



SANMINA-SCI

SANMINA-SCI

**EDI OUTBOUND DELFOR MESSAGE
WITH EMBEDDED RELEASE**

VERSION: EDIFICE D97A

Author:	SANMINA-SCI EDI Group
Trading Partner:	All EDI Suppliers
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Version:	3



DOCUMENT REVISION

Revision No.	Date	Person(s) Responsible	Comments
1	06-Feb-02	Iain Wyper	Original document
2	17-Nov-09	Tammy Fleet	Removed references to trading partner ids which are no longer active.
3	03-Oct-11	Tammy Fleet	Added Blanket PO release number for RTF process.



DELFOR

Forecast With Embedded Release

A message which is sent from a party who is planning the use or consumption of products to a party who has a plan for the supply of the products. The message gives the requirements regarding details for short-term delivery and/or medium to long term scheduling for products. The scheduling can be used to authorize manufacturing and/or the provision of materials. This is based on the terms and conditions defined in a purchase order contract.

Header:

<u>Tag</u>	<u>Segment Name</u>	<u>Comments</u>
UNB	INTERCHANGE HEADER	Standard EDIFACT interchange header
UNH	MESSAGE HEADER	Standard EDIFACT message header
BGM	BEGINNING OF MESSAGE	Coded definition & identification of message function
DTM	DATE/TIME/PERIOD	Message timestamp

Segment Group 2

NAD	NAME AND ADDRESS	Identification of buying & selling parties
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Detail:

<u>Tag</u>	<u>Segment Name</u>	<u>Comments</u>
GIS	GENERAL INDICATOR	Indication that delivery point scheduling is used

Segment Group 7

NAD	NAME AND ADDRESS	Identification of the delivery point
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Segment Group 12

LIN	LINE ITEM	Line reference no. & Sanmina-SCI part number
PIA	ADDITIONAL PRODUCT ID	Seller part number

Segment Group 15

QTY	QUANTITY	Cumulative quantity of the all scheduled quantities in the line
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Segment Group 17

SCC	SCHEDULING CONDITIONS	To Specify Scheduling Conditions (Firm or Planned)
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Segment Group 18

QTY	QUANTITY	Scheduled quantity
DTM	DATE/TIME/PERIOD	Date associated with the schedule

Segment Group 19

RFF	REFERENCE	Blanket Purchase Order Number
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Trailer:

<u>Tag</u>	<u>Segment Name</u>	<u>Comments</u>
UNT	MESSAGE TRAILER	Standard EDIFACT message ending
UNZ	INTERCHANGE TRAILER	Standard EDIFACT interchange trailer



UNB INTERCHANGE HEADER

Group: N/A	Ma
Mandatory	Elements: 7

To start, identify and specify an interchange.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
UNB010	S001	SYNTAX IDENTIFIER	M	Comp	
	0001	Syntax identifier	M	A	4/4
		<u>Code</u> UNOA		<u>Name</u> UN/ECE level A	
	0002	Syntax version number	M	N	1/1
		<u>Code</u> 1		<u>Name</u> Version 1	
UNB020	S002	INTERCHANGE SENDER	M	Comp	
	0004	Sender identification		AN	1/35
		<i>Sanmina-SCI's mailbox details are:</i> <i>Production:- SANMINACORP</i> <i>Test:- SANMINACORT</i>			
	0007	Partner identification code qualifier	C	AN	1/4
		<i>Sanmina-SCI's qualifier details are:</i> <i>Production:- 01</i> <i>Test:- ZZ</i>			
	0008	Address for reverse routine	N		
UNB030	S003	INTERCHANGE RECIPIENT	M	Comp	
	0010	Recipient identification	M	AN	1/35
		Supplier's UNB receiver ID			
	0007	Partner identification code qualifier	C	AN	1/4
		Supplier's UNB receiver ID qualifier			
	0014	Routing Address	C	AN	1/14
		Routing address of supplier – if applicable			
UNB040	S004	DATE/TIME OF PREPARATION	M	Comp	
	0017	Date of preparation	M	N	6/6
		Date when the EDI translator generated the ORDERS message. Date format = yymmdd			
	0019	Time of preparation	M	N	4/4
		Time when the EDI translator generated the ORDERS message. Time format = hhnn			



SANMINA - SCI

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
UNB050	0020	INTERCHANGE CONTROL REFERENCE Sanmina-SCI sequentially generated UNB control number.	M	AN	1/14
UNB060	S005	RECIPIENT'S REFERENCE PASSWORD	N	Comp	
UNB070	0026	APPLICATION REFERENCE	C	AN	1/14
UNB080	0029	PROCESSING PRIORITY CODE	N		
UNB090	0031	ACKNOWLEDGEMENT REQUEST	N		
UNB100	0032	COMMUNICATIONS AGREEMENT ID	N		
UNB110	0035	TEST INDICATOR Indication that the interchange is a test. Set to 1 if the interchange is a test. Otherwise not used.	C	N	1

Segment Example:

*UNB+UNOA:1+SANMINACORP:01+SupplierID:SupplierQualifier:SupplierRouting
Address+020712:0935+1++DELFOR'*



UNH MESSAGE HEADER

Group: N/A	Max: 1
Mandatory	Elements: 2

To head, identify and specify a message.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
UNH010	0062	MESSAGE REFERENCE NUMBER Sanmina-SCI sequentially generated message control number. Must match the UNT020 control number.	M	AN	1/14
UNH020	S009	MESSAGE IDENTIFIER	M	Comp	
	0065	Message type identifier	M	AN	1/6
		<u>Code</u> <u>Name</u> DELFOR Delivery Schedule Message			
	0052	Message type version number	M	AN	1/3
		<u>Code</u> <u>Name</u> D Draft			
	0054	Message type release number	M	AN	1/3
		<u>Code</u> <u>Name</u> 97A Release 97A			
	0051	Controlling agency	M	AN	1/2
		<u>Code</u> <u>Name</u> UN UN/ECE/TRADE/WP.4, United Nations Standard Messages (UNSM)			
	0057	Association assigned code	C	AN	1/6
		<u>Code</u> <u>Name</u> EDDF04 Delivery Schedule Message			

Segment Example:

UNH+1+DELFOR:D:97A:UN:EDDF04'



BGM BEGINNING OF MESSAGE

Group: N/A	Max: 1
Mandatory	Elements: 3

To indicate the type and function of a message and to transmit the identifying number.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>				
BGM010	C002	DOCUMENT/MESSAGE NAME	C	Comp					
	1001	Document/message name, coded	C	AN	1/3				
		<table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">241</td> <td style="text-align: center;">Delivery schedule</td> </tr> </table>	<u>Code</u>	<u>Name</u>	241	Delivery schedule			
<u>Code</u>	<u>Name</u>								
241	Delivery schedule								
BGM020	C106	DOCUMENT/MESSAGE IDENTIFICATION	C	Comp					
	1004	Document/message number Sanmina-SCI DELFOR reference number	C	AN	1/35				
BGM030	1225	MESSAGE FUNCTION, CODED	C	AN	1/3				
		<table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">9</td> <td style="text-align: center;">Original</td> </tr> </table>	<u>Code</u>	<u>Name</u>	9	Original			
<u>Code</u>	<u>Name</u>								
9	Original								

Segment Example:

BGM+241+ E55ABCE5520110206221834567+9'



DTM DATE/TIME/PERIOD

Group: N/A	Max: 1
Mandatory	Elements: 1

To specify date, and/or time, or period.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>				
DTM010	C507	DATE/TIME/PERIOD	M	Comp					
	2005	Date/time/period qualifier	M	AN	1/3				
		<table border="0"> <tr> <td style="padding-right: 20px;"><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>137</td> <td>Document/message date/time</td> </tr> </table>	<u>Code</u>	<u>Name</u>	137	Document/message date/time			
<u>Code</u>	<u>Name</u>								
137	Document/message date/time								
	2380	Date/time/period Message Date	C	AN	1/35				
	2379	Date/time/period format qualifier Format of the DTM010:2380 date	C	AN	1/3				
		<table border="0"> <tr> <td style="padding-right: 20px;"><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>102</td> <td>CCYYMMDD</td> </tr> </table>	<u>Code</u>	<u>Name</u>	102	CCYYMMDD			
<u>Code</u>	<u>Name</u>								
102	CCYYMMDD								

Segment Example:

DTM+137:20110207:102'



Segment Group 2

Group: Group 2	Max: 2
Mandatory	Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetition</u>
NAD	NAME AND ADDRESS	Mandatory	1
	Segment Group 4	Optional	1



NAD NAME AND ADDRESS

Group: Group 2	Max: 1
Mandatory	Elements: 2

To specify the name/address and their related function.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
NAD010	3035	Party Qualifier	M	AN	1/3
		<u>Code</u>			
		BY			
		SE			
		<u>Name</u>			
		Buyer			
		Seller			
NAD020	C082	PARTY IDENTIFICATION DETAILS	C	Comp	
	3039	Party id. identification	M	AN	1/35
		Please see note below regarding a list of bill-to and ship-to codes.			
	1131	Code list qualifier	N	AN	1/3
	3055	Code list responsible agency, coded	C	AN	1/3
		<u>Code</u>			
		92			
		<u>Name</u>			
		Assigned by buyer or buyer's agent			

Segment Example:

NAD+BY+ NASSC-PRINCIPAL CO.:92'
NAD+SE+E55ABC.:92'

Use this URL for a complete list of bill-to and ship-to codes used by Sanmina-SCI:

<http://sanmina-sci.com/partners/programs.html>

Scroll to the bottom of the screen and look for PDF document "[Ship to Address Codes](#)".



Segment Group 6

Group: Group 6	Max: 10
Mandatory	Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetitions</u>
GIS	GENERAL INDICATOR	Mandatory	1
	Segment Group 7	Mandatory	1



GIS GENERAL INDICATOR

Group: Group 6	Max: 1
Mandatory	Elements: 1

A segment indicating that the delivery point scheduling method is used.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
GIS010	C529	PROCESSING INDICATOR	M	Comp	
	7365	Processing indicator, coded	M	AN	1/3
		<u>Code</u> ZZZ		<u>Name</u> Delivery point driven scheduling method	

Segment Example:

GIS+ZZZ'



Segment Group 7

Group: Group 7	Max: 1
Mandatory	Elements: NA

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetitions</u>
NAD	NAME AND ADDRESS	Mandatory	1
	Segment Group 12	Mandatory	9999



NAD NAME AND ADDRESS

Group: Group 7	Max: 1
Mandatory	Elements: 2

To specify the name/address and their related function.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
NAD010	3035	Party Qualifier	M	AN	1/3
		<u>Code</u> DP			
		<u>Name</u> Delivery Point			
NAD020	C082	PARTY IDENTIFICATION DETAILS	C	Comp	
	3039	Party id. identification	M	AN	1/35
		Please see note below regarding a list of bill-to and ship-to codes.			
	1131	Code list qualifier	N	AN	1/3
	3055	Code list responsible agency, coded	C	AN	1/3
		<u>Code</u> 92			
		<u>Name</u> Assigned by buyer or buyer's agent			

Segment Example:

NAD+DP+34503::92'

Use this URL for a complete list of bill-to and ship-to codes used by Sanmina-SCI:

<http://sanmina-sci.com/partners/programs.html>

Scroll to the bottom of the screen and look for PDF document "[Ship to Address Codes](#)".



Segment Group 12

Group: Group 12	Max: 9999
Mandatory	Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetitions</u>
LIN	LINE ITEM	Mandatory	1
PIA	ADDITIONAL PRODUCT ID	Optional	1
	Segment Group 15	Mandatory	1
	Segment Group 17	Mandatory	999



LIN LINE ITEM

Group: Group 12	Max: 1
Mandatory	Elements: 2

To identify a line item and configuration.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
LIN010	1082	Line item number Number given to the line within the message. The 1 st line within a message will be numbered 1 and further line items will be incremented by 1 for each new line.	C	AN	1/6
LIN030	C212	ITEM NUMBER IDENTIFICATION	C	Comp	
	7140	Item number <i>Sanmina-SCI's orderable part number</i>	C	AN	1/35
	7143	Item number type, coded	C	AN	1/3
		<u>Code</u> BP		<u>Name</u> Buyer's part number	
	1131	Code list qualifier	N	AN	1/3
	3055	Code list responsible agency, coded	C	AN	1/3
		<u>Code</u> 92		<u>Name</u> Assigned by buyer or buyer's agent	

Segment Example:

LIN+1++ABC000123:BP::92'



PIA ADDITIONAL PRODUCT ID

Group: Group 12	Max: 1
Optional	Elements: 2

To specify additional item identification codes.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>				
PIA010	4347	PRODUCT ID. FUNCTION QUALIFIER	M	AN	1/3				
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>1</td> <td>Additional identification</td> </tr> </table>	<u>Code</u>	<u>Name</u>	1	Additional identification			
<u>Code</u>	<u>Name</u>								
1	Additional identification								
PIA020	C212	ITEM NUMBER IDENTIFICATION	M	Comp					
	7140	Item number Supplier's part number	C	AN	1/35				
	7143	Item number type, coded	C	AN	1/3				
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>VP</td> <td>Vendor's (seller's) part number</td> </tr> </table>	<u>Code</u>	<u>Name</u>	VP	Vendor's (seller's) part number			
<u>Code</u>	<u>Name</u>								
VP	Vendor's (seller's) part number								
	1131	Code list qualifier	N	AN	1/3				
	3055	Code list responsible agency, coded	C	AN	1/3				
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>91</td> <td>Assigned by seller or seller's agent</td> </tr> </table>	<u>Code</u>	<u>Name</u>	91	Assigned by seller or seller's agent			
<u>Code</u>	<u>Name</u>								
91	Assigned by seller or seller's agent								

Segment Example:

PIA+1+ABCD1234:VP::91'



Segment Group 15

Group: Group 15	Max: 1
Mandatory	Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetitions</u>
QTY	QUANTITY	Mandatory	1



QTY QUANTITY

Group: Group 15	Max: 1
Mandatory	Elements: 1

To specify a pertinent quantity.

Sanmina-SCI uses this segment to summarize the total quantity for all of the schedules for the line item.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>				
QTY010	C186	QUANTITY DETAILS	M	Comp					
	6063	Quantity qualifier	M	AN	1/3				
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>3</td> <td>Cumulative Quantity</td> </tr> </table>	<u>Code</u>	<u>Name</u>	3	Cumulative Quantity			
<u>Code</u>	<u>Name</u>								
3	Cumulative Quantity								
	6060	Quantity Total line item quantity	M	N	1/15				
	6411	Measure unit qualifier Unit of measure for the quantity in QTY010:6060	C	AN	1/3				
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>PCE</td> <td>Pieces</td> </tr> </table>	<u>Code</u>	<u>Name</u>	PCE	Pieces			
<u>Code</u>	<u>Name</u>								
PCE	Pieces								

Segment Example:

QTY+3:6000:PCE'



Segment Group 17

Group: Group 17	Max: 999
Mandatory	Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetitions</u>
SCC	SCHEDULING CONDITIONS	Mandatory	1
	Segment Group 18	Mandatory	1



SCC SCHEDULING CONDITIONS

Group: Group 17	Max: 1
Mandatory	Elements: 1

To specify scheduling conditions.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
SCC010	4017	DELIVERY PLAN STATUS INDICATOR, CODED	M	AN	1/3

<u>Code</u>	<u>Name</u>
1	Firm
4	Planning/forecast

Segment Example:

SCC+I'



Segment Group 18

Group: Group 18	Max: 1
Mandatory	Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetition(s)</u>
QTY	QUANTITY	Mandatory	1
DTM	DATE/TIME/PERIOD	Mandatory	2
	Segment Group 19	Conditional	1



QTY QUANTITY

Group: Group 18	Max: 1
Mandatory	Elements: 1

To specify a pertinent quantity.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
QTY010	C186	QUANTITY DETAILS	M	Comp	
	6063	Quantity qualifier	M	AN	1/3
		<u>Code</u> 131		<u>Name</u> Delivery quantity	
	6060	Quantity Number of parts	M	N	1/15
	6411	Measure unit qualifier	M	AN	1/3
		<u>Code</u> PCE		<u>Name</u> Piece(s)	

Segment Example:

QTY+131:3000:PCE'



DTM DATE/TIME/PERIOD

Group: Group 18	Max: 2
Mandatory	Elements: 1

To specify date, and/or time, or period.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
DTM010	C507	DATE/TIME/PERIOD	M	Comp	
	2005	Date/time/period qualifier	M	AN	1/3
		<u>Code</u>			
		2			Delivery date, requested
		158			Horizon start date
		159			Horizon end date
	2380	Date/time/period Qualified date	C	AN	1/35
	2379	Date/time/period format qualifier	C	AN	1/3
		<u>Code</u>			
		102			CCYYMMDD

Segment Example:

DTM+2:20110206:102'



Segment Group 19

Group: Group 19	Max: 1
Conditional	Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetition(s)</u>
RFF	REFERENCE	Mandatory	1



RFF REFERENCE

Group: Group 19	Max: 1
Mandatory	Elements: 1

Used in order to specify a Blanket PO Number and Release Number for the firm release. Only included when there is a schedule with firm demand.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
RFF010	C506	REFERENCE	M	Comp	
	1153	Reference qualifier	M	AN	1/3
		<u>Code</u> ON		<u>Name</u> Purchase Order Number	
	1154	Reference number	M	N	1/35
		PO number against which firm demand will be called-off and used by seller for invoicing.			
		<i>For Blanket Release POs the release number will be concatenated to the PO Number with a dash..</i>			

Segment Example:

PO-Release # Concatenated:
RFF+ON:B550001234-5'



UNT MESSAGE TRAILER

Group: N/A	Max: 1
Mandatory	Elements: 2

To end and check the completeness of a message.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
UNT010	0074	NUMBER OF SEGMENTS IN A MESSAGE Generated automatically, this is the count of the number of segments in the message (including UNH through UNT segments)	M	N	1/6
UNT020	0062	MESSAGE REFERENCE NUMBER Must match the UNH control number.	M	AN	1/14

Segment Example:

UNT+22+3687'



UNZ INTERCHANGE TRAILER

Group: N/A	Max: 1
Mandatory	Elements: 2

To end and check the completeness of an interchange.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
UNZ010	0036	INTERCHANGE CONTROL COUNT This is the number of messages (i.e. UNH segments) in the current envelope.	M	N	1/6
UNZ020	0020	INTERCHANGE CONTROL REFERENCE Must match the ICN from the UNB segment at the start of the envelope.	M	AN	1/14

Segment Example:

UNZ+1+482'



APPENDIX A – Example of Planning Forecast with Embedded Release

Sanmina-SCI provides to seller a regular net planning forecast, against which the seller manufactures goods ready for shipment. Actual deliveries are released based on firm call-off requirements included alongside the delivery forecast information.

The forecast will be weekly and the requirement includes the firm short-term deliveries.

UNH+1+DELFOR:D:97A:UN:EDDF04'
BGM+241+ E55ABCE5520110206221834567+9'
DTM+137:20110207:102'
NAD+BY+NASSC-PRINCIPAL CO::92'
NAD+SE+E55ABC::92'
GIS+ZZZ'
NAD+DP+34503::92'
LIN+1++ABC000123:BP::92'
PIA+1+ABCD1234:VP::91'
QTY+3:1500:PCE'
SCC+1'
QTY+131:500:PCE'
DTM+2:20110206:102'
RFF+ON:B550001234-5'
SCC+4'
QTY+131:500:PCE'
DTM+158:20110210:102'
DTM+159:20110215:102'
SCC+4'
QTY+131:500:PCE'
DTM+158:20110218:102'
DTM+159:20110222:102'
UNT+23+1'