Service Design Organization - Supply Line Management

EDI Implementation Guidelines

CHANGE SHEET			
DESCRIPTION OF CHANGE			
REVISION DATE	SECTION	CHANGE INITIATOR	DESCRIPTION
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1.0 Purpose
This document's main objective is to state the requirements related to implementing Electronic Data Interchange (EDI) between the Peachtree and ELC groups of NCR and a supplier.

2.0 Scope
This process is to assist the supplier with the implementation of EDI with Peachtree/ELC.

3.0 Definitions
EDI - Electronic Data Interchange
810 – Invoice (Inbound-Billing for goods & services provided by supplier.)
850 – Purchase Order (Outbound-Placement of purchase order to supplier.)
855 – Purchase Order Acknowledgement (Inbound-Acknowledgement that is sent by supplier after the supplier's application has processed the purchase order. This transaction can contain any changes made by the supplier to original purchase order.)
856 – Ship Notice/Manifest (Inbound- Supplier ship notification and shipping information. This information is used to close the purchase order.)
861 – Receiving Advice/Acceptance Certificate (Inbound-Notification of receipt or formal acceptance of defective items by the supplier.)
997 - Functional Acceptance Acknowledgement (System generated notification that an EDI transaction was received by NCR's or Supplier's EDI translator and sent before the business application processes the documents.)

4.0 Electronic Data Interchange (EDI)
The electronic data interchange (EDI) allows documents to be transferred between business partners in a standard format (ANSI X12).

5.0 Implementation Steps
The following is a high level view of the steps that must be performed to implement EDI with Peachtree/ELC.

1. Supplier Manager contacts the supplier.
2. Once agreement between Supplier Manager and supplier has been reached concerning implementing EDI, the Supplier Manager will turn the implementation process over to the eProcurement Business Coordinator.
3. Supplier will select the communication transport type (VAN or Internet).
4. Once the supplier is ready, the eProcurement Business Coordinator and ITS-Dayton will perform the Connectivity testing. This test consists of ITS-Dayton sending a test 850 to the supplier and the supplier returning a 997, 855, 856, 810 and 861 (if required).
5. After the connectivity testing has been completed, the testing is turned over to the Full Cycle test team.
6. Once the Full Cycle testing has been completed, the eProcurement Business Coordinator will have the supplier's profile changed to EDI in Oracle.
7. The eProcurement Business Coordinator will monitor the transactions for two weeks after turn on.

NOTE: If the supplier is on the Pitch & Catch report, they will start sending counts for the 850, 856, 861, and 810 to the eProcurement Business Coordinator.

6.0 Present EDI Transactions

The following is a list containing the suite of transactions (and definitions) that is presently being used by Peachtree and ELC.

NOTE: Transaction 850 (PO) is the only transaction that is sent from Peachtree and ELC.

Transaction Number	Transaction Name	Transaction Definition	Sent from Peachtree/ELC to Supplier	Sent from Supplier to Peachtree/ELC
810	Invoice	Billing for goods & services provided by supplier.		✓ (Inbound)
850	**Purchase Order**	**Placement of purchase order to supplier.**	✓ (Outbound)	
855	Purchase Order Acknowledgement	Acknowledgement that is sent by supplier after the supplier's application has **processed** the PO. This transaction can contain any changes made by the supplier to original PO.		✓ (Inbound)
856	Ship Notice/Manifest	Supplier ship notification & shipping information. This information is used to close the PO.		✓ (Inbound)
861	Receiving Advice/Acceptance Certificate	Notification of receipt or formal acceptance by the supplier of defective items.		✓ (Inbound)
997	Functional Acceptance Acknowledgement	• System generated notification that the PO was received by the supplier's translator, before the supplier's application processes the PO. • System generated notification that the 855, 856, 810, or 861 was received by NCR's EDI translator, before NCR's application processes these documents. (Outbound from NCR EDI system to supplier)		✓ (Inbound)

7.0 EDI HUB (ITS-Dayton) Set-up

GSL-PDRC currently uses the 3070 version of the ANSI X12 standard for 850s, the 997 that is returned for the 850 should also be version 3070. All transactions inbound to NCR must be the 3020 version. The 997 that is returned for the 855, 856, 810, and 861 transactions will be verision 3020.

Translation Software:	Sterling-Gentran
VANS:	• **Global Exchange Services** • **Easy Link** • **Sterling Information Broker**
File Transfer Protocol (FTP):	**FTP over Internet**

NCR EDI Internet File Transfer Procedures:

NCR has the ability to send EDI files via an internal process, Customer Transfer Services, to an NCR server that resides outside our firewall. Each vendor has specific directory/sub-directories on this server that can only be accessed by an NCR assigned login and password. NCR would send you files that would be placed in a "rcv" sub-directory under a main edi directory. Your process would need to pick up those files and then remove them from the "rcv" sub-directory. You would then place your outbound files in the "snd" sub-directory. Our process would pick up those files and remove them from the "snd" sub-directory. To initiate this process, EDI requests the required login and directory setups from the Customer Transfer Service team and once those are completed, testing can begin.

The section below provides additional detail. Questions can be addressed to our EDI mailbox:
mailto:ES200015@exchange.DAYTONOH.NCR.com

Additional setup information

- Use the following name for connectivity: **ctsfep.ncr.com (192.127.252.230)**
- A login and password will be provided to you once our setups have been completed.
- Under your login directory, there will be an "edi" sub-directory. Under the "edi" directory there will be three sub-directories: "wrk", "snd" and "rcv".
- If you are picking up files from our system, you will find them in the "rcv" directory.
- For sending files to us, your process must use one of the following two methods:

Method 1. Copy the file(s) to the "edi/wrk" directory, 'chmod' to 644, then move the file(s) to the "edi/snd" directory

Method 2. Copy the file to the "edi/snd" directory with a .wrk extension and then remove the .wrk extension when the file copy has completed. We do not pickup files with .wrk extensions. This ensures that our file transfer service will not pick up incomplete files.

File naming convention from NCR:
OUTsssssss.INT
sssssssss = 7 character unique code that changes for each file
Example: OUT12A4567.INT
The same convention will be used for all transactions sent by NCR.

Recommended file naming convention from supplier:
63*suppliername*.i.ssssssss.mmddyyyyhhmm
ssssssss = 8 digit number that is incremented by 1 for each new file name
Example:
63abcsupply.i.00000001.051820011103 (first file)
63abcsupply.i.00000002.051820011215 (second file)
Other naming conventions may be accepted but must include a unique file identifier.

Specific "suppliername" will be determined during connectivity setup.

File Receipt Verification
It is expected that both NCR and its suppliers will use the X12 997 Functional Acknowledgment to verify the receipt of EDI documents by the respective receiving system.

8.0 ANSI X12 Guidelines & Sample Transactions

850 Purchase Order, ANSI X12, version 3070

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (rec., field)	NCR Values
ST		**Y**		**Transaction Set Header**				
ST01	143	Y	ID	Transaction Set ID	3	3		'850'
ST02	329	Y	AN	Transaction Set Control #	4	9		
BEG		**Y**		**Beginning Segment for PO**				
BEG01	353	Y	ID	Trans. Set Purpose Code	2	2	1,2	'00' Original, '06' Confirming
BEG02	92	Y	ID	PO Type Code	2	2	1,3	RR' Repair and Return, 'NE' New Order
BEG03	324	Y	AN	PO Number	1	22	1,1	PO Number
BEG04	328	O	AN	Release Number	1	18	1,1	PO Release Number
BEG05	373	Y	DT	PO Date	6	6	1,4	Date Issued YYMMDD
BEG06	367	N	AN	Contract Number	1	30	1,5	NCR Contract Number
BEG07	587	Y	ID	Acknowledgment Type	2	2	1,6	'AE' Ack. with exception detail
TAX		**Y**		**Tax Reference**				
TAX01	325	Y	AN	Tax ID Number	1	20	5,1	Buyer's Tax ID Number
TAX12	441	N	ID	Tax Exempt Code	1	1	5,2	
Begin N9 Loop 1000 times								
N9		**Y**		**Reference Identification**				
N901	128	Y	ID	Reference Identification	3		22,1	'ZZ' Mutually Defined
N903	369	Y	AN	Free-Form Description	18			Translator - 'See Comments Below"
MSG		**Y**		**Message Text**				
MSG01	933	Y	AN	Free-form Message Text	264		22,2	Purchase Order Comments
End N9 Loop								
Begin N1 Loop 200 times								
N1		**Y**		**Name**				
N101	98	Y	AN	Entity Identifier Code	2	3	15,1	'BY' Buying Party
N102	93	Y	AN	Name	1	60	15,2	Plant Name
N103	66	Y	ID	ID Code Identification	1	2	15,3	'9' DUNS + 4
N104	67	Y	AN	ID Code Identification	2	20	15,4	DUNS Number + 4 Digits
PER		**Y**		**Administrative Communications**				
PER01	366	Y	ID	Contact Function Code ID	2	2	21,1	'BD' (Buyer's Name)
PER02	93	Y	AN	Name	1	60	21,2	Buyer's Namese
PER03	365	Y	ID	Communication Number Qualifier	2	2	21,3	'TE' -Telephone
PER04	364	Y	AN	Communication Numb	1	80	21,4	Area Code and Number
End N1 Loop								

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (rec., field)	NCR Values
Start PO1 Loop 100,000 times								
PO1		**Y**		**PO Baseline Data**				
PO101	350	Y	AN	Assigned Identifier	1	20	30,1	'01'-'99999' PO Line Item #
PO102	330	Y	R	Quantity Ordered	1	9	30,2	Quantity
PO103	355	Y	ID	Unit or Basis Form For M	2	2	30,3	Unit of Measure
PO104	212	Y	R	Unit Price	1	17	30,4	Price per Unit
PO106	235	Y	ID	Product/Service ID	2	2	30,5	'BP' Buyer's Part Number
PO107	234	Y	AN	Product/Service ID	1	48	30,6	NCR Part Number
PO108	235	N	ID	Product/Service ID	2	2	30,7	'EC' Engineering Change Level
PO109	234	N	AN	Product/Service ID	1	48	30,8	NCR Revision #
PO110	235	Y	ID	Product/Service ID	2	2	30,9	'VP' Vendor's Part Number
PO111	234	Y	AN	Product/Service ID	1	48	30,10	Supplier's Part Number

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (rec., field)	NCR Values
Begin P01:N1: Loop: 200 times								
N1		**Y**		**Name**				
N101	98	Y	ID	Entity Identifier Code	2	3	61,1	'ST' Ship to Org.
N102	93	Y	AN	Name	1	60	61,2	Plant Name
N103	66	Y	ID	ID Code Qualifier	1	2	61,3	'9' DUNS + 4
N104	67	Y	AN	ID Code	2	20	61,4	DUNS Number + 4 Digits
N3		**Y**		**Address Information – Max 2 usage**				
N301	166	Y	AN	Address Information	1	55	63,1	Additional address information for ship to.
N302	166	Y	AN	Address Information	1	55	63,2	Additional address information for ship to.
N301	166	Y	AN	Address Information	1	55	63,1	Additional address information for ship to.
N302	166	Y	AN	Address Information	1	55	63,2	Additional address information for ship to.
N4		**Y**		**Geographic Location**				
N401	19	Y	AN	City Name	2	30	64,1	Ship to city
N402	156	Y	ID	State or Province Code	2	2	64,2	Ship to state or province
N403	116	Y	ID	Postal Code	3	15	64,3	Postal zone code, excl. punct. and blanks
N404	26	Y	ID	Country Code	2	3	64,4	Ship to country
N405	309	Y	ID	Location Qualifier	1	2	64,5	'DC' Distribution Center Number
N406	310	Y	AN	Location Identifier	1	30	64,6	ID # of the distribution center (Ship-to)
Begin REF Loop 12 times								
REF		**Y**		**Reference Numbers**				
REF01	128	Y	AN	Reference Identification	2	3	67,1	'CO' Cust. Order #, 'VR' Vendor ID #, 'PH' Priority Rating, 'IL' Internal Order(CSPO), 'EI' Emp. ID (for FE's), 'BY' Repair Cat., 'MR' Merchandise Type Code, 'SI' Shipper's Identifying # for Shipment (SID)
REF02	127	Y	AN	Reference Identification	1	30	67,2	
End REF Loop								

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (rec., field)	NCR Values
PER		Y		**Administrative Communications**				
PER01	366	Y	ID	Contact Function Code	2	2	68,1	'CF' Customer Engineer 'NT' Notification Contact
PER02	93	Y	AN	Name	1	60	68,2	Customer Engineer; Contact Name
PER03	365	Y	AN	Communication Number Qualifier	2	2	68,3	'TE' - Telephone
PER04	364	Y	AN	Communication Number	1	80	68,4	Telephone Number
SCH		Y		**Line Item Schedule**				
SCH01	380	Y	R	Quantity or Basis Form	1	15	70,1	Quantity
SCH02	355	Y	ID	Unit of Measure Code	2	2	70,2	Unit of Measure
SCH05	374	Y	ID	Date /Time Qualifier	3	3	70,3	'002' Delivery Requested
SCH06	373	Y	DT	Date	6	6	70,4	Delivery Date
TD5		Y		**Carrier Detail**				
TD501	133	N	ID	Routing Sequence Code	1	2	72,8	
TD502	66	Y	ID	ID Code Qualifier	1	2	72,1	'2' SCAC Code
TD503	67	Y	AN	ID Code	2	20	72,2	SCAC Code
TD504	91	N	ID	Transportation Meth	1	2	72,3	
TD507	309	N	ID	Location Qualifier	1	2	72,4	
TD508	310	N	AN	Location Identifier	1	30	72,5	
TD510	732	N	ID	Transit Time Direct	2	2	72,6	
TD511	733	N	R	Transit Time	1	4	72,7	
End N1 Loop								
CTT		Y		**Transaction Totals**				
CTT01	354	Y	NO	Number of Line Items	1	6		Translator
CTT02	347	Y	R	Hash Total	1	10		Translator
AMT		Y		**Monetary Amount**				
AMT01	522	Y	ID	Amount Qualifier Code	1	2	99,1	'TP' Total Payment Amount
AMT02	782	Y	R	Monetary Amount	1	15	99,2	Total Dollar Value of PO
SE		Y		**Transaction Set Trailer**				
SE01	96	Y	NO	# of Included Segments	1	6		Translator
SE02	329	Y	AN	Transaction Set Control #	4	9		Translator

NOTE: The purchase order (850) will be a standard PO with one of the following formats:
- One PO1 line with one Shipper's Identifying Number for Shipment (SI)
- One PO1 line with multi Shipper's Identifying Number for Shipment (SI) (can be up to 600 SI Numbers)
  - When there are multi Shipper's Identifying Number for Shipment (SI), there will be one part number with multi sale order numbers.
- The 850 can have two N3 lines.

Sample 850 -

```
BEG*00*NE*2475995**041102**AE~
TAX*056-43-00860-1~
N9*ZZ**See Comments Below~
MSG*No Notes Added~
N1*BY*NCR CORPORATION*9*001316090-0063~
PER*BD*HEAD, PHILLIP~
PO1*1*6*EA*56**BP*0141002083~
N1*ST*NCR WEST REGION*9*001316090-0063~
N3*NCR C/O FEDERAL EXPRESS*1705 W ARGENT RD/ROB MCLANE~
N3*1-818-736-4678 OPTION 8*HFPU MF 0900/ S 1030~
N4*PASCO*WA*99301*US*DC*07748060~
REF*SI*1~
REF*VR*1200000159~
REF*IL*11294339~
REF*CO*98824970~
REF*EI*E774113196~
REF*PH*REGULAR~
REF*BY*0~
REF*MR*I~
PER*CF*M92 McLane, Rob~
PER*NT*LOGISTICS ASSOCIATE*TE*818-736-4678OPT8~
SCH*1*EA***002*041109~
TD5**2*FDE~
N1*ST*NCR MIDWEST REGION*9*001316090-0063~
N3*NCR C/O FEDERAL EXPRESS*1914 TRIALON CT~
N3*1-937-445-0675 OPTION 8*HFPU MF 0900/ S 0930~
N4*KOKOMO*IN*46901*US*DC*05468200~
REF*SI*2~
REF*VR*1200000159~
REF*IL*11292531~
REF*CO*26048878~
REF*EI*E546201223~
REF*PH*REGULAR~
REF*BY*0~
REF*MR*I~
PER*CF*K26 Denny Greg~
PER*NT*LOGISTICS ASSOCIATE*TE*937-445-0675OPT8~
SCH*1*EA***002*041109~
TD5**2*FDE~
N1*ST*NCR MIDWEST REGION*9*001316090-0063~
N3*NCR C/O UPS LOGISTICS*55 ANDREWS CIRCLE~
N4*BRECKSVILLE*OH*44141*US*DC*05010000~
REF*SI*3~
REF*VR*1200000159~
REF*IL*11290446~
REF*CO*26047817~
REF*EI*L501000000~
REF*PH*REGULAR~
REF*BY*0~
REF*MR*I~
PER*CF*NCR MIDWEST REGION~
PER*NT*LOGISTICS ASSOCIATE*TE*937-445-0675OPT8~
SCH*1*EA***002*041109~
TD5**2*AIRB~
N1*ST*NCR MIDWEST REGION*9*001316090-0063~
N3*NCR C/O UPS LOGISTICS*55 ANDREWS CIRCLE~
N4*BRECKSVILLE*OH*44141*US*DC*05010000~
REF*SI*4~
```

```
REF*VR*1200000159~
REF*IL*11290451~
REF*CO*26047818~
REF*EI*L501000000~
REF*PH*REGULAR~
REF*BY*0~
REF*MR*I~
PER*CF*NCR MIDWEST REGION~
PER*NT*LOGISTICS ASSOCIATE*TE*937-445-0675OPT8~
SCH*1*EA***002*041109~
TD5**2*AIRB~
N1*ST*NCR WEST REGION*9*001316090-0063~
N3*NCR C/O UPS LG*2826 WILLIS ST~
N4*SANTA ANA*CA*92705*US*DC*07710000~
REF*SI*5~
REF*VR*1200000159~
REF*IL*11291549~
REF*CO*98823769~
REF*EI*L771000000~
REF*PH*REGULAR~
REF*BY*0~
REF*MR*I~
PER*CF*NCR WEST REGION~
PER*NT*LOGISTICS ASSOCIATE*TE*818-736-4678OPT8~
SCH*1*EA***002*041109~
TD5**2*AIRB~
N1*ST*NCR MIDWEST REGION*9*001316090-0063~
N3*NCR C/O FEDERAL EXPRESS*6955 ENGEL ROAD~
N3*1-937-445-0675 OPTION 8*HFPU MF 0830/ S 0900~
N4*MIDDLEBURG HEIGHTS*OH*44130*US*DC*05148004~
REF*SI*6~
REF*VR*1200000159~
REF*IL*11291841~
REF*CO*26048704~
REF*EI*E257101436~
REF*PH*REGULAR~
REF*BY*0~
REF*MR*I~
PER*CF*D16 Prochko, Larry~
PER*NT*LOGISTICS ASSOCIATE*TE*937-445-0675OPT8~
SCH*1*EA***002*041109~
TD5**2*FDE~
CTT*1*6~
AMT*TP*336~
```

NOTE if the carrier is Sonic:

The Sonic Job # follows the NFO:
REF*EI* Exxxxxxxxx NFO: xxxxxxx
(for orders with an employee ID and a Sonic Job #)
REF*EI* NFO: xxxxxxx
(for orders without an employee ID, but with a Sonic Job #)

855 Purchase Order Acknowledgment, ANSI X12, version 3020

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	Definition/Values
ST		Y		**Transaction Set Header**				
ST01	143	Y	ID	Transaction Set ID	3	3		'855'
ST02	329	Y	AN	Transaction Set Control Number	4	9		
BAK		Y		**Beginning Segment for PO Acknowledgment**				
BAK01	353	Y	ID	Trans. Set Purpose Code	2	2	1,2	This code identifies the purpose of the transaction. 00 (original purchase order) and 06 (confirming).
BAK02	587	Y	ID	Acknowledgment Type	2	2	1,3	This identifies the type of acknowledgment required from the supplier. NA (no acknowledgment needed) and AE (acknowledgment with exception detail required).
BAK03	324	Y	AN	PO Number	1	40	1,1	This is the identification number for the purchase order assigned by NCR.
BAK04	323	Y	DT	PO Date	6	6	1,4	This is the date the purchase order was issued by NCR. YYMMDD
BAK05	328	N	AN	Release Number	1	30	1,6	PO Release Number
BAK09	588	N	DT	Acknowledgment Date	6	6	1,5	Date assigned by the sender to the acknowledgement. YYMMDD
PER		Y		**Administrative Communications**				
PER01	366	Y	ID	Contact Function Code	2	2	3,1	This code indicates that data element 93 contains the buyer's name. BD (buyer's name).
PER02	93	Y	AN	Name	1	35	3,2	This is the buyer's name.
Begin PO1 Loop, 100000 times								
PO1		Y		**Purchase Order Baseline Item Data**				
PO101	350	Y	AN	Assigned Identification	1	11	4,1	This is the line item number.
PO102	330	Y	R	Quantity Ordered	1	9	4,2	This is the numeric quantity ordered on this line.
PO103	355	Y	ID	Unit of Measurement Code	2	2	4,3	This identifies the unit of measurement for this line item.
PO104	212	Y	R	Unit Price	1	14	4,4	This is the price per unit of the product, service or commodity ordered on this line.
PO105	639	N	ID	Basis of Unit Price Code	2	2	4,5	Code identifying the type of unit price for an item.
PO106	235	Y	ID	Product/Service ID Qualifier.	2	2	5,1	This code indicates that the next data element (234) contains the NCR part number. BP (buyer's part).
PO107	234	Y	AN	Product/Service ID	1	25	5,2	This identifies the specific part being ordered. The NCR part number is used as the product ID, and is transmitted as it appears on NCR's engineering specifications.
PO108	235	N	ID	Product/Service ID Qualifier.	2	2	5,3	This code indicates that the next data element (234) contains the NCR revision number. The only value used by NCR is EC (engineering change level).
PO109	234	N	AN	Product/Service ID	1	25	5,4	This identifies the specific part being ordered. The revision number is used as the product ID.

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	Definition/Values
PO110	235	Y	ID	Product/Service ID Qualifier.	2	2	6,1	This code indicates that the next data element (234) contains the supplier's part number. The only value used by NCR is VP (vendor's part number).
PO111	234	Y	AN	Product/Service ID	1	25	6,2	This identifies the specific part being forecasted. The supplier's part number is used as the product ID. This number is for reference only unless there is no NCR part number.
PO112	235	N	ID	Product/Service ID Qualifier.	2	2	6,3	This code indicates that the next data element (234) contains the supplier's part number. The only value used by NCR is VP (vendor's part number).
PO113	234	N	AN	Product/Service ID	1	25	6,4	This identifies the specific part being forecasted. The supplier's part number is used as the product ID. This number is for reference only unless there is no NCR part number.

Begin ACK Loop, 104 times								
ACK		Y		**Line Item Acknowledgment**				
ACK01	668	Y	ID	Line Item Status Code	2	2	9,1	Code specifying the action taken by the seller on a line item requested by the buyer.
ACK02	380	Y	R	Quantity	1	15	9,2	This is the quantity required on the delivery date specified in data element 373. In this record, it is the line item quantity.
ACK03	355	Y	ID	Unit of Measurement Code	2	2	9,3	This is the unit of measurement for the quantity required on this delivery date.
ACK04	374	Y	ID	Date/Time Qualifier	3	3	9,4	This is the code specifying the type of date and/or time entered in data element 373. 002 (delivery requested).
ACK05	373	Y	DT	Date	6	6	9,5	This is the delivery date for the items in this iteration of record 08. YYMMDD
ACK06	326	Y	AN	Request Reference Number	1	45	9,6	Shipper's Identifying Number for Shipment (SID) from the PO (sent in the REF segment with qualifier SI)

CTT		Y		**Transaction Totals**				
CTT01	354	Y	N0	Number of Line Items	1	6	7,1	Total number of line items in the transaction set. Translator can generate this.

SE		Y		**Transaction Set Trailer**				Translator
SE01	96	Y	NO	Number of Included Segments	1	6		Translator
SE02	329	Y	AN	Transaction Set Control Number	4	9		

Sample 855 – Purchase Order Acknowledgement

```
ST*855*465790007
BAK*00*AE*2513046*050110
NTE**ACCEPT
PER*BD*DEMOND DIAN
PO1*1*10*EA*549**BP*8770152718***VP*8770152718
ACK*IA*10*EA*002*050214*1    (See below chart for status codes)
CTT*1
SE*8*465790007
```

Segment BAK02, element 587

Code	Description
AC	Acknowledge – with details & change
AD	Acknowledge – with details, no changes
AE	Acknowledge - with exception, detail required
RD	Reject with details

Segment ACK, element 668

855 Line Item Status Codes	
Status Code	**Description**
AC	Item Accepted and Shipped
DR	Item Accepted - Date Rescheduled
IA	Item Accepted
IP	Item Accepted - Price Changed
IQ	Item Accepted - Quantity Changed
IR	Item Rejected
IS	Item Accepted - Substitution Made

856 Ship Notice/Manifest, ANSI X12, version 3020

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	NCR Values
ST		**Y**		**Transaction Set Header**				
ST01	143	Y	ID	Transaction Set ID	3	3		'856'
ST02	329	Y	AN	Transaction Set Control Number	4	9		
BSN		**Y**		**Beginning Segment for Ship Notice**				
BSN01	353	Y	AN	Trans. Set Purpose	2	2	1,1	Code identifying purpose of transaction set. '00' - Original
BSN02	396	Y	AN	Shipment ID	2	30	1,2	A unique control number assigned by the original shipper to identify a specific shipment.
BSN03	373	Y	DT	Date	6	6	1,3	YYMMDD (Ship Date)
BSN04	337	Y	TM	Time	4	6	1,4	Time of shipment. HHMM
Begin HL Loop 200000 times								
HL		**Y**		**Hierarchical Level**				
HL01	628	Y	AN	Hierarchical ID Number	1	12	4,1	A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.
HL02	734	Y	AN	Hierarchical Parent ID Number	1	12	4.2	Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.
HL03	735	Y	ID	Hierarchical Level Code	1	2	4,3	Code defining the characteristic of a level in a hierarchical structure. I-Item, O-Order, S-Shipment
HL04	736	N	ID	Hierarchical Child Code	1	1	4,4	Code indicating whether if there are hierarchical child data segments subordinate to the level being described.
LIN		**Y**		**Item Identification**				
LIN01	350	Y	AN	Assigned ID	1	11	5,1	Alphanumeric characters assigned for differentiation within a transaction set (i.e., line item number).
LIN02	235	Y	ID	Product ID Qualifier	2	2	5,2	"VP" and "BP"
LIN03	234	Y	AN	Product ID	1	30	5,3	Vendor's Part Number and Buyer's Part Number
LIN04	235	Y	ID	Product ID Qualifier	2	2	5,4	"RP" and "VP"
LIN05	234	Y	AN	Product ID	1	30	5,5	Replaced Part Number; Vendor's Part Number
SN1		**Y**		**Item Detail (Shipment)**				
SN102	382	Y	R	Number of Units Shipped	1	10	9,1	Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.
SN103	355	Y	ID	Unit of Measurement Code	2	2	9,2	This is the unit of measurement for the quantity required on this delivery date.
PRF		**Y**		**Purchase Order Reference**				
PRF01	324	Y	AN	Purchase Order Number	1	22	14,1	Identifying number for the purchase order assigned by NCR.
PRF02	328	N	AN	Release Number	1	30	14,3	Number identifying a release against a Purchase Order previously placed by the parties
PRF04	323	N	DT	Purchase Order Date	6	6	14,2	This is the date assigned by the purchaser to the Purchase Order. YYMMDD

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	NCR Values
TD5		**Y**		**Carrier Details**				
TD502	66	Y	ID	ID Code Qualifier	1	2	21,1	'2' SCAC Code
TD503	67	Y	AN	ID Code	2	17	21,2	SCAC Code (Carrier Code)
TD505	387	Y	AN	Routing	1	35	21,3	Free-form description of the routing or requested routing for shipment, or the originating carrier's identity.
REF		**Y**		**Reference Numbers**				
REF01	128	Y	ID	Reference Number Qualifier	2	2	24,1	"BM"- Bill of Lading Number, "IL" Internal Order Number, "SE", "SI"- Shipper's Identifying Number for Shipment (SID) from the PO (sent in the REF segment with qualifier SI).
REF02	127	Y	N	Reference Number	1	30	24,2	Bill of Lading Number, Internal Order Number, Shipper's Identifying Number for Shipment.
Start N1 Loop 200 times								
N1		**Y**		**Name**				
N101	98	Y	ID	Entity Identifier Code	2	2	32,1	Code identifying an organization entity or a physical location.
N102	93	Y	AN	Name	1	35	32,2	This is the addressee.
N2		**Y**		**Additional Name Information**				
N201	93	Y	AN	Name	1	35	33,1	This is the address.
N202	93	Y	AN	Name	1	35	33,2	This is the address.
N3		**Y**		**Address Information**				
N301	166	Y	AN	Address Information	1	35	34,1	This is the address.
N302	166	Y	AN	Address Information	1	35	34,2	This is the address.
N4		**Y**		**Geographic Location**				
N401	19	Y	AN	City Name	2	19	35,1	Free form text for city name.
N402	156	Y	ID	State or Province Code	2	2	35,2	Code to represent the city.
N403	116	Y	ID	Postal Code	4	9	35,3	This is the zip code.
N404	26	Y	ID	Country Code	2	2	35,4	Code identifying the county. Address information.
N405	309	Y	ID	Location Qualifier	1	2	35,5	This code identifies the type of location in data element 310. The value of this code is DC (distribution center number).
N406	310	Y	AN	Location Identifier	1	25	35,6	This is the identifying number of the distribution center.
End N1/HL Loop								

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	NCR Values
CTT		**Y**		**Transaction Totals**				
CTT01	354	Y	NO	Number of Line Items	1	6	50,1	Total number of line items in the transaction set. Translator

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	NCR Values
SE		**Y**		**Transaction Set Trailer**				
SE01	96	Y	NO	Number of Included Segments	1	6		Translator
SE02	329	Y	AN	Transaction Set Control Number	4	9		Translator

Sample 856 – Advance Ship Notice

ST*856*465780009
BSN*00*87226001*040915*0903
HL*1**S
TD5**2*AIRB**ABS
REF*BM*08553086791
N1*ST*NCR CORPORATION 9323
N2*LOGISTICS ASSOCIATE:800-838-7278
N3*300 N CORPORATE DRIVE*C/O PARTS DEPARTMENTS SUITE 150
N4*BROOKFIELD*WI*53005*US*DC*04548000
HL*2*1*O
PRF*2440858
HL*3*2*I
LIN*1*VP*MEM900493-005*RP*8770023717
SN1**1*EA
REF*SI*1
REF*IL*1724425   **(Not required if not on PO)**
CTT*1
SE*18*465780009

NOTE: The REF*BM number must NOT contain alpha characters, it must be a numeric value ONLY.

810 Invoice, ANSI X12, Version 3020

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	NCR Values
ST		**Y**		**Transaction Set Header**				
ST01	143	Y	ID	Transaction Set ID	3	3		'810'
ST02	329	Y	AN	Transaction Set Control Number	4	9		
BIG		**Y**		**Beginning Segment for Invoice**				
BIG01	245	Y	DT	Invoice Date	6	6	1,3	This is the date the invoice was issued by the supplier. YYMMDD
BIG02	76	Y	AN	Invoice Number	1	22	1,1	This is the invoice number assigned by the supplier.
BIG04	324	Y	AN	Purchase Order Number	1	22	1,2	This is the original purchase order number.
BIG05	328	N	AN	Release Number	1	30	1,5	PO Release Number
BIG07	640	N	ID	Transaction Type Code	2	2	1,4	"PR" - Product or Service
CUR		**N**		**Currency**				
CUR01	98	N	ID	Entity ID Code	2	2	10,1	
CUR02	100	N	ID	Currency Code	3	3	10,2	
REF		**Y**		**Reference Numbers**				
REF01	128	Y	ID	Reference # Qualifier	2	2	9,1	"VR"- Vendor # (supplier code)
REF02	127	Y	AN	Reference #	1	30	9,2	Item specified by data element 128. This is the supplier code from PO.
Begin IT1 Loop 200000 times								
IT1		**Y**		**Baseline Item Data (Invoice)**				
IT101	350	Y	AN	Assigned Identification	1	11	2,1	This is the line item number.
IT102	358	Y	R	Quantity Invoiced	1	10	2,2	This is the numeric value of the quantity being invoiced on this line.
IT103	355	Y	ID	Unit of Measurement Code	2	2	2,3	'EA'- each
IT104	212	Y	R	Unit Price	1	14	2,4	This is the price per unit of the product, service or commodity invoiced on this line.
IT105	639	N	ID	Basis of Unit Price Code	2	2	2,5	"PE" - Price per Each
IT106	235	Y	ID	Product/ ID Code Qualifier	2	2	3,1	VP (Vendors/Supplier's part number)
IT107	234	Y	AN	Product ID	1	30	3,2	Identifying number for a product. Vendor/Supplier's part number.
IT108	235	Y	ID		2	2	3,3	BP (Buyer's part number)
IT109	234	Y	AN	Product ID	1	30	3,4	Identifying number for a product. NCR's part number.
REF		**Y**		**Reference Numbers**				
REF01	128	Y	ID	Reference # Qualifier	2	2	8,1	Shipper's Identifying Number for Shipment (SID) from the PO (sent in the REF segment with qualifier SI).
REF02	127	Y	AN	Reference #	1	30	8,2	The above numbers go here.

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	NCR Values
TDS		**Y**		**Total Monetary Value Summary**				
TDS01	361	Y	N2	Total Invoice Amount	1	10	4,1	This is the total dollar value of the Invoice.

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	NCR Values
CTT		**Y**		**Transaction Totals**				
CTT01	354	Y	N0	Number of Line Items	1	6	7,1	Total number of line items in the transaction set. Translator can generate this.

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	NCR Values
SE		**Y**		**Transaction Set Trailer**				
SE01	96	Y	NO	Number of Included Segments	1	6		Translator
SE02	329	Y	AN	Transaction Set Control Number	4	9		Translator

Sample 810 - Invoice
ST*810*465830019
BIG*990915*509793**1048944*200
REF*VR*1000000597
IT1*1*1*EA*156.00**VP*MEM900493-005*BP*8770023717
REF*SI*1
TDS*15600
CTT*1

NOTE:
- One invoice per shipment line (SI). Invoice number can be Alpha/Numeric but the invoice must **NOT** contain hyphens (-).
- The 810 should be sent the day after the 856.
- Credit invoices can NOT be sent via EDI.
- Freight charges can NOT be included on the 810.

861 Receiving Advice/Acceptance Certificate, ANSI X12, version 3020

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	NCR Values
ST		Y		Transaction Set Header				
ST01	143	Y	ID	Transaction Set ID	3	3		'861'
ST02	329	Y	AN	Transaction Set Control Number	4	9		

BRA		Y		Beginning Segment for Receiving Advice/Acceptance Certificate				
BRA01	127	Y	AN	Reference Number	1	30	1,1	Reference number or identification number as defined for a particular transaction set, or as specified by the Reference Number Qualifier.
BRA02	373	Y	DT	Date	6	6	1,2	YYMMDD, Date of shipment or received
BRA03	353	Y	ID	Trans. Set Purpose	2	2	1,3	Code Identifying purpose of transaction set, i.e. 00-original.
BRA04	962	Y	ID	Receiving Advice or Acceptance Certificate Type Code	1	1	1,4	Code specifying type of receiving advice, i.e. 1-receiving dock advice
BRA05	337	Y	TM	Time	4	6	1,5	This is the time of the shipment. HHMM

REF		Y		Reference Numbers				
REF01	128	Y	ID	Reference Number Qualifier	2	2	2,1	'RZ' Returned Goods Authorization Number (RMA Ticket Number), 'VR' Vendor ID Number, 'SH' Sender Defined Clause (Bill of Lading Number), 'ZZ' Mutually Defined-Credit Code (Reason Code), 'IL' Internal Order Number
REF02	127	Y	AN	Reference Number	1	30	2,2	Reference number or identification number as defined for a particular transaction set, or as specified by the Reference Number Qualifier.
REF03	352	N	AN	Description	1	80	2,3	A freeform description to clarify the related data elements and their content.

DTM		Y		Date/Time Reference				
DTM01	374	Y	ID	Date/Time Qualifier	3	3	3,1	Code specifying type of date. ('097' Transaction Creation, 050 received)
DTM02	373	Y	DT	Date	6	6	3,2	Type of date is determined by the code in the qualifier, element 374. YYMMDD

TD5		Y		Carrier Details				
TD502	66	Y	ID	ID Code Qualifier	1	2	4,1	This is a code designating the type of code used in data element 67.
								'2' SCAC Code
TD503	67	Y	AN	ID Code	2	17	4,2	Code identifying a party. SCAC Code
TD505	387	N	AN	Routing	1	35	4,3	Free-form description of the routing or requested routing for shipment, or the originating carrier's identity.
TD508	310	Y	AN	Location Identifier	1	25	4,4	Code which identifies a specific location. Ship-to Location

Begin N1 Loop 200 times								
N1		Y		Name				
N101	98	Y	ID	Entity Identifier Code	2	2	5,1	Code identifying an organization entity or a physical location.
N102	93	N	AN	Name	1	35	5,2	This is the addressee. Plant Name
END N1 Loop								

Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	NCR Values
Begin RCD Loop 200000 times								
RCD		**Y**		**Receiving Conditions**				
RCD01	350	Y	AN	Assigned ID	1	11	6,1	Line Number
RCD02	663	Y	R	Quantity Units Received	1	9	6,2	Number of Units Received or Accepted.
RCD03	355	Y	ID	Unit of Meas. Code	2	2	6,3	This is the unit of measurement for the quantity required on this delivery date.
LIN		**Y**		**Item Identification**				
LIN01	350	Y	AN	Assigned ID	1	11	7,1	Line Number
LIN02	235	Y	ID	Product/Service ID Qualifier	2	2	7,2	Code identifying the type/source of the descriptive number used in Product/Service ID (234). 'PN' Company Part Number.
LIN03	234	Y	AN	Product/Service ID	1	30	7,3	Part Number on Ticket
LIN04	235	Y	ID	Product/Service ID Qualifier	2	2	7,4	Code identifying the type/source of the descriptive number used in Product/Service ID (234).'BP' Buyers Part Number
LIN05	234	Y	AN	Product/Service ID	1	30	7,5	Part Number Received
PID		**Y**		**Product/Item Description**				
PID01	349	Y	ID	Item Description Type	1	1	8,1	Code indicating the format of a description.
PID05	352	Y	AN	Description	1	80	8,2	A free form description to clarify the related data elements and their content.
Begin PO4 Loop 100 times								
PO4		**Y**		**Item Physical Details**				
P0401	356	Y	NO	Pack	1	6	9,1	Number of Inner pack units per outer pack unit.
DTM		**Y**		**Date/Time Reference**				
DTM01	374	Y	ID	Date/Time Qualifier	3	3	10,1	Code specifying type of date or time, or both date and time.
DTM02	373	Y	DT	Date	6	6	10,2	YYMMDD
End PO4 Loop								
Start TD3 Loop 200 times								
TD3		**Y**		**Carrier Details Equipment**				
TD301	40	Y	ID	Equipment Desc. Code	2	2	11,1	Code identifying type of equipment used for shipment. AF Air Freight
Start N1 Loop 200 times								
N1		**Y**		**Name**				
N101	98	Y	ID	Entity Identifier Code	2	2	12,1	Code identifying an organization entity or a physical location.
N102	93	Y	AN	Name	1	35	12,2	This is the addressee.
End TD3/N1 Loop								
CTT		**Y**		**Transaction Totals**				
CTT01	354	Y	NO	Number of Line Items	1	6	13,1	Translator
CTT02	347	Y	R	Hash Total	1	10	13,2	Translator

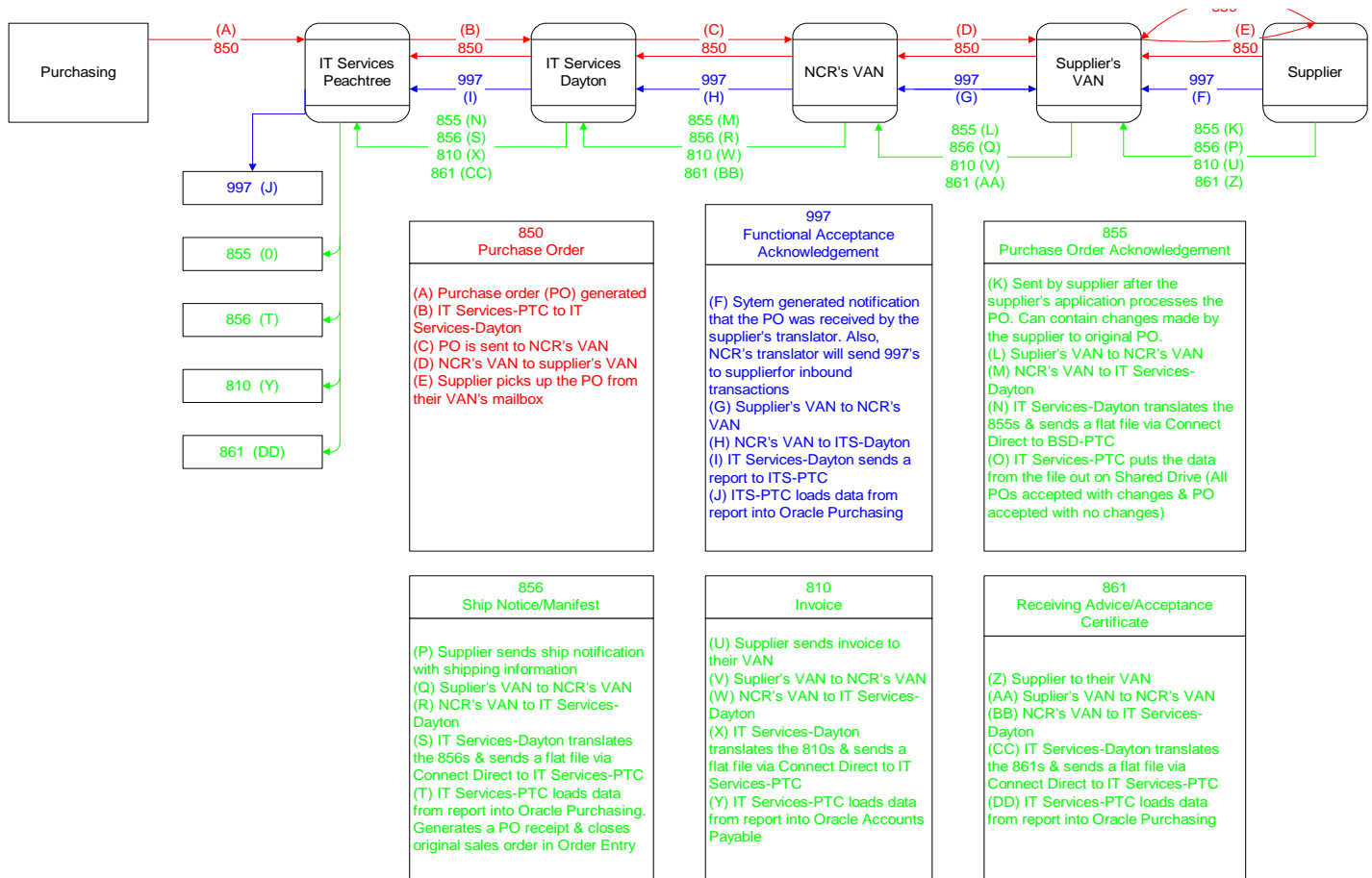| Field Name	Data Element	Req?	Type	Description	Min	Max	NCR (record, field)	NCR Values
SE		**Y**		**Transaction Set Trailer**				
SE01	96	Y	NO	Number of Included Segments	1	6		Translator
SE02	329	Y	AN	Transaction Set Control Number	4	9		Translator

861 Sample – Receiving Advice/Acceptance Certificate

ST*861*494110001
BRA*R00191173401*991112*00*1*0739
REF*RZ*R00191173401
REF*SH*NONE
REF*IL*DEF
REF*ZZ*00   *(See below chart for reason codes)*
REF*VR*1000000222
DTM*097*991112
TD5**2*WRH*****06580000
N1*ST*YOUR PTR SOLUTIONS
RCD*1*1*EA
LIN*1*PN*NCR3298-2273*BP*0080076562
PID*F****MONITOR, 15" ESVGA COLOR 1024x
PO4*1
DTM*050*991112
TD3*AF
N1*SF*NCR
CTT*1*1
SE*19*494110001

Reason Codes for 861 (REF*ZZ*XX)

861 Status Codes	
Status Codes	**Reason Description for Direct Returns**
Zero Zero	Received correct part with paperwork (All is okay).
B	Received incorrect part with paperwork, but part is repairable by vendor.
G	Received incorrect part with paperwork, but part is not repairable by vendor.
D	Received shipment and paperwork, but box is empty.
F	Received shipment, but part is damaged beyond repair.
C	Incomplete Assembly

9.0 EDI Transaction Flow

Flow diagram (left to right): Purchasing → IT Services Peachtree → IT Services Dayton → NCR's VAN → Supplier's VAN → Supplier

- (A) 850
- (B) 850
- (C) 850
- (D) 850
- (E) 850

- 997 (H)
- 997 (G)
- 997 (F)

- 855 (N), 856 (S), 810 (X), 861 (CC)
- 855 (M), 856 (R), 810 (W), 861 (BB)
- 855 (L), 856 (Q), 810 (V), 861 (AA)
- 855 (K), 856 (P), 810 (U), 861 (Z)

Boxes (left column):
- 997 (J)
- 855 (O)
- 856 (T)
- 810 (Y)
- 861 (DD)

850 — Purchase Order

(A) Purchase order (PO) generated
(B) IT Services-PTC to IT Services-Dayton
(C) PO is sent to NCR's VAN
(D) NCR's VAN to supplier's VAN
(E) Supplier picks up the PO from their VAN's mailbox

997 — Functional Acceptance Acknowledgement

(F) Sytem generated notification that the PO was received by the supplier's translator. Also, NCR's translator will send 997's to supplierfor inbound transactions
(G) Supplier's VAN to NCR's VAN
(H) NCR's VAN to ITS-Dayton
(I) IT Services-Dayton sends a report to ITS-PTC
(J) ITS-PTC loads data from report into Oracle Purchasing

855 — Purchase Order Acknowledgement

(K) Sent by supplier after the supplier's application processes the PO. Can contain changes made by the supplier to original PO.
(L) Suplier's VAN to NCR's VAN
(M) NCR's VAN to IT Services-Dayton
(N) IT Services-Dayton translates the 855s & sends a flat file via Connect Direct to BSD-PTC
(O) IT Services-PTC puts the data from the file out on Shared Drive (All POs accepted with changes & PO accepted with no changes)

856 — Ship Notice/Manifest

(P) Supplier sends ship notification with shipping information
(Q) Suplier's VAN to NCR's VAN
(R) NCR's VAN to IT Services-Dayton
(S) IT Services-Dayton translates the 856s & sends a flat file via Connect Direct to IT Services-PTC
(T) IT Services-PTC loads data from report into Oracle Purchasing. Generates a PO receipt & closes original sales order in Order Entry

810 — Invoice

(U) Supplier sends invoice to their VAN
(V) Suplier's VAN to NCR's VAN
(W) NCR's VAN to IT Services-Dayton
(X) IT Services-Dayton translates the 810s & sends a flat file via Connect Direct to IT Services-PTC
(Y) IT Services-PTC loads data from report into Oracle Accounts Payable

861 — Receiving Advice/Acceptance Certificate

(Z) Supplier to their VAN
(AA) Suplier's VAN to NCR's VAN
(BB) NCR's VAN to IT Services-Dayton
(CC) IT Services-Dayton translates the 861s & sends a flat file via Connect Direct to IT Services-PTC
(DD) IT Services-PTC loads data from report into Oracle Purchasing

10.0 Deliverables

Peachtree/ELC will send a purchase order (850) with the following information. This list does not contain the required mapping information that would fall under the technical requirements.

- Purchase Order Number
- Purchase Order Release Number (if applicable)
- NCR's 10-digit Part Number
- Part Number
- Quantity
- Price
- Shipping Address (w/ contact name & telephone number, if applicable)
- Distribution Center Number
- Supplier Code
- Delivery Date

11.0 Expectations

The expectations of the supplier are (but not limited to) the following:

- 997 response within 48 hours
- 855 response
- 856 response
- 810 response
- 861 (if applicable)

12.0 Test Plan

The test plan consists of two types of testing; connectivity and full cycle.

Connectivity Testing

When the supplier is ready to start connectivity testing, ITS-Dayton will send test 850 transaction. The supplier will verify that their system can accept the 850. Then the supplier will return a 997, 855, 856, and 810 based on the 850. ITS-Dayton will verify that the returned transactions will work with the VAN and translator and review the individual transactions for content. ITS-Dayton will send the marked up transaction(s) in X12 format to the eProcurement Business Coordinator for review. The eProcurement Business Coordinator will review and mark up, verifying the information that Peachtree/ELC requires is in the transaction. The marked up transactions are returned to the supplier for corrections. This process continues until the transactions are correct. After the connectivity testing is complete, the full cycle testing begins.

Full Cycle Testing

The full cycle test consists of postive and negative tests. An Excel file will be sent to the supplier explaining each test and furnishing the information that is to be returned on each transaction. If necessary, a volume test may be required.

810, 855, and 856 Tests:

Test #	Type	Pass/Fail	Date	Vendor	Vendor Code	PO #	PO Line #	Part #	Qty	Unit $	Sales Order #	Error
55.810.01	Positive				1000002672	1362711	1	5150009380	3 pcs	$165.00	5079754	None
55.810.02	Negative				**1024567890**	1362711	1	5150009380	3 pcs	$165.00	5079754	Invalid Vendor
55.810.03	Negative				1000002672	**7654321**	1	5150009380	3 pcs	$165.00	5079754	Invalid PO #
55.810.05	Negative				1000002672	1362711	**5**	5150009380	3 pcs	$165.00	5079754	Invalid PO Line #
55.810.07	Negative				1000002672	1362711	1	**1234567890**	3 pcs	$165.00	5079754	Invalid Part #
55.810.09	Negative				1000002672	1362711	1	5150009380	3 pcs	**$500.00**	5079754	$ > 10%
55.810.10	Negative				1000002672	1362711	1	5150009380	**500 pcs**	$165.00	5079754	Qty > 10%

Test #	Type	Pass/Fail	Date	Vendor	Vendor Code	PO #	PO Line #	Part #	Qty	Unit $	Sales Order #	Error
55.856.02	Negative				1000002672	**7654321**	1	5150009380	3 pcs	$165.00	5079754	Invalid PO #
55.856.04	Negative				1000002672	1362711	**5**	5150009380	3 pcs	$165.00	5079754	Invalid PO Line #
55.856.09	Negative				1000002672	1362711	1	**1234567890**	3 pcs	$165.00	5079754	Invalid Part #
55.856.10	Negative				1000002672	1362711	1	5150009380	3 pcs	$165.00	 	SO# left blank
55.856.11	Negative				1000002672	1362711	1	5150009380	**500 pcs**	$165.00	5079754	Invalid qty

Test #	Type	Pass/Fail	Date	Comment Field	855 Code	PO #	PO Line #	Part #	Qty	Unit $	Sales Order #	Schedule Date	Error
55.855.04	Positive			Date Rescheduled - 11/ 30/01	DR	1362711	1	5150009380	3 pcs	$165.00	5079754	10/31/2001	none
55.855.12	Positive			Price Changed - $500.00	IP	1362711	1	5150009380	3 pcs	$165.00	5079754	10/31/2001	none
55.855.13	Positive			Quantitiy Changed - 500 pcs	IQ	1362711	1	5150009380	3 pcs	$165.00	5079754	10/31/2001	none
55.855.14	Positive			Item Reject - Can Not Supply	IR	1362711	1	5150009380	3 pcs	$165.00	5079754	10/31/2001	none
55.855.15	Positive			Substitution made - 5150010123	IS	1362711	1	5150009380	3 pcs	$165.00	5079754	10/31/2001	none
55.855.18	Negative			Item Accepted	IA	1362711	1	**1234567890**	3 pcs	$165.00	5079754	10/31/2001	Invalid Part #
55.855.19	Negative			Item Accepted	IA	**7654321**	1	5150009380	3 pcs	$165.00	5079754	10/31/2001	Invalid PO #
55.855.21	Negative			Item Accepted	IA	1362711	1	5150009380	3 pcs	**$500.00**	5079754	10/31/2001	Invalid Price
55.855.22	Negative			Item Accepted	IA	1362711	1	5150009380	**500 pcs**	$165.00	5079754	10/31/2001	Qty > PO
55.855.23	Negative			Item Accepted	IA	1362711	1	5150009380	**1 pc**	$165.00	5079754	10/31/2001	Qty < PO

861 Test

Test #	Type	Pass/Fail	Date	Vendor	Vendor Code	Code	Reason	RMA #	Part #	Qty
55.861.01	Positive					00	All Correct	R00507950301	8770181410	1 pc
55.861.02	Negative					B	Part number Mismatch	R00507950301	**1234567890**	1 pc
55.861.03	Negative					00	Quantity Mismatch	R00507950301	8770181410	**5 pcs**
55.861.04	Negative					B	Part & Qty Mismatch	R00507950301	**1234567890**	**5 pcs**
55.861.05	Negative					00	Canceled RMA	R00507950301	8770181410	1 pc
55.861.07	Negative					00	RMA Not on File	R00507950301	8770181410	1 pc
55.861.08	Negative					00	Duplicate	R00507950301	8770181410	1 pc
55.861.09	Negative					G	Not Repairable / Wrong Supplier	R00507950301	8770181410	1 pc
55.861.10	Negative					F	Part Damaged Beyond Repair	R00507950301	8770181410	1 pc
55.861.11	Negative					C	Incomplete Assembly	R00507950301	8770181410	1 pc

13.0 Pitch and Catch Report
A Pitch and Catch Report is generated daily. The purpose for this report:
- Verification of transaction counts between the supplier and NCR
- Early problem detection and resolution

The transactions that are on the report: 850, 855, 856, 810, and 861 (if applicable). The requirements for the counts are as follows:

850	REF*SI Segment
855	PO1*1 Segment
856	REF*SI Segment
861	LIN Segment
810	IT1 Segment

The counts must be sent to the eProcurement Business Coordinator and their backup before 12:00 Noon Eastern Time.

If 861 transactions are in place, the supplier will receive a Return Material Authorization (RMA) flat file from NCR. That file must be sent to the eProcurement Business Coordinator and their backup from the supplier. The reason for this is verification that the supplier received the flat file.

14.0 Things Suppliers Should Know for EDI
Our experience with implementing EDI has taught us that it is difficult to anticipate everything that can go awry. We can, however, learn from our experiences and make known the things that have caused us problems. To that end, we have compiled the following list. By being aware of these potential hurdles, we can minimize or eliminate their impact.

- Verify that you have received a Supplier Guide (US: MAN00010 / EMEA: MAN00074) from the Supplier Manager.

- **Pre-EDI purchase orders -** When we bring up a supplier on EDI, we often use the existing supplier code that NCR has in its system for that supplier. It is likely, therefore, that we have both open and closed purchase orders on file for that code.

  Note: NCR's purchase order numbers are consecutively numbered so the supplier should record the last non-EDI purchase order that they receive from NCR.

  Our system is triggered to process a purchase order for an EDI-enabled supplier when the purchase order is approved. After approval, the purchase order is picked up by a program that puts it in a table just outside our Oracle system as an EDI purchase order. From there the purchase order is sent via EDI on its way across the electronic ether. This table also is used as a check if the purchase order is re-approved in order to prevent it from being sent via EDI and potentially duplicated.

The snag comes in when we make a change to an existing purchase order that requires re-approval. This could be a date, price, or quantity change, etc. When this purchase order was approved originally--before the supplier was turned on to EDI --it was not processed as an EDI purchase order. As a result, it was not placed in the EDI table at the first approval. Therefore, the table does not recognize the purchase order as a duplicate and pulls it in for EDI processing as if it was new.

Because of this gap in our system, it is imperative that the supplier pay close attention to any communications that come from the buyer concerning a purchase order being a duplicate. We can have a similar problem with purchase orders that we put up to clear up discrepancies that occur in our systems. Again, any communication from the buyer concerning ignoring a purchase order must be heeded in order to avoid order duplication and invoicing delays.

- **Completing open, pre-EDI purchase orders** - Purchase orders that were approved prior to turning EDI on and are still open (i.e., open for receiving or invoicing) cannot be completed using EDI transactions. This means that the invoicing and receiving to complete the purchase order must be done using the pre-EDI means (mail, email, fax, etc.). The 855, 856 or 810 EDI transactions will not match the purchase order in NCR's system.

  NCR's purchase order numbers are consecutively numbered so the supplier should note the last non-EDI purchase order that they receive from NCR and plan to provide any changes, shipping, or invoicing information using pre-EDI means.

- **Supplier system changes** - If a supplier plans to make any changes to their system(s) that could affect their EDI functionality, NCR requires a minimal test cycle to be run before they put the changes in production. This test cycle will identify any impact to EDI and allow the supplier the opportunity to correct the situation without impacting the order flow.

  Testing will consist of the following:
  - We will send you one purchase order (850)
  - You will return 997, 855, 856, and 810 transactions with no errors

  When the above is successful, we will send the following:
  - 20 more purchase orders (some will have multiple shipments)
  - You will return 997, 855, 856, and 810 transactions with no errors

  If the 861 transaction is a part of your transaction suite, we will include similar testing for it.

- **System changes before go live** - This issue is related to the preceding one. It is NCR's expectation that the supplier will make all desired changes to their system before or during testing. **The system you test with should be the system you go live with (or a testing version of it).** Any changes made after testing is complete will require more testing. This item includes the automation of the supplier's system to handle EDI if it is not in place for the testing phase.

  Both NCR and the supplier have too much invested in setting up and testing EDI to implement untested changes. The order flow process through which the supplier serves us and we serve our customers cannot be compromised in this way.

- **Refreshing supplier EDI system after exception testing** - In order to test the error reporting functions in our system, NCR will require the supplier to send discrepant data via EDI. In some cases, the supplier may have to make changes to their software to allow them to do this. NCR strongly recommends that the supplier keep a check list of the changes made for this exception testing so that they can be reversed prior to turn on.

- **Differentiating between New Buy and Repair purchase orders** - Each 850 contains a code identifying the type of purchase, either a new buy or a repair. This code is found in the BEG segment.

  - This example shows that the purchase order is a new buy order by the **NE**:
    BEG*00*<u>**NE**</u>*2229462**030923**AE
  - This example shows that the purchase order is a repair order by the **RR**:
    BEG*00*<u>**RR**</u>*2238064**031006**AE