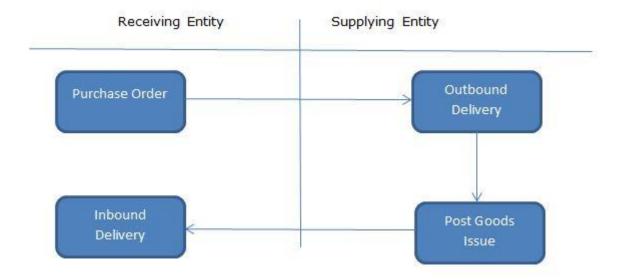
Inbound Delivery : Automatic Creation from Outbound Delivery

Introduction: This Document purviews various approaches to setup inbound delivery in SAP. Inbound delivery is delivery pertaining to incoming good. It's Different from Outbound delivery in sense that outbound delivery encompasses scenario when goods move out of a plant, whereas inbound delivery is about receipt of goods. Thus inbound delivery is created at receiving entity.



Problem Statement: If Purchase order is created by receiving party, then for that corresponding outbound delivery is created by supplying party. But receiving party doesn't get much visibility of shipment of goods till they actually receive it. This Situation becomes more difficult when there is long distance shipment involve across countries or continents. In such long journey, there can be delays/issues due to any reasons. Receiving party remains oblivious of up to date situation of goods transit. Receiving party would like to ensure that they always have real time updates of goods movement.

Solution: To overcome this requirement a concept of inbound delivery can be used. An inbound delivery can be triggered automatically once post goods issue is done for outbound delivery. Thus outbound delivery serves as a reference document for inbound delivery and details can be seen in Purchase order through confirmation controls. Also any update in outbound delivery, would be updated in inbound delivery.

Solution Approach:

There could be two approaches to create inbound delivery from outbound delivery automatically, once Post Goods Issue is done.

- 1) Use standard SAP output type SPED.
- 2) Use iDOC through EDI medium

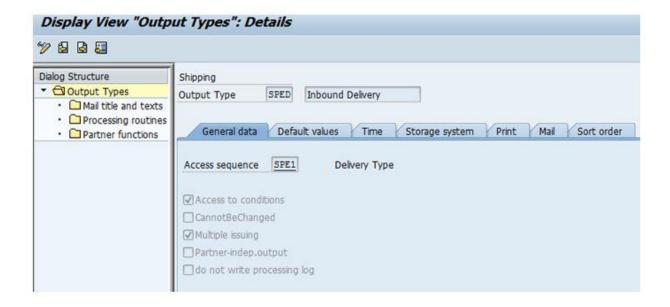
Features	SPED	IDOC
Same system / cross system	SPED output type is used when both entity are using the same SAP system.	IDOC Approach can be used within same system and cross systems as well.
Document flow updated	SPED output type automatically updates document flow of outbound delivery with inbound delivery information.	IDOC automatically updates document flow of outbound delivery with inbound delivery information.

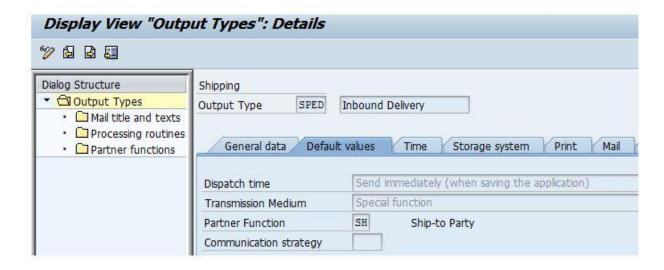
Approach 1: - SPED

Step 1)If your system doesn't contains output type SPED, then manually create it.

SPRO > Logistic Execution > Shipping > Basic Shipping Functions > Output Control > Output Determination > Maintain Output Determination for Outbound Deliveries > Maintain Output Types

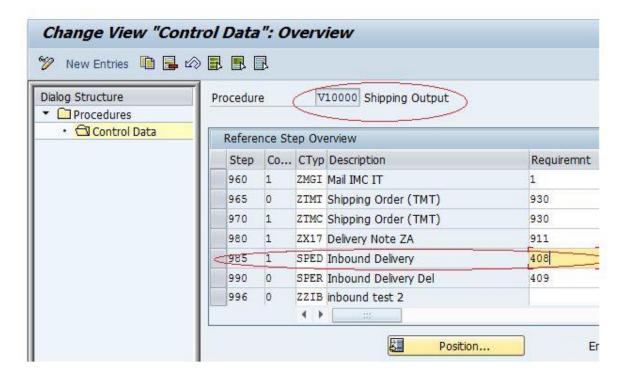
T.Code - V/34





Step 2)Assign SPED to Output Determination Procedure

SPRO > Logistic Execution > Shipping > Basic Shipping Functions > Output Control > Output Determination > Maintain Output Determination for Outbound Deliveries -> Maintain Output Determination Procedure



Step 3) Create Condition Record for SPED

Logistics > Logistics Execution > Master Data > Output > Shipping > Outbound Deliveries > Create

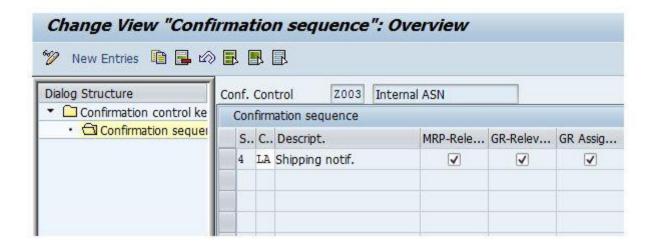
T.Code - VV21/22/23



Step 4) Confirmation Control

SPRO > Material Management > Purchasing > Confirmations > Set up confirmation control

Confirmation Control key must be selected on the confirmation control tab at item level in Purchase Order. Make sure to check GR-Relevant and GR Assignment key for control key.



To ensure automatic selection of confirmation control in Purchase order, maintain relevant entry in purchase info record, otherwise manually select it in Purchase Order.

Logistics > Materials Management > Purchasing > Master Data > Info Record > Create

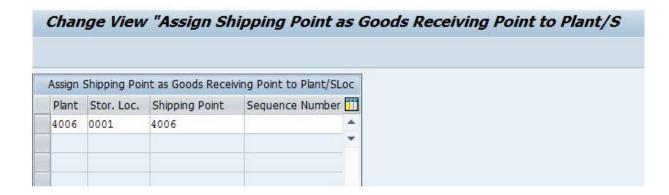
T.Code - ME11/12/13

	te Info Recor	rd: Pur	ch. Organizati	on D	ata	1
Info Record		Г				
Vendor	300234	-	TREYER PALETTEN GI	мвн		
Material	0013683	F	PP993 TECH 200 KG		050	
Material Group	2.BANG					
Purchasing Org.	1200			Sta	enda	rd
Control						
Pl. Deliv. Time	Days		Tol. Underdl.		8	No MText
Purch. Group			Tol. Overdl.	50.0	8	Ackn. Rgd
Standard Qty		KG	Unlimited			Conf. Ctrl Z003
Minimum Qty		KG	GR-Bsd IV			Tax Code
Rem. Shelf Life	1 D		□No ERS			

Step 5) Assign Goods Receiving Points for Inbound Deliveries

SPRO -> Logistics Execution -> Shipping -> Basic Shipping Functions -> Shipping Point and Goods Receiving Point Determination -> Assign Goods Receiving Points for Inbound Deliveries

Assign shipping point as a good receiving point for combination of plant and storage location.



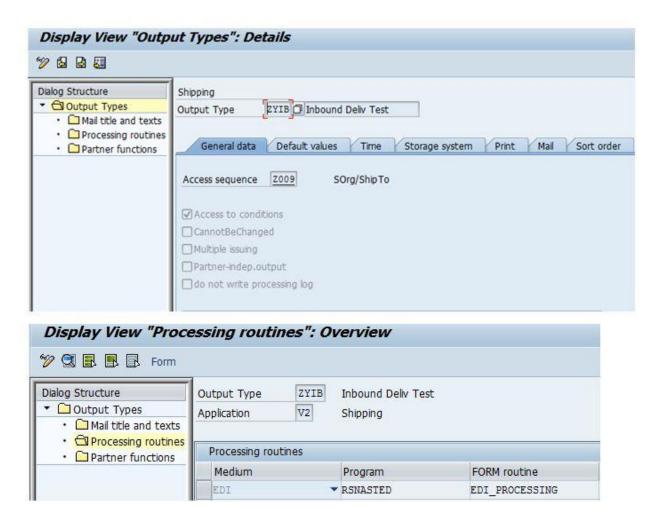
Approach 2: - iDOC

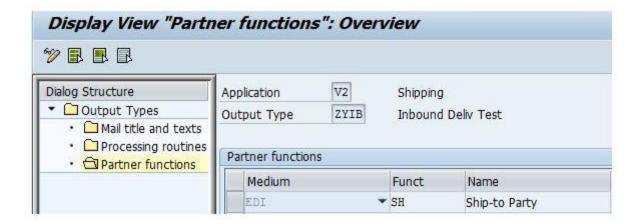
Step 1) Output Type for Delivery

Create new output type or modify the existing one

SPRO > Logistic Execution > Shipping > Basic Shipping Functions > Output Control > Output Determination > Maintain Output Determination for Outbound Deliveries > Maintain Output Types

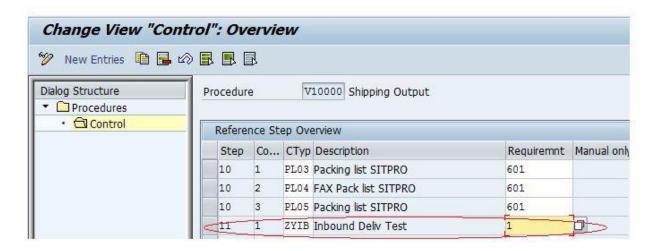
T.Code - V/34





Assign output type to Output Determination Procedure

SPRO > Logistic Execution > Shipping > Basic Shipping Functions > Output Control > Output Determination > Maintain Output Determination for Outbound Deliveries -> Maintain Output Determination Procedure



Maintain Requirement as "1", so that output is triggered only when Post Good Issue is done.

Create Condition Record for Output Type

Logistics > Logistics Execution > Master Data > Output > Shipping > Outbound Deliveries > Create

T.Code - VV21/22/23



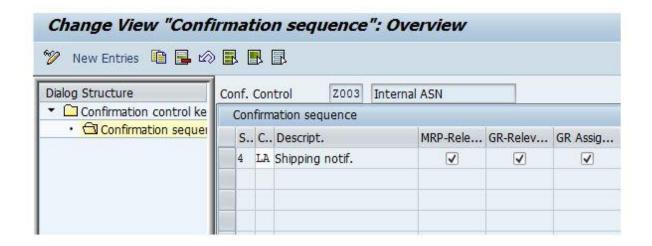


Step 2) Confirmation Control

SPRO > Material Management > Purchasing > Confirmations > Set up confirmation control

Confirmation Control key must be selected on the confirmation control tab at item level in Purchase Order.

Make sure to check GR-Relevant and GR Assignment key for control key.

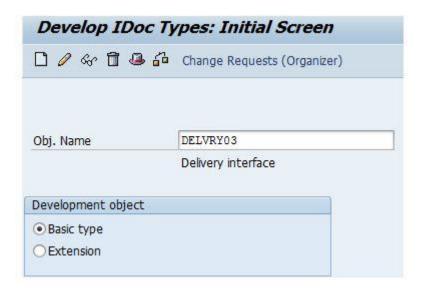


Step 3) Setting of Outbound iDOc

IDoc type – DELVRY03

Tools > ALE > ALE Development > IDoc > IDoc Type Development > IDoc Types

T.Code - WE30



Message Type – DESADV

Tools > ALE > ALE Development > IDoc > IDoc Type Development > Logical Messages

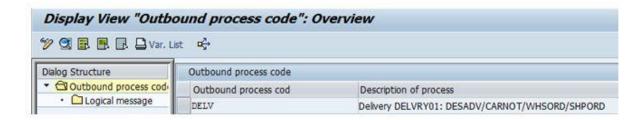
T.Code - WE81



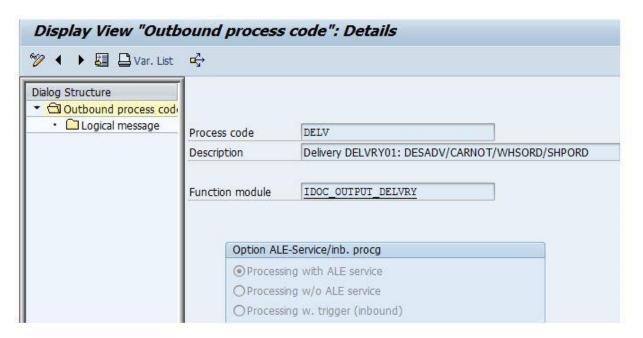
Process Code - DELV

Tools > ALE > ALE Development > IDoc > Outbound Processing > Define Process Code

T.Code - WE41



Function Module - IDOC_OUTPUT_DELVRY



Maintain partner profile for outbound parameter

SPRO > Materials Management > Purchasing > Messages > EDI > Set Up Partner Profile

T.Code - WE20

Partner Type - KU (Customer)

Partner Role - SH

tbound parm	trs.			
Partner Role	Message Type	Message va	MessageFu	Test
SH	DESADV			C

Receiver port	A0000000	Transactional RFC T1BCLNT010
Pack. Size	1	
Queue Proces	sing	
Output Mode		
• Transfer IDoo	: Immed.	Output Mode 2
Ocollect IDocs		
IDoc Type		
Basic type	DELVRY0:	Delivery interface
Extension		
View		
Cancel Proces	ssing After Syntax Er	
Seg. release in 1	IDoc type	Segment Appl. Rel.
Outbound O	ptions Message	ntrol Post Processing: Permitted Agent Tel
	140 6	
Application:	V2 : Si	
Message Typ		bound Deliv Test
	DELV.	elivery DELVRY01: DESADV/CARNOT/WHSORD/SHPORD
Process Code	o. OLLV.	,
	Transcription (
Application	Message type	Process code Change

Step 4)Setting of Inbound IDoc

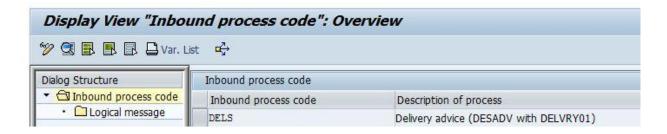
IDoc type – DELVRY03

Message Type – DESADV

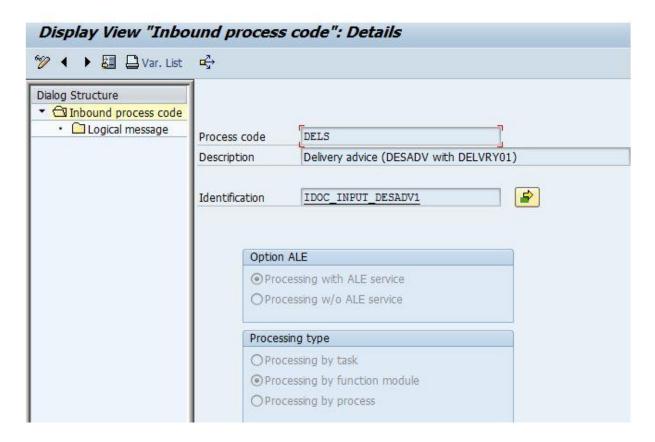
Process Code - DELS

Tools > ALE > ALE Development > IDoc > Inbound Processing > Define Process Code

T.Code - WE42

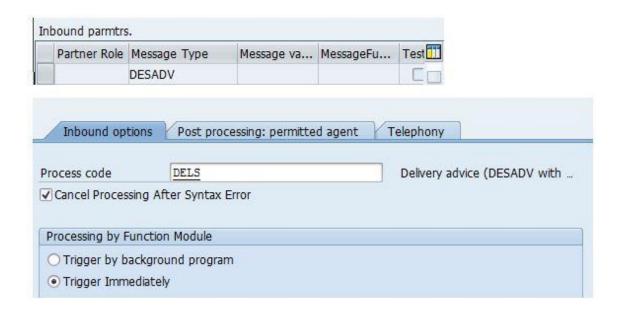


Function Module - IDOC_INPUT_DESADV1



Maintain partner profile for inbound parameter

Partner Type – LS (Logical System)



Actual Process Flow:

The Process flow to generate inbound delivery remains the same in both approaches.

- 1) Create Purchase Order.T.Code ME21N
- 2) Create Outbound Delivery for Purchase Order.T.Code VL10B
- 3) Do Pick, pack and Post Good Issue for Outbound Delivery from supplying plant.
- 4) Output will be automatically triggered.
- 5) Confirmation control of Purchase Order will be updated with inbound Delivery.