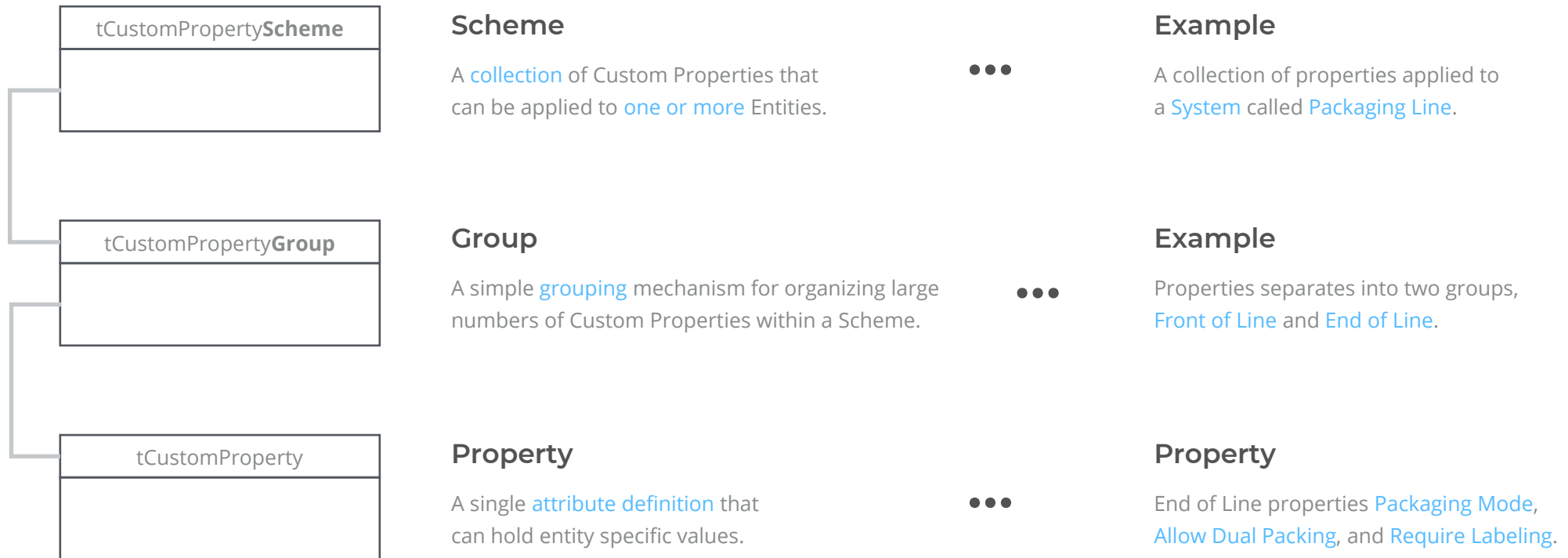


# Custom Properties Configuration Hierarchy

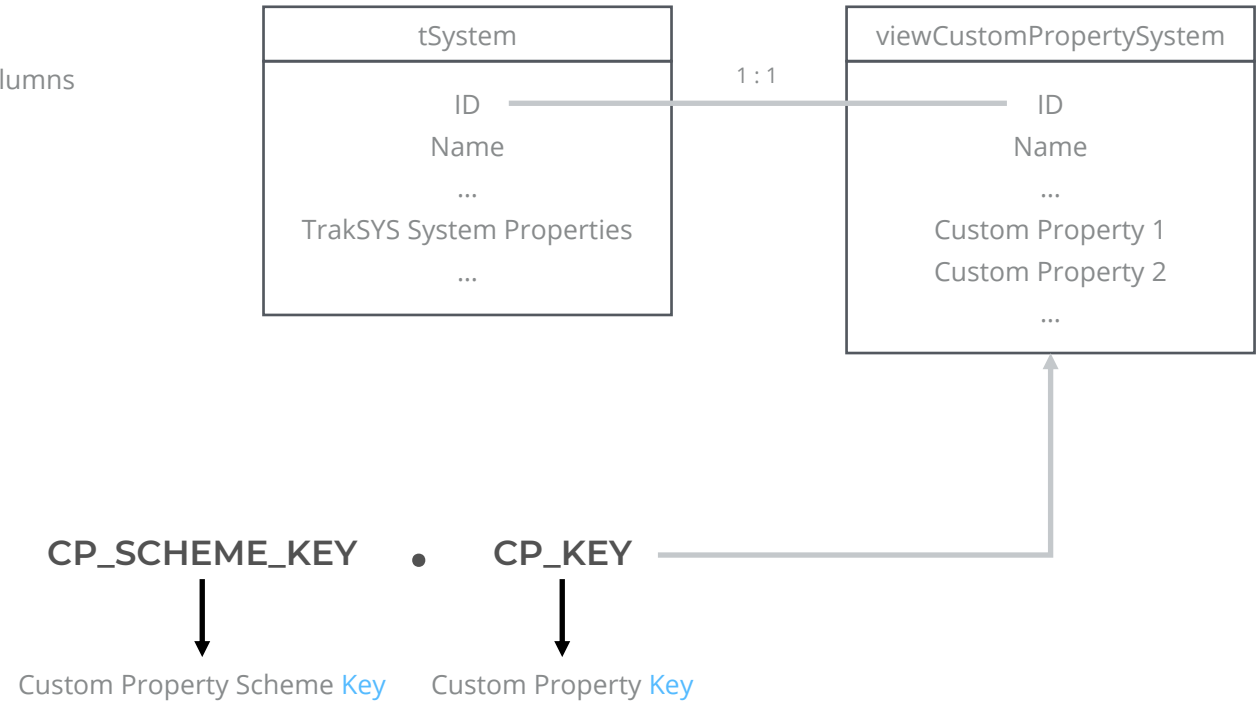


# Custom Properties Views



## Views

- Extends the configuration tables with Custom Property Columns
- Built-In and part of the standard Schema
- Automatically updated as Properties are Managed
- viewCustomPropertyArea
- viewCustomPropertyDevice
- viewCustomPropertyEventCategory
- viewCustomPropertyEvenCode
- ...



# Custom Properties

## Type Specific Schemes



### Entities supporting Type

The following entities may have Custom Property Schemes that are only displayed for specific **Type** values...

- Area
- Event Category
- Event Code
- Event Definition
- Function Definition
- Journal Category
- KPI Calculation
- KPI Counter
- Location
- Parameter Definition
- Product
- Recipe Step Definition
- Recipe
- Sample Definition
- Step Category
- Step Code
- System
- Task Definition
- Transfer Definition
- User

### Area Type

General

Name

Notes

Key

### Custom Property Scheme

General

Name

Notes

Key

Tab Name

Type Filter

# Custom Properties API Techniques

Note that error handling is omitted for brevity and clarity.



## Loading Single Entity

When loading a single entity, the Custom Property values are automatically loaded.

```
var ed = this.Ets.Api.Data.DbEventDefinition.Load.ByID(38);  
bool cpValue = ed.CustomProperties.GetAsBool("PD_SCHEME_KEY.PD_KEY", false);
```



## Loading List of Entities

When loading a list of entities, the Custom Property values are NOT automatically loaded and must be done for each entity.

```
var eds = this.Ets.Api.Data.DbEventDefinition.GetList.ForSystemID(4);  
foreach (var ed in eds)  
{  
    this.Ets.Api.Data.CustomProperty.LoadModel(ed);  
    bool cpValue = ed.CustomProperties.GetAsBool("PD_SCHEME_KEY.PD_KEY", false);  
}
```

# Custom Properties API Techniques

Note that error handling is omitted for brevity and clarity.



## Updating Custom Properties

A special [merge](#) command must be included when updating custom property values.

```
var uow = this.Ets.Api.CreateUnitOfWork();

var ed = this.Ets.Api.Data.DbEventDefinition.Load.ByID(38);
ed.CustomProperties["PD_SCHEME_KEY.PD_KEY"].Value = "new value";

this.Ets.Api.Data.CustomProperty.MergeCustomProperties(ed.CustomProperties, ed.ID, "EventDefinition", uow);
this.Ets.Api.Data.DbEventDefinition.Save.UpdateExisting(ed, uow);
```