Media Markt Saturn Technology

EDI-guideline Electronic delivery note

DESADV - EANCOM'02 D01.B

Guideline for electronic data exchange in trade with MediaMarktSaturn

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Technology

Table of contents

1.	Introduction	4 -
2.	The EDI-message chain at MediaMarktSaturn	4 -
3.	Basic conditions for the application of EDI-DESADV	4 -
4.	Supplier audit: Outgoing goods control	5 -
5.	Target process in the overview:	6 -
6.	Development of DESADV / logic assignment	7 -
7.	Packing hierarchies	9 -
8.	Allowed character strings for EDI-DESADV	16 -
9.	Timing for EDI-DESADV transmission	16 -
10.	Functionality of SSCC-18/SSCC	16 -
11.	Structuring of SSCC-18/SSCC	17 -
12.	Affixing the SSCC-18/SSCC to the shipping unit	17 -
13.	Connection procedure	20 -
14.	Source of information EDI-DESADV with SSCC-18/SSCC	21 -
15.	Contact persons of MediaMartktSaturn concerning EDI	21 -

Technology

1. Introduction

This document outlines the requirements for electronic data exchange with the MediaMarktSaturn Group. It serves as an addendum and guidance for our suppliers to the technical interface description "MS_EDI_GUIDE_DESADV", supporting the implementation of this message type in the EANCOM 2 standard (DESADV D01.B) between suppliers and MediaMarktSaturn.

At MediaMarktSaturn, the EDI-DESADV interface has been implemented in close alignment with the GS1 standard. For further details, please refer to GS1's implementation recommendations.

http://www.gs1-germany.de/internet/common/files/eEurope_english/desadv/

2. The EDI-message chain at MediaMarktSaturn

MediaMarktSaturn supports the following EDI message types for electronic data exchange:

PRICAT: Master data exchange (product logistics data).

ORDERS: (Purchase) orders.

ORDERS VMI: Supplier-initiated purchase order proposals to MediaMarktSaturn.
 ORDRSP VMI: MediaMarktSaturn-initiated order confirmations to the supplier.

• INVRPT VMI: MediaMarktSaturn-initiated stock data to the supplier (future SLSRPT).

DESADV: Supplier-initiated delivery notes to MediaMarktSaturn.

INVOIC: Goods invoice; debit note issued by MediaMarktSaturn to the supplier.

For the latest information, please consult our EDI information page.

https://edi.mediamarktsaturn.com/

Further MS_EDI_guidelines

Upon request, MediaMarktSaturn can provide suppliers with additional interface descriptions for the message types listed above.

3. Basic conditions for the application of EDI-DESADV

- There is a **one-to-one relationship** between documents/messages; each invoice relates to a single delivery note.
- As a rule, the MediaMarktSaturn order number must be quoted. If it is not available (e.g. in VMI/replenishment), the supplier's order number must be quoted instead.

Backorder consolidation (EDI-DESADV):

To reduce transport costs, products from multiple orders may be bundled on a single delivery note. The corresponding order number (MediaMarktSaturn or ORDRSP VMI) must be specified at line level. Each product line must be clearly assignable to exactly one order.

 The exchange of electronic delivery notes with MediaMarktSaturn stores is only possible after a contract has been concluded, and the EDI message types "EDI-INVOICE", and "EDI-ORDERS" have been provided. The contracting parties are the supplier and MediaMarktSaturn.

Technology

Both parties may engage service providers to develop the EDI message formats at their own expense.

- The exchange of electronic delivery notes (DESADV) is only permitted in conjunction with the provision of SSCC-18/SSCC IDs. The SSCC-18/SSCC (Serial Shipping Container Code; German: Nummer der VersandEinheit; English: shipment unit number) is mandatory in the technical interface description.
- MediaMarktSaturn can process the Master-SSCC-18 hierarchy level. This is optional; however, at least one SSCC-18/SSCC per shipment must be provided.
- All shipping/handling units (packages, pallets, etc.) must be labelled with an SSCC-18/SSCC barcode in accordance with the EAN-128 standard. The wording "SSCC-18" or "SSCC" and the 18-digit SSCC number must be printed with the barcode. The label must be affixed to the consignment as described in chapter 12.
- All shipping/handling units (packages, pallets, etc.) must be labelled with an SSCC-18/SSCC barcode in accordance with the EAN-128 standard. The wording "SSCC-18" or "SSCC" and the 18-digit SSCC number must be printed with the barcode. The label must be affixed to the consignment as described in chapter 12.
- The electronic transmission of the DESADV message must be completed before the physical goods receipt (see chapter 9). Optional details may be provided regarding backorders, such as delivery date delays and substitutes.
- An accompanying document must be enclosed with the consignment for goods receipt in the store.
- This guideline applies only to inventory-managed products at MediaMarktSaturn that are sold to end customers.
- A DESADV message may only contain products from a single supplier.

MediaMarktSaturn does not yet support the use of DESADV with SSCC-18 for break-bulk cross-docking processes (e.g. the MGL process) via its systems.

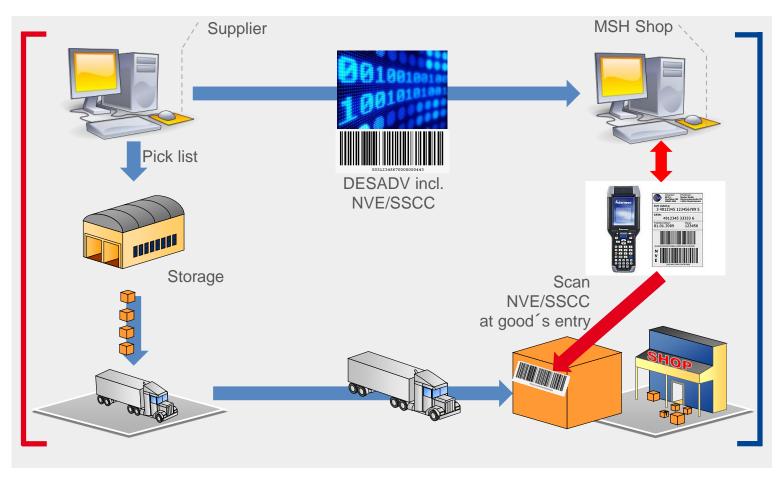
For questions regarding electronic data exchange in invoicing, please refer to the "EDI – guideline invoice".

4. Supplier audit: Outgoing goods control

The supplier grants MediaMarktSaturn the right to audit the delivery process in connection with the implementation of the electronic delivery note.

Technology

5. Target process in the overview:



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Description of the target process:

- Based on a MediaMarktSaturn order or a VMI/replenishment agreement, the supplier prepares the consignment for the store.
- The supplier generates forwarding labels with SSCC-18/SSCC ids and affixes them visibly to each unit. Ideally, the GS1 universal label should be used for shipping and SSCC-18/SSCC information (see the chapter on fixing SSCC 18/SSCC); alternatively, the SSCC-18 must be affixed near the shipping label.
- An accompanying document must be enclosed with every consignment.
- Consignment information (products/quantities and the SSCC-18/SSCC id of each shipping unit) is transmitted to MediaMarktSaturn as an electronic delivery note before dispatch and/or during transport.
- Details on products, handling instructions and further information (e.g. subsequent delivery dates) are defined in the "MS_EDI_GUIDE_DESADV". The expected data is categorised as mandatory or optional.
- The DESADV message sent by the supplier is validated by MediaMarktSaturn's EDI service provider for completeness and plausibility (i.e. all mandatory elements are present and match the expected content).
 - In case of an error, the involved parties are notified by the MediaMarktSaturn EDI service provider via email. Depending on the issue, clarification is handled either between the supplier and the MediaMarktSaturn EDI service provider (e.g. missing mandatory element such as sender GLN) or between the supplier and the EDI contact of the respective country company (e.g. incorrect target GLN). If validation rules are violated, the records are not transferred to MediaMarktSaturn's target systems (store-WWS/SAP).
- At goods receipt, the MediaMarktSaturn employee scans the SSCC-18/SSCC with a handheld scanner. This automatically links to the supplier's DESADV, and the system provides the checks and instructions required for processing the receipt.
- Goods receipt is posted with system support.
- MediaMarktSaturn archives DESADV records in accordance with fiscal requirements.

6. Development of DESADV / logic assignment

MediaMarktSaturn uses the EDI-DESADV message in accordance with the EANCOM '02 D.01B standard.

The following figure illustrates the structure and content of the DESADV message.

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Pallet 1

SSCC: **343002342500011039** GTIN: 4300234003393 Number of units delivered: 10

Pallet 2

SSCC: **343002342500020129** GTIN: 4300234004253

Number of units delivered: 80

...

CPS+1' 1. Hierarchy (shipment)
PAC+2' 2 Packages are delivered

CPS+2+1' 2. Hierarchy (pallet1 / shipment reference)
PAC+1++201' Number of packages (1 Euro pallet)

PCI+33E' Package identification with SSCC-18
GIN+BJ+343002342500011039 SSCC (SSCC-18) of pallet 1

LIN+1++4300234003393:SRV' GTIN of the delivered unit QTY+12:10':PCE Number of units delivered

CPS+3+1' 2. Hierarchy (pallet 2 / shipment reference)

PAC+1++201' Number of packages (1 Euro pallet)
PCI+33E' Package identification with SSCC-18

GIN+BJ+*343002342500020129* SSCC (SSCC-18) of pallet 2

LIN+2++4300234004253:SRV' GTIN of the delivered unit
QTY+12:80:PCE' Number of units delivered

• • • •

Source: EDI AK Handel

SSCC-18/SSCC assignment logic for DESADV:

- A DESADV may include multiple SSCC-18s.
- Each SSCC-18 is uniquely assigned to one DESADV.

Hierarchy levels via a Master-SSCC-18 are supported (e.g. a pallet containing separate product layers, each labelled with its own SSCC-18). However, for goods receipt in the store, every handling unit must be labelled with an SSCC-18 (see chapter 7: Packing hierarchies).

Due to dependencies between the schema used and the corresponding EANCOM format, it is mandatory to send a Master-SSCC-18 whenever package type, package count and/or package measurements are provided.

Further details on the technical implementation are provided in the "MS EDI GUIDE DESADV".

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7. Packing hierarchies

This chapter describes the allowed packing hierarchies and the related CPS segments.

	Package type A:	CPS+1'	"1" = 1st hierarchy (consignment-level)
	One package with one SSCC-	PAC+1'	"1" = Number of packages (cartons)
	18.		
		CPS+ 2 +1'	"2" = 2 nd hierarchy, 1 st package (carton)
0	The package can contain	PAC+1++CT'	"1" = Number of cartons, 1st package
	equal or different products.	PCI+33E'	SSCC-18 trigger segment
	Goods in kind can be in the	GIN+BJ+ SSCC1 '	"SSCC1" = SSCC-18 of the 1st package
	package.	LIN+1++ GTIN1 :SRV'	"GTIN1" = GTIN of the article
		QTY+12: 1 '	"1" = Dispatch(ed) quantity
	The content of the package	RFF+ON: 4711 '	"4711" = Order number (ON) reference
	can consist of 1 to n-orders.	RFF+LI:1'	"1" = Order line-item reference (SCE only)
		LIN+2++ GTIN2 :SRV'	"GTIN2" = GTIN of the article
	There is one DESADV for the	QTY+12: 2 '	"2" = Dispatch(ed) quantity
	package.	RFF+ON: 4712 '	"4712" = Order number (ON) reference
		RFF+LI:2'	"2" = Order line-item reference (SCE only)

Technology



Package type B:

Several packages with own SSCC-18. The packages can contain equal or different products. Goods in kind can be in one or several packages.

The content of one package can consist of 1 to n-orders. One order can be delivered with n-packages.

There is one DESADV for the packages.

CPS+1' PAC+2'	"1" = 1 st hierarchy (consignment-level) "2" = Number of packages (cartons)
CPS+ 2 +1' PAC+ 1 ++CT'	"2" = 2 nd hierarchy, 1 st package (1 st carton) "1" = Number of cartons, 1 st package

or several PCI+33E'
GIN+BJ+SSCC1'
LIN+1++GTIN1:SRV'
ne package
to n-orders.

PCI+33E'
SSCC-18 trigger segment
"SSCC1" = SSCC-18 of the 1st package
"GTIN1" = GTIN of the article
"1" = Dispatch(ed) quantity
"4711" = Order number (ON) reference

RFF+LI:1' "1" = Order line-item reference (SCE only)
LIN+2++GTIN2:SRV' "GTIN2" = GTIN of the article
QTY+12:2' "2" = Dispatch(ed) quantity

RFF+ON:4712' "4712" = Order number (ON) reference RFF+LI:2' "2" = Order line-item reference (SCE only)

CPS+**3**+1' **"3"** = 2nd hierarchy, 2nd package (2nd carton)
PAC+**1**++CT' **"1"** = Number of cartons, 2nd package
PCI+33E' SSCC-18 trigger segment

GIN+BJ+**SSCC2**' "SSCC2" = SSCC-18 of the 2nd package "GTIN1" = GTIN of the article

QTY+12:1'

"GIN1" = GIIN of the article

"1" = Dispatch(ed) quantity

"4711" = Order number (ON) reference

RFF+LI:1' "1" = Order line-item reference (SCE only)
LIN+2++**GTIN3**:SRV' "**GTIN3**" = GTIN of the article

QTY+12:3' "3" = Dispatch(ed) quantity
RFF+ON:4713' "4713" = Order number (ON) reference
RFF+LI:3' "3" = Order line-item reference (SCE only)

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Pallet type A:

One pallet with one SSCC-18. The pallet contains several packages without SSCC-18.

The packages of the pallet PCI+33E' can contain equal or different products. Goods in kind can | LIN+1++GTIN1:SRV' be in one or several packages.

The content of one package can consist of 1 to n- orders. The orders are delivered with one pallet.

There is one DESADV for the pallet.

CPS+1' PAC+1'

CPS+2+1' PAC+13++CT' GIN+BJ+SSCC1' QTY+12:**111**' RFF+ON:4711' RFF+LI:1' LIN+2++GTIN2:SRV'

QTY+12:**222**' RFF+ON:4712' RFF+LI:2'

"1" = 1st hierarchy (consignment-level) "1" = Number of packages (euro-pallets)

"2" = 2nd hierarchy, 1st package (euro-pallet) "13" = Number of cartons, 1st package SSCC-18 trigger segment "SSCC1 " = SSCC-18 of the 1st package "GTIN1" = GTIN of the article "111" = Dispatch(ed) quantity "4711" = Order number (ON) reference "1" = Order line-item reference (SCE only) "GTIN2" = GTIN of the article "222" = Dispatch(ed) quantity "4712" = Order number (ON) reference

"2" = Order line-item reference (SCE only)

Technology





Pallet	type	B:
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Several pallets with own SSCC-18. The pallets contain several packages without SSCC-18.

The packages of the pallet can contain equal or different products. Goods in kind can be in one or several packages.

The content of one package can consist of 1 to n-orders. The orders are delivered with n-pallets.

There is one DESADV for the pallets.

CPS+1'	
PAC+2'	

PS +1 '	"1" = 1 st hierarchy (consignment-level)
∆C+2 ′	"2" = Number of packages (euro-pallets)

CPS+2+1' PAC+13++CT' PCI+33E' GIN+BJ+SSCC1' LIN+1++GTIN1:SRV' QTY+12:**111**' RFF+ON:4711' RFF+LI:1' LIN+2++GTIN2:SRV'

QTY+12:222' RFF+ON:4712' RFF+LI:2'

CPS+3+1' PAC+15++CT' PCI+33E' GIN+BJ+SSCC2' LIN+1++GTIN2:SRV' QTY+12:**222**' RFF+ON:4712' RFF+LI:2' LIN+2++GTIN3:SRV' QTY+12:333' RFF+ON:4713

"2" = 2nd hierarchy, 1st package (1st pallet) "13" = Number of cartons, 1st package SSCC-18 trigger segment "SSCC1" = SSCC-18 of the 1st package "GTIN1" = GTIN of the article "111" = Dispatch(ed) quantity "4711" = Order number (ON) reference

"GTIN2" = GTIN of the article "222" = Dispatch(ed) quantity "4712" = Order number (ON) reference "2" = Order line-item reference (SCE only)

"1" = Order line-item reference (SCE only)

"3" = 2nd hierarchy, 2nd package (2nd pallet) "15" = Number of cartons, 2nd package SSCC-18 trigger segment "SSCC2" = SSCC-18 of the 2nd package

"GTIN2" = GTIN of the article "222" = Dispatch(ed) quantity

"4712" = Order number (ON) reference "2" = Order line-item reference (SCE only)

"GTIN3" = GTIN of the article "333" = Dispatch(ed) quantity

"4713" = Order number (ON) reference "3" = Order line-item reference (SCE only)

RFF+LI:3'

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Pallet type C:

One pallet with several packages. The pallet contains no SSCC-18. The packages have their own SSCC-18s.

Proceeding as with package type B.

CPS+1'	"1" = 1st hierarchy (consignment-level)
PAC+1'	"1" = Number of packages (euro-pallets)
000.0.41	(1011 Ond Linnando Astronology (Astronomy)
CPS+ 2 +1'	"2" = 2 nd hierarchy, 1 st package (1 st carton)
PAC+1++CT'	"1" = Number of cartons, 1 st package
PCI+33E'	SSCC-18 trigger segment
GIN+BJ+SSCC1'	"SSCC1 " = SSCC-18 of the 1st carton
LIN+1++ GTIN1 :SRV'	"GTIN1" = GTIN of the article
QTY+12: 1 '	"1" = Dispatch(ed) quantity
RFF+ON: 4711 '	"4711" = Order number (ON) reference
RFF+LI:1'	"1" = Order line-item reference (SCE only)
LIN+2++GTIN2:SRV'	"GTIN2" = GTIN of the article
QTY+12: 2 '	"2" = Dispatch(ed) quantity
RFF+ON: 4712 '	"4712" = Order number (ON) reference
RFF+LI:2'	"2" = Order line-item reference (SCE only)
	` · · · · ·
CPS+ 3 +1'	"3" = 2 nd hierarchy, 2 nd package (2 nd carton)
PAC+1++CT'	"1" = Number of cartons, 1st package
PCI+33E'	SSCC-18 trigger segment
GIN+BJ+SSCC2'	"SSCC2 " = SSCC-18 of the 2 nd carton
LIN+1++GTIN1:SRV'	"GTIN1" = GTIN of the article
QTY+12: 1 '	"1" = Dispatch(ed) quantity
RFF+ON: 4711 '	"4711" = Order number (ON) reference
RFF+LI:1'	"1" = Order line-item reference (SCE only)
LIN+2++ GTIN3 :SRV'	"GTIN3" = GTIN of the article
QTY+12: 3 '	"3" = Dispatch(ed) quantity
RFF+ON: 4713 '	"4713" = Order number (ON) reference
DEE-11-0	(OI) Onder the element of the control of the contro

RFF+LI:3'

"3" = Order line-item reference (SCE only)

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Pallet type D:

Several pallets with several packages. The pallets contain no SSCC-18. The packages have their own SSCC-18s.

Proceeding as with package type B.

CPS+1'	"1" = 1st hierarchy (consignment-level)
PAC+2'	"2" = Number of packages (euro-pallets)
CPS+ 2 +1'	"2" = 2 nd hierarchy, 1 st package (1 st carton)
PAC+1++CT'	"1" = Number of cartons, 1st package
PCI+33E'	SSCC-18 trigger segment
GIN+BJ+SSCC1'	"SSCC1" = SSCC-18 of the 1st carton
LIN+1++ GTIN1 :SRV'	"GTIN1" = GTIN of the article
QTY+12: 1 '	"1" = Dispatch(ed) quantity
RFF+ON: 4711 '	"4711" = Order number (ON) reference
RFF+LI:1'	"1" = Order line-item reference (SCE only)
LIN+2++ GTIN2 :SRV'	"GTIN2" = GTIN of the article
QTY+12: 2 '	"2" = Dispatch(ed) quantity
RFF+ON: 4712 '	"4712" = Order number (ON) reference
RFF+LI:2'	"2" = Order line-item reference (SCE only)
CPS+ 3 +1'	"3" = 2 nd hierarchy, 1 st package (2 nd carton)
PAC+1++CT'	"1" = Number of cartons, 1st package
PCI+33E'	SSCC-18 trigger segment
GIN+BJ+SSCC2'	"SSCC2" = SSCC-18 of the 2 nd carton
LIN+1++ GTIN1 :SRV'	"GTIN1" = GTIN of the article
QTY+12: 1 '	"1" = Dispatch(ed) quantity
RFF+ON: 4711 '	"4711" = Order number (ON) reference
RFF+LI:1'	"1" = Order line-item reference (SCE only)
LIN+2++ GTIN3 :SRV'	"GTIN3" = GTIN of the article
QTY+12: 3 '	"3" = Dispatch(ed) quantity
RFF+ON: 4713 '	"4713" = Order number (ON) reference
RFF+LI:3'	"3" = Order line-item reference (SCE only)
	` '
CPS+ 4 +1'	"4" = 2 nd hierarchy, 2 nd package (3 rd carton)
l —	

PAC+1++CT'

"1" = Number of cartons 2nd package

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PCI+33E'	SSCC-18 trigger segment
GIN+BJ+SSCC3'	"SSCC3" = SSCC-18 of the 3 rd carton
LIN+1++GTIN1:SRV'	"GTIN1" = GTIN of the article
QTY+12: 1 '	"1" = Dispatch(ed) quantity
RFF+ON: 4711 '	"4711" = Order number (ON) reference
RFF+LI:1'	"1" = Order line-item reference (SCE only)
LIN+2++ GTIN2 :SRV'	"GTIN2" = GTIN of the article
QTY+12: 2 '	"2" = Dispatch(ed) quantity
RFF+ON: 4712 '	"4712" = Order number (ON) reference
RFF+LI:2'	"2" = Order line-item reference (SCE only)
CPS+ 5 +1'	"5" = 2 nd hierarchy, 2 nd package (4 th carton)
PAC+1++CT'	"1" = Number of cartons, 2 nd package
PCI+33E'	SSCC-18 trigger segment
GIN+BJ+SSCC4'	"SSCC4" = SSCC-18 of the 4th carton
LIN+1++GTIN1:SRV'	"GTIN1" = GTIN of the article
QTY+12: 1 '	"1" = Dispatch(ed) quantity
RFF+ON: 4711 '	"4711" = Order number (ON) reference
RFF+LI:1'	"1" = Order line-item reference (SCE only)
LIN+2++GTIN3:SRV'	"GTIN3" = GTIN of the article
QTY+12: 3 '	"3" = Dispatch(ed) quantity
RFF+ON: 4713 '	"4713" = Order number (ON) reference
RFF+LI:3'	"3" = Order line-item reference (SCE only)

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8. Allowed character strings for EDI-DESADV

For the transfer of reference numbers, the following regulations must be adhered to:

- > length max. 15 characters
- > letters in capitalization A to Z
- > space
- > comma ","
- > left parenthesis "("
- > diagonal slash "/"

- > no leading zeros
- > figures from 0 to 9
- > full stop "."
- > minus/hyphen "-"
- > right parenthesis ")"
- > equal sign "="

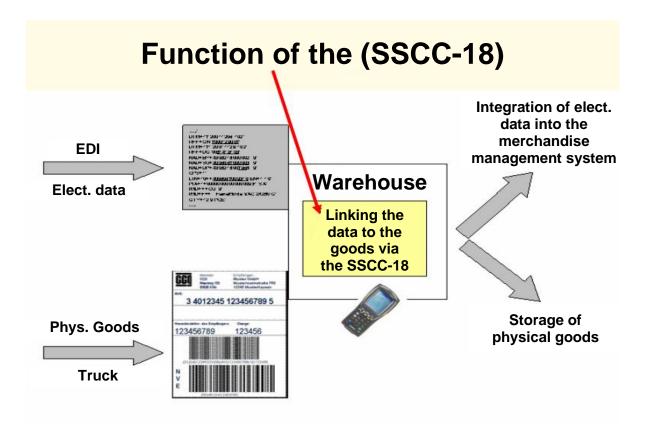
9. Timing for EDI-DESADV transmission

The electronic delivery note serves, among other purposes, to notify MediaMarktSaturn of goods delivered by the supplier. Transmission of the electronic delivery note from the supplier to MediaMarktSaturn's EDI service provider should occur after, or at the time of, despatch and be completed by 05:00 on the day of delivery at the latest. The objective is to enable timely planning of upcoming goods receipts at the store and to avoid any refusal of acceptance.

10. Functionality of SSCC-18/SSCC

By labelling each handling unit with an SSCC and transmitting the same SSCCs in the DESADV, the store can scan the labels on receipt to retrieve the corresponding message and process the delivery correctly.

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11. Structuring of SSCC-18/SSCC

The SSCC-18/SSCC is constructed from the supplier's GLN/ILN base number, a supplier-assigned series of digits, and a check digit.

12. Affixing the SSCC-18/SSCC to the shipping unit

The SSCC-18 (SSCC) must be affixed to the shipping unit as an EAN-128 barcode, together with the wording "SSCC-18" or "SSCC" and the human-readable digits of the code.

For a weld euro-pallet, the SSCC-18/SSCC must be applied **clearly visible from the outside** on the welding sequence.

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Scanning of the SSCC-18 of a pallet consignment

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For packages, the SSCC-18 (SSCC) label must be affixed to each package either adjacent to the shipping label or by using the GS1 universal label developed with KEP (German: Kurier-, Express und Paket; English: courier, express and parcel) service providers.

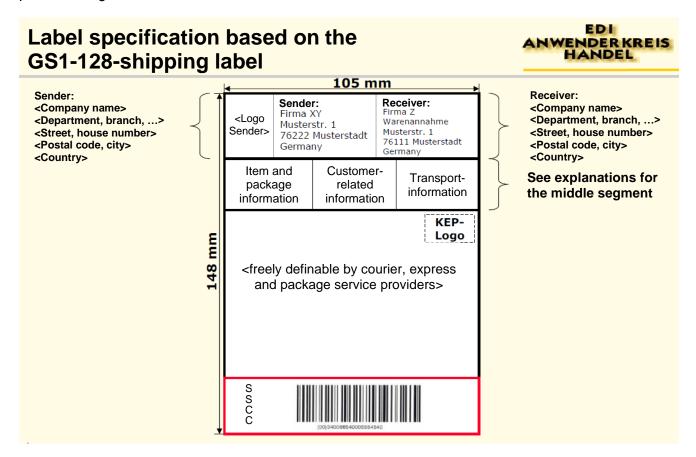


The illustration shows an SSCC-18 (SSCC) shipping label affixed to the top of the carton by the supplier.

FAQs for fixing of shipping label can be found under: http://www.gs1.org/docs/transportlogistics/GS1_STILL.pdf

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Example of a combined shipping label showing the SSCC-18 (SSCC) together with the parcel service provider's logistics information:



http://www.gs1.org/docs/transportlogistics/GS1 STILL.pdf

13. Connection procedure

- The use of EDI-DESADV is governed by an addendum to the EDI-INVOICE agreement between the supplier and MediaMarktSaturn.
- MediaMarktSaturn exchanges EDI messages via the AS2 protocol. Supplier connectivity to the EDI service provider for the DESADV message type is not permitted until an EDI-INVOICE agreement has been concluded and the corresponding electronic invoicing is in place.
- MediaMarktSaturn provides a dedicated EDI contact for each country organisation. Accordingly, the agreement on the use of EDI-DESADV is coordinated locally with the supplier. Validation of sample EDI messages is carried out via the technical service provider of MediaMarktSaturn together with the supplier.
- Following successful testing, MediaMarktSaturn makes pilot stores available to the supplier to verify the reliability of message transmission.

Technology

Upon request, MediaMarktSaturn can provide the supplier with a list of country-level EDI contacts.

14. Source of information EDI-DESADV with SSCC-18/SSCC

Further information on the importance of the electronic despatch advice (DESADV) across retail and industry is available in GS1 standards documentation and related industry guidelines.

http://www.gs1-germany.de/internet/common/files/eEurope_english/desadv/

15. Contact persons of MediaMartktSaturn concerning EDI

You can reach our technical contacts at the following email address:

edi.store.services@mediamarktsaturn.com

Further information regarding EDI@media-saturn and the technical interface description (MIG) can be found on our homepage under:

https://edi.mediamarktsaturn.com/