

Introduction

“Effectivity” refers to the ability to conditionally include items in a structure. This condition can consist of multiple variables influencing the decision to include or exclude an item in a specific configuration of the structure.

Let’s use building a product structure as an example. This structure uses Part-1 for product model “X” and Part-2 for product model “Y.” In this case, product model is the variable used in defining the part’s effectivity in this product structure.

There are many different types of effectivity variables depending on the types of products, for example:

- The Aerospace and Shipbuilding industries create low-volume, highly complex products. Differences in product configurations are tracked by variables, such as Model, Unit Number, or Hull Number.
- The Automotive and High-Tech industries create high-volume products. Configuration changes are influenced by when materials are available to use. Therefore, Date-based effectivity is commonly used.
- The Food and Beverage and Pharmaceutical industries create formula-based products. Changes to the product configuration are tracked using Lot, Batch, or Plant effectivity.

What is Effectivity Services?

Effectivity Services is built into the Aras Platform. It provides core functionality to develop applications to manage effectivity on structures and resolve structures for given effectivity criteria.

Together, Effectivity core services and the custom application layer enable you to:

- Define effectivity variables (such as date, model, unit, lot, batch, and plant)
- Set effectivity conditions on relationships
- Recursively resolve structures by effectivity to generate configured structures

