SIMPHONY.NET: AN INTEGRATED ENVIRONMENT FOR CONSTRUCTION SIMULATION
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Simphony represents an evolution in computer simulation: implementing a unified modeling methodology and integrating it with construction industry expertise. It is a user-friendly integrated modeling environment, and does not require the user to possess advanced simulation knowledge in order to take advantage of the software.

FEATURES

- The main model building block in Simphony.NET is the Modeling Element. The user builds a simulation model in Simphony.NET by creating instances of modeling elements that resemble real components of a construction system, and linking them together in ways similar to those that exist in a real system.
- For representation of complex and large construction projects, Simphony.NET provides a hierarchical modeling feature. A project can be represented by an abstracted model at a higher level that contains a limited number of modeling elements and relations. At a lower level, each of these elements can have its own child model, which represents the sub-system working inside that element.
- Simphony.NET supports both general purpose modeling constructs (e.g. CYCLONE) which can be used to model different construction processes, as well as specialized templates for specific construction methods (e.g. Earth-moving and aggregate production) which are suitable for users with little simulation background.
- Simphony.NET allows the extension of specialized SPS tools through the construction of models based on several templates. For example, this feature can be used to build a paving project that requires, in some parts, a special gradation of aggregate provided by an aggregate production plant.
- Simphony.NET modeling elements can generate custom output results in the form of tables and graphs.