

Graphical Notation for DSML4PTM

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1 Introduction

This document introduces the graphical notation of modeling constructs of the DSML4PTM. For each construct, the following information are provided:


- (1) the source from which the semantic is borrowed (see “according to”);
- (2) (if applicable) semantics in the form of (a) constraints on relationships, which are described in the form of text (see “connections”) and (b) attributes;

1.1 BPMN

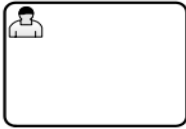
Task:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can have up to two “Sentry” at the left border of the task</p> <p>Attributes: Discretionary Task, Task Name</p> <p>Other: Can also be “Discretionary”, can start an activity or path in a process without an own start event if there is a “Sentry” attached</p>
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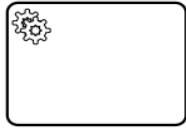
Manual Task:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can have up to two “Sentry” at the left border of the task</p> <p>Other: Cannot be a “Discretionary” task</p>
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User Task:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can have up to two “Sentry” at the left border of the task</p> <p>Other: Cannot be a “Discretionary” task</p>
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Service Task:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can have up to two “Sentry” at the left border of the task</p> <p>Other: Cannot be a “Discretionary” task</p>
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Business Rule Task:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can have up to two “Sentry” at the left border of the task, can have a connection to a decision of the DMN requirements diagram</p> <p>Other: Cannot be a “Discretionary” task</p>
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Loop Marker:

	<p>According to: (Object Management Group, 2014)</p> <p>Other: Cannot be attached to a “Discretionary” task</p>
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Parallel Marker:

	<p>According to: (Object Management Group, 2014)</p> <p>Other: Cannot be attached to a “Discretionary” task</p>
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Sequence Flow:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also be connected to and from “Discretionary” tasks</p>
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Exclusive Gateway:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also be connected to and from “Discretionary” tasks</p>
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Parallel Gateway:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also be connected to and from “Discretionary” tasks</p>
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Pool:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Is always linked to a “Organizational Unit” element of the Organization Model</p>
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Pool Acute Hospital:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Is always linked to a “Acute Hospital Organizational Unit” element of the Organization Model</p> <p>Other: Has label “Acute Hospital”</p>
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Pool Rehabilitation Clinic:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Is always linked to a “Rehabilitation Clinic Organizational Unit” element of the Organization Model</p> <p>Other: Has label “Rehabilitation Clinic”</p>
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Pool Health Insurance:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Is always linked to a “Health Insurance Organizational Unit” element of the Organization Model</p> <p>Other: Has label “Health Insurance”</p>
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Lane:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Is always linked to a “Role” element of the Organization Model</p> <p>Other: Can also include “Discretionary” tasks</p>
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Lane Transferal Manager:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Is always linked to a “Transferal Manager” “Role” element of the Organization Model</p> <p>Other: Can also include “Discretionary” tasks, has label “Transferal Manager”</p>
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Lane Acute Physician:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Is always linked to a “Acute Physician” “Role” element of the Organization Model</p> <p>Other: Can also include “Discretionary” tasks, has label “Acute Physician”</p>
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Lane Rehabilitation Physician:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Is always linked to a “Rehabilitation Physician” “Role” element of the Organization Model</p> <p>Other: Can also include “Discretionary” tasks, has label “Rehabilitation Physician”</p>
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Lane Nurse:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Is always linked to a “Nurse” “Role” element of the Organization Model</p> <p>Other: Can also include “Discretionary” tasks, has label “Nurse”</p>
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Lane Patient Disposition:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Is always linked to a “Patient Disposition” “Role” element of the Organization Model</p> <p>Other: Can also include “Discretionary” tasks, has label “Patient Disposition”</p>
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Message Flow:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also be connected to “Discretionary” tasks</p>
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Data Object:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can be connected to either a “Group” or a “Data/Document” of the Documents and Knowledge Model</p>
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KoGu Data Object:

	<p>According to: (Object Management Group, 2014) “Data Object”</p> <p>Connections: Is always connected to the “KoGu” “Data/Document” of the Documents and Knowledge Model</p> <p>Attribute: KoGu template, KoGu Status</p> <p>Other: Has label “KoGu Data Object”</p>
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Medical Data Data Object:

	<p>According to: (Object Management Group, 2014) “Data Object”</p> <p>Connections: Is always connected to the “Medical Data” “Group” of the Documents and Knowledge Model</p> <p>Other: Has label “Medical Data Data Object”</p>
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Administrative Data Data Object:

	<p>According to: (Object Management Group, 2014) “Data Object”</p> <p>Connections: Is always connected to the “Administrative Data” “Group” of the Documents and Knowledge Model</p> <p>Other: Has label “Administrative Data Data Object”</p>
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Process Progress Data Object:

	<p>According to: (Object Management Group, 2014) “Data Object”</p> <p>Connections: Is always connected to the “Process Progress” “Group” of the Documents and Knowledge Model</p> <p>Other: Has label “Process Progress Data Object”</p>
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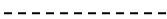
Care Status Data Object:

	<p>According to: (Object Management Group, 2014) “Data Object”</p> <p>Connections: Is always connected to the “Care Status” “Group” of the Documents and Knowledge Model</p> <p>Other: Has label “Care Status Data Object”</p>
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
Hospitalization Document Data Object:

	<p>According to: (Object Management Group, 2014) “Data Object”</p> <p>Connections: Is always connected to the “Hospitalization Document” “Data/Document” of the Documents and Knowledge Model</p> <p>Other: Has label “Hospitalization Document Data Object”</p>
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Data Association:

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also connect all new “Data Objects” with all tasks (also “Discretionary” tasks)</p>
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None Event (Standard Start):

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also be connected to “Discretionary” tasks</p>
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None Event (Throwing Intermediate):

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also be connected to “Discretionary” tasks</p>
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None Event (Standard End):

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also be connected to “Discretionary” tasks</p>
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Message Event (Standard Start):

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also be connected to “Discretionary” tasks</p>
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Message Event (Catching Intermediate):

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also be connected to “Discretionary” tasks</p>
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Message Event (Throwing Intermediate):

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also be connected to “Discretionary” tasks</p>
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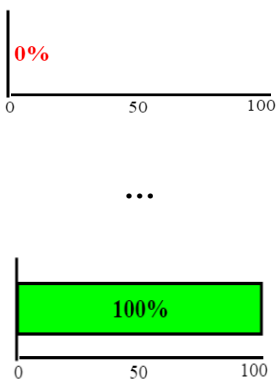
Message Event (Standard End):

	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also be connected to “Discretionary” tasks</p>
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Timer Event (Catching Intermediate):


	<p>According to: (Object Management Group, 2014)</p> <p>Connections: Can also be connected to “Discretionary” tasks</p>
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Status:


	<p>Connections: Is connected to six status elements of the Documents and Knowledge Model</p> <p>Attributes: Data released, First assessment done, Reha conference done, Transfer date, Hospital approval, Reha approval, Patient in reha, KoGu ready, KoGu sent, KoGu accepted, KoGu rejected, Information filled in, Medication list complete, Medication list sent, Case accepted, Patient accepted</p> <p>Other: Changes progress and color based on data collection of attributes, 15 possibilities from 0 (0%) to 14 (100%) filled in (Reha conference and KoGu rejected are not relevant for progress), is placed on top right corner of the DSML4PTM model, is only used once, has label “Status”</p>
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1.2 CMMN and Control Element Model


Discretionary Task:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can have up to two “Sentry” at the left border of the task, can have a connection to a decision of the DMN requirements diagram</p> <p>Other: Will be included into DSML4PTM Model as a flag for “Task”. If it is part of the process flow, it will be skipped if it should not be executed. If there is no incoming flow, it cannot be skipped and will be executed once relevant. Can start an activity or path in a process without an own start event when it is decided to execute the task.</p>
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Sentry (Entry Criterion Shape):

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be connected to any task type in the DSML4PTM Model, is always linked to a “Sentry” of the Control Element Model</p> <p>Other: Will be included into the DSML4PTM Model. Two sentries that are attached to the left side of any “Task” are equivalent to an OR.</p>
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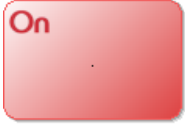
Sentry (of Control Element Model):

	<p>According to: (Hinkelmann, et al., 2015)</p> <p>Connections: Has “Connection” to at least 1 “On-Condition” and 0 or 1 “If-Condition”, is always linked to a “Sentry” of the DSML4PTM Model</p>
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Connection:

	<p>According to: (Hinkelmann, et al., 2015)</p> <p>Connections: Connects “Sentry” with “On-Condition” or “If-Condition” in the Control Element Model</p>
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On-Condition:


	<p>According to: (Hinkelmann, et al., 2015)</p> <p>Connections: Connected to “Sentry” with “Connection” in the Control Element Model</p>
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If-Condition:


	<p>According to: (Hinkelmann, et al., 2015)</p> <p>Connections: Connected to “Sentry” with “Connection” in the Control Element Model</p>
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1.3 DMN


Decision:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p>
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Decision Choose Rehab Clinic:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Other: Has label “Choose Rehab Clinic”</p>
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Decision Geriatric Rehabilitation Suitability:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Other: Has label “Geriatric Rehabilitation Suitability”</p>
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Decision Internistic and Oncological Rehabilitation Suitability:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Other: Has label “Internistic and Oncological Rehabilitation Suitability”</p>
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Decision Cardiovascular Rehabilitation Suitability:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Other: Has label “Cardiovascular Rehabilitation Suitability”</p>
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Decision Musculoskeletal Rehabilitation Suitability:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Other: Has label “Musculoskeletal Rehabilitation Suitability”</p>
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Decision Neurological Rehabilitation Suitability:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Other: Has label “Neurological Rehabilitation Suitability”</p>
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Decision Pediatric Rehabilitation Suitability:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Other: Has label “Pediatric Rehabilitation Suitability”</p>
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Decision Paraplegic Rehabilitation Suitability:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Other: Has label “Paraplegic Rehabilitation Suitability”</p>
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Decision Psychosomatic Rehabilitation Suitability:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Other: Has label “Psychosomatic Rehabilitation Suitability”</p>
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Decision Pneumological Rehabilitation Suitability:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Other: Has label “Pneumological Rehabilitation Suitability”</p>
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Decision Inpatient Rehabilitation Suitability:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Attribute: Rehabilitation Type</p> <p>Other: Has label “Inpatient Rehabilitation Suitability”</p>
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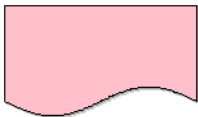
Decision Compulsory Medical Monitoring Rehabilitation Suitability:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Attribute: Rehabilitation Type</p> <p>Other: Has label “Compulsory Medical Monitoring Rehabilitation Suitability”</p>
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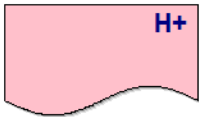
Decision Compulsory Medical Monitoring to Inpatient Rehabilitation Suitability:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Business Rule Task” or a “Discretionary Task” of the DSML4PTM model</p> <p>Attribute: Rehabilitation Type</p> <p>Other: Has label “Decision Compulsory Medical Monitoring to Inpatient Rehabilitation Suitability”</p>
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Knowledge Source:

	<p>According to: (Object Management Group, 2016)</p> <p>Attribute: Attachment</p>
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Knowledge Source DefReha©:

	<p>According to: (Object Management Group, 2016)</p> <p>Attribute: Attachment</p> <p>Other: Has label “DefReha©”</p>
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Input Data:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be linked to a “Data/Document” of the Documents and Knowledge Model</p> <p>Attribute: Attachment</p>
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Business Knowledge:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be connected to a “Decision Table”</p>
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Business Knowledge Inclusion Criteria:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be connected to any “Entry” or “Exit” “Decision Table”</p> <p>Attribute: Rehabilitation Category</p>
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Business Knowledge Exclusion Criteria:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be connected to any “Entry” or “Exit” “Decision Table”</p> <p>Attribute: Rehabilitation Category</p>
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Business Knowledge Combination Inclusion and Exclusion Criteria:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Can be connected to a “Suitability Decision Table”</p> <p>Attribute: Rehabilitation Category</p>
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Information Requirement:

	<p>According to: (Object Management Group, 2016)</p>
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Knowledge Requirement:

	<p>According to: (Object Management Group, 2016)</p>
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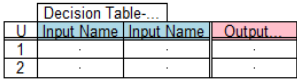
Authority Requirement:

	<p>According to: (Object Management Group, 2016)</p>
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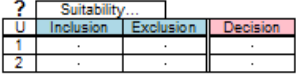
Has Decision Table:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Links any “Business Knowledge” to any “Decision Table”</p>
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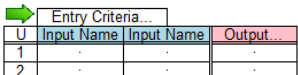
Decision Table:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Is connected to a “Business Knowledge” element</p>
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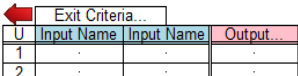
Suitability Decision Table:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Is connected to a “Combination Inclusion Criteria and Exclusion Criteria” element</p> <p>Other: Prefilled with columns “Inclusion”, “Exclusion”, “Decision”</p>
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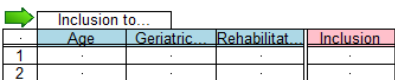
Entry Criteria Decision Table:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Is connected to a “Inclusion Criteria” or “Exclusion Criteria” element</p>
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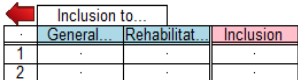
Exit Criteria Decision Table:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Is connected to a “Inclusion Criteria” or “Exclusion Criteria” element</p>
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Decision Table Inclusion to Inpatient Geriatric Rehabilitation Entry:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Is connected to a “Inclusion Criteria” element</p> <p>Other: Prefilled with columns “Age”, “Geriatric Syndrome”, “Rehabilitation Required”, “Inclusion”</p>
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Decision Table Inclusion to Inpatient Geriatric Rehabilitation Exit Home/Long-term Facility:

	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Is connected to a “Inclusion Criteria” element</p> <p>Other: Prefilled with columns “General Condition”, “Rehabilitation Objectives”, “Inclusion”</p>
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Decision Table Exclusion to Inpatient Geriatric Rehabilitation Entry:


<div><div><div></div></div><div>Exclusion to...</div></div> <table><tr><th></th><th>Acutesom...</th><th>Other...</th><th>Exclusion</th></tr><tr><td>1</td><td>.</td><td>.</td><td>.</td></tr><tr><td>2</td><td>.</td><td>.</td><td>.</td></tr></table>		Acutesom...	Other...	Exclusion	1	.	.	.	2	.	.	.	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Is connected to a “Exclusion Criteria” element</p> <p>Other: Prefilled with columns “Acutesomatic Treatment and Diagnostics Done”, “Other Specialized Rehabilitation Needed”, “Exclusion”</p>
	Acutesom...	Other...	Exclusion										
1	.	.	.										
2	.	.	.										

Decision Table Exclusion to Inpatient Geriatric Rehabilitation Exit:


 <table><tr><th colspan="3">Exclusion to...</th></tr><tr><th>Progress...</th><th>Change for..</th><th>Exclusion</th></tr><tr><td>1</td><td>.</td><td>.</td></tr><tr><td>2</td><td>.</td><td>.</td></tr></table>	Exclusion to...			Progress...	Change for..	Exclusion	1	.	.	2	.	.	<p>According to: (Object Management Group, 2016)</p> <p>Connections: Is connected to a “Exclusion Criteria” element</p> <p>Other: Prefilled with columns “Progress Allows Exit”, “Change for the Worse is Temporary”, “Exclusion”</p>
Exclusion to...													
Progress...	Change for..	Exclusion											
1	.	.											
2	.	.											

1.4 Documents and Knowledge Model


Group:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Can contain/aggregate several unspecified “Data/Documents”</p>
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Care Status:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Contains/aggregates “Documents” “Assistance Data”, “Special Medication Data”, is linked to a “Care Status Data Object” of the DSML4PTM Model</p> <p>Other: Always includes all mentioned “Data/Documents”, always needs to be present, can only be used once, has label “Care Status”</p>
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Administrative Data:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Contains/aggregates “Data/Documents” “Patient Data”, “Patient Health Insurance Data”, “Acute Physician Data”, “Rehabilitation Data”, “KoGu”, “Hospitalization Document”, “Status” “Physical Transfer Status”, “KoGu Status”, “Acceptance Status”, is linked to a “Administrative Data Data Object” of the DSML4PTM Model</p> <p>Other: Always includes all mentioned “Data/Documents” and “Status” elements, always needs to be present, can only be used once, has label “Administrative Data”</p>
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Process Progress:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Contains/aggregates “Data/Documents” “Process Data”, “Status” “Process Status”, is linked to a “Process Progress Data Object” of the DSML4PTM Model</p> <p>Other: Always includes the mentioned “Data/Document” and “Status” element, always needs to be present, can only be used once, has label “Process Progress”</p>
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Medical Data:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Contains/aggregates “Data/Documents” “General Data”, “ICF Standard”, “Medication List”, “Status” “ICF Qualifiers Status”, “Medication List Status”, is linked to a “Medical Data Data Object” of the DSML4PTM Model</p> <p>Other: Always includes all mentioned “Data/Documents” and “Status” elements, always needs to be present, can only be used once, has label “Medical Data”</p>
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Data/Document:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Can be part of a “Group”, can be linked to a “Data Object”</p>
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Patient Data:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Is included in the “Administrative Data” “Group”, is linked to the “Administrative Data Data Object”</p> <p>Attributes: Case number, Master Patient ID, MPI Patient ID, DRG primary code, DRG secondary code, Last name, First name, Country, Street & Nr., City, Canton, Date of Birth, City of birth, Canton of birth, Country of birth, Nationality, Mobile number, Mother tongue, Occupation, AHV number, Entry type, Hospitalization date</p> <p>Other: Is always part of the mentioned “Group”, always needs to be present, can only be used once, has label “Patient Data”</p>
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Patient Health Insurance Data:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Is included in the “Administrative Data” “Group”, is linked to the “Administrative Data Data Object”</p> <p>Attributes: Health insurance provider, Health insurance number, Insurance model</p> <p>Other: Is always part of the mentioned “Group”, always needs to be present, can only be used once, has label “Patient Health Insurance Data”</p>
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Acute Physician Data:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Is included in the “Administrative Data” “Group”, is linked to the “Administrative Data Data Object”</p> <p>Attributes: Physician Role, First Name, Last Name, Tel. number, E-mail</p> <p>Other: Is always part of the mentioned “Group”, always needs to be present, can only be used once, has label “Acute Physician Data”</p>
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Rehabilitation Data:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Is included in the “Administrative Data” “Group”, is linked to the “Administrative Data Data Object”</p> <p>Attributes: Role in Rehab, First Name, Last Name, Tel. number, E-mail, Confirmed, Clinic name, Street, Street nr., ZIP code, City, Country, Rehab category, Rehab subcategory, Proposed discharging date hospital, Proposed discharging date rehabilitation clinic, Patient ID rehabilitation, Rehab objective, Responsible Care Person Role in rehab, First Name, Last Name, Tel. number, E-mail, First Name Physician, Last Name Physician, Tel. number Physician, E-mail Physician, Hospital approval with date, Reha approval with date, Patient in reha with date, Patient accepted with date, Case accepted with date</p> <p>Other: Is always part of the mentioned “Group”, always needs to be present, can only be used once, has label “Rehabilitation Data”</p>
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KoGu:

	<p>According to: (BOC Asset Management GmbH, 2016)</p>
	<p>Connections: Is included in the “Administrative Data” “Group”, is linked to the DSML4PTM “KoGu Data Object”, is linked to the “Administrative Data Data Object”</p>
	<p>Attributes: First name, Last name, Date of birth, Street & Nr., Zip code, City, Canton, Master Patient ID, MPI Patient ID, Clinic name, Street & Nr. ZIP code, City, Name family doctor, Address family doctor, Entry reason, Rehab category, Duration, Entry date, Rehab start date, Surgery date, Hospital, Diagnose ICD, Co-morbidity ICD, Therapy description, Body function, Body structure, Activity and Participation, Environmental factors, Treatment objective, Inability to work, Since when?, To how many percent?, Confirmation statements by the acute hospital, References, Concordat number, Name Physician, Tel. number Physician, Transferal Management Contact Hospital, Personnel, Tel. number transferal management, E-mail transferal management, Nutrition, Nutrition support, Personal Hygiene, Excretion / Toileting, (Un)dressing, Movement, Movement aid, Needed aid, Needed assistance, Weightbearing, From kg, To kg, Transfer, Understanding, Orientation, Social interaction, Aggressivity, Depression/Apathy, Restlessness, Stable mood, Adequate behavior and psyche, General remarks, KoGu ready with date, KoGu sent with date, KoGu rejected with date, KoGu accepted with date</p>
	<p>Other: Is always part of the mentioned “Group”, always needs to be present, can only be used once, has label “KoGu”, is available in five different layouts depending on KoGu template (Unspecified, Stroke, Orthopaedic, Paediatric, Psychiatric), KoGu Status</p>
	


Hospitalization Document:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Is included in the “Administrative Data” “Group”, is linked to the DSML4PTM “Hospitalization Document Data Object”, is linked to the “Administrative Data Data Object”</p> <p>Attributes:</p> <p><i>Hospitalization Part:</i> Insurance model, Health insurance provider, First name, Last name, Street & Nr., City, ZIP code, Date of birth, Tel. number, Hospitalization reason, Diagnosis / Functional deficit, Operation-/Accidentdate, Accompanying diseases, Treatment start, Treatment objective, Stay before rehabilitation start, Inability to work, Since when?, To how many percent?, First Name Physician, Last Name Physician, Tel. number Physician, Address Physician, City & Date</p> <p><i>Clinic Entry Information Part:</i> First name, Last name, Street & Nr., Canton, Country, Tel. number, Mobile number, Date of birth, Place of citizenship, Nationality, Sex, Marital status, Denomination, Mother tongue, Occupation, AHV number, Employer, Employer address, Employer tel. number, Name closest relative, Address closest relative, Degree of relationship, Tel. number closest relative, Mobile number closest relative, Insurance model, Hospital entry possible, Calendar week, Health insurance provider, Address health insurance provider, Tel. number health insurance provider, Health insurance number, Complementary insurance provider, Address complementary insurance provider, Tel. number complementary insurance provider, Complementary insurance number, Name family doctor, Address family doctor, Tel. number family doctor, Name hospitalization physician, Address hospitalization physician, Tel. number hospitalization physician, City & Date, Filled in by</p> <p><i>Care Status Part:</i> First name, Last name, Date of birth, Ability to move, Ability to eat/drink, Type of food, Diet description, Other description, Ability to urinate, Ability to excrete, Ability to take care of personal hygiene, Ability to (un)dress, Ability to acquire knowledge, Consciousness, Memory, Induction/deduction systems Type, Description, Since, VW, s/s, Decubitus, Decubitus wound documentation, Decubitus localization/grade, Skin changes/wounds, Skin changes/wounds documentation, Skin changes/wounds localization/type, Support services, Brought aids, Cytostatic drug, Tysabri®, HIV-medication, Biologica, Other special medication/infusions, Description other special medication/infusions, Dialysis, Other specialties, Description other specialties, City & Date, Filled in by</p> <p>Other: Is always part of the mentioned “Group”, always needs to be present, can only be used once, has label “Hospitalization Document”.</p>
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Medical Information:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Is included in the “Medical Data” “Group”, is linked to the “Medical Data Data Object”</p> <p>Attributes: Affliction, Surgery date, Discharging date, Diagnose ICD, Co-morbidity ICD, CHOP code</p> <p>Other: Is always part of the mentioned “Group”, always needs to be present, can only be used once, has label “Medical Information”</p>
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ICF Standard:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Is included in the “Medical Data” “Group”, is linked to the “Medical Data Data Object”</p> <p>Attributes: Body function ID & Category, Qualifier, Trend Body function, Status Body function, Body structure ID & Category, Qualifier, Trend Body structure, Status Body structure, Activity and Participation ID & Category, Qualifier, Trend Activity and Participation, Status Activity and Participation, Environmental factors ID & Category, Qualifier, Trend Environmental factors, Status Environmental factors, Information filled in with date</p> <p>Other: Always part of the mentioned “Group”, always needs to be present, can only be used once, has label “ICF Standard”; “Trend” and “Status” of each category are shown on the icon based on the input for the respective attributes</p>
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Medication List:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Is included in the “Medical Data” “Group”, is linked to the “Medical Data Data Object”</p> <p>Attributes: Name of medicine, Dose, Time, Day of the week, Repeat, Via, Medication list complete with date, Medication list sent with date</p> <p>Other: Is always part of the mentioned “Group”, always needs to be present, can only be used once, has label “Medication List”</p>
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Assistance Data:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Is included in the “Care Status” “Group”, is linked to the “Care Status Data Object”</p> <p>Attributes: Ability to move, Ability to eat/drink, Type of food, Diet description, Other description, Ability to urinate, Ability to excrete, Ability to take care of personal hygiene, Ability to (un)dress, Ability to acquire knowledge, Consciousness, Memory, Induction/deduction systems Type, Description, Since, VW, s/s, Decubitus, Decubitus wound documentation, Decubitus localization/grade, Skin changes/wounds, Skin changes/wounds documentation, Skin changes/wounds localization/type, Support services, Brought aids</p> <p>Other: Is always part of the mentioned “Group”, always needs to be present, can only be used once, has label “Assistance Data”</p>
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Special Medication Data:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Is included in the “Care Status” “Group”, is linked to the “Care Status Data Object”</p> <p>Attributes: Cytostatic drug, Tysabri®, HIV-medication, Biologica, Other special medication/infusions, Description other special medication/infusions, Dialysis, Other specialities, Description other specialities</p> <p>Other: Is always part of the mentioned “Group”, always needs to be present, can only be used once, has label “Special Medication Data”</p>
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Process Data:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Is included in the “Process Progress” “Group”, is linked to the “Process Progress Data Object”</p> <p>Attributes: Data released with date, First assessment done with date, Reha conference done with date, Transfer date with date</p> <p>Other: Is always part of the mentioned “Group”, always needs to be present, can only be used once, has label “Process Data”</p>
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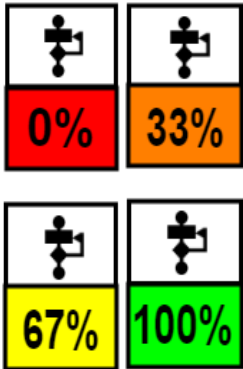
Belongs to:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Can connect any “Document”/”Group”/”Status” combination, also all newly created “Document” , “Group” and “Status” elements</p>
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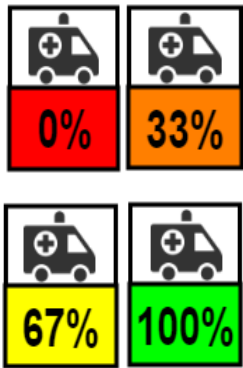
Has Subdocument:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Can connect “Documents”, also all newly created “Documents”</p>
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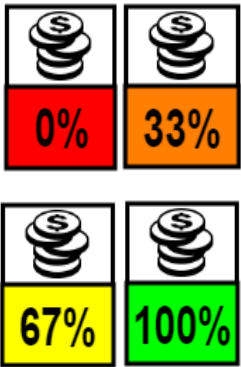
Process Status:

	<p>Connections: Is included in the “Process Progress” “Group”, “belongs to” “Document/Data” “Process Data”, is linked to “Status”</p> <p>Attributes: Data released, First assessment done, Rehab conference done, Transfer date</p> <p>Other: Changes progress and color based on data collection of attributes, 4 possibilities from 0 (0%) to 3 (100%) filled in (Rehab conference does not count to progress), has label “Process Status”, is always part of the mentioned “Group”, always needs to be present, can only be used once</p>
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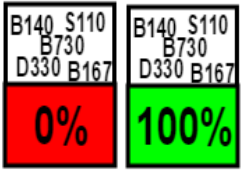
Physical Transfer Status:

	<p>Connections: Is included in the “Administrative Data” “Group”, “belongs to” “Document/Data” “Rehabilitation Data”, is linked to “Status”</p> <p>Attributes: Hospital approval, Rehab approval, Patient in rehab</p> <p>Other: Changes progress and color based on data collection of attributes, 4 possibilities from 0 (0%) to 3 (100%) filled in, has label “Physical Transfer Status”, is always part of the mentioned “Group”, always needs to be present, can only be used once</p>
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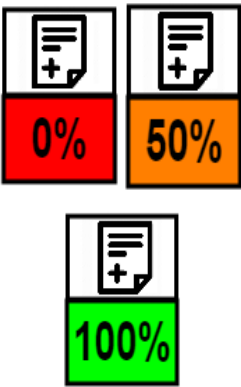
KoGu Status:

	<p>Connections: Is included in the “Administrative Data” “Group”, “belongs to” “Document/Data” “KoGu”, is linked to “Status”</p> <p>Attributes: KoGu ready, KoGu sent, KoGu accepted, KoGu rejected, KoGu Status</p> <p>Other: Changes progress and color based on data collection of attributes, 4 possibilities from 0 (0%) to 3 (100%) filled in (KoGu rejected does not count to progress), has label “KoGu Status”, is always part of the mentioned “Group”, always needs to be present, can only be used once</p>
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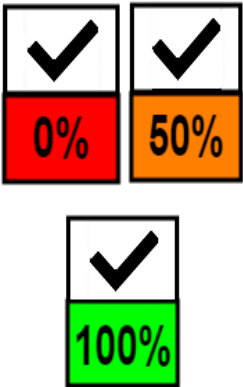
ICF Qualifiers Status:

	<p>Connections: Is included in the “Medical Data” “Group”, “belongs to” “Document/Data” “ICF Standard”, is linked to “Status”</p> <p>Attributes: Information filled in</p> <p>Other: Changes progress and color based on data collection of attributes, 2 possibilities from 0 (0%) to 1 (100%) filled in, has label “ICF Qualifiers Status”, is always part of the mentioned “Group”, always needs to be present, can only be used once</p>
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Medication List Status:


	<p>Connections: Is included in the “Medical Data” “Group”, “belongs to” “Document/Data” “Medication List”, is linked to “Status”</p> <p>Attributes: Medication list complete, Medication list sent</p> <p>Other: Changes progress and color based on data collection of attributes, 3 possibilities from 0 (0%) to 2 (100%) filled in, has label “Medication List Status”, is always part of the mentioned “Group”, always needs to be present, can only be used once</p>
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Acceptance Status:


	<p>Connections: Is included in the “Administrative Data” “Group”, “belongs to” “Document/Data” “Rehabilitation Data”, is linked to “Status”</p> <p>Attributes: Case accepted, Patient accepted</p> <p>Other: Changes progress and color based on data collection of attributes, 3 possibilities from 0 (0%) to 2 (100%) filled in, has label “Acceptance Status”, is always part of the mentioned “Group”, always needs to be present, can only be used once</p>
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1.5 Organization Model


Organizational Unit:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Can “belong to” and “be subordinated” to another “Organizational Unit”. A “Performer” or a “Role can “belong to” an “Organizational Role”. A “Performer” can be “manager of” an “Organizational Unit”. Can be linked to a “Pool”. This is also true for any newly created “Organizational Unit”.</p>
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Organizational Unit Acute Hospital:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Organizational Unit”, is linked to the “Acute Hospital” pool</p> <p>Other: Has label “Organizational Unit Acute Hopsital”</p>
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Organizational Unit Rehabilitation Clinic:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Organizational Unit” ”, is linked to the “Rehabilitation Clinic” pool</p> <p>Other: Has label “Organizational Unit Rehabilitation Clinic”</p>
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Organizational Unit Care Unit:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Organizational Unit”</p> <p>Other: Has label “Organizational Unit Care Unit”</p>
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Organizational Unit Non-intensive Care Unit:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Organizational Unit”</p> <p>Other: Has label “Organizational Unit Non-intensive Care Unit”</p>
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Organizational Unit Intensive Care Unit:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Organizational Unit”</p> <p>Other: Has label “Organizational Unit Intensive Care Unit”</p>
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Organizational Unit Emergency Room:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Organizational Unit”</p> <p>Other: Has label “Organizational Unit Emergency Room”</p>
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Organizational Unit Site of Care:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Organizational Unit”</p> <p>Other: Has label “Organizational Unit Site of Care”</p>
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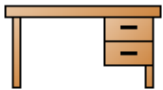
Organizational Unit Health Insurance:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Organizational Unit”, is linked to the “Health Insurance” pool</p> <p>Other: Has label “Organizational Unit Health Insurance”</p>
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Team:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Can aggregate “Roles”, “Performers” and/or “Organizational Units”</p>
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Performer:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Can belong to an “Organizational Role”. Can be manager of an “Organizational Unit”. “Has role” to a “Role”. This is also true for any newly created “Organizational Unit” or “Role”. A “Role” can belong to a “Performer”</p>
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Role:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Can belong to an “Organizational Unit” or a “Performer”. A “Performer” can have a “Role”. Can be linked to a “Lane”. This is also true for any newly created “Organizational Unit” or “Role”</p>
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Role Administrative Staff:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Role”</p> <p>Other: Has label “Role Administrative Staff”</p>
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Role Nurse:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Role”, is linked to the “Nurse” lane</p> <p>Other: Has label “Role Nurse”</p>
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Role Acute Physician:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Role”, is linked to the “Acute Physician” lane</p> <p>Other: Has label “Role Acute Physician”</p>
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Role Rehabilitation Physician:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Role”, is linked to the “Rehabilitation Physician” lane</p> <p>Other: Has label “Role Rehabilitation Physician”</p>
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Role Patient Disposition:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Role”, is linked to the “Patient Disposition” lane</p> <p>Other: Has label “Role Patient Disposition”</p>
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Role Patient:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Role”</p> <p>Other: Has label “Role Patient”</p>
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Role Transferal Manager:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Same as “Role”, is linked to the “Patient Disposition” lane</p> <p>Other: Has label “Role Transferal Manager”</p>
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Is subordinated:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Can connect “Organizational Units”</p>
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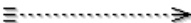
Belongs to:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Can connect any “Role”, “Performer”, “Organizational Unit”</p>
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Is manager:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Can connect a “Performer” to any “Organizational Unit”</p>
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Has role:

	<p>According to: (BOC Asset Management GmbH, 2016)</p> <p>Connections: Can connect a “Performer” to any “Role”</p>
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