

# Set Up the Order Management Execution App - Solution Guide

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## **Set Up Your Environment**

#### 1) Download Jupyter Notebook

Please find it here. (Note: Use right-click to save link as file)

### 2) Create a new Machine Learning App

To do so - 1) Login to your EMS-Team, 2) enter 'Machine Learning' and 3) Create a new machine learning app.

Celonis 🖫 Business Views 🕒 Studio 🖞 Process Analytics 🖉 Action Engine 🄁 Event Collection 🖗 Transformation Center 🕄 Machine Learning …

celonis 🖽 Business Views	C Studio D Process Analytics	$\mathcal{P}$ Action Engin	ne 🔋 Event Collection 💩 Transfor	nation Center 🔃 Machine Learning		् 🛱 EMS Store 📑
Apps Executions	Workspaces	► New	Apps		Name A-Z 🗸	Q New App
Scheduling	Search	٩	M Tarting :			
3. Inggered	All workspaces		LT rooming .			
	Unassigned Apps	:				

### Create a new machine learning app

Name		
OrdM Technical Enablement		
Application Type		
Jupyter Workbench	~	
An Application Key with the name <b>OrdM Technical Enablement (Workbench)</b> will be created. Please make sure to assign the relevant Permissions to the Key so you can access Celonis Data inside the Workbench. A guide on which permissions to set can be found <u>here</u> .		
I have read and understood the usage guidelines.		
Cancel	ate	



### 3) Upload the Jupyter Notebook and run

To upload - 1a) simply use drag & drop or 1b) use the upload button. Next, follow the steps outlined in the script.



**Important**: Keep the browser-tab open until you see the last message as outlined in 4)



### 4)Let the script run

That's it. After less than 10 minutes - you should have a full data model available which is the prerequisite for this course.

When scrolling down in the script - the response should look something like

[12]:	#Reloading DM new_dm.reload()
	2022-01-20 14:31:47 - pycelonis: Complete Data Model reload started
	2022-01-20 14:31:59 - pycelonis: Complete Data Model reload running
	2022-01-20 14:32:11 - pycelonis: Complete Data Model reload running
	2022-01-20 14:32:35 - pycelonis: Complete Data Model reload running
	2022-01-20 14:32:46 - pycelonis: Complete Data Model reload running
	2022-01-20 14:32:58 - pycelonis: Complete Data Model reload running
	2022-01-20 14:33:10 - pycelonis: Complete Data Model reload running
	2022-01-20 14:33:22 - pycelonis: Complete Data Model reload running
	2022-01-20 14:33:35 - pycelonis: Complete Data Model reload running
	2022-01-20 14:33:46 - pycelonis: Complete Data Model reload running
	2022-01-20 14:33:58 - pycelonis: Complete Data Model reload running
	2022-01-20 14:34:10 - pycelonis: Complete Data Model reload running
	2022-01-20 14:34:21 - pycelonis: Complete Data Model reload running
	2022-01-20 14:34:33 - pycelonis: Complete Data Model reload running
[12]:	<pre>{'dataLoadId': '&amp;e5dc958-10c3-492d-8c90-6698cf2e8621', 'dataModeIId': '4edb64bb-d20f-4260-9c9e-1a947ae592d0', 'startDate': 1642689107834, 'endDate': 1642689282892, 'loadStatus': 'SUCCESS', 'message': '',</pre>
	'loadType': 'COMPLETE',
	'dataPoolVersion': None}

If you get stuck or need support - the recording from the past section shows how all necessary steps are performed.



## Install App from EMS Store

Enter the EMS Store	EMS Store
Search for Order Management Execution App	Welcome to the worlds first Execution Management System
Install in any studio space	<ul> <li>Apps (1 results found )</li> <li>Order Management</li> <li>Order Management Execution App</li> <li>Execution App</li> <li>By Celonis</li> </ul>



## Set Up the App

### Follow Getting Started Guide

Pages /... / Order Management Execution App

☆ Save <u>f</u>or later ⊚ <u>W</u>atch …

#### Getting Started with the Order Management Execution App

Prerequisites

#### High-level process

- 1. Preparing your Data Model
- 2. Adjusting the Knowledge Model to fit your Data Model
- 3. Validating views and resolving errors
- 4. Validating all actions are working
- 5. Customization and support

#### Technical Documentation





## Assign the Data Model Variable

Assign the Data Model Variable to your Data	Order Management Execution App (Draft)       Image: Comparison of the second seco	sets within the package.	Publish Package     2)       Q     Create Variable
Package Settings.	sap-ecc-order-to-cash- data-model	No Data Model Assigned	Assign Data Model
Select your Data Model 'SAP ECC -	Assign Data Model Choose Data Model	Şearch	X ۹
Order to Cash'	Data Model	Parent Data Pool	Load Status
	AP - Action Engine - Set Up Intelligent Actions	Demo Processes	0
	AP - Transformation Center - Set Up Objectives and KPIs	Demo Processes	9
	AP - Celonis Studio - App Creator Training	Demo Processes	0
	Purchase-To-Pay_Training_EN	Demo Processes	<b>Ø</b>
	CelonisCertificationExam_AnalysisBuilding	Demo Processes	<b>S</b>
	Order-to-Cash_Training_EN	Demo Processes	<b>O</b>
	SAP ECC - Order to Cash Data Model	[Training-2022/01/20] OrdM Execution App - Technica Enablement	· Ø



## Set Knowledge Model-Key

Enter the	<sup>™</sup> <sup></sup>
	Search Q
Knowledge	Decembra         20         Cruss Nonasis           Ø         Maree         Ji         Value         Searcee if
Model - Section	Pitter         24         Current XP1         current pittane         Tel           Current XP1 Name         current sphame         Tel         Tel </th
Variables	Actions 6     Filer condition Cytem Dider Items (IPULLSTIVEAR/VSU/GESTAINTOTIN (CTIANDV. 7
Variables	Values of the second second second second second of the second second second second of the second seco
	Control Delay 1     WARKELATINIT_CONVECTORRENELIZELL Charge Continues Delaysy Date     Termine Control Delaysy Date     Termine
	WARKLICTITIT_CENTLANCC         Center Invite         "E           Image: Contem Depicts         WARKLICTITIT_CENTLANCE         Encort Goods Inue         "E
	nananti Dani Dani Dani Anana Inana Inan
	WARABLE/DIT/ CIMAN         Yen Mail         Yen           WARABLE/DIT/ CIMAN         Yen Mail         Yen Mail
	VARALL_NOV/LIDOL_VICUIIV under management esecution app. Incomision model 11 Doc 10 wat
Copy your Knowledge Model Key	Image: Skills     Image: Ski
	Cancel



Paste your Knowledge Model Key to	VARIABLE_KNOWLEDGE_MODEL_KEY     Seg Knowledge Model     X     Warning! Please be aware that any change could impact other usages of this object
, the Variable	Display Name Id
VARIABLE_KNO	VARIABLE_KNOWLEDGE_MODEL_KEY
WLEDGE_MODEL _KEY	Description
	Value order-management-execution-app-store-1.knowledge-mode
	Scope 🔞

### Publish your app





### **Confirm Task Creation**

Access the Skill	Delivery Overdue (>5 Days)				
Delivery Overdue (>5 Days)	1) 5	Smart Sensor ((())	(((())))) (()) () Note: 1	Celonis Smart Sensor Settings This is the latest Draft, to edit the	e Skill click on Edit!
Enter the Logs	2)	Create Task	Knowledge knowledg Select the Kn Record	Model e-model owledge Model of the Record you wou	ild like to create a sensor for.
	3) :	Send Email	Select the Re Filters	cord you would like to create a sensor	tor. "]
	5)	Update Task(s)	Sensor Act Active If set to Activ	inat should be applied on the Record. ive State e, the Sensor will be executed. Default	: Active.
	6)	Execution Output			
Enter the Sensor Logs and see if skill was triggered	Skill Logs       Execution Logs       Execution reason       Skill Updated	ted 1 Duration Error m	nessage	New signa ♠ 50	X Statuses ~ als Resolved signals Total signals ~ 0 50
Within the <b>Team</b>	Team Lead View 😒 Live View   Reloaded : 5 days ago				Edit Mode
check the Tile	Open Orders 663	Delayed Orders 533	Blocked Orders 9	Incomplete Orders 117	Orders With Tasks 580
<b>Tasks</b> and see if you get no	Tasks by Creation Date ↑ # Tasks 200 <sup>-</sup>	Tasks + # Tasi 200 - 150 -	by Status ks	Team Overview         Image: Creator         Image: Image: Creator         Ord           IDES_RFC         SANDRASCHKO         SANDRASCHKO <td< th=""><th>lers With Tasks <b>19 Open Tasks</b> 64 42</th></td<>	lers With Tasks <b>19 Open Tasks</b> 64 42
errors.	100 - 50 - 0 - 2021-12-05 2021-12-	06 2021-12-07 0	CPEN	IDADMIN CU100 APORZYCKI First < 1	16 12 10 2 3 4 > Last
	Assignee Name Task Nam	ne Task Status T	Trading Partner Sales Organisation	Sales Group Sales Office	Search
	0000018597 OPEN	T or Delivery Overdue th (>5 Days) bi sh th	nere is currentity an der overdue for more an 5 days, This order ses not include any -1277 ocks and has not been ipped yet. Please take e appropiate action.	2021-12-06 12:32	ALPHA Center



## Apply Customizations - Basic

## Customizing Filters

Access	ି 🎇 Knowledge Model 🕺 🥝 SAP ECC - Order To Ca 🔸 : 🖉
Knowledge Model	Search Q 3
Section Variables	Records       20       Current KPI       Value       Source It         Image:
Access VARIABLE_OR DER_TYPES	Variable Order Types   Warning! Please be aware that any change could impact other usages of this object   Display Name id   Variable Order Types VARIABLE_ORDER_TYPES   Description   Value   (VBAK.VBTYP NOT IN (B'))
Change Variable to exclude Sales Org New Zealand 8590	Value ( VBAK.VBTYP NOT IN ('B') AND VBAK.VKORG NOT IN ('8590'))

Understand GLOBAL FILTER	After Applying change to Variable - all orders are entirely excluded from the app
Variable_Ope n_orders &	Sales Organisation Sales Group Sales
Order_types $\rightarrow$ be aware of	Sales Organisation (0 selected) Select all
what it means	



## Customizing Views

Access Sales Orders Table	<ul> <li>Profile Views ⊕ :</li> <li>Sales Order Details</li> <li>Sales Orders Table :</li> <li>Open Orders View</li> </ul>
Énter Edit Mode for Tab Sales Orders	
Add Delivery Block to the Table	GS       Choose Data         Delivery Block       ★         Image: Norder       1 Total         Image: Norder       1 Total         Image: Norder       1 Total         Image: Norder       Image: Norder         Image: Norder       1 Total         Image: Norder       Image: Norder         Image: Norder       Image: Norder



Confirm Column was successfully added	Delivery Block 01-Credit limits, 03-B     I       Creator     Order Number     Customer       ✓     ✓       ✓     ✓       ✓     ✓       ✓     ✓       ✓     ✓       ✓     ✓       ✓     ✓       ✓     ✓       ✓     ✓       ✓     ✓       ✓     ✓       ✓     ✓       ✓     ✓       ✓     ✓	Si Search
	Order Number 41 eight 41 Weight Unit 41 Shipping Conditions 41 Order Status	Delivery Block ↓↑
	0000019241 29,000.00 KG 02	03-Bottleneck material
	0000018556 0.25 KG 10	01-Credit limits
	0000018557 0.25 KG 10	03-Bottleneck material
	0000019052 0.25 KG 01	03-Bottleneck material
<b>Optional:</b> Example via Code	Sales Orders Table         1       base:         2       key: order-management-execution-app.open-sales-orders         3       appStoreBased: false         4       metadata:         5       key: open-sales-orders         6       name: Sales Orders Table         7       components:         8       - id: sales-orders-table         9       type: table         10       knowledgeModelKey: knowledge-model         11       settings:         12       data:         13       columns:         14       field: ORDER.DELIVERY_BLOCK         15       id: 40c8203a-b614-43e7-9c34-8ce7f41f026c         16       order: 3300	



### Customizing Tasks

Access	程 Knowledge Model			SAP ECC - Order To Ca ▼ :
Knowledge		Search		0
Model		Search		
Section	Records 20			Create Variable
Variables	KPIs 65	Name ≟∔	Value	Source 11
Variables	Filters 24	Current KPI Name	currentKpiName	B
	Actions 6	Filter condition Open Order Items	((PU_LAST(VBAP,VBUP.GBSTA) NO	₿ e
	Actions	Variable Open Orders	((PU_LAST(VBAK,VBUK.GBSTK) not	. <sup>6</sup> 6
	Anomalies 10	Variable Order Types	( VBAK.VBTYP NOT IN ('B') AND VB	● <sup>1</sup> <sup>2</sup> <sup>2</sup>
	🞦 Variables 17	VARIABLE_ACTIVITY_CHANGE_C	Change Confirmed Delivery Date	
	Event Logs 1	VARIABLE_ACTIVITY_CREATE_DE	Create Delivery	S <sup>2</sup>
	Transitions 0	VARIABLE_ACTIVITY_CREATE_INV	Create Invoice	S <sup>2</sup>
	O Custom Objects 8	VARIABLE_ACTIVITY_RECORD_G	Record Goods Issue	
		VARIABLE_DATE_DELIVERY_DATE	PU_MIN(VBAP, VBEP.EDATU ,"VBEP"	. <sup>e</sup> g
		VARIABLE_DATE_FORMAT	%Y-%m-%d	~
		VARIABLE_DATETIME_FORMAT	%Y-%m-%d %H:%M	~
		VARIABLE_KNOWLEDGE_MODEL	order-management-execution-app	
			VBAP.NETWR_CONVERTED	
		VARIABLE_TASK_ASSIGNMENT	CASE WHEN VBAK.VKURG = 'UUT T	- Ца Сліск то валт
Access	VARIABLE_1	TASK_ASSIGNMENT		쀁 Knowledge Model X
VARIABLE_T				
ASK_ASSIG	. Warning! Plea	ase be aware that any change	e could impact other usages	s of this object
S. Chango to	Display Name		ld	
& Chunge to		ASSIGNMENT	VARIARI E TASK AS	SSIGNMENT
your	VARIABLE_RADIC)		VANABLE_NON_A	
Email-Addres	Description			
S				
				1
	Value			
	'f.haamann@celor	nis.com'		



#### How to reset created tasks

See alternatively the <u>Task Augmentation FAQ</u> section: *How can I reset my Tasks after making adjustments to their Skill configuration?* 

Enter the Skill							
and click the Smart Sensor	$\leftarrow$ Pending Delivery Block - Schedule Line						
Module							
	1) Smart Sensor ((O))						
Add Filters							
until you see	Celonis Smart Sensor Settings						
Preview: Your							
filter							
selection	Knowledge Model *						
signals.	Knowledge Model						
3	Record * 📵						
	Order ~						
	Filters * Add Filter 💌						
	III Delivery Block Schedule Line 🚺 🖉 🗇						
	Preview: Your filter selection results in 1 signals.						

T		
	Filters *	Add Filter <
	💠 Delivery Block Schedule Line 🚺	Ø
	iii Due Today Delivery - Position (	Image: Control of the second secon
	Incomplete Orders (1)	1
	III Missing Weight 🚺	
	Preview: Your filter selection results in 0 s	signals.
Save & Publish	Skill Logs Execution Logs Sensor Logs	X
Check the Skill logs to	Execution reason Status Started 탁 Duration Error message	Statuses V New signals Resolved signals Total signals
see the existing	Knowledge Model changed     Value     12/06/21, 13:53     Less than a second       Skill Updated     12/06/21, 13:52     Less than a second	
signals were resolved	Skill Updated V12/06/21, 13:32 Less than a second	▲1 ●0 1
Re-Activate your Skill with	Skill Logs Execution Logs Sensor Logs	×
, the correct filters (i.e.	Execution reason Status Started বৃ↓ Duration Error message	Statuses V New signals Resolved signals Total signals
remove added ones) to re-create tasks with correct assignee (after	Skill Updated 📀 12/06/21, 13:54 Less than a second	▲ 🕽 🔷 0 1
(atter changing the variable value)		



You can see	Assignee Name	Task Name		k Status	Trading Partner	Sales Organisat	ion Sale	s Group	Sales Office	Search	9	1
your change	Order Number 41	Task Status 41	Task Name 41	Task Description 41		Days Left 🕴	Change Date 7	Assignee Email 11	Customer Name 41	Order Value 11	L Currency 41	-
, ,	0000019081	OPEN	Pending Delivery Block - Schedule Line			-156	2021-12-06 12:54	thaamann@celonis.col.#	Becker Berlin	50.00	EUR	
wus	0000019081	RESOLVED	Pending Delivery Block - Schedule Line			-156	2021-12-06 12:52		Becker Berlin	50.00	EUR	E
successful												
when looking												
at the Orders												
with Tasks												
View												

## **Apply Customizations - Intermediate**

Access the Attribute	Oropray Order	der Name		ORDER		唱 Knowled	ge Model X
PRIORITIZATI	Descrip	otion					
<b>O</b> for the	:						1
Record							_
ORDER	PQL Fo	rmula		ľ	Identifier Name: Order Number "VBAK"."VBELN"	Id: ORDER_NI	P Edit
	2		Prioritization		× B		
		<ul> <li>Attributes</li> </ul>	1				+
		Name	ld	PQL Forn	nula	Source	
		Prioritization     New Attributes	PRIORITIZATION	CASE WH	HEN KPI("FORMULA_L	and	Click to edit

Customizing the Order Prioritization

Editor		
1	CASE	
2	WHEN KPT("FORMULA LT 5 DAYS OVERDUE MISSING DELIVERY")='1'	THEN '999'
3	WHEN KPI("FORMULA DUE TODAY MISSING DELIVERY")='1'	THEN '999'
4	WHEN KPI("FORMULA GE 5 DAYS OVERDUE MISSING DELIVERY")='1'	THEN '5'
5	WHEN KPI("FORMULA CREDIT BLOCK")='1'	THEN '4'
6	WHEN KPI("FORMULA_BILLING_BLOCK")='1'	THEN '4'
7	WHEN KPI("FORMULA_DELIVERY_BLOCK")='1'	THEN '4'
8	WHEN KPI("FORMULA_DELIVERY_BLOCK_SCHEDULE_LINE")='1'	THEN '4'
9	WHEN KPI("FORMULA_MISSING_WEIGHT")='1'	THEN '3'
10	WHEN KPI("FORMULA_MISSING_PRICE")='1'	THEN '3'
11	<pre>vHEN·KPI("FORMULA_ORDER_CHANGE_DATE")='1'·····</pre>	· THEN · '3'
12	ELSE NULL	
13	END	
Editor		
1	CASE	
2	WHEN KPI("FORMULA ORDER CHANGE DATE")='1'	··· THEN · '999'
3	WHEN KPI("FORMULA LT 5 DAYS OVERDUE MISSING DELIVERY")='1'	THEN '5'
4	WHEN KPI("FORMULA_DUE_TODAY_MISSING_DELIVERY")='1'	THEN '5'
5	WHEN KPI("FORMULA_GE_5_DAYS_OVERDUE_MISSING_DELIVERY")='1'	THEN '5'
6	WHEN KPI("FORMULA_CREDIT_BLOCK")='1'	THEN '4'
7	WHEN KPI("FORMULA_BILLING_BLOCK")='1'	THEN '4'
8	WHEN KPI("FORMULA_DELIVERY_BLOCK")='1'	THEN '4'
9	WHEN KPI("FORMULA_DELIVERY_BLOCK_SCHEDULE_LINE")='1'	THEN '4'
10	WHEN KPI("FORMULA_MISSING_WEIGHT")='1'	THEN '3'
11	WHEN KPI("FORMULA MISSING PRICE")='1'	THEN '3'
12	ELSE NULL	
12 13	ELSE NULL END	
	Editor 1 2 3 4 5 6 7 8 9 10 11 12 13 Editor 1 2 3 4 5 6 7 8 9 10 11 12 13	Editor  1 CASE 2 WHEN KPI("FORMULA_LT_5_DAYS_OVERDUE_MISSING_DELIVERY")='1' 3 WHEN KPI("FORMULA_DUE_TODAY_MISSING_DELIVERY")='1' 4 WHEN KPI("FORMULA_GE_5_DAYS_OVERDUE_MISSING_DELIVERY")='1' 5 WHEN KPI("FORMULA_GE_S_DAYS_OVERDUE_MISSING_DELIVERY")='1' 6 WHEN KPI("FORMULA_BILLING_BLOCK")='1' 7 WHEN KPI("FORMULA_DELIVERY_BLOCK")='1' 8 WHEN KPI("FORMULA_DELIVERY_BLOCK_SCHEDULE_LINE")='1' 9 WHEN KPI("FORMULA_MISSING_WEIGHT")='1' 10 WHEN KPI("FORMULA_MISSING_PRICE")='1' 11 WHEN KPI("FORMULA_ORDER_CHANGE_DATE")='1' 12 ELSE NULL 13 END  Editor  Editor  CASE 2 WHEN KPI("FORMULA_ORDER_CHANGE_DATE")='1' 4 WHEN KPI("FORMULA_ORDER_CHANGE_DATE")='1' 5 WHEN KPI("FORMULA_ORDER_CHANGE_DATE")='1' 6 WHEN KPI("FORMULA_LT_5_DAYS_OVERDUE_MISSING_DELIVERY")='1' 6 WHEN KPI("FORMULA_GE_5_DAYS_OVERDUE_MISSING_DELIVERY")='1' 6 WHEN KPI("FORMULA_CREDIT_BLOCK")='1' 7 WHEN KPI("FORMULA_GE_5_DAYS_OVERDUE_MISSING_DELIVERY")='1' 6 WHEN KPI("FORMULA_BILLING_BLOCK")='1' 9 WHEN KPI("FORMULA_BILLING_BLOCK")='1' 9 WHEN KPI("FORMULA_DELIVERY_BLOCK_SCHEDULE_LINE")='1' 10 WHEN KPI("FORMULA_DELIVERY_BLOCK")='1' 10 WHEN KPI("FORMULA_DELIVERY_BLOCK")='1' 10 WHEN KPI("FORMULA_DELIVERY_BLOCK_SCHEDULE_LINE")='1' 10 WHEN KPI("FORMULA_DELIVERY_BLOCK")='1' 10 WHEN KPI("FORMULA_DELIVERY_BLOCK_SCHEDULE_LINE")='1' 10 WHEN KPI("FORMULA_MISSING_WEIGHT")='1' 11 WHEN KPI("FORMULA_MISSING_WEIGHT")='1' 12 WHEN KPI("FORMULA_MISSING_WEIGHT")='1' 13 WHEN KPI("FORMULA_REDIT_BLOCK")='1' 14 WHEN KPI("FORMULA_MISSING_WEIGHT")='1' 15 WHEN KPI("FORMULA_MISSING_WEIGHT")='1' 16 WHEN KPI("FORMULA_MISSING_WEIGHT")='1' 17 WHEN KPI("FORMULA_MISSING_WEIGHT")='1'

## Customizing an Execution Gap or KPI - Missing Price

Change	Formula Missing Price Position	्राष्ट्र Knowledge Model X
existing	Warning! Please be aware that any change could impact other	r usages of this object
	Display Name Id	
FORMULA_	Formula Missing Price Position FORMULA_	MISSING_PRICE_ITEM
MISSING_PRICE_I	Description	
TEM		
	PQL Formula	
	CASE WHEN (VBAP.NETPR = 0 OR VBAP.NETPR IS NULL OR VBAP. THEN '1'	NETWR = 0 OR VBAP.NETWR IS





Add within	
Condition	Editor
VBAK.AUART='TA'	1 CASE 2 WHEN (VBAP.NETPR = 0 OR VBAP.NETPR IS NULL 3 OR VBAP.NETWR = 0 OR VBAP.NETWR IS NULL) 4 THEN '1' 5 ELSE '0' 6 END
	Editor
	1 CASE 2 WHEN 3 VBAK.AUART='TA' AND 4 (VBAP.NETPR = 0 OR VBAP.NETPR IS NULL 5 OR VBAP.NETWR = 0 OR VBAP.NETWR IS NULL) 6 THEN '1' 7 ELSE '0' 8 END
See Impact in	Before
Execution Gap Table	Execution Gaps 🕕
	Issue Open Orders
	Overdue delivery (> 5 days) 524
	Missing Price 5+ 113
	Missing Weight 47
	After

$\frown$

Execution Gaps 🕕			
Issue	Oţ	oen Orders	
Overdue delivery (> 5 days)		524	
Missing Price	57	62	
Missing Weight		47	



## Customizing an Execution Gap or KPI - Advanced

Change VARIABLE_D ATE_DELIVE RY_DATE	VARIABLE_DATE_DELIVERY_DATE  Knowledge Ma  Warning! Please be aware that any change could impact other usages of this object	ndel X
	Display Name Id VARIABLE_DATE_DELIVERY_DATE Description	
	Value PU_MIN(VBAP, VBEP.EDATU ,"VBEP"."BMENG">0 AND VBAP.ABGRU IS NULL)	
Exchange VBEP.EDATU with VBEP.TDDAT	Value PU_MIN(VBAP, VBEP.TDDAT,"VBEP"."BMENG">0 AND VBAP.ABGRU IS NUL	L)



## **Apply Customizations - Expert**

Enter the KM and create KPI:	Check       Check <td< th=""></td<>
ISSING_SHIP _TO	Image: Records     20       Image: Operate KPI       Image: Operate KPI       Image: Operate KPI       Image: Operate KPI
	Display Name Id   FORMULA_MISSING_SHIP_TO FORMULA_MISSING_SHIP_TO   Description     PQL Formula   CASE   WHEN   PU_COUNT(VBAK, VBPA, KUNNR,
	CASE WHEN PU_COUNT(VBAK,VBPA.KUNNR, VBPA.PARVW='WE' AND \${VARIABLE_OPEN_ORDER_ITEM} ) = 0 THEN '1'Missing Ship To ELSE '0' END
Create Flag FLAG_MISSI NG_SHIP_T O	Flags 10 Go To YAML Editor ()   Name Id POL Formula Source   Order with a pending billing b FLAG_BILLING_BLOCK KPI(*FORMULA_BILLING_BLOC   Order with a pending delivery FLAG_DELIVERY_BLOCK KPI(*FORMULA_DELIVERY_BL   Order with a pending delivery FLAG_DELIVERY_BLOCK KPI(*FORMULA_DELIVERY_BL   Order with a pending delivery FLAG_DELIVERY_BLOCK_SCH KPI(*FORMULA_DELIVERY_BL

### Create a new Execution Gap for Missing Ship-To Party





Check Out Team-Lead View to see new Execution Gap	Execution Gaps 🕕	
	Issue	Open Orders
	Pending Billing Block	2
	Missing Ship-To Party	5+ 1
	Pending Delivery Block for Schedule L	Line 1
	Team Lead View   Live View   Reloaded: 5 days ago     Missing Ship-To Perry <ul> <li> <li> <ul> <l< td=""><td>Edit Mode</td></l<></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul>	Edit Mode



## Create task for each order with Missing Ship-To Party

Enter KM and	ිද් Knowledge Model	Z₂ ⊘ SAP ECC - Order To Ca ▼ : 〈/>
Create Filter	Search	۹ 🚯
FILTER_MISSI NG_SHIP_TO	Records 20	Create Filter
	KPIs     G6     Billing Block	rg
	Filters 24 Blocked Orders	e e e e e e e e e e e e e e e e e e e
	Create Filter	×
	Display Name	Id
	FILTER_MISSING_SHIP_TO	FILTER_MISSING_SHIP_TO
	Description	
		<b>©</b>
	Filter Statement FILTER KPI("FORMULA_MISSING_SHI	P_T0")='1';  Example: FILTER "Eventlog""Activities" NOT LIKE " DELETE"
Create Skill Missina	- Skills	
Ship-To	Missing Information	mation Ji View
	User Actions	Analysis
	Order Blocks	in skill
	<ul> <li>Delivery Date</li> </ul>	e Skii
		<del>~~</del>

Skill			
Configuration		Save	
Configuration	AT A	Celonis Smart Sensor Settings	
	1) Smart Sensor	Knowledge Model *	
		Knowledge Model V	
		Record * 1	
	Add Next Step +	Order ~	
	L	Filters * Add Filter 💌	
		III FILTER_MISSING_SHIP_TO 🚺 🖉 💼	
		Preview: Your filter selection results in 1 signals.	
		Show Signal Preview	
		Active	
	Celonis Create Task Ser Task Name * (1) Missing Ship-To Assignee * (1)	ttings ∽	
Click: Switch to Input	Switch to input		



And Select Task Assignee	2) Output task X All Suggested Ac Ta (1) Task Assignee C.g., The delivery is due in (placeholder) days to deliver on time. Task Assignee Fallback Task Assignee ABC	. Prioritize the order now
See created Task	Sales Order Details Send Email   Missing Ship-To Party     Tasks (1 of 1) Open (1)   In Progress (0) Closed (0)   Resolved (0) Sn   Missing Ship-To	Crder Number 0000018888 Order Type TA - Standard Order Sales Organisation 1000 - Germany



## **Example Code of Challenge Solution**

### Knowledge-model.yml

```
kind: EXTENSION
metadata:
key: knowledge-model
displayName: Knowledge Model
base:
key: order-management-execution-app.knowledge-model
appStoreBased: false
records:
- id: ORDER
 attributes:
  - id: PRIORITIZATION
   pal: |
    CASE
    WHEN KPI(FORMULA_ORDER_CHANGE_DATE)='1'
                                                              THEN '999'
    WHEN KPI(FORMULA_LT_5_DAYS_OVERDUE_MISSING_DELIVERY)='1'
                                                                       THEN '5'
    WHEN KPI(FORMULA_DUE_TODAY_MISSING_DELIVERY)='1'
                                                                   THEN '5'
    WHEN KPI(FORMULA_GE_5_DAYS_OVERDUE_MISSING_DELIVERY)='1'
                                                                        THEN '5'
    WHEN KPI(FORMULA_CREDIT_BLOCK)='1'
                                                          THEN '4'
    WHEN KPI(FORMULA_BILLING_BLOCK)='1'
                                                          THEN '4'
    WHEN KPI(FORMULA_DELIVERY_BLOCK)='1'
                                                           THEN '4'
    WHEN KPI(FORMULA_DELIVERY_BLOCK_SCHEDULE_LINE)='1'
                                                                    THEN '4'
                                                          THEN '3'
    WHEN KPI(FORMULA_MISSING_WEIGHT)='1'
    WHEN KPI(FORMULA_MISSING_PRICE)='1'
                                                          THEN '3'
    ELSE NULL
    END
   filterIds:
    columnType: STRING
 newAttributes:
  augmentedAttributes:
 flags:
  - id: FLAG_MISSING_SHIP_TO
    displayName: Missing Ship-To Party
    pql: KPI("FORMULA_MISSING_SHIP_TO") = '1'
   filterIds:
 priorities:
- id: ORDER_ITEM
 attributes:
  - id: ship_to_party
    displayName: Ship-To Party
   pal: |-
    PU_FIRST(VBAP,VBPA.KUNNR || ' - ' ||VBPA.NAME1 ,VBPA.PARVW='WE')
    filterIds: []
```

columnType: STRING newAttributes: augmentedAttributes: flags: [] priorities: kpis: - id: FORMULA\_MISSING\_PRICE\_ITEM pql: |-CASE WHEN VBAK.AUART='TA' AND (VBAP.NETPR = 0 OR VBAP.NETPR IS NULL OR VBAP.NETWR = 0 OR VBAP.NETWR IS NULL) THEN '1' ELSE '0' END filterIds: [] parameters: - id: FORMULA\_MISSING\_SHIP\_TO displayName: FORMULA\_MISSING\_SHIP\_TO pql: | CASE WHEN PU\_COUNT(VBAK,VBPA.KUNNR,VBPA.PARVW='WE' AND \${VARIABLE\_OPEN\_ORDER\_ITEM}) = 0 THEN '1' -- Missing Ship To ELSE '0' END filterIds: parameters: filters: - id: filter\_missing\_ship\_to displayName: FILTER\_MISSING\_SHIP\_TO description: "" pql: FILTER KPI("FORMULA\_MISSING\_SHIP\_TO")='1'; variables: - id: VARIABLE\_KNOWLEDGE\_MODEL\_KEY value: order-management-execution-app-store.knowledge-model - id: VARIABLE\_DATE\_DELIVERY\_DATE value: PU\_MIN(VBAP, VBEP.TDDAT, "VBEP"."BMENG">0 AND VBAP.ABGRU IS NULL) - id: VARIABLE\_ORDER\_TYPES value: (VBAK.VBTYP NOT IN ('B') AND VBAK.VKORG NOT IN ('8590')) - id: VARIABLE\_TASK\_ASSIGNMENT value: 'f.haamann@celonis.com' --Enter your E-Mail Address activities: [] eventLogsMetadata: eventLogs: transitions: kpiViews: [] anomalies: - id: GAP\_MISSING\_SHIP\_TO displayName: Missing Ship-To Party flag: FLAG\_MISSING\_SHIP\_TO

kpilds: [] kpis: - kpild: KPI\_OPEN\_ORDERS impactCalculation: IMPACT\_ABSOLUTE\_RATIO eventLogs: [] customObjects: [] actions: []

### Sales-orders-table.yml

base: key: order-management-execution-app.open-sales-orders appStoreBased: false metadata: key: open-sales-orders name: Sales Orders Table components: - id: sales-orders-table type: table knowledgeModelKey: knowledge-model settings: data: columns: - id: 2ea2d142-2130-4938-9203-e6c9379a1997 field: ORDER.DELIVERY\_BLOCK order: 800 - id: sales-order-items-table type: table knowledgeModelKey: knowledge-model settings: data: columns: - id: 5c9db1a0-cbfc-449f-826d-6a7c820260d3 field: ORDER\_ITEM.ship\_to\_party order: 500