

Automotive Consulting Solution

Optimized Ordering using Summarized JIT-Calls



SAP

Agenda

- 1. Benefit for the Customer**
2. Description of the Function
3. The Function in the System
4. Technical Information

Customer Benefit

Solution



- Proven solutions/services of SAP Automotive Consulting
- Solutions already running productive at several customers
- Solutions and documentation are available in German and English

Cost



- Exact calculation of implementation cost. Implementation for fixed price
- 6 months of free follow up care operations for bug corrections starting at the date of installation within the development landscape. Afterwards chargeable consulting support starts
- No additional ongoing costs (i.e. maintenance cost)

Time



- Prompt implementation possible
- Defined timeframe for implementation

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Motivation

- Are you currently ordering your materials and raw materials with the help of forecast and JIT delivery schedules from your suppliers?
- Would you like better control and an overview of the expected deliveries?
- Are you already supplying large OEMs with manifest calls or pick-up sheets and would you like to use the advantages of these processes for your material procurement?



- With the help of this ACS, you optimize your entire order and goods receipt processes by using Summarized JIT Calls.

Concept

- Sending the **MM schedule lines** as (truck-specific) **Summarized JIT Calls** to your suppliers in addition to forecast and JIT delivery schedules
- Definition of split criteria for Summarized JIT Call generation (e.g. MM unloading points, order numbers, etc.)
- Communication with the suppliers via a uniform numbers (truck, pick-up sheet or manifest number)
- Receipt and automatic processing of shipping notifications and goods receipt postings possible
- Automation of delivery creation (EDI shipping notification) can be activated for suppliers without EDI
- Status tracking of the expected deliveries with the help of the extremely flexible JIT status network

Optional – Customer specific integration of further SAP-features

- Supplier-specific customizing of additional actions (e.g. usage of confirmation of receipt)
- Scanner-supported goods receipt processes
- Transmission of previously calculated hourly pick-up dates
- Previous optimization of the schedule lines using SAP standard modules such as PPDS
- Example of additional transferable information compared to standard delivery schedules:
 - Reference number (e.g. truck number, Kanban numbers, ...)
 - Individual customer information
 - Pick-up date and time
 - Etc.

Advantages

Advantages for the customer

- Significantly reduced effort in the goods receiving process
- Complete inventory transparency
- The supplier does not have to send an EDI ASN for automated goods receipt
- Improve delivery quality
- The freight forwarder can plan his transport early

Advantages for the supplier

- "Stable" schedule lines (no release fluctuations) due to fixed Summarized JIT Calls
- Planning reliability
- Better coordination regarding delivery with the customer

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Optimized Ordering of MM Scheduling lines using Summarized (exact truck) JIT-Calls

MM Scheduling lines

Summarized JIT Call

Call number: ACS1201911060001 (Freely definable logic for generation)

Summary of the MM Scheduling lines in a Summarized JIT Call:

- per supplier, unloading point, date and time
- with a unique reference number for communication with the supplier.

Individual monitor for generating the schedule lines as JIT Summarized JIT Calls

Selection Screen

Generate Summarized JIT-Calls for optimized Procurement

Master Data

Scheduling Agreement - Header

Agreement: 5500000319 to 5500000321
 Vendor: LIEFERANT1 to
 Company Code: to
 Purch. Organization: ACS1 to
 Purchasing Group: 001 to
 Purchasing Doc. Type: to
 Purch. Doc. Category: to

Scheduling Agreement - Item

Plant: ACS1 to
 Release Creation Profile: 0001 to
 Material: to
 Item: to
 (Auto) Unloading Point: to
 Kanban Indicator: z to

Scheduling Agreement - Schedule Lines

Consider Creation Profile Days for the Schedule Lines Selection:

Delivery Date: 06.11.2019 to 09.11.2019
 Time: 00:00:00 to 00:00:00
 Route: to

JIT Outbound Call

Control cycle number: to
 Prodn Supply Area: to

Default Packing Instruction Data

Packaging Material for PI: ACS PALETTE
 Target Quantity for PI: 100,000

Customizing checks

Partner profiles (WE20)
 Message determination

Display Options

Layout: to

Monitor of the summarized MM schedule lines

Generate Summarized JIT-Calls for optimized Procurement

Generate Control Cycle and Pack.Inst. Generate Summarized JIT-Calls

Ext. No.	Vendor	Name	Material	Order Unit	Plant	Stor. Lo...	Unload. pt	Purch.Doc.	Item	Sch. Line	Delivery Date	Time	Sched. Qty	Gross Weight	Net Weight	Pallets	Pack.inst.	ContrCycle			
ACS1201911060003	LIEFERANT1	Lieferant 1	TB71103X1FD400B	PC	ACS1	0001	0000000001	5500000319	10	1	06.11.2019	11:00:00	47	56,400	47	0,4700	615	90			
		Lieferant 1	TB71103X1FD400C	PC	ACS1	0001		5500000320	10	1			45	54	45	0,4500	616	91			
		Lieferant 1	TB71103X1FD400D	PC	ACS1	0001		5500000321	10	1			24	28,800	24	0,2400	617	92			
													116	139,200	116	1,1600					
ACS1201911060004		Lieferant 1	TB71103X1FD400B	PC	ACS1	0001		5500000319	10	2		19:00:00	45	54	45	0,4500	615	90			
		Lieferant 1	TB71103X1FD400C	PC	ACS1	0001		5500000320	10	2			74	88,800	74	0,7400	616	91			
		Lieferant 1	TB71103X1FD400D	PC	ACS1	0001		5500000321	10	2			52	62,400	52	0,5200	617	92			
													171	205,200	171	1,7100					
ACS1201911070004		Lieferant 1	TB71103X1FD400B	PC	ACS1	0001		5500000319	10	3	07.11.2019	11:00:00	96	115,200	96	0,9600	615	90			
		Lieferant 1	TB71103X1FD400C	PC	ACS1	0001		5500000320	10	3			25	30	25	0,2500	616	91			
		Lieferant 1	TB71103X1FD400D	PC	ACS1	0001		5500000321	10	3			41	49,200	41	0,4100	617	92			
													162	194,400	162	1,6200					
ACS1201911070005		Lieferant 1	TB71103X1FD400B	PC	ACS1	0001		5500000319	10	4		15:00:00	12	14,400	12	0,1200	615	90			
		Lieferant 1	TB71103X1FD400C	PC	ACS1	0001		5500000320	10	4			35	42	35	0,3500	616	91			
		Lieferant 1	TB71103X1FD400D	PC	ACS1	0001		5500000321	10	4			35	42	35	0,3500	617	92			
													82	98,400	82	0,8200					
ACS1201911070006		Lieferant 1	TB71103X1FD400B	PC	ACS1	0001		5500000319	10	5		19:00:00	78	93,600	78	0,7800	615	90			
		Lieferant 1	TB71103X1FD400C	PC	ACS1	0001		5500000320	10	5			12	14,400	12	0,1200	616	91			
		Lieferant 1	TB71103X1FD400D	PC	ACS1	0001		5500000321	10	5			33	39,600	33	0,3300	617	92			
													123	147,600	123	1,2300					
ACS1201911080004		Lieferant 1	TB71103X1FD400B	PC	ACS1	0001		5500000319	10	6	07.11.2019	11:00:00	80	96	80	0,8000	615	90			
		Lieferant 1	TB71103X1FD400C	PC	ACS1	0001		5500000320	10	6			58	69,600	58	0,5800	616	91			
		Lieferant 1	TB71103X1FD400D	PC	ACS1	0001		5500000321	10	6			100	120	100	1,0000	617	92			
													238	285,600	238	2,3800					
ACS1201911080005		Lieferant 1	TB71103X1FD400B	PC	ACS1	0001		5500000319	10	7		15:00:00	74	88,800	74	0,7400	615	90			
		Lieferant 1	TB71103X1FD400C	PC	ACS1	0001		5500000320	10	7			37	44,400	37	0,3700	616	91			
		Lieferant 1	TB71103X1FD400D	PC	ACS1	0001		5500000321	10	7			50	60	50	0,5000	617	92			
													161	193,200	161	1,6100					
ACS1201911080006		Lieferant 1	TB71103X1FD400B	PC	ACS1	0001		5500000319	10	8		19:00:00	86	103,200	86	0,8600	615	90			
		Lieferant 1	TB71103X1FD400C	PC	ACS1	0001		5500000320	10	8			46	55,200	46	0,4600	616	91			
		Lieferant 1	TB71103X1FD400D	PC	ACS1	0001		5500000321	10	8			56	67,200	56	0,5600	617	92			
													188	225,600	188	1,8800					
ACS1201911090002		Lieferant 1	TB71103X1FD400B	PC	ACS1	0001		5500000319	10	9	08.11.2019	11:00:00	28	33,600	28	0,2800	615	90			
		Lieferant 1	TB71103X1FD400C	PC	ACS1	0001		5500000320	10	9			12	14,400	12	0,1200	616	91			
		Lieferant 1	TB71103X1FD400D	PC	ACS1	0001		5500000321	10	9			94	112,800	94	0,9400	617	92			
													134	160,800	134	1,3400					
													134	160,800	134	1,3400					
													1.375	1.650	1.375	13,7500					
													1.375	1.650	1.375	13,7500					
													1.375	1.650	1.375	13,7500					

Feature Overview

Overview monitor of the Summarized JIT calls of the MM scheduling lines

Ext. No.	Vendor	Name	Material	Order Unit	Plant
ACS1201911060005	LIEFERANT1	Lieferant 1	TB71103X1F0400B	PC	ACS1
			TB71103X1F0400C	PC	ACS1
			TB71103X1F0400D	PC	ACS1

Direct jump to JIT outbound monitor

Generate Summarized JIT-Calls for optimized Procurement

Generate C...

Ext. No.	Vendor	Name	Material	Order Unit	Plant
ACS1201911060005	LIEFERANT1	Lieferant 1	TB71103X1F0400B	PC	ACS1
			TB71103X1F0400C	PC	ACS1
			TB71103X1F0400D	PC	ACS1

List of Selected Outbound Calls

Automatic creation of master data (control cycles and packing instructions)

Generate Control Cycle and Pack.Inst.

Display Control Cycle 90

Control Cycle 90

Material: TB71103X1F0400B

Plant: ACS1 SAP ACS Stuttgart

Supply Area: 0001_01

Stamp Pat.:

Call: Call Item Qty: 5 PC No. Load Carrier: 1

Container: ACS PALETTE

Display Packing Instruction: Components

Item	Component	Short text	Target quantity
100	ACS PALETTE	Pallet	1
200	TB71103X1F0400B	Kanban Material JIT 3	200

Status monitoring with customer-specific status

List of Selected Outbound Calls

Actions Error

Ext. No.	Vendor	Name	Material	Order Unit	Plant
ACS1201911060005	LIEFERANT1	Lieferant 1	TB71103X1F0400B	PC	ACS1
			TB71103X1F0400C	PC	ACS1
			TB71103X1F0400D	PC	ACS1

Information dialog: Processing status 0000: 'Call created'.

Execution of pre-defined and customer-specific follow-up actions

List of Selected Outbound Calls

Actions Error

No. Control	PrSt...	Action	PrcSt.new	Action Description	
1	ZSTB	0000	OAPP	0000	Add Components Group to Outbound Call
1	ZSTB	0000	OMOD	0050	Modification of a JIT Outbound Call
1	ZSTB	0000	OREO		Delete JIT Outbound Calls
1	ZSTB	0000	OSDD	4400	Send Outbound Call: Process Message
1	ZSTB	0000	ZIDM	4400	Inbound Del. Creation for Manifest Call
1	ZSTB	0000	ZOCN	9999	Cancel JIT Outbound Calls

Possible Actions dialog: Execute Action

Automatic creation of the ASN possible

Possible Actions

No. Control	PrSt...	Action	PrcSt.new	Action Description	
1	ZSTB	0000	OAPP	0000	Add Components Group to Outbound Call
1	ZSTB	0000	OMOD	0050	Modification of a JIT Outbound Call
1	ZSTB	0000	OREO		Delete JIT Outbound Calls
1	ZSTB	0000	OSDD	4400	Send Outbound Call: Process Message
1	ZSTB	0000	ZIDM	4400	Inbound Del. Creation for Manifest Call
1	ZSTB	0000	ZOCN	9999	Cancel JIT Outbound Calls

Short Technical Information

Direction: 01 Inbox

Current Status: 03 OOB

Basic type: DELRETY7

Segment: 000002

Message Type: DELRETY7

Partner No.: LIEFERANT1

Partner Type: LI

Port: SBFACTS

Content of Selected Segment

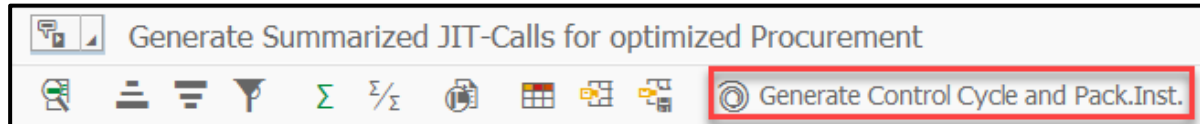
SEG Name: SEG Cont.

ITEM: ACS1201911060001

PARID: LIEFERANT1

Automatic creation of master data (control cycles and packing instructions)

Master data creation for Summarized JIT Calls



- Automatic creation of control cycles for controlling the Summarized JIT Calls
- Automated creation of packing instructions using dummy packaging material (if not available)



Display Control Cycle 90

Control Cycle 90

Material: TB71103X1F0400B
Kanban Material JIT 3

Plant: ACS1 SAP ACS Stuttgart

Supply Area: PVB1_TB

Storing Pos.:

Call

Call Item Qty: 0 PC No.Load Carrier: 1

Container: ACS PALETTE
Pallet

External Procurement | Flow Control | Plng | Print Control

Ext.Procurement: ZSTB Vendor External Procurement with SumJIT

Purchasing Org.: ACS1 SAP ACS Stuttgart

Vendor: LIEFERANT1 Lieferant 1

Agreement: 5500000319 10 Message Determin.

Display Packing Instruction: Components

PackInstructn: 615

Short text: TB71103X1F0400B

Admin. data | Short Txts | Dim. | Components | Usages | Document

Item	It...	Component	Short text	Target quantity
10 P	ACS	PALETTE	Pallet	1
20 M	TB71103X1F0400B		Kanban Material JIT 3	100

Execution of predefined and customer-specific follow-up actions using the JIS status network

JIT Actions

ACS-Standard Actions

- ✓ ZOEN: Cancellation of Summarized JIT Calls
- ✓ ZIDM: Automated delivery creation via ASN from JIT call information
- ✓ ZCID: Cancellation of deliveries

- Usage of **SAP-Standard Actions**

- **Customer specific Actions** customizable and can be integrated via the JIT status network

Example: Action → ZIDM

Creation of DESADV IDoc for creating the inbound delivery

Possible Actions					
No.	Control	PrSt.c...	Action	Prc.st.new	Action Description
1	ZSTB	0000	OAPP	0000	Add Components Group to Outbound Call
1	ZSTB	0000	OMOD	0050	Modification of a JIT Outbound Call
1	ZSTB	0000	OREO		Delete JIT Outbound Calls
1	ZSTB	0000	OSDD	4400	Send Outbound Call: Process Message
1	ZSTB	0000	ZIDM	4400	Inbound Deli. Creation for Manifest Call
1	ZSTB	0000	ZOCN	9999	Cancel JIT Outbound Calls

Idoc display

Additional inform...

Short Technical Information

Direction	2	Inbox
Current Status	53	OO
Basic type	DELVRY07	
Extension		
Message Type	DESADV	
Partner No.	LIEFERANT1	
Partn.Type	LI	
Port	SAPACS	

Content of Selected Segment

Fid Name	Fid Cont.
LIFEX	ACS1201911060001
PARID	LIEFERANT1

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Technical Information



Technical installation is remotely possible



Modification-free



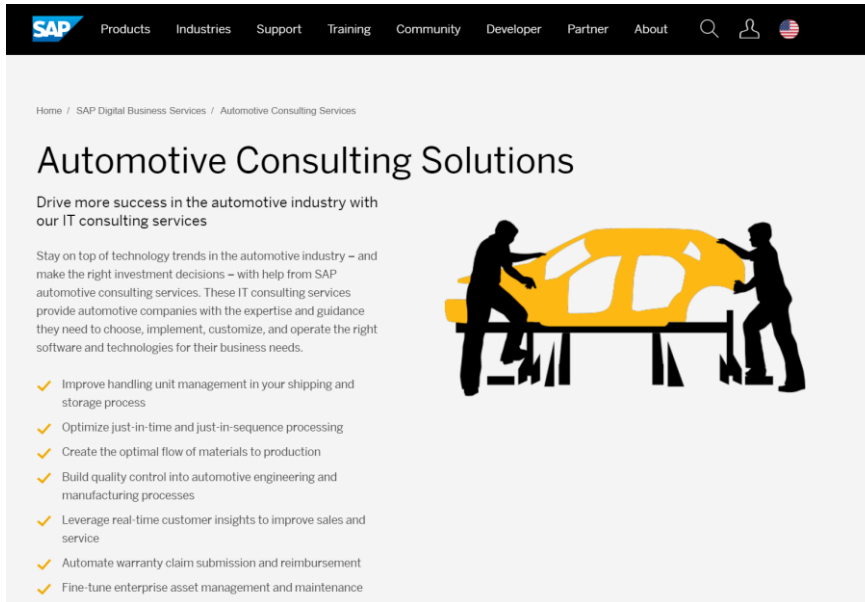
Delivery in Z-namespaces

Source of Information

■ Internet

Overview-, Detail- and Customer presentations

<http://www.sap.com/acs>



The screenshot shows the SAP Automotive Consulting Solutions webpage. The top navigation bar includes the SAP logo and links for Products, Industries, Support, Training, Community, Developer, Partner, About, a search icon, a user profile icon, and a US flag. The main content area features the title "Automotive Consulting Solutions" and a sub-headline "Drive more success in the automotive industry with our IT consulting services". Below this is a paragraph of text and a list of seven bullet points, each preceded by a checkmark. To the right of the text is an illustration of two silhouetted figures working on a yellow car chassis on a production line.

Home / SAP Digital Business Services / Automotive Consulting Services

Automotive Consulting Solutions

Drive more success in the automotive industry with our IT consulting services

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- ✓ Improve handling unit management in your shipping and storage process
- ✓ Optimize just-in-time and just-in-sequence processing
- ✓ Create the optimal flow of materials to production
- ✓ Build quality control into automotive engineering and manufacturing processes
- ✓ Leverage real-time customer insights to improve sales and service
- ✓ Automate warranty claim submission and reimbursement
- ✓ Fine-tune enterprise asset management and maintenance

■ OSS-System

Notes (Search term: Automotive Consulting Solutions)



Thank you!

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