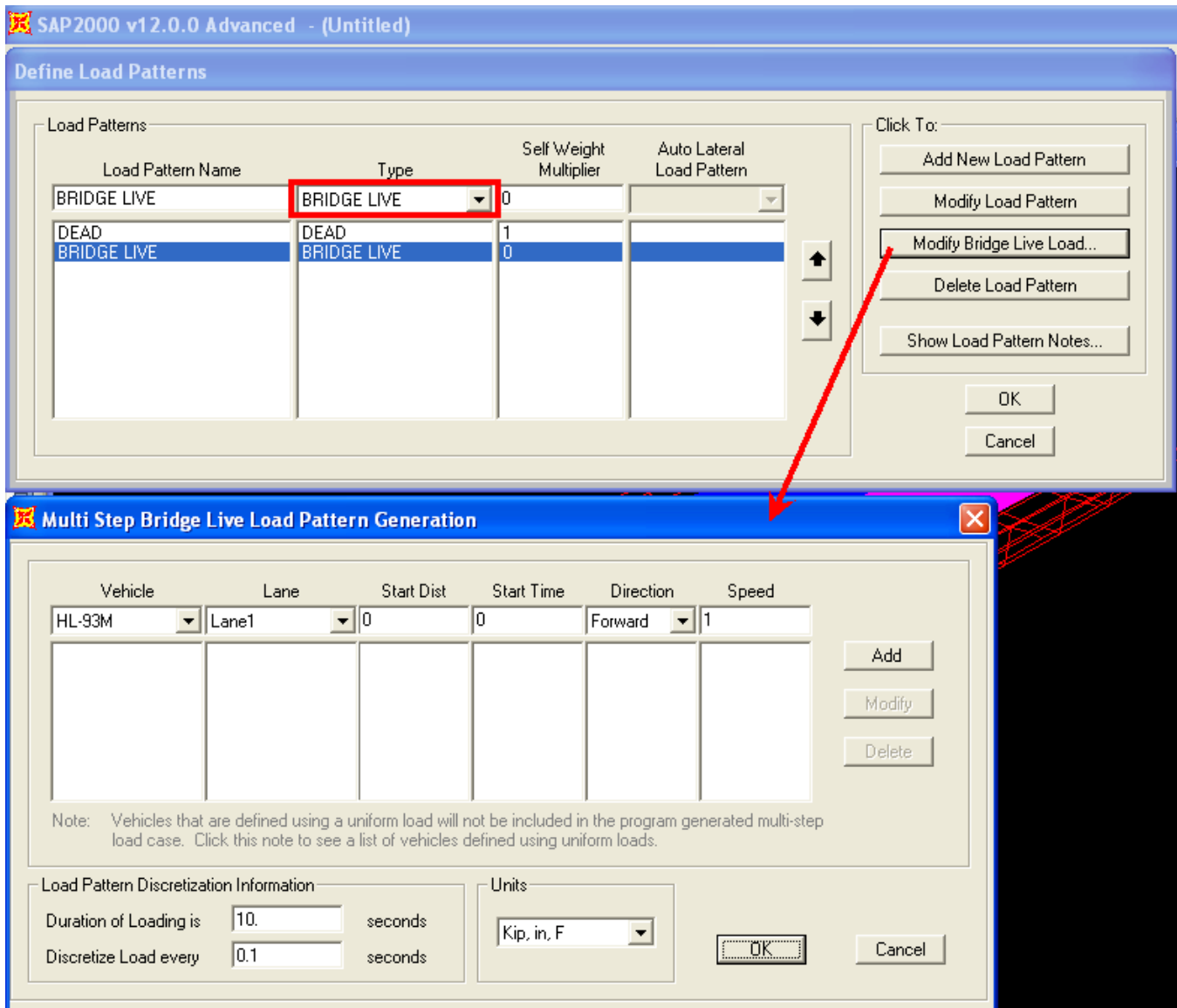


Figure 1 - Define load patterns

- A multi-step static [load case](#) is automatically created. This load case may be reviewed through Define > Load Cases.
- 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

- [Step-by-step moving-load analysis first steps \(CSiBridge\)](#)
- [CSI Analysis Reference Manual](#), Chapter "Moving-Load Analysis"