## General Comments

Note that some output objects bear the same name while being distinct, as is often the case in DSLTrans. Also note that output presence conditions remain unsimplified for the sake of clarity. In the following test cases, refer to VirtualDevice, Distributable, SwcToEcuMapping, and ExecFrame respectively, all of which are classes in the GM->AUTOSAR example. refer to Display, HumanMachineInterface, and Frame respectively, all of which are names of objects in the GM input model. For ease of understanding, presence conditions are not named but are rather based on the name of the object they are annotating.

## Simple\_Example, Small Test Case

### Rule:

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### Input:

### Expected Output:

## Simple\_Example, Large Test Case

### Rule:

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### Input:

### Expected Output:

## Simple\_Example, NAC\_Class Test Case

### Rule:

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### Input:

### Expected Output:

## Simple\_Example, NAC\_Assoc Test Case

### Rule:

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### Input:

### Expected Output:

## Simple\_Example, NAC\_Full Test Case

### Rule:

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### Input:

### Expected Output:

## Simple\_Example, NAC\_Exist Test Case

### Rule:

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### Input:

### Expected Output:

## Simple\_Example, NAC\_Self Test Case

### Rule:

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### Input:

### Expected Output:

*H1*

*H2*

## Complex Example, Small Test Case

### Rule:

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### Input:

### Expected Output:

## Complex Example, Large Test Case

### Rule:

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### Input:

*R*

*R*

### Expected Output:

## Complex Example, All\_Exist Test Case

### Rule:

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### Input:

*R*

*R*

### Expected Output:

## Complex Example, NAC\_Full Test Case

### Rule:

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### Input:

*R*

*R*

### Expected Output:

H2

## Contained Example, positive\_indirect Test Case

All associations in this example are containment associations. The GM metamodel for this test case was modified in order to express this.

### Rule:

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### Input:

*2*

*1*

### Expected Output:

## Contained Example, negative\_indirect Test Case

All associations in this example are containment associations. The GM metamodel for this test case was modified in order to express this.

### Rule:

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### Input:

*2*

*1*

### Expected Output:

H1

## Contained Example, double\_negative Test Case

All associations in this example are containment associations. The GM metamodel for this test case was modified in order to express this.

### Rule:

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### Input:

*2*

*1*

### Expected Output:

H1