## 866 Production Sequence

Functional Group ID=S@

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Production Sequence Transaction Set (866) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for the receiver of goods to request the order in which shipments of goods arrive at one or more locations, or to specify the order in which the goods are to be unloaded from the conveyance method, or both. This specifies the sequence in which the goods are to enter the materials handling process, or are to be consumed in the production process, or both. This transaction set shall not be used to authorize labor, materials, or other resources. This transaction set shall not be used to revise any product characteristic specification.

## Notes:

## John Deere Business Partner Note:

866 Business process narrative -- John Deere as the customer
The transaction is used by John Deere to communicate and specify a sequential order in which supplier material is to be loaded for shipment. This allows the receiving facility to unload material in the sequence it is needed on the assembly line.

A supporting Blanket Order or Scheduling Agreement (830-Planning Schedule with Release Capability) containing the PO number will be sent prior to this 866 - Production Sequence transaction. The PO number should be referenced on any communication regarding this material.

| Page <br> No. | Pos. <br> No. | Seg. <br> ID | Name | Req. <br> Des. | Max.Use | Loop Repeat | Notes and Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 010 | ST | Transaction Set Header | M | 1 |  |  |
| 3 | 020 | BSS | Beginning Segment for Shipping Schedule/Production Sequence | M | 1 |  |  |
|  |  |  | LOOP ID - N1 |  |  | >1 |  |
| 5 | 040 | N1 | Name | O | 1 |  |  |
| 6 | 050 | N2 | Additional Name Information | O | 2 |  |  |
| 7 | 060 | N3 | Address Information | O | 1 |  |  |
| 8 | 070 | N4 | Geographic Location | O | 1 |  |  |
|  |  |  | LOOP ID - DTM |  |  | 100 |  |
| 9 | 110 | DTM | Date/Time Reference | M | 1 |  |  |
|  |  |  | LOOP ID - LIN |  |  | >1 |  |
| 10 | 150 | LIN | Item Identification | O | 1 |  |  |
| 13 | 160 | REF | Reference Identification | O | >1 |  |  |
| 14 | 170 | QTY | Quantity | O | 1 |  |  |
| 15 | 195 | CTT | Transaction Totals | M | 1 |  | n1 |
| 16 | 200 | SE | Transaction Set Trailer | M | 1 |  |  |

## Transaction Set Notes

1. The number of line items (CTT01) is the accumulation of the number of DTM segments. If used, hash total (CTT02) is the sum of the value of quantity (QTY02) for each QTY segment.


Segment: Position: Loop: Level: Usage:
Max Use: Purpose: Syntax Notes: Semantic Notes:

Beginning Segment for Shipping Schedule/Production Sequence
020

Mandatory
1
To transmit identifying numbers, dates, and other basic data relating to the transaction set
1 At least one of BSS07 or BSS08 is required.
1 Use BSS02 to indicate a document number.
2 Use BSS03 to indicate the date of this document.
3 Use BSS05 to indicate the schedule horizon start date (the date when the schedule begins).
4 Use BSS06 to indicate the schedule horizon end date (the date when the schedule ends).
5 BSS08 is the identifying number for a forecast assigned by the orderer/purchaser.

## Comments:

## John Deere Business Process Note

The segment always indicates either an original or replacement of the production sequence for any included material numbers. For replacements, the entire schedule of dates and quantities replaces previously communicated delivery plans for the material and orders.

The BSS dates have little significance to Deere, but the standard requires the dates in the transaction.

The codes of "DL"/"SH" and "A" are sent to indicate actual discrete quantity expected delivered/shipped.

- When BSS04 is "DL", the enclosed dates are the expected date of delivery at the customer's dock, so suppliers must consider transportation time in order to determine the required ship date from their facility.
- When BSS04 is "SH", the enclosed dates are the expected date of shipment.


## Data Element Summary



Segment:
Position: 040
Loop: N1 Optional
Level: Usage:
Max Use:
Purpose:
Syntax Notes:

## Semantic Notes: <br> Comments:

Optional
1
To identify a party by type of organization, name, and code
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: John Deere Business Process Note
Name Loop (N1-N4) can have multiple occurrences. At least one N1 segment will always contain an indicator ("ST") for the ship to location.

There will be an associated DUNS number or another Deere unique number to cross-reference all the address information. If the code " 92 " is used to indicate a John Deere unique number, the supplier must be sure there is associated address information in the supplier data base or in the 866 data being transmitted.

## Data Element Summary

## Data

$\frac{\text { Element }}{98} \xrightarrow{\text { Name }}$ Entity Identifier Code

Attributes

Code identifying an organizational entity, a physical location, property or an individual
ST Ship To

93 Name Ship To

Free-form name
66 Identification Code Qualifier
X ID 1/2
Code designating the system/method of code structure used for Identification Code (67)

1 D-U-N-S Number, Dun \& Bradstreet
92 Assigned by Buyer or Buyer's Agent
67 Identification Code
X AN 2/80
Code identifying a party or other code

Segment: N2 Additional Name Information
Position: 050 Loop: Level: Usage: N1 Optional Optional
Max Use:
Purpose: Syntax Notes: Semantic Notes: Comments:

## Data Element Summary

| M | Ref. <br> Des. | Data <br> Element <br> $\mathbf{N 2 0 1}$ |
| :--- | :--- | :--- | | $\frac{\text { Name }}{\text { Name }}$ |
| :--- |

Segment:
Position: Loop: Level: Usage: Max Use: Purpose: Syntax Notes: Semantic Notes: Comments:

N3 Address Information
060
N1 Optional

Optional
1
To specify the location of the named party

## Data Element Summary

| Ref. <br> Des. | Data <br> Element | Name <br> N301 | $\mathbf{1 6 6}$ |
| :--- | :---: | :--- | :--- |
| Address Information <br> Address information | $\frac{\text { Attributes }}{\text { M }}$AN 1/55 |  |  |
| N302 | $\mathbf{1 6 6}$ | Address Information <br> Address information | O |


| Segment: | N4 Geographic Location |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Position: | 070 |  |  |  |
| Loop: | N1 Optional |  |  |  |
| Level: |  |  |  |  |
| Usage: | Optional |  |  |  |
| Max Use: | 1 |  |  |  |
| Purpose: | To specify the geographic place of the named party |  |  |  |
| Syntax Notes: | 1 If N406 is present, then N405 is required. |  |  |  |
| Semantic Notes: |  |  |  |  |
| Comments: | 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location. |  |  |  |
|  | 2 N402 is required only if city name (N401) is in the U.S. or Canada. |  |  |  |
| Notes: | John Deere Business Process Note |  |  |  |
|  | The optional data contained in N405/N406 is the John Deere unloading (possibly receiving gate and dept) storage location. This information is required on the material's shipping documents to insure delivery at the intended location. |  |  |  |
| Data Element Summary |  |  |  |  |
| Ref. | Data |  |  |  |
| Des. | Element | Name | Attributes |  |
| N401 | 19 | City Name | O AN 2/30 |  |
|  |  | Free-form text for city name |  |  |
| N402 | 156 | State or Province Code | O ID 2/2 |  |
|  |  | Code (Standard State/Province) as defined by |  | nent agency |
| N403 | 116 | Postal Code | O ID 3/15 |  |
|  |  | Code defining international postal zone code excluding punctuation and blanks (zip code for United States) |  |  |
| N404 | 26 | Country Code | 0 | ID 2/3 |
|  |  | Code identifying the country |  |  |
| N405 | 309 | Location Qualifier | X | ID 1/2 |
|  |  | Code identifying type of location |  |  |
|  |  | DE Destination (Shipping) |  |  |
| N406 | 310 | Location Identifier | 0 | AN 1/30 |
|  |  | Code which identifies a specific location |  |  |

Segment:
Position: Loop: Level: Usage: Max Use: Purpose: Syntax Notes:

Date/Time Reference
110 DTM Mandatory

Mandatory
1
To specify pertinent dates and times
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.

## Semantic Notes:

Comments:

|  | Data Element Summary |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Ref. } \\ & \text { Des. } \\ & \text { DTM01 } \end{aligned}$ | Data <br> Element | Name |  | Attributes |  |
| I |  | 374 | Date/Time Qualifier |  | M | ID 3/3 |
|  |  |  | Code specifying type of date or time, or both date and time |  |  |  |
|  |  |  | 002 D | Delivery Requested |  |  |
|  |  |  | 010 R | Requested Ship |  |  |
|  | DTM02 | 373 | Date |  | X | DT 8/8 |
|  |  |  | Date expressed as CCYYMMDD |  |  |  |
|  | DTM03 | 337 | Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where $\mathrm{H}=$ hours $(00-23)$, $\mathrm{M}=$ minutes (00-59), $\mathrm{S}=$ integer seconds (00-59) and $\mathrm{DD}=$ decimal seconds; decimal seconds are expressed as follows: $\mathrm{D}=$ tenths $(0-9)$ and $\mathrm{DD}=$ hundredths (00-99) |  |  |  |
|  |  |  |  |  |  |  |  |  |




Product/Service ID Qualifier
Code identifying the type/source of the descriptive number used in Product/Service ID (234)
CR Contract Number

EC Engineering Change Level
ON Customer Order Number
RC Returnable Container Number
John Deere Business Partner Note:
non-SAP units only
VP Vendor's (Seller's) Part Number
Identifying number for a product or service
John Deere Business Process Note:
Paired elements LIN06/LIIN07 thru LIN14/LIN15 will be sent based on the dynamic existence of data. The qualifier must be used in identifying the business relevance of the value.

Product/Service ID
X AN 1/48
Identifying number for a product or service
John Deere Business Process Note:
Paired elements LIN06/LIIN07 thru LIN14/LIN15 will be sent based on the dynamic existence of data. The qualifier must be used in identifying the business relevance of the value.


Segment:

## CTT Tranaction Totals

Position: Loop: Level: Usage:
Max Use:
Purpose:
Syntax Notes:
195
Mandatory
1
To transmit a hash total for a specific element in the transaction set
Semantic Notes:
Comments:
1 If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.
1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

## Data Element Summary

Ref.
Des.
CTT01

## Data

Element Name

## Attributes

354 Number of Line Items $\quad$ M N0 1/6
Total number of line items in the transaction set

```
Segment: SE Transaction Set Trailer
Position:
        Loop:
        Level:
        Usage:
        Max Use:
        Purpose: To indicate the end of the transaction set and provide the count of the transmitted
    segments (including the beginning (ST) and ending (SE) segments)
    Syntax Notes:
Semantic Notes:
Comments:
Mandatory
Max Use: 1
To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments) Semantic Notes: Comments:
```

Ref.
Des. SE01

| Data Element Summary |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| M | Ref. <br> Des. <br> SE01 | $\begin{gathered} \begin{array}{c} \text { Data } \\ \text { Element } \end{array} \\ 96 \end{gathered}$ | Name <br> Number of Included Segments | Attributes |
|  |  |  |  | M N0 1/10 |
|  |  |  | Total number of segments included segments | ing ST and SE |
| M | SE02 | 329 | Transaction Set Control Number | M AN 4/9 |
|  |  |  | Identifying control number that mu functional group assigned by the or | nsaction set et |

# John Deere Guideline for EDI 866 Production Sequence 

## Based on AIAG Implementation Guideline - Version 4010 <br> Sample EDI Transmission

```
ISA*00* *00* *01*888123371 *01*995268659*110801*2220*U*00401*000000607*0*P*>
GS*SQ*888123371*995268659*20110801*2220*607*X*004010
ST*866*6070001
BSS*05*0000000117778396*20110801*JS*20110801*20110801*20110801
N1*ST*John Deere Factory*1*995268659
N3*20600 North Road
N4*ANYTOWN*IA*52731-974*US*DE*126
DTM*002*20110808
LIN*00010*BP*AT506694*JS*00000006000244*CR*00324212*ON*0004936913*VP*16685
REF*SE*1234567890
QTY*01*1*SH
LIN*00010*BP*AT506698*JS*00000006000245*CR*00324221*ON*0004970119*VP*16687
REF*SE*1234567891
QTY*01*1*SH
LIN*00010*BP*AT506698*JS*00000006000246*CR*00324221*ON*0004974568*VP*16687
REF*SE*1234567892
QTY*01*1*SH
LIN*00010*BP*AT506698*JS*00000006000247*CR*00324221*ON*0004970120*VP*16687
REF*SE*1234567893
QTY*01*1*SH
LIN*00010*BP*AT506694*JS*00000006000248*CR*00324212*ON*0004802313*VP*16685
REF*SE*1234567894
QTY*01*1*SH
LIN*00010*BP*AT506698*JS*00000006000249*CR*00324221*ON*0004970121*VP*16687
REF*SE*1234567895
QTY*01*1*SH
LIN*00010*BP*AT306694*JS*00000006100412*CR*00324212*ON*0005081870*VP*16685
REF*SE*1234567896
QTY*01*1*SH
LIN*00010*BP*AT306693*JS*00000006100413*CR*00324199*ON*0004969999*VP*16686
REF*SE*1234567897
QTY*01*1*SH
LIN*00010*BP*AT306696*JS*00000006100414*CR*00324211*ON*0004970010*VP*16692
REF*SE*1234567898
QTY*01*1*SH
LIN*00010*BP*AT076698*JS*00000006100415*CR*00324221*ON*0004969115*VP*16687
REF*SE*1234567899
QTY*01*1*SH
LIN*00010*BP*AT076695*JS*00000006100416*CR*00324207*ON*0004970006*VP*16197
REF*SE*2345678901
QTY*01*1*SH
LIN*00010*BP*AT076696*JS*00000006100417*CR*00324211*ON*0005029429*VP*16692
REF*SE*2345678902
QTY*01*1*SH
LIN*00010*BP*AT076694*JS*00000006100418*CR*00324203*ON*0005099531*VP*16685
REF*SE*2345678903
QTY*01*1*SH
LIN*00010*BP*AT306694*JS*00000006100419*CR*00324203*ON*0004969998*VP*16685
REF*SE*2345678904
QTY*01*1*SH
LIN*00010*BP*AT346697*JS*00000006100420*CR*00324216*ON*0004944780*VP*16688
REF*SE*2345678905
QTY*01*1*SH
CTT*1*15
SE*53*6070002
```

