

# SYSPRO Inventory Families and Groupings



Families and Groupings is an essential tool for any organization in a demand-driven environment allowing for the aggregated view, and manipulation, of both sales and forecasts and providing input to material requirements planning. SYSPRO Inventory Families and Groupings provides the tools to arrange 'collections' of stock-keeping units (SKUs) into families and groupings of similar items. These collections provide a high-level view of items from which sales forecasts can be produced and the quality of the forecast measured. A significant feature is the ability to group warehouses for purposes of forecasting at a regional or territory level for logistical or supply chain purposes. There is also the feature for forecasts to be generated at a brand level to facilitate a clearer marketing picture.

Within SYSPRO, Families and Groupings refers to the various collections of inventory items classified in a way that is meaningful to your business (e.g. you could classify a 'filter' as an OEM product, a spare, a paper filter, an oil filter, etc). The need for Families and Groupings arises from a business scenario where, owing to the number of stock codes or stock keeping units (SKUs) the forecasting of individual stock items would constitute an unmanageable workload. It also makes sense to 'collect' common stock codes into a family or group.

A family generally refers to a collection of SKUs where a hierarchy and a logical relationship exist between them. For example: Apple juice is packaged in 300ml, 500ml, 1L, 1.5L and 2L plastic bottles and would also be a member of the Pure Fruit Juice 'family'. Families are best observed by examining an organization's price list and are mostly used in the 'outbound' or sales view of the SKUs.

A group generally refers to a single level collection of SKUs that is used when arranging SKUs for storage or internal analysis. For example: the 300ml plastic bottle would be a member of the Plastic Packaging 'group' of SKUs. Groups are best observed by examining an organization's logistics view and may be used to create 'inbound' (i.e. supplier) 'home' or 'outbound' views of collections of SKUs.

## The benefits of Inventory Families and Groupings

- Forecasts at various levels in the family hierarchy (grandfather, father, child)
- Multi-level analysis of family performance over time
- Variety of forecasting algorithms, including a competition method which automatically selects the best algorithm for the collection
- Default algorithms at company or collection level
- Pareto (ABC) analysis for ranking items within each collection
- Analysis of sales value, gross profit, cost of sales, quantity sold or hits (invoice line occurrences) using Pareto capability
- Automatic real-time updates of collection history
- Configurable graphical output for improved visibility

## Inventory Families and Groupings features

- Establish families or groupings of SKUs using SYSPRO's unique collections capability with hierarchical structures for brand- or product-type views
- Group warehouses for purposes of forecasting at a regional or territory level for logistical or supply chain purposes
- Generate forecasts at a brand level to facilitate a more targeted marketing strategy
- Consolidate SKUs with different pack sizes using an alternate, common unit of measure
- Forecast using sales value, cost value, quantity or gross profit as the basis
- Detect seasonality and apply forecasts to seasonal data if present
- Manually or automatically remove outliers and anomalies
- Compare manual forecasts with computer-recommended forecasts
- Aggregate sales history of the collection members to enable a forecast at collection level and then disaggregate the collection forecast back to SKU level

# SYSPRO Inventory Families and Groupings

## Inventory Families and Groupings features cont.

- Validate forecasts before activating
- Optionally edit history at collection level
- Use SKU history of three or more years
- Utilize monthly or weekly time buckets
- Set forecast horizon up to 24 months
- Edit and optionally freeze draft forecast to reflect market intelligence

## Integration with SYSPRO

- Inventory
- Inventory Forecasting
- Inventory Optimization
- Requirements Planning
- Sales Orders

## Audit trails and reporting

- Comprehensive audit trail of collection changes (add, change and delete audit)
- Comparative reports and on-line queries
- Pareto Analysis by sales value, cost value, quantity, profit value or profit %

