



## Configuring Business Logic – Determinations Online Training

### Abstract:

This training will introduce you to the Advanced Determination Manager. You will learn why determinations are used, and how to create parent and child determinations.

### Detailed objectives. After the training you will know:

- ▶ How to create parent determinations
- ▶ How to create child determinations
- ▶ How to insert values to created determinations
- ▶ How to select data from dedicated SQL views for created determinations

### Target audience:

- ▶ People who need to prepare process configuration data which needs to be easily accessed and managed

### Requirements:

- ▶ Working knowledge of Process Builder

### Role and level:

- ▶ Users who know how to create Screens and other Process Builder elements



Duration: 1,5 hour



## Determination

A customer prints labels for different types of containers, using a 3rd part system. The DELMIA Apriso solution is responsible for tracking the containers and informing the 3rd part system which label needs to be printed for what container.

The configuration to accomplish this is done in a Determination which allows to retrieve the label layout type (Layout Reference ID), depending on the product in the container (Product), and the container type (LabelType).

When the Determination is configured and populated with all necessary data, it has an associated view in the database. The view can be queried for Layout Reference ID, using the Product and the Label Type as conditions.

The returned Layout Reference ID is then sent with all other necessary details to the 3rd part system, which prints the required label.

Advanced Determination Values Editor ▶ LABEL\_REF\_ID

Values

Options

Active	Product	LabelType	Layout Reference ID
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	G-WATR-001 - DEMINERALIZED WATER	PALLET_LABEL_DATA	L001
<input checked="" type="checkbox"/>	B-OILS-002 - JOJOBA OIL D+C CAPSULES	PALLET_LABEL_DATA	L002
<input checked="" type="checkbox"/>	B-CONT-002 - JAR POLY 250ML	PALLET_LABEL_DATA	L003

SQL Query Editor

MS SQL Oracle

Test query on: FlexNet ☐ Use query from the other database type

Verify Execute Break

```
1 SELECT
2   LayoutReferenceId
3 FROM
4   DET2_LABEL_REF_ID
5 WHERE
6   Product = @ProductId
7   and LabelType = @LabelType
8
```

Name	Type	Value
ProductId	Char	100000005
LabelType	Char	PALLET_LABEL_DATA

LayoutReferenceId

► L001

Results Messages

OK Cancel Help



## ▼ Welcome to PBU504

Configuring Business Logic –  
Determinations Online Training

▼ Chapter 1: Determination,  
Determination Manager

Determination

Determination Manager

► Chapter 2: Advanced Determination  
Module

End of Course

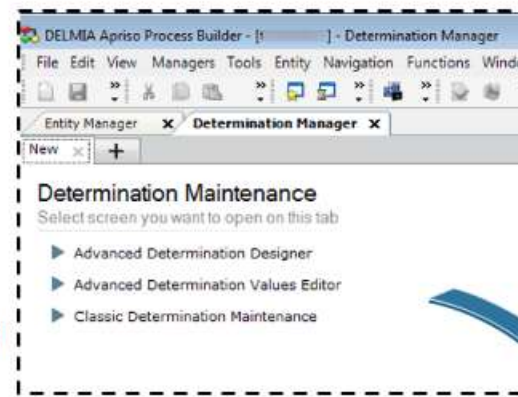
## Determination Manager

You can find the Determination Manager in Process Builder in the Managers menu. The Determination Manager tab gives you access to:

- ▶ Advanced Determination Designer
- ▶ Advanced Determination Values Editor
- ▶ Classic Determination Maintenance

In this course the Advanced Determination module will be presented. The Classic Determination is maintained for backward compatibility and will not be covered in this course.

Access to the Advanced Determination screens is also possible from the DELMIA Apriso Desktop Client.



Code	Description	Parent Determination	Last Update On	Last Updated By	Created
APR_OPERATION_STATUS		APR_USAGE_TYPE	12/21/2015 10:24	mjanik	12/21/2015
APR_ORDER_STATUS		APR_USAGE_TYPE	12/21/2015 10:24	mjanik	12/21/2015
APR_USAGE_TYPE			12/21/2015 10:24	mjanik	12/21/2015
IM_REASON_CODE	IM_REASON_CO		08/12/2015 10:20	INIT	08/11/2015
IM_REASON_CODE_CLASS	Class	IM_REASON_CODE	08/12/2015 10:20	INIT	08/11/2015
IM_SEND_NOTIFICATION	IM_SEND_NOTIF		08/12/2015 10:20	INIT	08/05/2015
IM_SIGNATURE	IM_SIGNATURE		08/12/2015 10:20	INIT	06/30/2015
MNT_ASSIGNED_GROUPS	Assigned Groups		07/01/2015 01:26	INIT	07/01/2015
MNT_ORDER_ACTIONS	Order Actions		07/01/2015 01:26	INIT	07/01/2015
MNT_ORDER_STATUS	Order Status	MNT_ORDER_ACTIONS	07/01/2015 01:26	INIT	07/01/2015
MNT_REASON_CODE	Reason Code		07/01/2015 01:26	INIT	07/01/2015
MNT_REASON_CODE_CLASS	Reason Code Cla	MNT_REASON_CODE	07/01/2015 01:26	INIT	07/01/2015
PORTAL_DICTIONARY	Dictionary		08/21/2015 11:21	ADMIN	08/21/2015



## ▼ Welcome to PBU504

Configuring Business Logic –  
Determinations Online Training▼ Chapter 1: Determination,  
Determination Manager

Determination

Determination Manager

▼ Chapter 2: Advanced Determination  
Module

Advanced Determination Module

Advanced Determination Designer

Advanced Determination Values  
Editor

Case Study For Labs

LAB 1: Create a Parent  
DeterminationLAB 1: Create a Parent  
DeterminationLAB 1: Advanced Determination  
DesignerLAB 1: Add New Advanced  
Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

## Advanced Determination Module

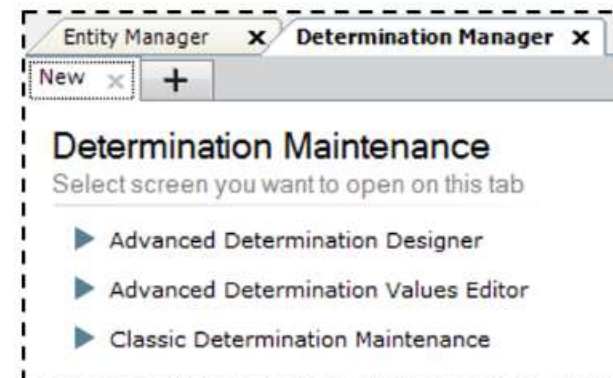
The Advanced Determination module supports hierarchical Determinations.

This module provides the following features:

- ▶ SQL Query access
- ▶ Child/parent relationships between Determinations
- ▶ The ability to set revisions on a determination

The Advanced Determination module is divided into two parts:

- ▶ Advanced Determination Designer
- ▶ Advanced Determination Values Editor





Search...

▼ Welcome to PBU504

Configuring Business Logic – Determinations Online Training

▼ Chapter 1: Determination, Determination Manager

Determination

Determination Manager

▼ Chapter 2: Advanced Determination Module

Advanced Determination Module

Advanced Determination Designer

Advanced Determination Values Editor

Case Study For Labs

LAB 1: Create a Parent Determination

LAB 1: Create a Parent Determination

LAB 1: Advanced Determination Designer

LAB 1: Add New Advanced Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

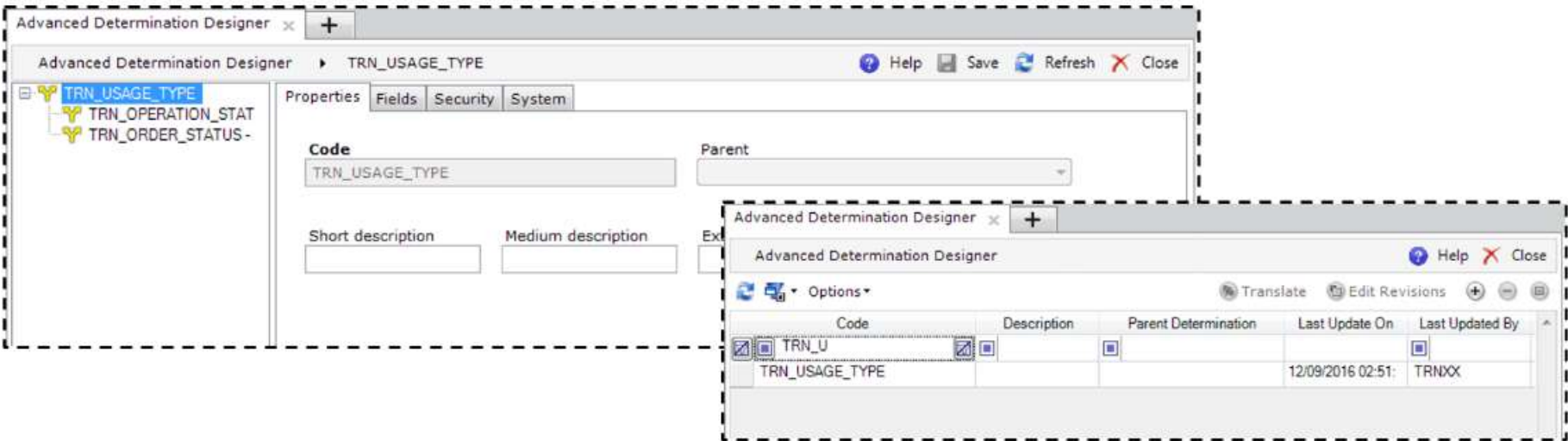
End of LAB 1

LAB 2: Create Child Determinations

# Advanced Determination Designer

The Advanced Determination Designer screen provides features for defining and managing determinations. This is where you can define which values are allowed when actually filling the determination with data using the Advanced Determination Values Editor (see next slide). Tabs entitled Properties, Fields, Security, and System allow the user to easily navigate to the appropriate configuration area.

The Edit Values button enables editing values. The determination can be revisioned, too.



Search...

Advanced Determination Designer

Advanced Determination Values Editor

Case Study For Labs

LAB 1: Create a Parent Determination

LAB 1: Create a Parent Determination

LAB 1: Advanced Determination Designer

LAB 1: Add New Advanced Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination - TRNXX\_ORDER\_STATUS

LAB 2: New Field - FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field - ValidationOperation

LAB 2: New Field - EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

# Advanced Determination Values Editor

The Advanced Determination Values Editor provides access to authorized users who need to work with the values.

The Values Editor provides an easy to use interface which allows non-technical users to edit the data, as long as they are familiar with the business processes.

Security and access restrictions are based on Roles to provide appropriate access.

Access to the Advanced Determination module is possible from Process Builder or the DELMIA Apriso Desktop Client.

Advanced Determination Values Editor ▶ APR\_USAGE\_TYPE ? Help Save Refresh Close

APR\_USAGE\_TYPE

APR\_OPERATION\_STAT

APR\_ORDER\_STATUS

Values

Options

Active	APR_OPERATIO	APR_ORDER_ST	OrderType	Facility	Valid From	Valid To
<input checked="" type="checkbox"/>	1	6	Production Order	C1P2		
<input checked="" type="checkbox"/>	1	6	Production Order	C1P1		



Advanced Determination Designer

Advanced Determination Values  
Editor

Case Study For Labs

LAB 1: Create a Parent  
DeterminationLAB 1: Create a Parent  
DeterminationLAB 1: Advanced Determination  
DesignerLAB 1: Add New Advanced  
Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination -  
TRNXX\_ORDER\_STATUSLAB 2: New Field -  
FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field -  
ValidationOperationLAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

## Case Study For Labs

In the labs that follow you will create a determination which will control order status changes and operation status changes depending on the order type and facility in which orders and operations are executed.

The order type and facility combinations will be configured as a parent determination.

The order status change and work operation status change will be 2 separate child determinations under the order type and facility parent determination.

At the end of the labs you will enter the allowed data for **Production Order** in Facility **C1P1**:

The possible **status changes for operation** will be:

- ▶ New -> Started
- ▶ Started -> Completed

The possible **status changes for orders** will be:

- ▶ New -> Started
- ▶ Started -> Completed
- ▶ Completed -> Closed





Search...



Advanced Determination Designer

Advanced Determination Values Editor

Case Study For Labs

LAB 1: Create a Parent Determination

LAB 1: Create a Parent Determination

LAB 1: Advanced Determination Designer

LAB 1: Add New Advanced Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination - TRNXX\_ORDER\_STATUS

LAB 2: New Field - FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field - ValidationOperation

LAB 2: New Field - EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

## LAB 1: Create a Parent Determination

### Task:

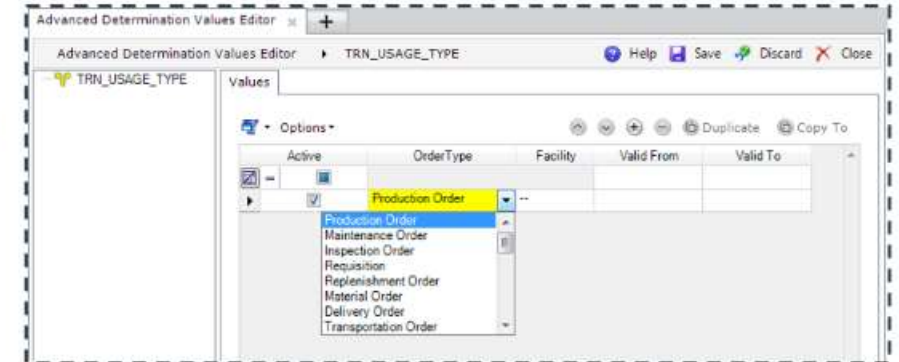
- ▶ Create determination which will be our parent determination
- ▶ The determination will have two fields Order Type and Facility. We will populate both fields taking data from the database

### What you will learn:

- ▶ How to create new Determination

### Training environment:

- ▶ In case of any technical problems, please contact [DELMIA.Apriso.training@3ds.com](mailto:DELMIA.Apriso.training@3ds.com)



Remember to use the following to login and name Screens thorough this entire training:

- TRN<yourinitials> if your are an external self-paced learner
- TRN<yourtrigram> if you are a 3DS employee self-paced learner



20 min



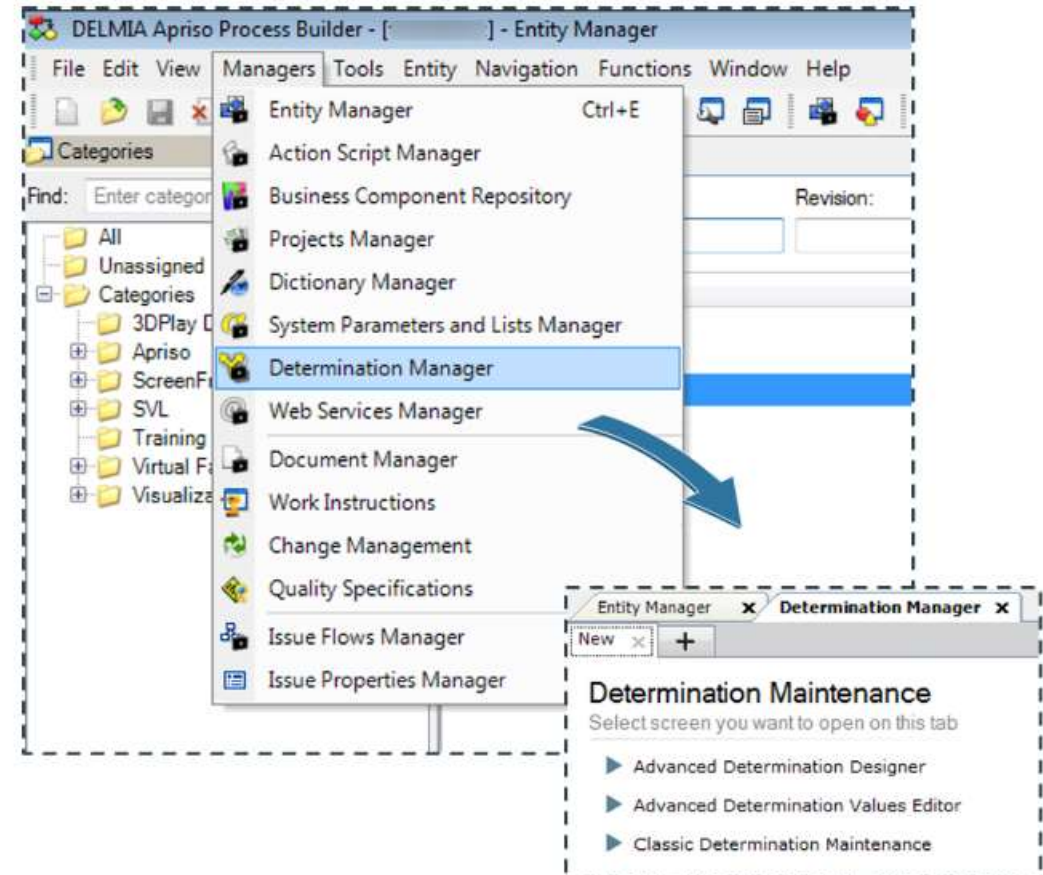


[Advanced Determination Designer](#)[Advanced Determination Values Editor](#)[Case Study For Labs](#)[LAB 1: Create a Parent Determination](#)[LAB 1: Create a Parent Determination](#)**[LAB 1: Advanced Determination Designer](#)**[LAB 1: Add New Advanced Determination](#)[LAB 1: Add Fields](#)[LAB 1: Field Details - OrderType](#)[LAB 1: Field Details - Facility](#)[LAB 1: Parent Determination](#)[End of LAB 1](#)[LAB 2: Create Child Determinations](#)[LAB 2: Create Child Determinations](#)[LAB 2: New Determination - TRNXX\\_ORDER\\_STATUS](#)[LAB 2: New Field - FromOrderStatus](#)[LAB 2: New Field - ToOrderStatus](#)[LAB 2: New Field - ValidationOperation](#)[LAB 2: New Field - EventHandlerOperation](#)[LAB 2: TRNXX\\_ORDER\\_STATUS](#)

## LAB 1: Advanced Determination Designer

- ▶ In Process Builder, access the Determination Manager from the Managers menu

- ▶ Select Advanced Determination Designer



Advanced Determination Designer

Advanced Determination Values  
Editor

Case Study For Labs

LAB 1: Create a Parent  
DeterminationLAB 1: Create a Parent  
DeterminationLAB 1: Advanced Determination  
DesignerLAB 1: Add New Advanced  
Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination -  
TRNXX\_ORDER\_STATUSLAB 2: New Field -  
FromOrderStatus

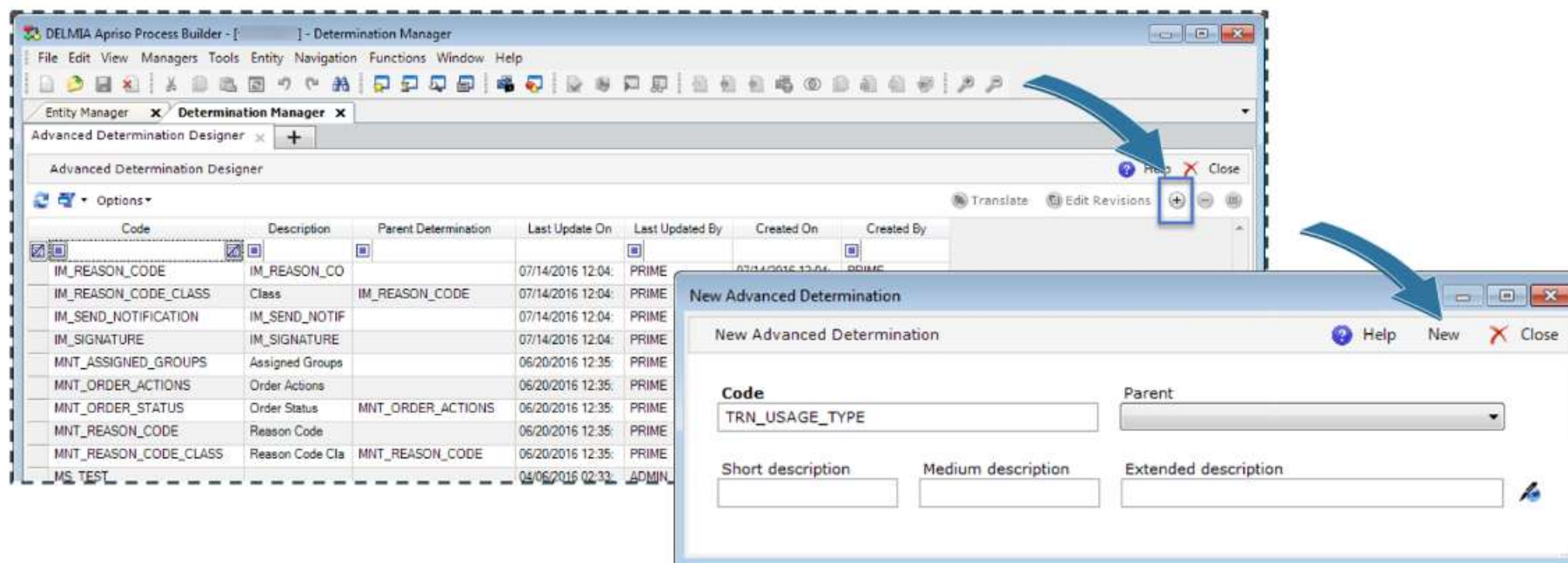
LAB 2: New Field - ToOrderStatus

LAB 2: New Field -  
ValidationOperationLAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

## LAB 1: Add New Advanced Determination

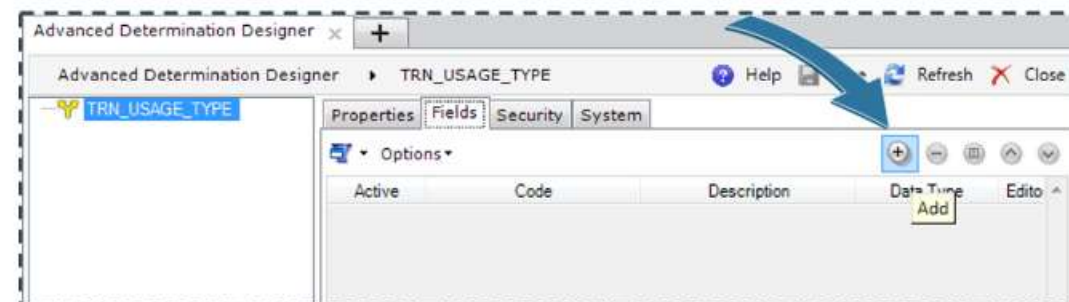
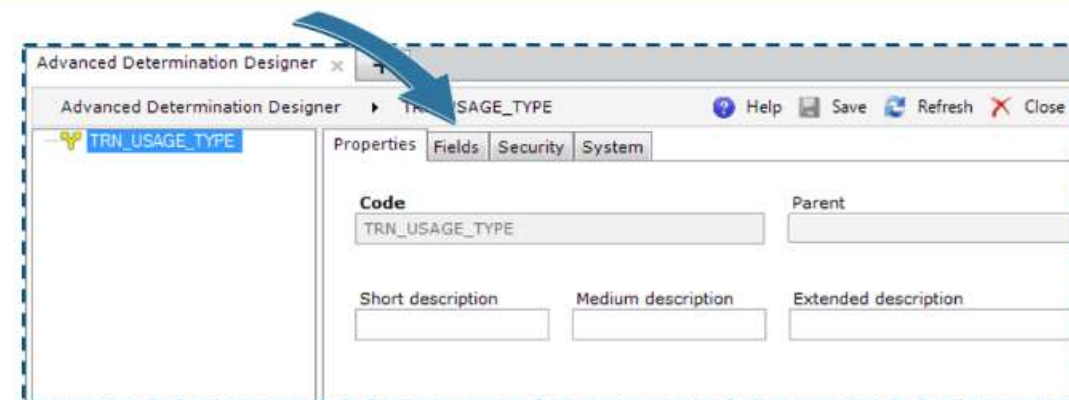
- ▶ Click the Add button
- ▶ Enter determination Code TRNXX\_USAGE\_TYPE
- ▶ Click New button



[Advanced Determination Designer](#)[Advanced Determination Values Editor](#)[Case Study For Labs](#)[LAB 1: Create a Parent Determination](#)[LAB 1: Create a Parent Determination](#)[LAB 1: Advanced Determination Designer](#)[LAB 1: Add New Advanced Determination](#)[LAB 1: Add Fields](#)[LAB 1: Field Details - OrderType](#)[LAB 1: Field Details - Facility](#)[LAB 1: Parent Determination](#)[End of LAB 1](#)[LAB 2: Create Child Determinations](#)[LAB 2: Create Child Determinations](#)[LAB 2: New Determination - TRNXX\\_ORDER\\_STATUS](#)[LAB 2: New Field - FromOrderStatus](#)[LAB 2: New Field - ToOrderStatus](#)[LAB 2: New Field - ValidationOperation](#)[LAB 2: New Field - EventHandlerOperation](#)[LAB 2: TRNXX\\_ORDER\\_STATUS](#)

## LAB 1: Add Fields

- ▶ Choose the Fields tab
- ▶ Add a field by clicking the Add button







Advanced Determination Designer

Advanced Determination Values Editor

Case Study For Labs

LAB 1: Create a Parent Determination

LAB 1: Create a Parent Determination

LAB 1: Advanced Determination Designer

LAB 1: Add New Advanced Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination - TRNXX\_ORDER\_STATUS

LAB 2: New Field - FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field - ValidationOperation

LAB 2: New Field - EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

## LAB 1: Field Details - OrderType

### Field details:

- Code: OrderType
- Data Type: Integer
- Unique: checked
- Editor source type: SQL Dynamic Dictionary
- Paste the query from scripts:

### SCRIPT FILE: Desktop/Training Materials/Level 1

### Save and Close



The query used here will populate data in the drop down when you select the order type for the determination in the Values Editor. The same will apply for all fields where you will add SQL queries.

Advanced Determination Designer x +

Advanced Determination Designer ▶ TRN\_USAGE\_TYPE ▶ Field Help Save Discard Close

Field System

**Code**  
OrderType

**Data Type**  
Integer

**Default value**  
0

☒ Unique

☐ Localizable

**Business entity**  
[Dropdown]

**Reference field**  
[Dropdown]

**Editor source type**  
SQL Dynamic Dictionary

**Editor source parameter** [Query Editor](#)

```
SELECT
    WOT.WipOrderType,
    TT.Medium
FROM
    WIP_ORDER_TYPE WOT
JOIN
    TEXT_TRANSLATION TT
ON
    WOT.TextID = TT.TextID
AND
    TT.LanguageID = @LanguageID
```

**Short description** [Text Box] **Medium description** [Text Box] **Extended description** [Text Box]



Advanced Determination Designer

Advanced Determination Values  
Editor

Case Study For Labs

LAB 1: Create a Parent  
DeterminationLAB 1: Create a Parent  
DeterminationLAB 1: Advanced Determination  
DesignerLAB 1: Add New Advanced  
Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination -  
TRNXX\_ORDER\_STATUSLAB 2: New Field -  
FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field -  
ValidationOperationLAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

## LAB 1: Field Details - Facility

- ▶ Add another field by clicking the Add button
- ▶ Field details:
  - Code: Facility
  - Data Type: Char
  - Unique: checked
  - Editor source type: SQL Dictionary
  - Paste the query from script:

**SCRIPT FILE: Desktop/Training Materials/Level 1**

- ▶ Save and Close

The screenshot shows the 'Advanced Determination Designer' window with the 'Field' tab selected. The 'System' sub-tab is active. The 'Code' field is set to 'Facility' and the 'Data Type' is 'Char'. The 'Unique' checkbox is checked. The 'Editor source type' is 'SQL Dictionary'. The 'Editor source parameter' section contains a SQL query: `SELECT Facility, Facility as Description FROM FACILITY`. The 'Short description', 'Medium description', and 'Extended description' fields are empty.

Advanced Determination Designer x +

Advanced Determination Designer ▶ TRN\_USAGE\_TYPE ▶ Field Help Save Discard Close

Field System

**Code**  
Facility

**Data Type**  
Char

**Default value**

☒ Unique  
☐ Localizable

**Business entity**

**Reference field**

**Editor source type**  
SQL Dictionary

**Editor source parameter** [Query Editor](#)

```
SELECT
    Facility,
    Facility as Description
FROM
    FACILITY
```

**Short description** **Medium description** **Extended description**

Search...

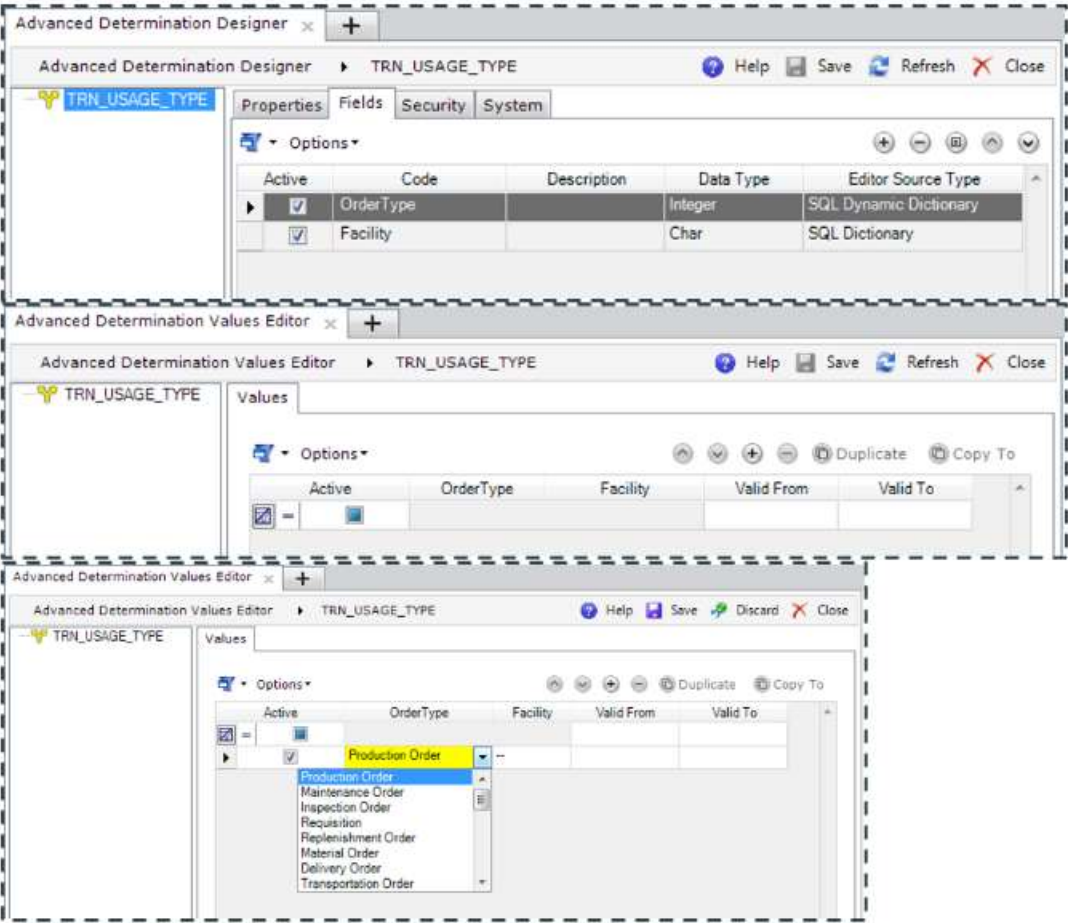
- Advanced Determination Designer
- Advanced Determination Values Editor
- Case Study For Labs
- LAB 1: Create a Parent Determination
- LAB 1: Create a Parent Determination
- LAB 1: Advanced Determination Designer
- LAB 1: Add New Advanced Determination
- LAB 1: Add Fields
- LAB 1: Field Details - OrderType
- LAB 1: Field Details - Facility
- LAB 1: Parent Determination**
- End of LAB 1
- LAB 2: Create Child Determinations
- LAB 2: Create Child Determinations
- LAB 2: New Determination - TRNXX\_ORDER\_STATUS
- LAB 2: New Field - FromOrderStatus
- LAB 2: New Field - ToOrderStatus
- LAB 2: New Field - ValidationOperation
- LAB 2: New Field - EventHandlerOperation
- LAB 2: TRNXX\_ORDER\_STATUS

# LAB 1: Parent Determination

- ▶ You have created determination **TRNXX\_USAGE\_TYPE**
- ▶ The determination will be used as a parent of two other determinations which we will create in upcoming labs

The pictures at the top shows the determination definition and the one at the bottom shows the screen that defines values (you will work with them in the labs that follow).

You can see the order type values in the drop down. These values are generated by the SQL query in the Order Type field.





Advanced Determination Designer

Advanced Determination Values Editor

Case Study For Labs

LAB 1: Create a Parent Determination

LAB 1: Create a Parent Determination

LAB 1: Advanced Determination Designer

LAB 1: Add New Advanced Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination - TRNXX\_ORDER\_STATUS

LAB 2: New Field - FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field - ValidationOperation

LAB 2: New Field - EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

## LAB 2: Create Child Determinations

### Task:

- ▶ You will create 2 Child Determinations, one for allowed Order Status changes, and the other one for Operation Status changes
- ▶ The first determination will have two fields: FromOrderStatus and ToOrderStatus. You will populate both fields by taking data from the database
- ▶ The second determination will also have two fields: FromOperationStatus and ToOperationStatus. You will populate both fields by taking data from the database as well

### What you will learn:

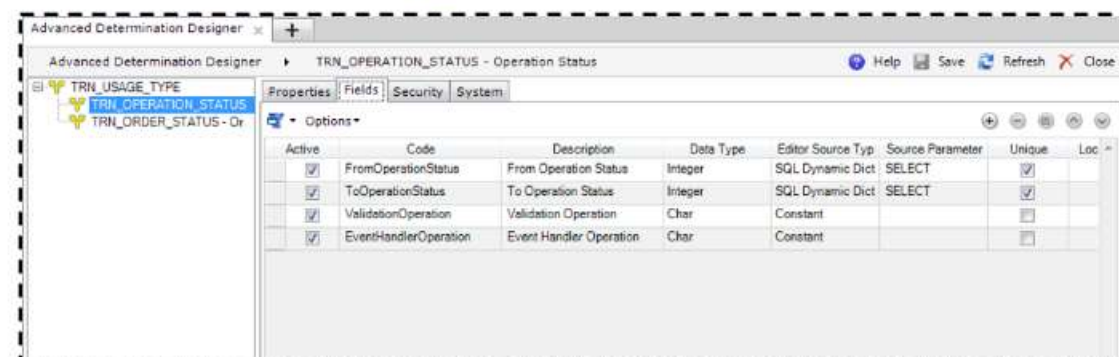
- ▶ How to create Child Determinations

### Training environment:

- ▶ In case of any technical problems, please contact [DELMIA.Apriso.training@3ds.com](mailto:DELMIA.Apriso.training@3ds.com)



30 min



Search...

Advanced Determination Designer

Advanced Determination Values Editor

Case Study For Labs

LAB 1: Create a Parent Determination

LAB 1: Create a Parent Determination

LAB 1: Advanced Determination Designer

LAB 1: Add New Advanced Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

**LAB 2: New Determination – TRNXX\_ORDER\_STATUS**

LAB 2: New Field - FromOrderStatus

LAB 2: New Field - ToOrderStatus

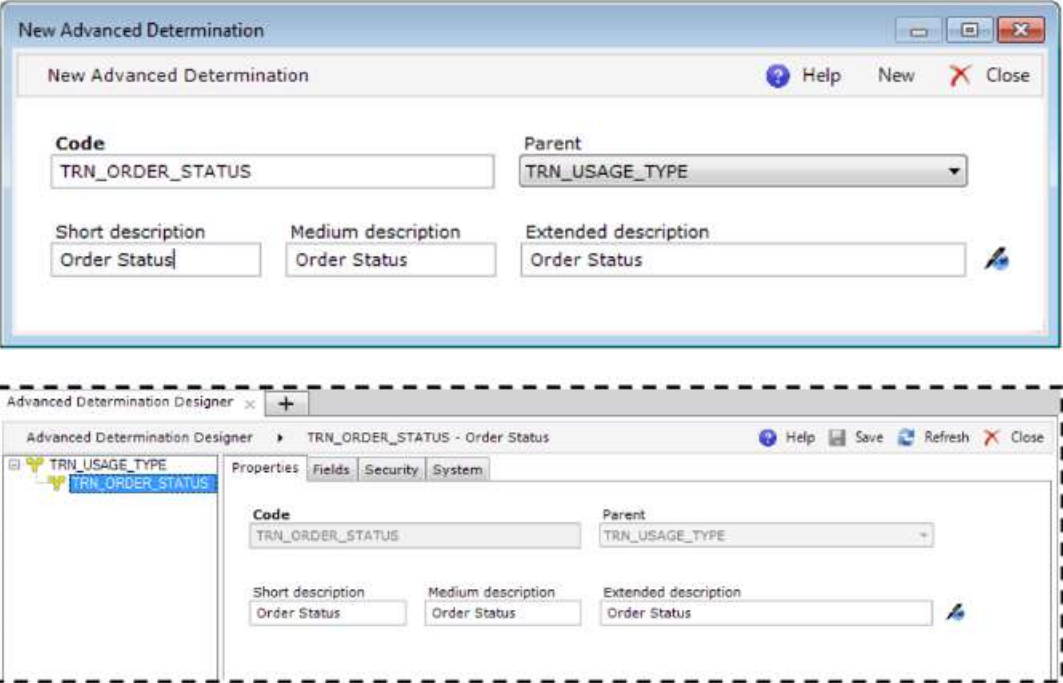
LAB 2: New Field - ValidationOperation

LAB 2: New Field - EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination – TRNXX\_ORDER\_STATUS

▶ Add new determination **TRNXX\_ORDER\_STATUS** and set parent determination for it **TRNXX\_USAGE\_TYPE**



[Advanced Determination Designer](#)[Advanced Determination Values Editor](#)[Case Study For Labs](#)[LAB 1: Create a Parent Determination](#)[LAB 1: Create a Parent Determination](#)[LAB 1: Advanced Determination Designer](#)[LAB 1: Add New Advanced Determination](#)[LAB 1: Add Fields](#)[LAB 1: Field Details - OrderType](#)[LAB 1: Field Details - Facility](#)[LAB 1: Parent Determination](#)[End of LAB 1](#)[LAB 2: Create Child Determinations](#)[LAB 2: Create Child Determinations](#)[LAB 2: New Determination - TRNXX\\_ORDER\\_STATUS](#)[LAB 2: New Field - FromOrderStatus](#)[LAB 2: New Field - ToOrderStatus](#)[LAB 2: New Field - ValidationOperation](#)[LAB 2: New Field - EventHandlerOperation](#)[LAB 2: TRNXX\\_ORDER\\_STATUS](#)

## LAB 2: New Field - FromOrderStatus

### ► Add **FromOrderStatus** field:

- Code: FromOrderStatus
- DataType: Integer
- Unique: checked
- Editor source type: SQL Dynamic Dictionary
- Paste the query from scripts:

### SCRIPT FILE: Desktop/Training Materials/Level 1

Advanced Determination Designer x +

Advanced Determination Designer ▶ TRN\_ORDER\_STATUS - Order Status ▶ Field

Field System

Code

FromOrderStatus

Data Type

Integer

Default value

0

☒ Unique

☐ Localizable

Business entity

Reference field

Editor source type

SQL Dynamic Dictionary

Editor source parameter

```
SELECT
    OS.OrderStatus,
    TT.Short
FROM
    ORDER_STATUS OS
    JOIN TEXT_TRANSLATION TT
        ON OS.TextID = TT.TextID
        AND TT.LanguageID = @LanguageID
```

[Query Editor](#)







Advanced Determination Designer

Advanced Determination Values  
Editor

Case Study For Labs

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LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination -  
TRNXX\_ORDER\_STATUSLAB 2: New Field -  
FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field -  
ValidationOperationLAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

## LAB 2: New Field - ToOrderStatus

### ► Add ToOrderStatus field:

- Code: ToOrderStatus
- DataType: Integer
- Unique: checked
- Editor source type: SQL Dynamic Dictionary
- Paste the query from scripts:

**SCRIPT FILE: Desktop/Training Materials/Level 1**

The screenshot shows the 'Advanced Determination Designer' window with the 'Field' tab selected. The configuration for the 'ToOrderStatus' field is as follows:

- Code:** ToOrderStatus
- Data Type:** Integer
- Default value:** 0
- Unique:** ☒
- Localizable:** ☐
- Business entity:** (empty dropdown)
- Reference field:** (empty dropdown)
- Editor source type:** SQL Dynamic Dictionary
- Editor source parameter:**

```
SELECT
    OS.OrderStatus,
    TT.Short
FROM
    ORDER_STATUS OS
JOIN TEXT_TRANSLATION TT
    ON OS.TextID = TT.TextID
    AND TT.LanguageID = @LanguageID
```

A [Query Editor](#) link is visible next to the editor source parameter.



Advanced Determination Designer

Advanced Determination Values  
Editor

Case Study For Labs

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Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination -  
TRNXX\_ORDER\_STATUSLAB 2: New Field -  
FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field -  
ValidationOperationLAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

## LAB 2: New Field - ValidationOperation

### ► Add **ValidationOperation** field:

- Code: ValidationOperation
- DataType: Char
- Unique: unchecked
- Editor source type: Constant

The reason for this field is to define combinations of fields, and determine which Standard Operation should be executed next.

This determination will have 2 options for executing operations, this one for validation, and one for event handling.

The screenshot shows the 'Advanced Determination Designer' window with a breadcrumb trail: 'Advanced Determination Designer > TRN\_ORDER\_STATUS - Order Status > Field'. The 'Field' tab is selected. The configuration for the 'ValidationOperation' field is as follows:

- Code:** ValidationOperation
- Data Type:** Char
- Default value:** (empty text box)
- Unique:** ☐ (unchecked)
- Localizable:** ☐ (unchecked)
- Business entity:** (empty dropdown menu)
- Reference field:** (empty dropdown menu)
- Editor source type:** Constant
- Short description:** Validation operation
- Medium description:** Validation operation
- Extended description:** Validation operation



Advanced Determination Designer

Advanced Determination Values  
Editor

Case Study For Labs

LAB 1: Create a Parent  
DeterminationLAB 1: Create a Parent  
DeterminationLAB 1: Advanced Determination  
DesignerLAB 1: Add New Advanced  
Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination -  
TRNXX\_ORDER\_STATUSLAB 2: New Field -  
FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field -  
ValidationOperationLAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

## LAB 2: New Field - EventHandlerOperation

- Add **EventHandlerOperation** field:
- Code: EventHandlerOperation
  - DataType: Char
  - Unique: unchecked
  - Editor source type: Constant

While the ValidationOperation is just for validation purposes, the event handler operation can be used to process the data and update the database.

The screenshot shows the 'Advanced Determination Designer' window with a breadcrumb trail: 'Advanced Determination Designer > TRN\_ORDER\_STATUS - Order Status > Field'. The 'Field' tab is selected. The configuration for the new field is as follows:

- Code:** EventHandlerOperation
- Data Type:** Char
- Default value:** (empty text box)
- Unique:** ☐ (unchecked)
- Localizable:** ☐ (unchecked)
- Business entity:** (empty dropdown menu)
- Reference field:** (empty dropdown menu)
- Editor source type:** Constant
- Short description:** Event Handler Operat
- Medium description:** Event Handler Operat
- Extended description:** Event Handler Operation



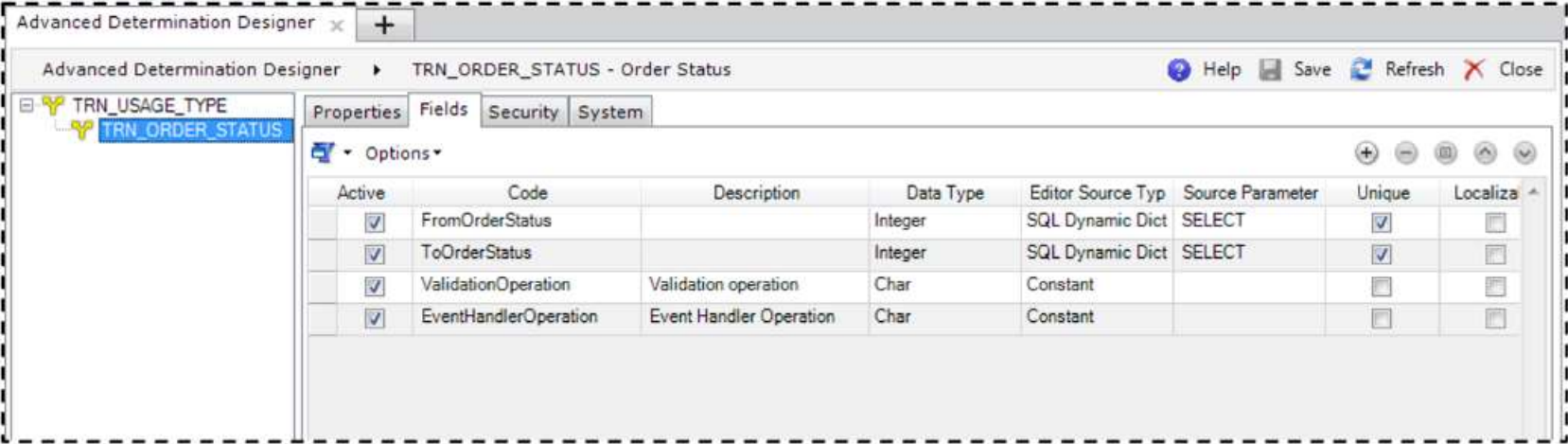


Search...

- Case Study For Labs
- LAB 1: Create a Parent Determination
- LAB 1: Create a Parent Determination
- LAB 1: Advanced Determination Designer
- LAB 1: Add New Advanced Determination
- LAB 1: Add Fields
- LAB 1: Field Details - OrderType
- LAB 1: Field Details - Facility
- LAB 1: Parent Determination
- End of LAB 1
- LAB 2: Create Child Determinations
- LAB 2: Create Child Determinations
- LAB 2: New Determination - TRNXX\_ORDER\_STATUS
- LAB 2: New Field - FromOrderStatus
- LAB 2: New Field - ToOrderStatus
- LAB 2: New Field - ValidationOperation
- LAB 2: New Field - EventHandlerOperation
- LAB 2: TRNXX\_ORDER\_STATUS**
- LAB 2: New Determination - TRNXX\_OPERATION\_STATUS

## LAB 2: TRNXX\_ORDER\_STATUS

The final version of TRNXX\_ORDER\_STATUS should look like this.





Case Study For Labs

LAB 1: Create a Parent  
DeterminationLAB 1: Create a Parent  
DeterminationLAB 1: Advanced Determination  
DesignerLAB 1: Add New Advanced  
Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination -  
TRNXX\_ORDER\_STATUSLAB 2: New Field -  
FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field -  
ValidationOperationLAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination -  
TRNXX\_OPERATION\_STATUS

## LAB 2: New Determination – TRNXX\_OPERATION\_STATUS

- ▶ Add new determination  
**TRNXX\_OPERATION\_STATUS** and set parent  
determination for it **TRNXX\_USAGE\_TYPE**

New Advanced Determination

New Advanced Determination

Code: TRN\_OPERATION\_STATUS

Parent: TRN\_USAGE\_TYPE

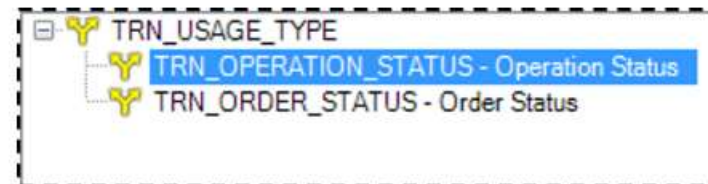
Short description: Operation Status

Medium description: Operation Status

Extended description: Operation Status

Help New Close

- ▶ The TRNXX\_OPERATION\_STATUS  
determination will store operation statuses





LAB 1: Create a Parent Determination

LAB 1: Create a Parent Determination

LAB 1: Advanced Determination Designer

LAB 1: Add New Advanced Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination - TRNXX\_ORDER\_STATUS

LAB 2: New Field - FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field - ValidationOperation

LAB 2: New Field - EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination - TRNXX\_OPERATION\_STATUS

LAB 2: New Field - FromOperationStatus

## LAB 2: New Field - FromOperationStatus

### ► Add **FromOperationStatus** field:

- Code: FromOperationStatus
- DataType: Integer
- Unique: checked
- Editor source type: SQL Dynamic Dictionary
- Paste the query from scripts:

### SCRIPT FILE: Desktop/Training Materials/Level 1

Advanced Determination Designer x +

Advanced Determination Designer ▶ TRN\_OPERATION\_STATUS - Operation Status ▶ Field

Field System

**Code**  
FromOperationStatus

**Data Type**  
Integer

**Default value**  
0

☒ Unique

☐ Localizable

**Business entity**  
[Dropdown]

**Reference field**  
[Dropdown]

**Editor source type**  
SQL Dynamic Dictionary

**Editor source parameter** [Query Editor](#)

```
SELECT
  WOS.OperationStatus,
  TT.Medium
FROM
  WIP_OPERATION_STATUS WOS
  JOIN TEXT_TRANSLATION TT
    ON WOS.TextID = TT.TextID
   AND TT.LanguageID = @LanguageID
```

**Short description**  
From Operation Statu

**Medium description**  
From Operation Statu

**Extended description**  
From Operation Status





LAB 1: Advanced Determination Designer

LAB 1: Add New Advanced Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination - TRNXX\_ORDER\_STATUS

LAB 2: New Field - FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field - ValidationOperation

LAB 2: New Field - EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination - TRNXX\_OPERATION\_STATUS

LAB 2: New Field - FromOperationStatus

LAB 2: New Field - ToOperationStatus

LAB 2: New Field - ValidationOperation

## LAB 2: New Field - ToOperationStatus

### ► Add ToOperationStatus field:

- Code: ToOperationStatus
- DataType: Integer
- Unique: checked
- Editor source type: SQL Dynamic Dictionary
- Paste the query from scripts:

### SCRIPT FILE: Desktop/Training Materials/Level 1

Advanced Determination Designer x +

Advanced Determination Designer ► TRN\_OPERATION\_STATUS - Operation Status ► Field

Field System

**Code**  
ToOperationStatus

**Data Type**  
Integer

**Default value**  
0

☒ Unique  
☐ Localizable

**Business entity**  
[Dropdown]

**Reference field**  
[Dropdown]

**Editor source type**  
SQL Dynamic Dictionary

**Editor source parameter** [Query Editor](#)

```
SELECT
    WOS.OperationStatus,
    TT.Medium
FROM
    WIP_OPERATION_STATUS WOS
    JOIN TEXT_TRANSLATION TT
      ON WOS.TextID = TT.TextID
     AND TT.LanguageID = @LanguageID
```

**Short description**  
To Operation Status

**Medium description**  
To Operation Status

**Extended description**  
To Operation Status

Search...

LAB 1: Advanced Determination Designer

LAB 1: Add New Advanced Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination - TRNXX\_ORDER\_STATUS

LAB 2: New Field - FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field - ValidationOperation

LAB 2: New Field - EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination - TRNXX\_OPERATION\_STATUS

LAB 2: New Field - FromOperationStatus

LAB 2: New Field - ToOperationStatus

LAB 2: New Field - ValidationOperation

LAB 2: New Field - ValidationOperation

- ▶ Add ValidationOperation field:
- ☒

Code: ValidationOperation
- ☒

DataType: Char
- ☒

Unique: unchecked
- ☒

Editor source type: Constant

Advanced Determination Designer

Advanced Determination Designer ▶ TRN\_OPERATION\_STATUS - Operation Status ▶ Field

Field System

Code

ValidationOperation

Data Type

Char

Default value

☐ Unique

☐ Localizable

Business entity

Reference field

Editor source type

Constant

Short description

Validation Operation

Medium description

Validation Operation

Extended description

Validation Operation



LAB 1: Add New Advanced  
Determination

LAB 1: Add Fields

LAB 1: Field Details - OrderType

LAB 1: Field Details - Facility

LAB 1: Parent Determination

End of LAB 1

LAB 2: Create Child Determinations

LAB 2: Create Child Determinations

LAB 2: New Determination -  
TRNXX\_ORDER\_STATUS

LAB 2: New Field -  
FromOrderStatus

LAB 2: New Field - ToOrderStatus

LAB 2: New Field -  
ValidationOperation

LAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination -  
TRNXX\_OPERATION\_STATUS

LAB 2: New Field -  
FromOperationStatus

LAB 2: New Field -  
ToOperationStatus

LAB 2: New Field -  
ValidationOperation

LAB 2: New Field -  
EventHandlerOperation

## LAB 2: New Field - EventHandlerOperation

- Add **EventHandlerOperation** field:
- Code: EventHandlerOperation
  - DataType: Char
  - Unique: unchecked
  - Editor source type: Constant

The screenshot shows the 'Advanced Determination Designer' window. The title bar includes a close button and a plus sign. The breadcrumb path is 'Advanced Determination Designer > TRN\_OPERATION\_STATUS - Operation Status > Field'. The 'Field' tab is selected, and the 'System' field is highlighted. The configuration details are as follows:

- Code:** EventHandlerOperation
- Data Type:** Char (selected from a dropdown)
- Default value:** (empty text box)
- Unique:** ☐ (unchecked)
- Localizable:** ☐ (unchecked)
- Business entity:** (empty dropdown)
- Reference field:** (empty dropdown)
- Editor source type:** Constant (selected from a dropdown)
- Short description:** Event Handler Operat
- Medium description:** Event Handler Operat
- Extended description:** Event Handler Operation





Search...

- LAB 1: Add Fields
- LAB 1: Field Details - OrderType
- LAB 1: Field Details - Facility
- LAB 1: Parent Determination
- End of LAB 1
- LAB 2: Create Child Determinations
- LAB 2: Create Child Determinations
- LAB 2: New Determination - TRNXX\_ORDER\_STATUS
- LAB 2: New Field - FromOrderStatus
- LAB 2: New Field - ToOrderStatus
- LAB 2: New Field - ValidationOperation
- LAB 2: New Field - EventHandlerOperation
- LAB 2: TRNXX\_ORDER\_STATUS
- LAB 2: New Determination - TRNXX\_OPERATION\_STATUS
- LAB 2: New Field - FromOperationStatus
- LAB 2: New Field - ToOperationStatus
- LAB 2: New Field - ValidationOperation
- LAB 2: New Field - EventHandlerOperation
- LAB 2: TRNXX\_OPERATION\_STATUS

## LAB 2: TRNXX\_OPERATION\_STATUS

The final version of TRNXX\_OPERATION\_STATUS should look like this:

Advanced Determination Designer

Advanced Determination Designer > TRN\_OPERATION\_STATUS - Operation Status

Properties Fields Security System

Options

Active	Code	Description	Data Type	Editor Source Typ	Source Parameter	Unique	Loc
<input checked="" type="checkbox"/>	FromOperationStatus	From Operation Status	Integer	SQL Dynamic Dict	SELECT	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	ToOperationStatus	To Operation Status	Integer	SQL Dynamic Dict	SELECT	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	ValidationOperation	Validation Operation	Char	Constant		<input type="checkbox"/>	
<input checked="" type="checkbox"/>	EventHandlerOperation	Event Handler Operation	Char	Constant		<input type="checkbox"/>	



EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination -  
TRNXX\_OPERATION\_STATUS

LAB 2: New Field -  
FromOperationStatus

LAB 2: New Field -  
ToOperationStatus

LAB 2: New Field -  
ValidationOperation

LAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_OPERATION\_STATUS

End of LAB 2

LAB 3: Add Determination Values

LAB 3: Add Determination Values

LAB 3: Advanced Determination  
Values Editor

LAB 3: Add Determination Values,  
part 1

LAB 3: Add Determination Values,  
part 2

LAB 3: Add Determination Values,  
part 3

End of LAB 3

Summary, part 1

Summary, part 2

End of Course

## LAB 3: Add Determination Values

### Task:

- ▶ You will use Advanced Determination Values Editor to add TRNXX\_USAGE\_TYPE determination values
- ▶ You will set 2 allowed operation status changes and 3 allowed order status changes for Production Orders in Facility C1P1

### What you will learn:

- ▶ How to add Determination Values

### Training environment:

- ▶ In case of any technical problems, please contact [DELMIA.Apriso.training@3ds.com](mailto:DELMIA.Apriso.training@3ds.com)



15 min

Values

Options

Active	Operation Status	Order Status	OrderType	Facility	Valid From
<input checked="" type="checkbox"/>	2	3	Production Order	C1P1	

Values

Options

Active	From Operation St	To Operation Stat	Validation Operati	Event handler ope	Valid From	Valid To
<input checked="" type="checkbox"/>	New	Started				
<input checked="" type="checkbox"/>	Started	Completed				

Values

Options

Active	FromOrderStatus	ToOrderStatus	Validation operatio	Event Handler Op	Valid From	Valid To
<input checked="" type="checkbox"/>	New	Started				
<input checked="" type="checkbox"/>	Started	Completed				
<input checked="" type="checkbox"/>	Completed	Closed				



EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination -  
TRNXX\_OPERATION\_STATUSLAB 2: New Field -  
FromOperationStatusLAB 2: New Field -  
ToOperationStatusLAB 2: New Field -  
ValidationOperationLAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_OPERATION\_STATUS

End of LAB 2

LAB 3: Add Determination Values

LAB 3: Add Determination Values

LAB 3: Advanced Determination  
Values EditorLAB 3: Add Determination Values,  
part 1LAB 3: Add Determination Values,  
part 2LAB 3: Add Determination Values,  
part 3

End of LAB 3

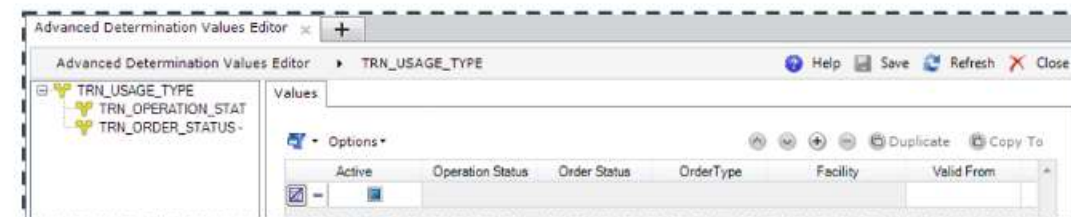
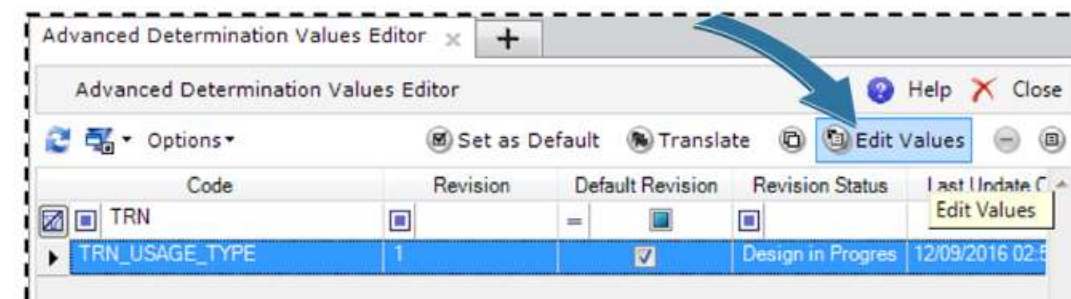
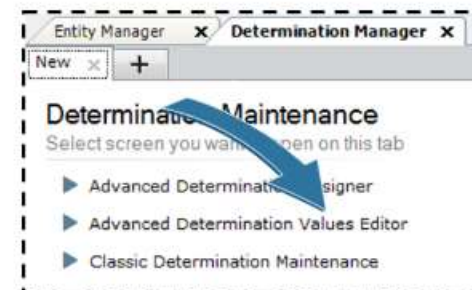
Summary, part 1

Summary, part 2

End of Course

## LAB 3: Advanced Determination Values Editor

- ▶ Run Advanced Determination Values Editor
- ▶ Find the TRNXX\_USAGE\_TYPE determination
- ▶ Click 'Edit Values' for this determination
- ▶ The Values Editor window opens
- ▶ We can now start defining values for created determinations





EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination -  
TRNXX\_OPERATION\_STATUSLAB 2: New Field -  
FromOperationStatusLAB 2: New Field -  
ToOperationStatusLAB 2: New Field -  
ValidationOperationLAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_OPERATION\_STATUS

End of LAB 2

LAB 3: Add Determination Values

LAB 3: Add Determination Values

LAB 3: Advanced Determination  
Values EditorLAB 3: Add Determination Values,  
part 1LAB 3: Add Determination Values,  
part 2LAB 3: Add Determination Values,  
part 3

End of LAB 3

Summary, part 1

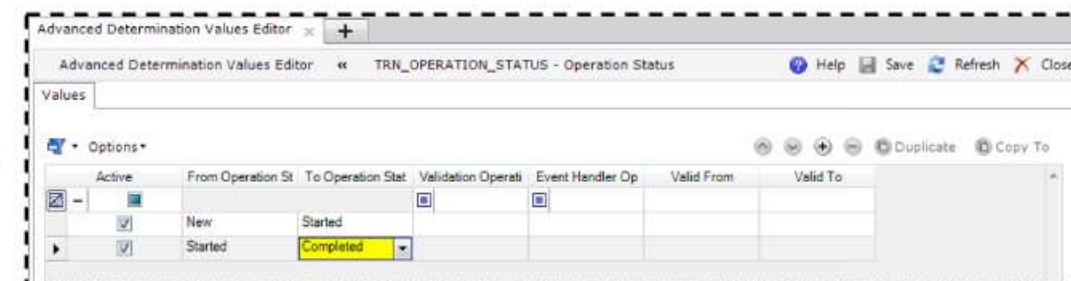
Summary, part 2

End of Course

## LAB 3: Add Determination Values, part 1

- ▶ Click the + button to add values
- ▶ Save the determination
- ▶ Click the 0 button in the TRNXX\_OPERATION\_STATUS column to add values for the **TRNXX\_OPERATION\_STATUS** determination
- ▶ Add values by clicking the + button and using drop downs:
  - From Operation Status: **New**
  - To Operation Status: **Started**
- ▶ Add values by clicking the + button and using drop downs:
  - From Operation Status: **Started**
  - To Operation Status: **Completed**
- ▶ Save

The 0 in the button you initially clicked represents the number of combinations in the child determination.



EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination -  
TRNXX\_OPERATION\_STATUSLAB 2: New Field -  
FromOperationStatusLAB 2: New Field -  
ToOperationStatusLAB 2: New Field -  
ValidationOperationLAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_OPERATION\_STATUS

End of LAB 2

LAB 3: Add Determination Values

LAB 3: Add Determination Values

LAB 3: Advanced Determination  
Values EditorLAB 3: Add Determination Values;  
part 1LAB 3: Add Determination Values;  
part 2LAB 3: Add Determination Values;  
part 3

End of LAB 3

Summary, part 1

Summary, part 2

End of Course

## LAB 3: Add Determination Values, part 2

- ▶ Go back to TRNXX\_USAGE\_TYPE parent determination
- ▶ Click the 0 button in TRNXX\_ORDER\_STATUS column to add values for the **TRNXX\_ORDER\_STATUS** determination

Active	Operation Status	Order Status	OrderType	Facility	Valid From
<input checked="" type="checkbox"/>	2	0	0	--	

- ▶ Add values by clicking the + button
  - From Order Status: **New**
  - To Order Status: **Started**
- ▶ Add values by clicking the + button
  - From Order Status: **Started**
  - To Order Status: **Completed**
- ▶ Add values by clicking the + button
  - From Order Status: **Completed**
  - To Order Status: **Closed**
- ▶ Save and Close

Active	FromOrderStatus	ToOrderStatus	Validation operation	Event Handler Op
<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	New	Started		
<input checked="" type="checkbox"/>	Started	Completed		
<input checked="" type="checkbox"/>	Completed	Closed		



Search...

EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination -  
TRNXX\_OPERATION\_STATUS

LAB 2: New Field -  
FromOperationStatus

LAB 2: New Field -  
ToOperationStatus

LAB 2: New Field -  
ValidationOperation

LAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_OPERATION\_STATUS

End of LAB 2

LAB 3: Add Determination Values

LAB 3: Add Determination Values

LAB 3: Advanced Determination  
Values Editor

LAB 3: Add Determination Values,  
part 1

LAB 3: Add Determination Values,  
part 2

LAB 3: Add Determination Values,  
part 3

End of LAB 3

Summary, part 1

Summary, part 2

End of Course

## LAB 3: Add Determination Values, part 3

- ▶ Go back to the parent determination

Now use the drop downs in the OrderType and Facility fields to tell the system the values you entered apply only to **Production Order**, and only those in **Facility C1P1**

- ▶ So, for this order type and facility, the possible statuses for an operation are:

- ☐ New -> Started
- ☐ Started -> Completed

- ▶ And the possible statuses for an order are:

- ☐ New -> Started
- ☐ Started -> Completed
- ☐ Completed -> Closed

When this determination is used to validate statuses, then Production Orders for facility C1P1 can change operation status only from *New* to *Started* and *Started* to *Completed*.

To keep this determination example simple, you are not adding any particular Operations for validation or event handling.

The screenshot shows the 'Values' editor with the following configuration:

Active	Operation Status	Order Status	OrderType	Facility	Valid From
<input checked="" type="checkbox"/>	2	3	Production Order	C1P1	

The screenshot shows the 'Values' editor with the following configuration:

Active	From Operation St	To Operation Stat	Validation Operati	Event handler ope	Valid From	Valid To
<input checked="" type="checkbox"/>	New	Started	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/>	Started	Completed				

The screenshot shows the 'Values' editor with the following configuration:

Active	FromOrderStatus	ToOrderStatus	Validation operatio	Event Handler Op	Valid From	Valid To
<input checked="" type="checkbox"/>	New	Started	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/>	Started	Completed				
<input checked="" type="checkbox"/>	Completed	Closed				



EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination -  
TRNXX\_OPERATION\_STATUSLAB 2: New Field -  
FromOperationStatusLAB 2: New Field -  
ToOperationStatusLAB 2: New Field -  
ValidationOperationLAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_OPERATION\_STATUS

End of LAB 2

LAB 3: Add Determination Values

LAB 3: Add Determination Values

LAB 3: Advanced Determination  
Values EditorLAB 3: Add Determination Values;  
part 1LAB 3: Add Determination Values;  
part 2LAB 3: Add Determination Values;  
part 3

End of LAB 3

Summary, part 1

Summary, part 2

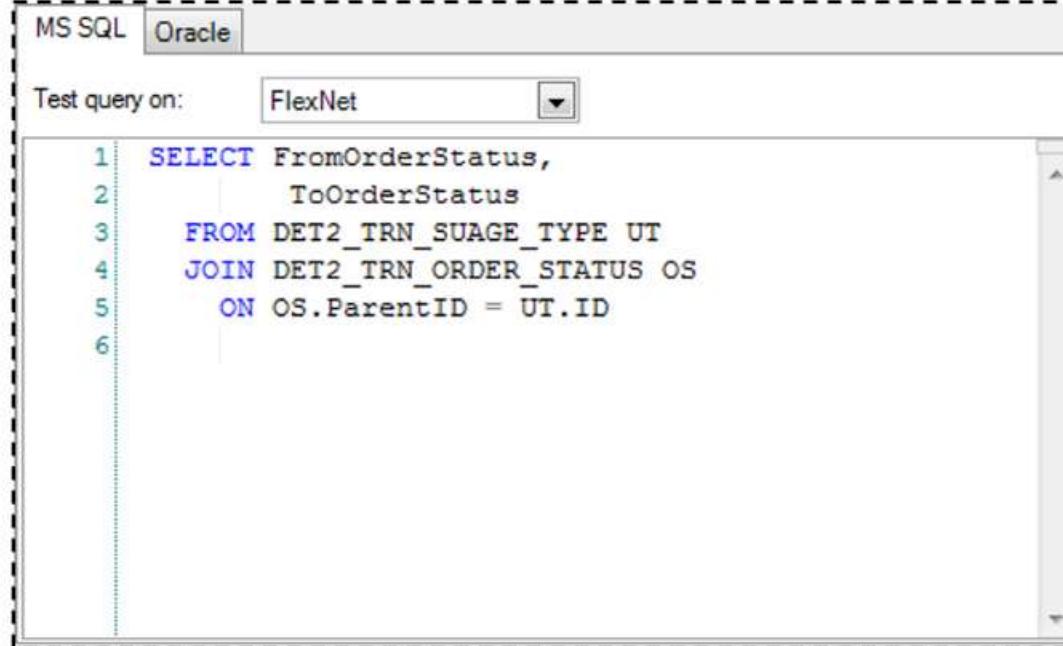
End of Course

## Summary, part 1

Determinations like the one you have just configured can be used in SQL queries, because the DELMIA Apriso system generates database views from them.

These views always have the prefix of 'DET2\_' before the code you used when creating the determination, e.g. TRNXX\_USAGE\_TYPE.

You can extract the column values and use them in the business logic in any way you need.



The screenshot shows a software interface for writing SQL queries. At the top, there are two tabs: 'MS SQL' and 'Oracle', with 'Oracle' currently selected. Below the tabs, there is a label 'Test query on:' followed by a dropdown menu that has 'FlexNet' selected. The main area of the interface is a text editor containing an SQL query. The query is as follows:

```
1 SELECT FromOrderStatus,  
2     ToOrderStatus  
3 FROM DET2_TRN_SUAGE_TYPE UT  
4 JOIN DET2_TRN_ORDER_STATUS OS  
5     ON OS.ParentID = UT.ID  
6
```

EventHandlerOperation

LAB 2: TRNXX\_ORDER\_STATUS

LAB 2: New Determination -  
TRNXX\_OPERATION\_STATUSLAB 2: New Field -  
FromOperationStatusLAB 2: New Field -  
ToOperationStatusLAB 2: New Field -  
ValidationOperationLAB 2: New Field -  
EventHandlerOperation

LAB 2: TRNXX\_OPERATION\_STATUS

End of LAB 2

LAB 3: Add Determination Values

LAB 3: Add Determination Values

LAB 3: Advanced Determination  
Values EditorLAB 3: Add Determination Values;  
part 1LAB 3: Add Determination Values;  
part 2LAB 3: Add Determination Values;  
part 3

End of LAB 3

Summary, part 1

Summary, part 2

End of Course

## Summary, part 2

In this training module you had a chance to learn how you can add custom configuration tables to your DELMIA Apriso solution without changing the database.

The Advanced Determinations are used for this purpose, and they offer 2 benefits:

- ▶ This functionality is supported by DELMIA Apriso
- ▶ The Values Editor screen allows for managing the determination values for non-technical, business oriented users

Determinations allow for eliminating the need for very complex SQL queries (with complex CASE statements).

Also, they can be used for mapping between external systems and the DELMIA Apriso database, e.g. mapping between SAP workcenters, and workcenters existing in the DELMIA Apriso database.

Values

Options

Active	Operation Status	Order Status	OrderType	Facility	Valid From
<input checked="" type="checkbox"/>	2	3	Production Order	C1P1	

Values

Options

Active	From Operation St	To Operation Stat	Validation Operati	Event handler ope	Valid From	Valid To
<input checked="" type="checkbox"/>	New	Started				
<input checked="" type="checkbox"/>	Started	Completed				

Values

Options

Active	FromOrderStatus	ToOrderStatus	Validation operatio	Event Handler Op	Valid From	Valid To
<input checked="" type="checkbox"/>	New	Started				
<input checked="" type="checkbox"/>	Started	Completed				
<input checked="" type="checkbox"/>	Completed	Closed				