

2000

Chapter 3, 4, 6 – Materiel Management

Revision 2014.1



ATA e-BUSINESS PROGRAM

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Highlights

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Introduction

Background

It has long been recognized by both airlines and aircraft material suppliers that significant productivity gains and cost reductions can be achieved through rapid, standardized communication of information. It is with these objectives in mind that ATA Spec 200 was developed in the late 50's for the electronic interchange of provisioning, order placement and shipment information.

Technology at that time dictated that ATA Spec 200 be developed in a punch card oriented environment. As the years went by, the limitations of 80-column cards created the need for "workarounds", resulting in a complex specification requiring constant revisions.

Maintenance of the Air Transport Association (ATA) SPEC 200 has been the responsibility of the Maintenance and Coordination Task Force of the ATA Inventory Planning and Supply Data Group. Meetings were held twice a year, where both airline and supplier representatives submitted, reviewed, and mutually agreed to questions and changes to the Spec.

ATA Spec 200 evolved to an international specification with participation from both international airlines and suppliers.

In 1984, a joint airlines/supplier ATA task force was formed to define the future direction the air transport industry should take in this area of material related information exchange.

Specification 2000, as described in the following pages, is the result of the efforts of many dedicated men and women representing the airline and manufacturer/supplier industries.

Over time, additional business functions have been included beyond Material Management, including bar-coding and RFID, Reliability Data Exchange, Industry Metrics, Warranty Claim Submittal, Delivered Parts Status, Authorized Release Certificates and Electronic Logbook.

In 2016, the business functions are being separated into separate volumes to better manage each function's revisions and release of changes. Note: In 2016, the business functions are being separated into separate volumes to better manage each function's revisions and release of changes. This front matter is being maintained as a single document which will be included with each separate volume. The volumes are listed below:

Spec 2000 – Provisioning (ch. 1)

Spec 2000 – Procurement Planning (ch. 2)

Spec 2000 – Materiel Management (ch. 3 – 4, 6)

Spec 2000 – Information and Data Exchange (ch. 5) discontinued 2016

Spec 2000 – Repair Order Administration (ch. 7)

Spec 2000 – Repair/Overhaul Planning (ch. 8) discontinued 2014

Spec 2000 – Automated Identification and Data Capture (ch. 9)

Spec 2000 – ASC X12 Implementation Guide (ch. 10) discontinued 2016

Spec 2000 – Reliability Data Collection and Exchange (ch. 11)

Spec 2000 – Airline Inventory Redistribution System - AIRS (ch. 12)

Spec 2000 – Industry Metrics (ch.13)

Spec 2000 – Warranty Claims (ch. 14)

Spec 2000 – Aircraft Transfer Parts List (ch. 15)

Spec 2000 – Authorized Release Certificate (ch. 16)

Spec 2000 – Electronic Logbook (ch. 17)



General Description

Chapter 1 - Provisioning

Provisioning is the process of selecting parts, equipment and related support materials necessary for the operation of aircraft or special equipment. Parts and materials also include those necessary for the repair and overhaul of repairable spare parts. This chapter specifies those data elements, formats and transmission procedures required of airframe, engine and equipment manufacturers in providing technical provisioning information to airlines.

Chapter 2 - Procurement Planning

The Procurement Planning chapter identifies the automated methods for the supplier to provide data for parts offered for sale, the quotation process for parts where insufficient or nonexistent data resides in the central procurement data base, and the capabilities of the Central Procurement Data Base System.

Chapter 3 - Order Administration

The Order Administration chapter describes the automated order placement process, the on-line inquiries to determine the order status, on-line order exception routines, and automated shipment advisories.

Chapter 4 - Customer Invoicing

The Customer Invoicing chapter describes the automated invoicing process, as well as the related exceptions pertaining to the process.

Chapter 5 - Information and Data Exchange

Discontinued

Chapter 6 - Communication Commands

The Acknowledgement and Communication Commands chapter describes the methods of communication common to all chapters, the simple acknowledgement of receipt command, the general requirements of initiating commands, and special features contained within the process of obtaining who-to contact information or broadcasting information to multiple participants through the capabilities of the communications system.

Chapter 7 - Repair Order Administration

The Repair Order Administration chapter describes the automated repair order process. This includes the on-line processes for quotations, repair orders and order-exception routines, tear-down reporting, shipment advisories (for both airline and repair agent), invoices and repair order status.

Chapter 8 – Discontinued

Discontinued

Chapter 9 - Automated Identification and Data Capture

This chapter identifies the AIDC requirements for receipts and permanent part marking. It also identifies the data requirements for RFID on Parts. Finally, it presents a framework for ensuring lifecycle part traceability.

Chapter 10 - SPEC2000/ASC X12 Implementation Guide

The Implementation Guide was developed as a companion to SPEC2000; it contains the format for electronically exchanging order administration, invoicing and payment order/remittance advice information between trading partners.

Chapter 11 - Reliability Data Collection & Exchange

The purpose of this chapter is to provide a set of standardized record formats for collecting and exchanging aircraft reliability data. This chapter defines standard record formats for collecting and exchanging aircraft reliability data. This will improve the collection, measurement, and exchange of this information in a consistent format – ultimately improving efficiency and reducing both costs and errors.

Chapter 12 - Airline Inventory Redistribution System (AIRS)

The AIRS program provides a means by which participants may publish worldwide in a single source data file a listing of their airframe, avionics, testing equipment, engine, expendables, rotables, tooling and ground equipment which are available for sale. Included are commands exchanged between purchasers and sellers regarding quotes and sale transactions.

Chapter 13 - Industry Metrics

This chapter creates a number of standard process performance metrics, beginning with six common business processes which are reliability, repair process, parts delivery process, technical issue resolution, product support data and warranty process. The definitions and data described in the chapter allow trading partners to measure each other's performance using consistent definitions of terms, allowing companies to improve processes in a more consistent manner.

Chapter 14 – Warranty Claims

The Warranty chapter defines XML formats for submitting Warranty Claims.

Chapter 15 - Aircraft Transfer Parts List

This chapter provides a standardized XML format for providing a list of major installed parts (typically serialized parts) from a manufacturer to an operator or from an operator to another operator or lessor.

Chapter 16 – Authorized Release Certificate

This chapter provides a standardized set of data formats and implementation guidelines for the electronic exchange of Authorized Release Certificates (e.g. 8130-3, Form 1, etc.) for aircraft products and parts.

Chapter 17 - Electronic Logbook

This chapter provides a standardized set of XML data formats for electronic logbook applications, primarily focused on data exchange between aircraft based electronic logbook applications and ground-based maintenance and reliability systems.

Purpose and Objectives

The purpose of SPEC2000 is to provide cost effective, state of the art techniques and standards which will be generally accepted by the Commercial Aviation Industry as the means for assuring optimum Communication/Data Exchange. It is important that this purpose and the following objectives be continually emphasized so that the specification will remain current to technology advancement in the future, as well as to adjust to Industry's requirements in an ever changing environment.

- To provide standards for the most cost effective exchange of information pertaining to aircraft related material and maintenance, between airlines, manufacturers, suppliers, MRO's and other related parties.
- To provide methods which are usable by the widest possible population of companies in the aviation industry.
- To provide a comprehensive and user friendly specification.
- To facilitate the identification and visibility of warranty items subject to repair by repair agencies.
- To attract a broad base of industry participation.
- To minimize reprogramming efforts in the transition from previous methods and standards to any new methods.
- To provide a framework upon which advancements can be made with future technological developments, while maintaining cost effectiveness, productivity gains, and standardization.

How to Implement

Implementation of SPEC2000 is most feasible by chapter or, in some cases, by parts of a chapter. Since the majority of the chapters describe information exchange formats between companies, you should work with your trading partners on what parts of the specification to implement.

Implementation of many chapters is facilitated by the use of software provided by third parties, or often as a part of internal ERP or Maintenance Planning or Material Management software. Often times the majority of the information being exchanged already exists within a company's systems, and the main part of implementation involves mapping the data to formats described in the chapters.

Maintenance

SPEC2000 is maintained by the ATA e-Business Program. Proposed changes may be submitted through the Change Request (CR) procedure within the ATA e-Business Program at www.ataebiz.org.

Any approved modifications to the specification shall be documented and included as revisions to the original specification. Implementation of revisions to the specification is left to each participant.

For more information about maintenance of the specification, contact:

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Chapter 3. Order Administration

3-1. Overview

1. Purpose

The order administration process outlined in this chapter of the specification defines the automated methods for order placement, the order exception routines, the on-line inquiries to determine order status, and automated shipment advisories.

2. General Description

Orders are placed with a supplier using a standard format. As changes occur, such as Part Number changes or schedule dates, the supplier will transmit these changes to the customer using the standard order exception formats. A customer may then inquire on the status of these orders using either a Part Number or a purchase order number. When the parts are shipped, a shipment advisory message is transmitted to the customer. Additionally, the supplier provides a bar coded document/label/tag within the shipping container to be used in customer's receiving process.

For suppliers and customers who generate the standard formats for order administration via telecommunications such as the SITA and ARINC networks or through direct dial access, the specification provides for data transmission directly into a computer system. This results in computer to computer operations.

3. Benefits

The benefits of using this section are in the simplification and standardization of order administration transactions between the customer and the supplier. The use of telecommunications terminals and computers as the regular mode of doing business results in reduced transaction time. Immediate benefits are reduced telephone and mailing costs.

4. Transactions and Responses

The specification requires that when a message is received but cannot be processed or responded to because of an error condition, the message will be rejected. Detailed instruction procedures are contained in Appendix 4 of this document.

3-2. Command Title - Purchase Order Placement and Purchase Order Acknowledgment

1. Command Code - S1BOOKED

1.1. Purpose

Provides the capability for the customer to enter purchase orders directly into a supplier's system. Receipt of a purchase order as outlined in this specification authorizes the supplier to proceed to procure or manufacture the items ordered, to ship, and to invoice per the order as accepted via this process. An order acknowledgement indicates the order is being processed in accordance with the general terms agreement which is in effect between the customer and supplier unless a rejection is transmitted within the time limits specified.

If the order acknowledgement is not received within a twenty-four hour period, re-transmit the order. If after three transmissions the order acknowledgement is not received, take alternate methods to reach the supplier.

The customer may establish a standard Ship-To Code and a standard shipment method code with a supplier. When the standards exist, the customer is not required to input them with the order, unless the shipment should be processed different from the established standard. (Example would be a part to be shipped to a location different from the established standard location or shipped by a shipment method other than the standard method.)

Please note that with this command the mandatory data elements are positional and will not be identified with Text Element Identifiers (TEI).

This command is transmitted by the customer to the supplier and is not part of the Central Procurement Data Base.

1.2. Input Contents and Sequence

1. **Command Code (/)**
2. **Customer Identification Code (/)**
Customer Identification Code is 5 characters in length. A minimum of 3 characters must be transmitted in all commands. The last 2 characters, when used by the customer will be returned on the order acknowledgement or the S1REJECT command but will not be retained in the supplier's system.
3. **Supplier Code (/)**
4. **International Currency Code (/)**
5. **Purchase Order Count (/)**
6. **+ Batch Number (BNO) (/)**
7. **+ Total Control Quantity (QTL) (/)**
8. **+ Extended Value Total Amount (EVT) (/)**

Data contained in 1. through 5. is transmitted once for each group of orders.

----End Of Line----

9. **Order Transaction Code (/)**

For the first character, select one of the following:

3 - Normal Order

L - Normal Confirming Order

4 - Expedite Order

M - Expedite Confirming Order

For the second character, select one of the following:

2 - Initial Provisioning Item

3 - New Stock Item

4 - Replenishment Stock Item

5 - Allocation Item

6 - Special Requirement Item

9 - Special Business Agreement*

For the third character, select one of the following:

1 - Routine Action

2 - Acceptance of a Quotation

3 - Alteration to an order

6 - Cancel or decrease an order

8 - Increase an order

9 - Request partial ship quantity of an open order.*

10. **Customer Order Number (/)**

Each order number is a unique number representing one Part Number. To remain within the message limit count of one page, it is suggested a maximum of ten orders be transmitted. Therefore, the following information can be repeated a maximum of ten times, once for each order number.

11. **Part Number (/)**

Note:	The 2014 version has expanded the size and changed the allowable characters within the Part Number field. For details see the CSDD entry attached to this specification.
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12. **Order Quantity (/)**

There are certain conditions under which a supplier may alter the Order Quantity. When this occurs, the customer will be advised through the order exception (S1ORDEXC) process.

Where the supplier has established a minimum charge per order with the customer, the Order Quantity of each order must be sufficient to satisfy the minimum charge. If the total price (multiply Order Quantity times unit price) is insufficient, the Order Quantity will be increased.

Where the supplier has provided in Procurement Data a Minimum Sales Quantity and the Order Quantity fails to meet the minimum quantity, the supplier will increase the customer's order to the Minimum Sales Quantity.

Where the supplier has provided in Procurement Data a Standard Package Quantity and the Order Quantity is not a multiple of the Standard Package Quantity, the supplier will change the customer's order to a multiple of the Standard Package Quantity.

13. **Unit of Measure Code** (/)14. **Unit Price Amount** (/)

It is not necessary to enter a price, but if left blank the slash must still be present.

15. **Specified Shipping Date** (/)16. **+ Specified Shipping Method Code (SSM)** (/)

This field is not required when a standard has been established with a supplier. Must be used if different from the standard.

*Note: Second and third character values of '9' are only applicable when trading partners have a Just In Time order administration agreement.

17. **+ Ship-To Code (SHT)** (/)

This field is not required when a standard set of codes has been established with a supplier. Must be used if different from the standard.

18. **+ Quotation Number (QTN)** (/)

Should be used when a previous quote has been issued.

19. **+ Shipment Date Control Indicator (SDC)** (/)

Cannot be used with priority 'AOG' and 'WSP'.

20. **+ Manufacturer Code (MFR)** (/)

Must be entered if order is placed for a nonproprietary part stocked by a supplier.

21. **+ Priority Code (PRI)** (/)

Valid priorities are:

AOG - Aircraft On Ground

WSP - Work Stoppage

USR - Urgent Stock Replenishment

22. **+ Aircraft Registration Number (ACN)** (/)

Must be used when priority referenced is 'AOG'.

23. **+ Discount Percent (DIS)** (/)24. **+ Packaging Code (PKG)** (/)

Use only when deviating from established instructions.

25. **+ Lease Indicator (LSE)** (/)26. **+ Price Break Order Count (PBR)** (/)27. **+ Procurement Discount Percent (PDP)** (/)28. **+ VAT Registration Number (VRN)** (/)29. **+ Acknowledgement Number (ACK)** (/)

- 30. + **Point of Use Location Name** (POU) (/)
- 31. + **Contract Number** (CTN) (/)
- 32. + **Do Not Substitute Indicator** (DNS) (/)
- 33. + **Remarks Text** (REM)

2. S1BOOKED - Purchase Order Acknowledgement

2.1. Purpose

The supplier is required to send an acknowledgement when an order or batch of orders is received. The Purchase Order Count must be validated by the supplier and the Total Control Quantity (QTL) and Extended Value Total Amount (EVT) if included on the S1BOOKED message.

2.2. Response Contents and Sequence

- 1. **Command Code** (/)
- 2. **Customer Identification Code** (/)
- 3. **Supplier Code** (/)
- 4. **Purchase Order Count** (/)
- 5. **Last Purchase Order Number** (/)
- 6. + **Batch Number** (BNO) (/)
- 7. + **Total Control Quantity** (QTL) (/)
- 8. + **Extended Value Total Amount** (EVT) (/)
- 9. + **Acknowledgement Number** (ACK) (/)
- 10. + **Remarks Text** (REM)

6, 7, and 8 are only required if input by the customer when placing an order or revision. If received on the original input, these fields will be validated by the supplier and if there is a disagreement, the order or batch will be rejected.

+ Indicates conditional data elements

3. XML Representations

The XML Schema representation of the S1BOOKED Purchase Order Placement is ATA_SparesOrder, refer to [Appendix A10-3.4.11](#). The XML Schema representation of the S1BOOKED Purchase Order Acknowledgement is ATA_SparesMessageAck, refer to [Appendix A10-3.4.12](#).

3-3. Supporting Technical Information

1. Command Code - S1BOOKED

1.1. Input and Output Examples

1.1.1. Minimum Input of a Single Purchase Order Where Previous Standards Have Been Established

CAM
S1BOOKED/QF2/81205/USD/1/BN0 3/
341/E0IJ1234567/65B2468/1/EA/25.20/15077

The customer is placing an order with the supplier and has elected to assign a Batch Number (3). The customer has established a standard Ship-To Code and specified shipping method with the supplier. Therefore, SHT and SSM TEI's are not required.

S1BOOKED Acknowledgement

CAM
S1BOOKED/QF2/81205/1/E0IJ1234567/BN0 3

Since the customer included a Batch Number on the original S1BOOKED, the supplier must return it on the acknowledgement.

1.1.2. Minimum Input of a Single Purchase Order Where Previous Standards Have Not Been Established

CAM
S1BOOKED/AAT/88277/USD/1/
341/751285/ARC7601/1/EA/45.00/20037/SHT A/SSM AFC

The customer has not established a standard Ship-To Code and Specified Shipping Method Code with the supplier. Once the standards for these two fields have been established, they do not have to be referenced on the S1BOOKED message. If the customer wanted the shipment sent to a different location or shipped by another method than the standards, then one or both of these TEI's will be included.

S1BOOKED Acknowledgement

CAM
S1BOOKED/AAT/88277/1/751285

The supplier is acknowledging receipt of the order placement.

1.1.3. Request Partial Ship Quantity of an Open Purchase Order

CAM
S1BOOKED/DLA/07482/USD/1/
349/21821111101/ABC01/2/EA//01093

The customer is requesting the shipment of a partial quantity of an open purchase order. This is only applicable to trading partners who have a Just In Time order administration agreement.

The supplier will generate a shipment per the customer request and the original purchase Order Quantity will be adjusted by the quantity of the shipment.

1.1.4. Request Multiple Partial Shipment Dates and Quantities

CAM
S1BOOKED/AZC/81205/USD/1/
341/AGA12867466/65-88888-1/25/EA//01128/SDC Y

The customer establishes an order from which individual shipments will be made. The Specified Shipping Date must be the last date any of the parts will be shipped and Shipment Date Control must be "Y".

```
CAM
S1B00KED/AZC/81205/USD/7/
349/AGA12867466/65-88888-1/2/EA//01097/SDC Y
349/AGA12867466/65-88888-1/3/EA//03087/SDC Y/SHT YX011
349/AGA12867466/65-88888-1/5/EA//05058/SDC Y
349/AGA12867466/65-88888-1/3/EA//01098/SDC Y/SHT AR631
349/AGA12867466/65-88888-1/2/EA//04108/SDC Y
349/AGA12867466/65-88888-1/1/EA//05038/SDC Y
349/AGA12867466/65-88888-1/6/EA//11018/SDC Y
```

The customer is requesting multiple shipments, on different dates and of different quantities, from the existing purchase order established above. The supplier will schedule a shipment for each customer request. The original Order Quantity will be adjusted by the quantity of the shipment. Any quantity remaining on the original purchase order will be shipped on the Specified Shipping Date of the original order. Order transactions of this type may only be used by special agreement between trading partners.

1.1.5. A Group of Four Order Numbers, One Routine and Three Expedites

```
CAM
S1B00KED/BAW/77445/USD/4/
441/307215/V701456/50/EA/145.22/25027/SSM AFC/SHT A/PRI USR
341/3017215/L2915467-1/1000/EA/7.20/30027 SSM SSC/SHT A
441/3077218/D3849671-2/1/EA/586.00/15037/SHT B/SSM SSC/PRI USR/
REM SHIP VIA BEA COMAT
441/2077219/D3849675-1/1/EA/48.50/25027/PRI A0G/ACN 12345
```

The customer is placing four part numbers on order with the supplier.

S1BOOKED Acknowledgement

```
CAM
S1B00KED/BAW/77445/4/2077219
```

When a group of orders is transmitted, only the last Customer Order Number of the group is shown on the acknowledgement (Order Number 2077219). The Purchase Order Count of 4 contained on the command line must be validated by the supplier before processing individual order numbers. If the customer states the Purchase Order Count is 4, then there must be 4 order numbers included in the message. If only 3 were received, the entire group of orders would be rejected (See [Appendix 4](#) for rejection procedure).

1.1.6. Two Order Numbers with Batch Totals Applied

```
CAM
S1B00KED/TWA/88277/USD/2/BN0 10/QTL 2/EVT 70.00/
341/P01/ABA4521-1/1/EA/25.00/25037
341/P02/ARC6585/1/EA/50.00/30047/PDP 10.00
```

The customer is placing two orders with the supplier and has elected to use the Total Quantity Amount (QTL) and Extended Value Total Amount (EVT) TEI's.

S1BOOKED Acknowledgement

```
CAM
S1B00KED/TWA/88277/2/P02/BN0 10/QTL 2/EVT 70.00
```

When the customer uses either or both of the QTL and EVT TEI's, the the supplier must validate these fields prior to processing the individual order number. In this example, the Purchase Order Count would be checked to insure two (2) order numbers were received. The quantity of each of the order numbers would be added together (1 + 1) and must equal the value of the QTL field (2). The EVT must equal the quantity of the order times the Unit Price Amount (1 x 25.00 + 1 x 50.00 - 10% = 70.00) or the entire batch will be rejected (See [Appendix 4](#)).

1.1.7. Order with Missing Unit Price Amount

CAM
S1B00KED/AAT/88277/USD/1/
341/A1512910/ABM7020-1/2/EA//25087/SSM AFC/SHT A

Unit Price Amount is a mandatory data element; however, the price may not be known at the time the order is placed. The price field may be blank but the slash indicating end of field must be present. Therefore, this order would not be rejected due to a missing mandatory data element. The supplier will notify the customer with the Unit Price Amount through the order exception (S1ORDEXC) process. This is the only exception; all other mandatory data elements must be present in the message and must be valid.

S1BOOKED Acknowledgement

CAM
S1B00KED/AAT/88277/1/A1512910

The supplier is acknowledging receipt of the order placement.

1.1.8. Order Referencing a Quotation Number - with Request for Receipt Acknowledgement

CAM
S1B00KED/DLA/88277/USD/1/
342/27220441604/9955845-502/5/EA/1297.00/28087/SSM SAC/
SHT 1/QTN 004057/ACK 921127-010

When an order is placed referencing a Quotation Number (QTN 004057), the third position of the Order Transaction Code is "2". The customer is also requesting an acknowledgement of receipt by including the ACK TEI.

1.1.9. Receipt Acknowledgement

CAM
S1CMDACK/06/921127-010

The supplier is confirming receipt of the message. The ACK TEI can now be ignored for the response to the customer's request.

S1BOOKED Acknowledgement

CAM
S1B00KED/DLA/88277/1/27220441604

The supplier is accepting the order placement.

Once orders have been entered into a supplier's system, changes can be made to these orders. Following are examples of some of the more common changes, and the acknowledgement to the change requested.

1.1.10. Upgrade of an Existing Order to a Priority Status

CAM
S1B00KED/QF2/81205/USD/1/
443/2077291/D3849675-1/1/EA/48.00/25016/PRI A06/ACN 1234

The Order Transaction Code is coded as a 4 in the first position to show a priority condition and a 3 in the third indicating a change. The priority level is then referenced as a TEI.

S1BOOKED Acknowledgement

CAM
S1B00KED/QF2/81205/1/2077291

The supplier is acknowledging receipt of the order modification.

1.1.11. Cancel or Decrease a Quantity on an Existing Order

CAM

S1BOOKED/TWA/88277/USD/1/
346/815650/AAA7009-1/10/EA//25026

The third position of the Order Transaction Code is a 6 (the first two positions would remain as originally entered). The quantity entered would be the quantity of the amount to be cancelled. If the original order was for a quantity of ten, the above example would be a request for a total cancellation.

S1BOOKED Acknowledgement

CAM
S1BOOKED/TWA/88277/1/815650

The supplier is acknowledging receipt of the order modification.

1.1.12. Increase a Quantity on an Existing Order

CAM
S1BOOKED/AAT/77445/USD/1/
348/3089145/ABA5000/1/EA/10.00/25047

The third position of the Order Transaction Code is an 8 (the first two positions would remain as originally entered). The Order Quantity in this example is the increased quantity amount; i.e. the original order was placed for a quantity of 4, and this example indicates the order should be increased by 1. The customer will have a total quantity of 5 on order. Quantity increases cannot be applied on orders which have been previously shipped complete.

S1BOOKED Acknowledgement

CAM
S1BOOKED/AAT/77445/1/3089145

The supplier is acknowledging receipt of the order modification.

1.1.13. Change Ship to Location on an Existing Order

CAM
S1BOOKED/JLA/88277/USD/1/
343/171896881X1/5945125/1/EA//25047/SHT B

The third position of the Order Transaction Code is a three (the first two positions would remain as originally entered). The customer has referenced a different Ship-To Code. Any change to an existing order which has not been covered in previous examples, would be done in this manner.

S1BOOKED Acknowledgement

CAM
S1BOOKED/JLA/88277/1/171896881X1

The supplier is acknowledging receipt of the order modification.

1.1.14. Input of a Single Purchase Order with a Point of Use Location Name (POU)

CAM
S1BOOKED/DLA/77445/USD/1/
341/72720259001/452087/1/EA/150.20/15077/POU 272-01-A27

The customer has indicated a Point of Use Location Name for inclusion on the shipping label.

S1BOOKED Acknowledgement

CAM
S1BOOKED/DLA/77445/1/72720259001

The supplier is acknowledging receipt of the order placement.

1.2. Order Referencing a Special Business Agreement

1.2.1. Order Referencing a Prior Procurement Contract

CAM
S1BOOKED/AFR/88277/USD/1/
391/3A11013BDXA/9955845-502/5/EA/1297.00/28087/SSM SAC/
SHT 1/CTN **MLB692803**

When an order is placed referencing a Procurement Contract Number (CTN MLB692803), the second position of the Order Transaction Code is "9" (Special Business Agreement).

1.2.2. Just-In-Time Procurement

CAM
S1BOOKED/AFR/88277/USD/1/
391/JT333001/MS28889-2/100/EA/35.90/31127/SSM SAC/
SHT G-C07/CTN **JIT9609**

The above example shows a Just-In-Time order placement where the customer is stating that he will require 100 ea of the subject Part Number in the period between order placement and Scheduled Shipping Date (December 31, 1997). The CTN in this first transaction message is mandatory.

1.2.3. Just-In-Time Shipping Request

CAM
S1BOOKED/AFR/88277/USD/1/
399/JT333001/MS28889-2/5/EA/35.90/01096/
SHT H-L09/CTN **JIT9609**

The customer is requesting shipment of 5 ea to SHT H-L09 on September 1, 1996. CTN is conditional, since the second and third positions of the Order Transaction Code are "9" and self-explanatory to identify a partial shipment request on a just-in-time order.

2. Procedure Division - S1BOOKED

2.1. Order Batch Validation

When a batch of orders is transmitted by a customer to a supplier, the batch is validated upon receipt by the supplier. In order to complete this process, the following conditions apply:

1. The number of purchase order numbers transmitted within a batch must be equal to the **Purchase Order Count** data element in the transmission.
2. If the conditional **Total Control Quantity** (QTL) is transmitted, the sum of each order number's **Order Quantity** data element must equal the QTL value.
3. If the conditional **Extended Value Total Amount** (EVT) is transmitted, the sum of each order number's extended value must equal the EVT value. The extended value for an order is computed by multiplying the "**Order Quantity**" by the "unit price" and subtracting the "discount" (DIS) or **Procurement Discount Percent** (PDP), if specified.

If any of these conditions fail the S1BOOKED order acknowledgement will not be transmitted by the supplier. The supplier will transmit an S1REJECT rejection message indicating "Batch Control Reject" and the first invalid data element which was encountered.

2.2. Validation of Orders within a Batch

When the transmission passes the supplier audits for batch validation, the supplier will send an S1BOOKED order acknowledgement to the customer. This acknowledgement advises the customer that the complete data transmission was received by the supplier. However, the supplier should not send the acknowledgement until

each order number within the batch has been edited. Any rejected order number which is not retained in the supplier's system will be returned to the customer as per the rejection procedure in [Appendix 4](#).

For example, a customer could transmit a batch of orders with a Purchase Order Count of ten. Ten orders were identified, but one had a missing mandatory data element. The order acknowledgement would be transmitted followed by a reject message for the one purchase order number in error.

2.3. Transaction Code

The transaction code is used by the customer to advise the supplier of actions being taken to issue a new order number or to revise an order number in the supplier's system. For instance, the customer may request an increase to the Order Quantity on a routine replenishment stock item with the transaction code of 348.

To further assist in transaction code clarifications:

1. If the third character is a one, this indicates that the order does not exist in the supplier's system.
2. If the third character is a three, six or eight, this indicates that the order exists in the supplier's system.
3. If the third character is a two, the **Quotation Number** will be transmitted as TEI QTN by the customer.
4. If the first character is a four, the customer will transmit a TEI of PRI (priority) in conjunction with the priority identifier which best describes the present state of the order (AOG, WSP or USR).

2.4. Limits within the Transaction

On-line program processing requires processing time limits to be applied. A maximum of ten order numbers or sixty data lines may be input, whichever occurs first.

2.5. Quantities and Amounts

The value of a quantity and dollar amount may not contain the maximum length of the data element; preceding zeros will be eliminated and then left justified. For example, if the Order Quantity is "00012", the data element will be transmitted as "12".

2.6. SPEC2000 - X12 Message Processing Requirement

When purchase order activity involves trading partners that utilize two different specifications, and therefore require message translation, the following guidelines must be used:

- If multiple SPEC2000 purchase order line items are being transmitted to an X12 user, each order must have a separate S1BOOKED command.
- If multiple X12 purchase order line items are being transmitted to a SPEC2000 user, each order must be contained in a separate 850 Transaction Set.

This ensures that a proper acknowledgement (SPEC2000 S1BOOKED or X12 855 Transaction Set) will be received by the originator.

3-4. Command Title - Order Status by Part Number

1. Command Code - S1PNSTAT

1.1. Purpose

Provides the ability for the airline to obtain the latest status of all their purchase orders in a supplier's system for a specific Part Number. When the output response is received, this concludes the data exchange. No other acknowledgement is required.

Please note that with this command the mandatory data elements are positional and will not be identified with Text Element Identifiers (TEI's).

This command is transmitted by the customer to the supplier and is not part of the Central Procurement Data Base.

1.2. Input Contents and Sequence

1. **Command Code** (/)
2. **Customer Identification Code** (/)
3. **Part Number** (/)

Maximum of ten part numbers per command.

4. + **Manufacturer Code** (MFR) (/)

Must be used if inquiry is for a nonproprietary part stocked by a supplier.

5. + **Acknowledgement Number** (ACK)
6. + **Supplier Code** (SPL) (/)

+ Indicates conditional data elements

1.3. Output Contents and Sequence

1. **Command Code** (/)
2. **Customer Identification Code** (/)
3. **Part Number** (/)

The **Part Number** which was originally ordered from the supplier.

4. **Response Part Number** (/)

The **Part Number** currently on order or shipped from the supplier.

5. **Keyword Name** (/)
 6. **Unit of Measure Code** (/)
- End of Line---

7. **Customer Order Number** (/)

Multiple order records may be furnished for each **Part Number** reported.

8. **Order Quantity** (/)

- 9. **Order Receipt Date** (/)
- 10. **Specified Shipping Date** (/)
- 11. **Ship-To Code** (/)
- 12. **Specified Shipping Method Code** (/)

---End of Line---

- 13. **Scheduled Shipping Date** (/)

Depending on the status of the order at the time of inquiry, there can be several scheduled shipping dates. The order can be in backorder, released for shipment or shipped. Since all or any one of these statuses can occur, the balance of the TEI's referenced will be used only when they apply. The entire quantity of the order must be covered with a combination of the released, shipped or **Balance Quantity** TEI's.

- 14. + **Balance Quantity** (BLQ) (/)

Any quantity of the order not shipped and not released for shipment is balance quantity.

- 15. + **Shipment Quantity** (SHQ) (/)
- 16. + **Shipped Date** (SHD) (/)
- 17. + **Bill of Lading Number** (BOL) (/)
- 18. + **Invoice Number** (INV) (/)
- 19. + **Invoice Date** (IND) (/)

For the quantity of the order which has been shipped, the above five TEI's may apply.

- 20. + **Release Quantity** (RLQ) (/)
- 21. + **Release Date** (RLD) (/)

For the quantity of the order which has been released, the above two TEI's may apply.

- 22. + **Manufacturer Code** (MFR) (/)
- 23. + **Unit Price Amount** (UNP) (/)

When **Unit Price Amount** (UNP) is used, **International Currency Code** (ICR) is required.

- 24. + **International Currency Code** (ICR) (/)
- 25. + **Reason for Part Number Change - Text** (RFC) (/)

When the **Part Number** ordered and **Part Number** shipped are different, this TEI applies. It must follow all order status information.

- 26. + **Acknowledgement Number** (ACK) (/)
- 27. + **Supplier Code** (SPL) (/)
- 28. + **Remarks Text** (REM)

+ Indicates conditional data elements

2. XML Representations

No XML Schema are supported for S1PNSTAT commands

3-5. Supporting Technical Information

1. Command Code - S1PNSTAT

1.1. Input and Output Examples

1.1.1. Part Number Status Request - One Part Number

CAM
S1PNSTAT/UASMC/ARB0132-503/SPL 12345

The customer is requesting the order status for all orders resident in supplier's system for Part Number ARB0132-503.

1.1.2. S1PNSTAT Response - Single Order

CAM
S1PNSTAT/UASMC/ARB0132-503/ARB0132-503/BOLT/EA/
10141527/2/29057/01087/A/AFC/
29077/**SHQ 2/SHD 29077**/BOL LAX79253/SPL 12345

There was only one order in the supplier's system for Part Number ARB0132-503. The order was for a quantity of 2, and 2 were shipped (SHQ) on 29077 (SHD).

The value of a quantity or amount may not contain the maximum character length of the data element; i.e., preceding zeroes will be eliminated and left justified. In this example, the Order Quantity and Shipment Quantity are "00002", but will be transmitted as "2".

1.1.3. Part Number Status Request - One Part Number

CAM
S1PNSTAT/SNN/12345/TL110-3-10

The customer is requesting the order status for all orders resident in the supplier's system for Part Number TL110-3-10.

1.1.4. S1PNSTAT Response - Single Order

CAM
S1PNSTAT/SNN/TL110-3-10/TL110-3-10/BOLT/EA/
22001684610/200/15017/15087/1/AFC/
15087/**BLQ 200**/SPL 12345

There was only one order in the supplier's system for Part Number TL110-3-10. The order was for a quantity of 200 and 200 are in a Balance Quantity (BLQ) condition.

1.1.5. Part Number Status Request - One Part Number

CAM
S1PNSTAT/AZC/4912834-1/SPL 12345

The customer is requesting the order status for all orders resident in the supplier's system for Part Number 4912834-1.

1.1.6. S1PNSTAT Response - Single Order

CAM
S1PNSTAT/AZC/4912834-1/4912834-1/PIN/EA/
AK421602401/6/01017/19057/A/AFC/
19057/**RLQ 3/RLD 14047**/SPL 12345/
19057/**SHQ 2/SHP 12037/BOL 055LAX31482**/
19057/**BLQ 1**

There was only one order in the supplier's system for Part Number 4912834-1. The order was for a total quantity of 6. Three were released for shipment (RLQ) on 14047 (RLD). Two were shipped (SHQ) on 12037 (SHD) and one was a balance due quantity (BLQ). The status of the entire Order Quantity must be covered.

1.1.7. Part Number Status Request - One Part Number

CAM
S1PNSTAT/AAT/7914599-544/SPL 12345

The customer is requesting the order status for all orders resident in the supplier's system for Part Number 7914599-544.

1.1.8. S1PNSTAT Response - Two Orders

CAM
S1PNSTAT/AAT/7914599-544/7914599-544/NAMEPLTE/EA/
B1979403/3/17077/17127/1/SSC/
17127/SHQ 1/SHD 17107/BOL 001LAX7510/
17127/SHQ 2/SHD 17117/BOL 001LAX7515
B2679401/1/25087/14117/1/AFC/
14117/BLQ 1/SPL 12345

There were two orders resident in the supplier's system, B1979403 and B2679401. The S1PNSTAT line is shown once for Part Number 7914599-544. The status for the first order number is given and then the status for the second order number.

No slash is required at the end of a complete record. When multiple orders exist for a Part Number, a complete record consists of all the information which applies to one purchase order. Therefore, an S1PNSTAT line will exist with a slash at the end, followed by each set of purchase order information (which may be on multiple lines). There is no slash at the end of each set.

1.1.9. Part Number Status Request - One Part Number

CAM
S1PNSTAT/UAS/ANB123

The customer is requesting order status for all orders resident in a supplier's system for Part Number ANB123.

1.1.10. S1PNSTAT Response - Total Quantity Part Number Replacement

CAM
S1PNSTAT/UAS/ANB123/AN124/BACKET/EA/
1013789/10/29067/01087/2/SSC/
29077/SHQ 5/SHD 29076/BOL AB748/SPL 12345
01087/RLQ 3/RLD 01086/
30087/BLQ 2/RFC **SB6614**/UNP 4.00/ICR USD

When the two Part Numbers fields are different the Reason For Part Number Change - Text (RFC) TEI is required. The TEI RFC must follow all order status information.

1.1.11. Part Number Status Request - One Part Number

CAM
S1PNSTAT/AAT/ARC6521-1/SPL 12345

The customer is requesting order status for all orders resident in a supplier's system for Part Number ARC6521-1.

1.1.12. S1PNSTAT Response - Partial Quantity Part Number Replacement

CAM
S1PNSTAT/AAT/ARC6521-1/ARC6521-1/PIN/EA/
758533/10/03027/30057/A/AFC/
30057/SHQ 3/SHD 20047/INV 1236/IND 200487/SPL 12345
S1PNSTAT/AAT/ARC6521-1/ARC6521-501/PIN/EA/
758533/10/03027/30057/A/AFC/
30057/RLQ 7/RLD 20057/RFC SB7501/UNP 105.00/ICR USD/SPL 12345

The supplier has shipped three parts for Part Number ARC6521-1. The Part Number was then changed to ARC6521-501. The S1PNSTAT command is shown for the first Part Number indicating the total Order Quantity of ten. The second Part Number is then shown in a new S1PNSTAT command, also with an original Order Quantity of ten. The shipped quantity (3) and the released quantity (7) must then total the original Order Quantity.

1.1.13. Part Number Status Request - Multiple Part Numbers

```
CAM
S1PNSTAT/UASMC/ANB128
ANB129/SPL 12345
ANB130/SPL 12345
```

The customer is requesting the order status for three part numbers. There can be a maximum of ten part numbers within a single S1PNSTAT inquiry.

1.1.14. S1PNSTAT Response - Three Part Numbers

```
CAM
S1PNSTAT/UASMC/ANB128/ANB128/PIN/EA/
1013790/8/15087/25087/2/SSC/
23087/BLQ 8/SPL 12345
S1PNSTAT/UASMC/ANB129/ANB129/RING/EA/
10317911/5/15057/20077/2/AFC/
20077/RLQ 5/RLD 18077/SPL 12345
S1PNSTAT/UASMC/ANB130/ANB130/SPRING/EA/
1013815/6/28057/28057/2/AFC/
28057/SHQ 6/SHD 28076/BOL AB744/UNP 3.40/ICR USD/
1013820/10/08067/15067/2/SSC/SPL 12345/
15067/SHQ 10/SHD 15066/BOL AB951/UNP 2.30/ICR USD
```

There was one order in the supplier's system for Part Number ANB128 for a quantity of 8. For Part Number ANB129 there was also one order for a quantity of 5. But for Part Number ANB130 there were two order numbers 1013815 and 1013820.

1.1.15. Part Number Status Request - One Part Number

```
CAM
S1PNSTAT/SK5/AAA9902
```

The customer is requesting order status for Part Number AAA9902.

1.1.16. S1PNSTAT Response - Part Number Not On File

```
CAM
S1PNSTAT/SK5/AAA9902/
REM PART NUMBER NOT ON FILE
```

The supplier has received and processed the customer's request but did not find a record for the customer and Part Number specified.

3-6. Command Title - Order Status by Customer Order Number

1. Command Code - S1POSTAT

1.1. Purpose

Provides the ability for the airline to obtain the latest status of an order number in a supplier's system. When the output response is received, this concludes the data exchange. No other acknowledgement is required.

Please note that with this command the mandatory data elements are positional and will not be identified with Text Element Identifiers (TEI's).

This command is transmitted by the customer to the supplier and is not part of the Central Procurement Data Base.

1.2. Input Contents and Sequence

1. **Command Code (/)**
2. **Customer Identification Code (/)**
3. **Customer Order Number (/)**
Maximum of ten order numbers per command.
4. **+ Acknowledgement Number (ACK)**
5. **+ Supplier Code (SPL) (/)**

1.3. Output Contents and Sequence

1. **Command Code (/)**
2. **Customer Identification Code (/)**
3. **Customer Order Number (/)**
---End of Line---
4. **Part Number (/)**
Multiple **Part Number** records may be furnished for each order number, i.e., **Replacing Part Number** condition.
5. **Keyword Name (/)**
6. **Unit of Measure Code (/)**
7. **Order Quantity (/)**
8. **Order Receipt Date (/)**
9. **Specified Shipping Date (/)**
10. **Ship-To Code (/)**
11. **Specified Shipping Method Code (/)**
---End of Line---
12. **Scheduled Shipping Date (/)**

Depending on the condition of the order at the time of inquiry, there can be several scheduled shipping dates. Part of the order can be released for shipment, in backorder, or shipped. Since all or any one of these conditions can occur, the balance of the TEI's referenced will be used only when they apply. The entire quantity of the order must be covered with a combination of the released, shipped or **Balance Quantity** TEI's.

13. + **Balance Quantity** (BLQ) (/)

Any quantity of the order not shipped and not released for shipment is a **Balance Quantity**.

14. + **Shipment Quantity** (SHQ) (/)

15. + **Shipped Date** (SHD) (/)

16. + **Bill of Lading Number** (BOL) (/)

17. + **Invoice Number** (INV) (/)

18. + **Invoice Date** (IND) (/)

For the quantity of the order which has been shipped, the above five TEI's may apply.

19. + **Release Quantity** (RLQ) (/)

20. + **Release Date** (RLD) (/)

For the quantity of the order which has been released, the above two TEI's may apply.

21. + **Manufacturer Code** (MFR) (/)

22. + **Unit Price Amount** (UNP) (/)

When **Unit Price Amount** (UNP) is used, **International Currency Code** (ICR) is required.

23. + **International Currency Code** (ICR) (/)

24. + **Acknowledgement Number** (ACK) (/)

25. + **Supplier Code** (SPL) (/)

26. + **Remarks Text** (REM)

+ Indicates conditional data elements.
--

2. XML Representations

The XML Schema representation of the S1POSTAT Order Status Inquiry by Customer Order Number is ATA_SparesOrderStatusInquiry, refer to [Appendix A10-3.4.15](#). The XML Schema representation of the S1POSTAT Order Status Inquiry by Customer Order Number is ATA_SparesOrderStatusResponse, refer to [Appendix A10-3.4.16](#).

3-7. Supporting Technical Information

1. Command Code - S1POSTAT

1.1. Input and Output Examples

1.1.1. Order Status Request - One Order Number

CAM
S1POSTAT/UASMC/10141527

The customer is requesting the order status for a specific Customer Order Number (10141527).

1.1.2. S1POSTAT Response - One Order Number

CAM
S1POSTAT/UASMC/10141527/
ARB0132-503/BOLT/EA/2/29057/01087/A/AFC/
29077/SHQ 2/SHD 29077/BOL LAX79253/SPL 12345

The supplier is giving the status of an order for a quantity of two. Both parts were shipped (SHQ) on 29077 (SHD). There was no Replacing Part Number applied to this order.

The value of a quantity or amount may not contain the maximum character length of the data element; i.e., preceding zeros will be eliminated and left justified. In this example the Order Quantity and Shipment Quantity are "00002", but will be transmitted as "2".

1.1.3. Order Status Request - One Order Number

CAM
S1POSTAT/SNN/22001684610

The customer is requesting status for a specific Customer Order Number (22001684610).

1.1.4. S1POSTAT Response - One Order Number

CAM
S1POSTAT/SNN/22001684610/
TL110-3-10/BOLT/EA/200/15017/15087/1/AFC/
15087/BLQ 200/SPL 12345

The supplier is giving the status of an order for a quantity of 200. The 200 parts are in a balance due condition (BLQ). There was no Replacing Part Number applied to this order.

1.1.5. Order Status Request - One Order Number

CAM
S1POSTAT/AZC/AK42160

The customer is requesting status for a specific Customer Order Number (AK42160).

1.1.6. S1POSTAT Response - Split Deliveries

CAM
S1POSTAT/AZC/AK42160/
4912834-1/PIN/EA/01017/19057/A/AFC/
19057/RLQ 3/RLD 14047/SPL 12345/
19057/SHQ 2/SHP 12037/BOL 055LAX31482/
19057/BLQ 1

The supplier is giving the status of an order number for a quantity of 6. Three parts have been released for shipment (RLQ), two parts have been shipped (SHQ), and one part has a balance due (BLQ). There was no Replacing Part Number applied to this order.

1.1.7. Order Status Request - One Order Number

CAM
S1POSTAT/EA1/89EA1234561

The customer is requesting status for a specific Customer Order Number (89EA1234561).

1.1.8. S1POSTAT Response - Multiple Part Numbers

CAM
S1POSTAT/EA1/12345/89EA1234561/
AAA7009-1/PIN/EA/4/02026/04046/A/AFC/
04046/SHQ 2/SHD 04046/BOL LAX123046/INV 1234/
IND 040487/SPL 12345
AWJ5007-501/PIN/EA/4/02026/04046/A/AFC/
04046/RLQ 2/RLD 04046/SPL 12345

A Replacing Part Number has been applied to a portion of the customer order number requested. The total quantity of the order was 4. Two have been shipped (SHQ) for Part Number AAA7009-1. The data is given for the first Part Number (AAA7009-1). At the end of the first Part Number record there is no slash. The second Part Number AWJ5007-501 and its associated elements are then started on a new line. The entire order quantity must be covered between the two part numbers. The second Part Number shows a quantity of two released for shipment (RLQ). Please note, the S1POSTAT command line is not repeated.

No slash is required at the end of a complete record. There may be multiple part numbers within a purchase order, i.e., Replacing Part Number condition. A complete record is then defined as all information pertaining to a Part Number within a purchase order. Therefore, an S1POSTAT line will exist with a slash at the end, followed by each set of Part Number information (which may be on multiple lines). There is no slash at the end of each set.

1.1.9. Order Status Request - Multiple Order Numbers - with Request for Receipt Acknowledgement

CAM
S1POSTAT/AAT26/7326001234
73206016789/ACK 00456

The customer is requesting the status of two customer order numbers. The customer is also requesting an acknowledgement by including the ACK TEI.

1.1.10. Receipt Acknowledgement

CAM
S1CMDACK/02/00456

The supplier is confirming receipt of the message. The ACK TEI can now be ignored for the response to the customer request.

1.1.11. S1POSTAT Response - Multiple Output

CAM
S1POSTAT/AAT26/7326001234/
8906K2694/SWITCH/EA/10/30057/20067/A/SSC/
30067/BLQ 10/UNP 1.20/ICR USD/SPL 12345
S1POSTAT/AAT26/73206016789/
2500169-201/RESISTR/EA/10/20067/29077/A/SSC/
29077/SHQ 5/SHD 29077/BOL A859/
15087/RLQ 3/RLD 15087/
30107/BLQ 2/SPL 12345

The supplier is giving the order status for 7326001234 and 73206016789. Each order number is responded to with a complete record including the S1POSTAT command.

1.1.12. Order Status Request - Order Not On File

CAM

S1POSTAT/AYH/7511457

The customer is requesting status for order number 7511457.

1.1.13. S1POSTAT Response - Order Not On File

CAM
S1POSTAT/AYH/7511457/
REM ORDER NOT ON FILE

The supplier has received and processed the customer's request but did not find a record for the customer and order number specified.

3-8. Command Title - Order Exception

1. Command Code - S1ORDEXC

1.1. Purpose

Once an order has been entered into a supplier's system and changes occur, such as Part Number, schedule dates, unit of measure, unit price, and quantity increases or decreases, the customers are notified by the supplier transmitting an order exception message. If the supplier is making the change at the request of a customer, the order exception message is not transmitted. The intent of this command is, as its name implies, an exception to the order where the customer is unaware of the change. This command only applies to orders which are acknowledged by the supplier.

When the messages are received by the customer, the specification provides a method for the customer to acknowledge receipt of the exceptions. When there is a disagreement with the supplier's batch controls, the rejection procedure in [Appendix 4](#) applies.

Please note that with this command the mandatory data elements are positional and will not be identified with Text Element Identifiers (TEI's).

This command is transmitted to the customer by the supplier and is not part of the Central Procurement Data Base.

1.2. Input Contents and Sequence

Not required as this message is generated by the supplier.

1.3. Output Contents and Sequence

1. **Command Code** (/)
2. **Customer Code** (/)
3. **Supplier Code** (/)
4. **Purchase Order Count** (/)
5. + **Batch Number** (BNO) (/)
6. + **Total Control Quantity** (QTL) (/)

Data in 1. through 6. is transmitted once for each group of order exceptions.

---End Of Line---

7. **Customer Order Number** (/)
8. **Part Number** (/)
9. + **Replacing Part Number** (RPN) (/)

When the RPN TEI is used the Interchangeability Code (INC) is required.

When the RPN TEI is used, Manufacturer Code (MFR) is required unless it is identical to the Supplier Code (SPL).

10. + **Interchangeability Code** (INC) (/)

When the INC TEI is used the Replacing Part Number (RPN) is required. See also number 18, Manufacturer Code (MFR).

11. + **Increase Quantity** (ICQ) (/)

When the ICQ TEI is used, the Order Quantity (QTO) is required.

12. + **Decrease Quantity** (DCQ) (/)

When the DCQ TEI is used, the Order Quantity (QTO) is required.

13. + **Order Quantity** (QTO) (/)

Only required where ICQ, DCQ , or SCD is used.

14. + **Unit of Measure Code** (UNT) (/)15. + **Unit Price Amount** (UNP) (/)

When UNP TEI is used, Currency Code (ICR) is required.

16. + **International Currency Code** (ICR) (/)

When ICR is used, Unit Price Amount (UNP) is required.

17. + **Scheduled Shipping Date** (SCD) (/)

When the SCD TEI is used, the Order Quantity (QTO) is required. The SCD must contain a valid date. The only exception is when the Scheduled Shipping Date is unknown (pending) for a part or all of an order, then zeroed may be used in the SCD date for the unknown quantity.

18. + **Manufacturer Code** (MFR) (/)

When the RPN TEI is used, Manufacturer Code (MFR) is required unless it is identical to the Supplier Code (SPL).

19. + **Discount Percent** (DIS) (/)

May not be used when Procurement Discount Percent (PDP) is transmitted.

20. + **Procurement Discount Percent** (PDP) (/)

May not be used when Discount Percent (DIS) is transmitted.

21. + **Packaging Code** (PKG) (/)22. + **VAT Registration Number** (VRN) (/)23. + **Acknowledgement Number** (ACK) (/)24. + **Remarks Text** (REM)

Used for clarification of a particular order exception as required.

+ Indicates conditional data elements.
--

2. Customer Order Exception Acknowledgement

2.1. Purpose

When an order exception or a group of exceptions is received by the customer, an acknowledgement is transmitted to the supplier. If the Purchase Order Count or Total Control Quantity counts disagree, the rejection procedure applies (Ref. [Appendix 4](#)).

Receipt of the customer's acknowledgement at the supplier's facility completes the transaction. (No acknowledgement is sent by the supplier to the customer).

Note:	No acknowledgement is expected or required if the Order Exception message does not include a Batch Number (BNO).
-------	--

2.2. Response Contents and Sequence

1. **Command Code** (/)
2. **Customer Code** (/)
3. **Supplier Code** (/)
4. **Purchase Order Count** (/)
5. **+ Batch Number** (BNO) (/)
6. **+ Total Control Quantity** (QTL) (/)
7. **+ Acknowledgement Number** (ACK)

When 5 and 6 are transmitted to the customer, they must be validated and returned on the customer exception acknowledgement.

3. XML Representations

The XML Schema representation of the S1ORDEXC Order Exception is ATA_SparesOrderExc, refer to [Appendix A10-3.4.14](#). The XML Schema representation of the S1ORDEXC Order Exception Acknowledgement is ATA_SparesMessageAck, refer to [Appendix A10-3.4.12](#).

3-9. Supporting Technical Information

1. Command Code - S1ORDEXC

1.1. Output and Acknowledgement Examples

1.1.1. Batch of Order Exceptions - Balancing the Batch

```
CAM
S1ORDEXC/TWA/36659/6/BN0 15/QTL 13/
14950630368/1563993-101/RPN 1569514-101/INC 1
1190737-326/1506400-106/UNP 219.00/ICR USD
11943720626/1534246-101/QTO 8/SCD 25016
11913680777/776543/UNP 255.00/ICR USD/PKG 3
11914467800/1504413/UNP 149.00/ICR USD
11914467801/5244/QTO 5/SCD 28088
```

There are six order numbers within the batch. The first shows a Replacing Part Number condition, the second a unit price change, the third a schedule date change, the next two are unit price changes, and the last order is a schedule date change.

Customer Acknowledgement - Balancing the Batch

```
CAM
S1ORDEXC/TWA/36659/6/BN0 15/QTL 13
```

Two data elements are used by the customer to balance a batch of order exceptions. The Purchase Order Count (a mandatory data element) and the conditional data element, Total Control Quantity (QTL).

The Purchase Order Count must equal the number of orders within the S1ORDEXC message. If the supplier transmitted the QTL, the customer will sum each Order Quantity (QTO) contained in the S1ORDEXC message. The total summation must equal the QTL.

If the balancing check(s) agree, the customer will send the customer acknowledgement. Otherwise a reject message (Ref. [Appendix 4](#)) will be transmitted.

1.1.2. Batch of Order Exceptions

```
CAM
S1ORDEXC/TWA/36659/5/BN0 15/QTL 8/
14950630368/1563993-101/RPN 1569514-101/INC 1
1190737-326/1506400-106/UNP 219.00/ICR USD
11943720626/1534246-101/QTO 8/SCD 25016
11913680777/776543/UNP 255.00/ICR USD/PKG 3
11914467800/1504413/UNP 149.00/ICR USD
```

There are five order numbers within the batch. The first shows a Replacing Part Number condition, the second a unit price change, the third a schedule date change, the last two are unit price changes.

Customer Acknowledgement

```
CAM
S1ORDEXC/TWA/88277/1/BN0 15/QTL 8
```

Total Control Quantity (QTL) is a conditional data element and may not always be present. But when it exists in the message, the customer must sum all order quantities (QTO) for each order number. In this example, only one Order Quantity (QTO 8) is referenced within the batch and it balances against the QTL 8.

1.1.3. Quantity Change - Increase to an Order

```
CAM
S1ORDEXC/TWA/88277/1/BN0 2/QTL 10/
331568/7506321-2/ICQ 2/QTO 10/
REM MIN SALES QTY
```

The supplier has increased the customer's Order Quantity because of Minimum Sales Quantity. The order has been increased by 2 (ICQ) and the customer now has 10 parts on order (QTO). Where the supplier has provided procurement information establishing a minimum Order Quantity for a Part Number and the order fails to meet the minimum quantity, the supplier shall increase the customer's order to the minimum quantity and send the appropriate order exception to the customer.

Customer Acknowledgement

CAM
S10RDEXC/TWA/88277/1/BN0 2/QTL 10

Since the supplier has elected to use a Batch Number and a Total Control Quantity (QTL), the customer must validate and return both data elements on the acknowledgement.

1.1.4. Quantity Change - Decrease to an Order

CAM
S10RDEXC/AAT/88277/1/BN0 1/
B7923541/4523751/DCQ 3/QTO 0

The supplier has decreased the customer's order by 3 parts. Since the Order Quantity (QTO) is zero, this was a total cancellation.

Customer Acknowledgement

CAM
S10RDEXC/AAT/88277/1/BN0 1

1.1.5. Unit of Measure Code Change

CAM
S10RDEXC/AZA/77445/1/BN0 12/
134B45/7896714-3/UNT EA

The supplier is telling the customer the unit of measure for order number 134B45 has been changed to each.

Customer Acknowledgement

CAM
S10RDEXC/AZA/77445/1/BN0 12

1.1.6. Schedule Shipping Date Changes

CAM
S10RDEXC/BAW/77445/1/
67135/1526962-104/QTO 4/SCD 15066/
QTO 5/SCD 15096/QTO 6/SCD 15106

The supplier is giving the customer new schedule information. When giving schedule date changes, the entire unshipped quantity of the customer's order must be included. Additionally, the Scheduled Shipping Date (SCD) change and the Order Quantity (QTO) are always used as a pair.

Customer Acknowledgement

Note:	No acknowledgement is expected or required if the Order Exception message does not include a Batch Number (BNO).
--------------	---

1.1.7. Schedule Shipping Date Changes - Date Unknown

CAM
S10RDEXC/BAW/77445/1/
67255/22526962-101/QTO 4/SCD 15066/
QTO 11/SCD 00000

The supplier is giving the customer new schedule information, but only knows the schedule for part of the Order Quantity. When giving schedule date changes, the entire unshipped quantity of the customer's order must be included in the message. Therefore, the Scheduled Shipping Date (SCD) will contain ZEROES for the Order Quantity (QTO) pending a schedule.

Customer Acknowledgement

1.1.8. Batch Number Required

No acknowledgement is expected or required, if the Order Exception message (S1ORDEXC) does not include a Batch Number (BNO).

1.1.9. Part Number Replacement

```
CAM
S1ORDEXC/TWA/81205/1/BNO 14/
1250014516/65B123452/RPN 65B12345-3/INC 2/
UNP 1.00/ICR USD/
REM SB1234
```

The supplier is informing the customer the Part Number has been changed on their order. The Interchangeability Code (INC) must also be included in the message.

```
CAM
S1ORDEXC/LHA/062W0/1/BNO 75/
12147319909/9644M72P01/RPN 9644M72P03/INC 2/UNT EA/UNP 6.75/ICR USD/
QTO 2000/SCD 18047/MFR 07482/
REM ORDEXC INC CODE IS PER SPEC 2000 DEFINITION EFF 1-1-93/
REM ALTERNATE
```

The supplier is informing the customer of a Part Number for which the Manufacturer Code is not identical to the Supplier Code.

Note:	When the customer includes the Do Not Substitute (DNS) indicator on the order, the part number is not to be changed by the supplier
-------	---

Customer Acknowledgement

```
CAM
S1ORDEXC/TWA/81205/1/BNO 14
```

1.1.10. Part Number and Quantity Changes

```
CAM
S1ORDEXC/TWA/88277/1/BNO 21/
12500/AB550-1/RPN AB550-1N/INC 2/
UNP 58.00/ICR USD
S1ORDEXC/TWA/88277/1/BNO 22/QTL 3/
86201/ARK7055-1/ICQ 1/QTO 3/
REM MIN SALES QTY
```

Changes to order quantities must be transmitted separately from other changes. The first S1ORDEXC references a Part Number change. The second S1ORDEXC describes a quantity increase to an order. The two S1ORDEXC commands can be transmitted within the same telecommunications message.

Customer Acknowledgement

```
CAM
S1ORDEXC/TWA/88277/1/BNO 21
S1ORDEXC/TWA/88277/1/BNO 22/QTL 3
```

An acknowledgement for each S1ORDEXC batch (batch numbers 21 and 22) must be returned to the supplier.

1.1.11. Unit of Measure and Quantity Changes

```
CAM
```

S1ORDEXC/UAS/88277/1/BNO 25/
8700350/ARP9925-1/UNT EA
S1ORDEXC/UAS/88277/1/BNO 26/QL 10/
8700350/ARP9925-1/DCQ 90/QT0 10/
REM Sold in 10 FT length

When the unit of measure Part Number ARP9925-1 changed from “feet” to “each”, the quantity of this order was decreased. The two order alterations for this order must be transmitted in different S1ORDEXC commands because quantity changes are transmitted separately.

Customer Acknowledgement

CAM
S1ORDEXC/UAS/88277/1/BNO 25
S1ORDEXC/UAS/88277/1/BNO 26/QL 10

2. Procedure Division - S1ORDEXC

When the supplier alters a customer's order, the supplier will inform the customer through the S1ORDEXC Command Code. The customer will then respond back to the supplier with an S1ORDEXC acknowledgement message.

These are the type of changes communicated in this command:

Replacing Part Number

Unit Price Amount

International Currency Code

Order Quantity - Increases and Decreases

Unit of Measure

Scheduled Shipping Date

Packaging Code

Discount Percent

Procurement Discount Percent

The first line contains 4 mandatory data elements. Although the Batch Number (BNO) is a conditional data element, the supplier should assign a Batch Number. No acknowledgement is expected or required if the Order Exception message does not include a Batch Number (BNO).

The lines which follow the S1ORDEXC Command Code line contain all the orders and the specific alterations which have occurred. The only restrictions to the message are certain groupings of data elements, and quantity changes must be transmitted separately (in a separate S1ORDEXC command).

When certain changes occur, specific data elements must be grouped together:

1. Replacing Part Number changes must show order number, original Part Number, Replacing Part Number (RPN) and Interchangeability Code (INC).

If the Manufacturer Code (MFR) is different from the Supplier Code (SPL) then the Manufacturer Code must be included in the S1ORDEXC message.

2. Price or currency changes must show order number, Part Number (which may be the Replacing Part Number if a replacement occurred), Unit Price Amount (UNP), International Currency Code (ICR), and either Discount Percent (DIS) or Procurement Discount Percent (PDP) if it applies.

3. Order quantity changes must show order number, **Part Number** (which may be the replacing part if a replacement occurred), the increased (ICQ) or decreased (DCQ) quantity, and the **Order Quantity** (QTO).
4. **Scheduled Shipping Date** changes must show order number, **Part Number** (which may be the **Replacing Part Number** if a replacement occurred), **Scheduled Shipping Date** (SCD) and **Order Quantity** (QTO). The SDC may contain ZEROES when the schedule for a partial **Order Quantity** is pending (unknown).

Unit of Measure Code changes may cause a change in the Order Quantity. An example would be the unit of measure changing from “feet” to “each”. When this occurs, the unit of measure change is transmitted in a separate S1ORDEXC command from the quantity change.

3-10. Command Title - Shipment Advisories

1. Command Code - S1SHIPPD

1.1. Purpose

When a part is shipped by a supplier, a message is transmitted to the customer giving pertinent shipping information for orders previously placed with the supplier.

S1SHIPPD messages will be generated for each shipment made until the requested quantity of a previously placed order is satisfied.

Acknowledgement of receipt of the shipment advisory message is not required. However, the customer can respond with an S1REJECT transmission if validation check of the message fails.

Please note that with this command the mandatory data elements are positional and will not be identified with Text Element Identifiers (TEI's).

This command is transmitted to the customer by the supplier and is not part of the Central Procurement Data Base.

1.2. Input Contents and Sequence

Not required as this message is generated by the supplier.

1.3. Output Contents and Sequence

1. **Command Code** (/)
2. **Customer Code** (/)
3. **Supplier Code** (/)
4. **Customer Order Number** (/)
5. **Part Number** (/)
6. **Shipment Quantity** (/)
7. **Unit of Measure Code** (/)
8. **Ship-To Code** (/)
9. **Shipped Date** (/)
10. + **Packing Sheet Number** (PSN) (/)
11. + **Bill of Lading Number** (BOL) (/)

May have multiple occurrences when multiple containers are used for a single Purchase Order item shipment. *

12. + **Bill of Lading Container Count** (BLS) (/)

May have multiple occurrences when multiple containers are used for a single Purchase Order item shipment. *

13. + **Bill of Lading Weight - Text** (BLW) (/)

May have multiple occurrences when multiple containers are used for a single Purchase Order item shipment. *

14. + **Priority Code** (PRI) (/)

15. + **Carrier Name** (CAR) (/)

16. + **Master Carton Number** (BOX) (/)

May have multiple occurrences when multiple containers are used for a single Purchase Order item shipment.

17. + **Container Size and Weight - Text** (SWT) (/)

May have multiple occurrences when multiple containers are used for a single Purchase Order item shipment.

18. + **Actual Shipment Method Code** (SHM) (/)

19. + **Shipped From Location Code** (SHF) (/)

20. + **Manufacturer Code** (MFR) (/)

21. + **International Commodity Code** (ICC) (/)

22. + **Acknowledgement Number** (ACK) (/)

23. + **Remarks Text** (REM)

+ Indicates conditional data elements

*Note	When multiple BOL's or BOX's are provided on a single S1SHIPPD message, it is strongly suggested to group the applicable conditional data elements as follows: BOL BLS BLW BOX SWT This will allow an easier association of the related data elements. See the following sections for examples.
-------	---

2. XML Representations

The XML Schema representation of the S1SHIPPD Shipment Advisory is ATA_SparesSupplierShipNotice, refer to [Appendix A10-3.4.17](#).

3-11. Supporting Technical Information

1. Command Code - S1SHIPPD

1.1. Output Examples

1.1.1. Shipment Advisory - One Order Number

CAM
S1SHIPPD/TWA/31205/12345672201/42068864/100/EA/S/
10106/PSN A51541/BOL 427192/BOX A21754/SWT 50X15X10IN50LB

The supplier is advising the customer that order number 12345672201 has been shipped.

1.1.2. Shipment Advisory - Separate Message Transmissions of Multiple Order Numbers

CAM
S1SHIPPD/AAT/88277/Y1234567/AAA7009-1/50/EA/1/
10056/PSN A51541/BOL LAX1492749/SWT 30X30X30IN50LB

CAM
S1SHIPPD/AAT/88277/Y124467/5913406/10/EA/1/
10056/PSN A51541/BOL LAX1492749/SWT 05X10X05IN50LB

Two customer order numbers have been shipped by the supplier and were shipped on the same day on the same Bill of Lading Number. The supplier may elect to send individual shipment advisory messages, as shown above, for each item in a shipment. But, if the supplier elects to group their shipments, the supplier can send within one message transmission multiple shipment messages but must repeat the S1SHIPPD command for each item. (See next example.)

1.1.3. Shipment Advisory - Single Message Transmission of Multiple Order Numbers

CAM
S1SHIPPD/AAT/88277/Y1234567/AAA7009-1/50/EA/1/
10056/ PSN A51541/BOL LAX1492749/SWT 30X30X30IN50LB
S1SHIPPD/AAT/88277/Y124467/5913406/10/EA/1/
10056/PSN A51541/BOL LAX1492749/SWT 05X10X05IN50LB

Two customer order numbers have been shipped by the supplier. Although both were shipped on the same day on the same Bill of Lading Number a complete record including the S1SHIPPD command will be sent to the customer for each order number.

1.1.4. Shipment Advisory - Single Purchase Order Requiring Multiple Cartons

CAM
S1SHIPPD/KLM/07482/E006827A06/9083M1P09/400/EA/01024/
PSN A51541/PRI USR/CAR AC-EXPRESS/BOL ACX4896/BLS 2/BLW 270LB/
BOX E34544/SWT 36X25X36IN150LB/BOX E34544/SWT 36X30X40IN120LB

1.1.5. Shipment Advisory - Single Purchase Order Requiring Multiple Bills of Lading

CAM
S1SHIPPD/KLM/07482/E006827A06/9083M1P09/400/EA/01024/
PSN A51541/PRI USR/CAR FEDEX/BOL FEDEX4896/BLS 1/BLW 150LB/
BOX E34544/SWT 36X25X36IN150LB/BOL FEDEX4879/BLS 1/BLW 120 LB

3-12. Command Title - Purchase Order 'Book-Back'

1. Command Code - S1BOOKBK

1.1. Purpose

The "Book Back" command is a method for a supplier to electronically provide information directly to a customer about orders placed via the Internet or other nontraditional methods (i.e. other than traditional Type B messaging via the ARINC/SITA networks, for example, via fax, telephone, or hard-copy).

The 'Book Back' command is necessary because, due to emergency ordering situations, a customer may place orders into a supplier's system (for example, via the Internet) without updating his own system (such as a SPEC2000 compliant legacy system). If such a situation were to arise, subsequent SPEC2000 messages from the supplier in response to a purchase order (for example, shipment or schedule advisories) would be rejected by the customer's computer system.

The S1BOOKBK message has been defined to alert the airline customer that an order has been placed using other than SPEC2000 methodology. The airline customer may use the S1BOOKBK message content as valid confirmation of his own original purchase order. The 'Book Back' command can be used by a supplier to acknowledge that an order has entered his system in a nontraditional SPEC2000 format.

The 'Book Back' process is not mandatory, but would be mutually agreed upon between trading partners.

The 'Book Back' message is intended to be informational only; it is not meant to automatically update any airline customer's system.

This command is transmitted by the supplier to the airline customer only and is not valid for the Central Procurement Data Base.

An acknowledgement to the S1BOOKBK message (from airline customer to supplier) is not required.

1.2. Input Contents and Sequence

1. **Supplier Code** (SPL) (/)
2. **Customer Code** (CUS) (/)
3. **Order Transaction Code** (TNC) (/)

For the first character, select one of the following:

- 3 - Normal Order
- L - Normal Confirming Order
- 4 - Expedite order
- M - Expedite Confirming Order

For the second character, select one of the following:

- 2 - Initial Provisioning Item
- 3 - New Stock Item
- 4 - Replenishment Stock Item
- 5 - Allocation Item
- 6 - Special Requirement Item
- 9 - Special Business Agreement*

For the third character, select one of the following:

- 1 - Routine Action
- 2 - Acceptance of a Quotation
- 3 - Alteration to an order
- 6 - Cancel or decrease an order
- 8 - Increase an order
- 9 - Request partial ship quantity of an open order. *

4. **Customer Order Number (CPO) (/)**

The order number is a unique number representing one **Part Number**.

5. **Part Number (PNR) (/)**

6. **Order Quantity (QTO) (/)**

7. **Unit of Measure Code (UNT)(/)**

8. **Unit Price Amount (UNP) (/)**

Not required.

9. **International Currency Code (ICR) (/)**

10. **Specified Shipping Date (SSD) (/)**

11. + **Specified Shipping Method Code (SSM) (/)**

12. + **Ship-To Code (SHT) (/)**

13. + **Quotation Number (QTN) (/)**

Should be used, if applicable.

14. + **Shipment Date Control Indicator (SDC) (/)**

Cannot be used with priority AOG and WSP.

15. + **Priority Code (PRI) (/)**

Valid priorities are:

AOG - Aircraft On Ground

WSP - Work Stoppage

USR - Urgent Stock Replenishment

16. + **Aircraft Registration Number (ACN) (/)**

Must be used when priority referenced is AOG.

2. XML Representations

The XML Schema representation of the S1BOOKBK Purchase Order Book-Back is ATA_SparesOrderBookback, refer to [Appendix A10-3.4.13](#).

3-13. Supporting Technical Information

1. Command Code - S1BOOKBK

1.1. S1BOOKBK Message For A Single Purchase Order

When the supplier receives an order via the Internet (or other than SPEC2000 S1BOOKED), it will be mutually agreed between trading partners for the supplier to transmit a 'Book Back' command.

1.1.1. Example 1: S1BOOKBK Message Returned To Acknowledge a Single Purchase Order

```
CAM
S1BOOKBK/SPL 81205/CUS QF2/TNC 441/
CPO E0IJ1234567/PNR 65B2468/QTO 1/UNT EA/UNP 155.00/ICR USD/
SSD 15070/SHT A/SSM AFC/PRI AOG/ACN 22345
```

The customer has placed a single order with the supplier via the Internet and the supplier's system is programmed to return to the airline customer the 'Book Back' order information per order. The 'Book Back' information should be exactly as received in the purchase order into the supplier's system.

1.2. S1BOOKBK Messages For Multiple Purchase Orders

1.2.1. Example 2: Two S1BOOKBK Messages As One Transmission

```
CAM
S1BOOKBK/SPL 81205/CUS DLA/TNC 441/
CPO 7272500890/PNR 65B5578/QTO 1/UNT EA/SSD 23050/SHT A/
SSM AFC/PRI WSP
S1BOOKBK/SPL 81205/CUS DLA/TNC 441/
CPO 7301200450/PNR AAA7005-1/QTO 1/UNT EA/SSD 22050/SHT A/
SSM AFC/PRI AOG/ACN 22345
```

Notice the customer has entered two orders into a supplier's system and the supplier's system is defined to transmit the order information to the customer. This example shows that there may be only one order per 'Book Back' command. This could have been sent out as separate messages; i.e. two CAM messages.

1.2.2. Example 3: Two S1BOOKBK Messages As Two Transmissions

```
CAM
S1BOOKBK/SPL 81205/CUS DLA/TNC 441/
CPO 7272500890/PNR 65B5578/QTO 1/UNT EA/SSD 23050/SHT A/
SSM AFC/PRI WSP

CAM
S1BOOKBK/SPL 81205/CUS DLA/TNC 441/
CPO 7301200450/PNR AAA7005-1/QTO 1/UNT EA/SSD 22050/SHT A/
SSM AFC/PRI AOG/ACN 22345
```

This example demonstrates that the airline customer has sent two orders to a supplier system and the supplier's system is defined to transmit the 'Book Back' information to the customer. There may be only one order per 'Book Back' command per order, but the example shows that the S1BOOKBK messages may be transmitted as two separate messages.

Chapter 4. Customer Invoicing

4-1. Overview

1. Purpose

The invoicing process defines the automated method for the billing of purchase orders. This chapter establishes standards designed to expedite and simplify the transmission of invoices.

2. General Description

The specification defines standards for the transmission of debit and credit invoice data from the supplier to the customer including customer acknowledgement, invoice exception and rejection.

3. Benefits

Standardization of invoice data assists the customer when matching the invoice to the purchase order record. Electronic transmission of the invoice reduces administrative costs for both the supplier and customer and permits automated data entry.

4-2. Command Title - Customer Invoicing

1. Command Code - S1NVOICE

1.1. Purpose

Provides an automated method for the supplier to transmit and the customer to acknowledge invoice data.

The combination of Customer Order Number and supplier Invoice Number makes an invoice unique.

The customer must respond to a transmitted invoice with an S1NVOICE acknowledgement or with an S1REJECT if the invoice record does not meet minimum edit requirements.

Please note that when S1NVOICE is used, the mandatory data elements are identified with text element identifiers (TEI's) and are not positional.

Invoice data is exchanged between the supplier and the customer independent of the central procurement data base.

2. Input Contents and Sequence

Not required as this message is generated by the supplier.

3. Output Contents

1. **Command Code** (/)
2. **Customer Code** (CUS) (/)
3. **Supplier Code** (SPL) (/)
4. **Customer Order Number** (CPO) (/)
5. **Part Number** (PNR) (/)
6. **Invoice Number** (INV) (/)

Note:	The Invoice Number field has been expanded in the 2014 edition
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7. **Invoice Quantity** (INQ) (/)
8. **Unit of Measure Code** (UNT) (/)
9. **Unit Price Amount** (UNP) (/)
10. **Invoice Date** (IND) (/)
11. **Invoice Net Amount** (INA) (/)
12. **Invoice Type Code** (ITC) (/)
13. **Payable Amount** (PAY) (/)
14. **International Currency Code** (ICR) (/)
15. **Ship-To Code** (SHT) (/)
16. **Packing Sheet Number** (PSN) (/)
17. **+ Bill of Lading Number** (BOL) (/)