Influence-based moving-load analysis first steps (SAP2000)

Tutorial	
Name:	Influence-based moving-load analysis first steps
Description:	Procedure for initiating influence-based moving-load analysis.
Program:	SAP2000
Version:	12.1.0
Model ID:	na

Influence-based moving-load analysis is initiated through the following process:

- Define Vehicle type through Define > Bridge Loads > Vehicles.
- Define vehicle class through Define > Bridge Loads > Vehicle Classes.
- Define the lane through Define > Bridge Loads > Lanes.
- Define a moving-load case through Define > Load Cases > Add New Load Case. Set the load-case type to Moving Load, then specify the vehicles and lanes assigned to this moving load, as shown in Figure 1:

KSAP2000 v14.1.0 Advanced - (Untitled)			
Load Case Data - Moving Load			
Load Case Name Notes ACASE1 Set Def Name Modify/Show	Load Case Type Moving Load Design		
 Stiffness to Use Zero Initial Conditions - Unstressed State Stiffness at End of Nonlinear Case Important Note: Loads from the Nonlinear Case are NOT included in the current case 			
Loads Applied Vehicle Scale Factor Loaded Loaded Assign Class Lanes Lanes Lanes Loaded Number VECL1 1 0 0	Lane Definitions Loaded for Assignment List of Lane Selected Lane Definitions Definitions		
Add Modify Delete	Add -> <- Remove		
Cancel			

Figure 1 - Load-case data

See Also

- Influence-based moving-load analysis first steps (CSiBridge)
 CSI Analysis Reference Manual, Chapter "Moving-Load Analysis"