



COMMERCIALAIRPLANESGROUP

**SUPPLIERNETWORK**  
**ElectronicDataInterchange**



Issued:August8,2005

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# TelephoneContactList

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Refer all questions regarding this Implementation Guide to:

RobHanus	EC/EDISpecialist	(425)234 -2987	robert.d.hanus@boeing.com
DianeJohnson	EC/EDISpecialist	(425)234 -2984	diane.m.johnson@boeing.com

BoeingCommercialAirplaneGroup  
P.O.Box3707,M/S67 -HJ,  
Seattle,WA98124 -2207

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# RevisionSection

Date	Name	DescriptionofChange
11/4/02	R.Huber	OriginalVersioninthisstand -aloneformat.
08/08/05	D.Johnson	RemoveallreferencestoUn/Edi fact

# Introduction

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## Overview

The Purchasing Control On-line System (PCOS) currently co-exists with Enterprise Resource Planning (ERP). PCOS is being phased out by the Airplane model. It is currently estimated that the move to ERP will be complete by third or fourth quarter 2003. The PCOS retirement will follow some time within the next few years.

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## Benefits of EDI

EDI provides many benefits to support your business in achieving its objectives. Keep the following in mind as we begin to work together to implement the AS/NEDI Application.

- ◆ EDI reduces paperwork (form handling), data entry labor costs, postage costs, and printing costs.
- ◆ EDI supports the concept of Just In Time (JIT) manufacturing by promoting improvement in flow time to enhance inventory control.
- ◆ EDI drives out inefficiencies in the business process.

Organizations choosing EDI should consider that the full benefits are only received when both parties fully integrate the EDI data into their applications systems.

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## Key Steps

### COMMERCIAL AIRPLANES

1. The Commercial Airplanes Supplier Network EDI Group will provide the applicable documents (e.g. implementation guides/mapping specifications) to the trading partner.

### TRADING PARTNER

1. The trading partner must map the new specifications (maps) provided by Commercial Airplanes by:
    - a) mapping internally or
    - b) acquiring overlays from an EDI translation software provider
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## Trading Partner Agreement

Commercial Airplanes and its existing EDI suppliers have signed trading partner agreements that outline electronic business communications. Re-negotiation or revision to these existing signed agreements are not required for the implementation of this transaction.

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# EDI Standards

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## AIA Compliance

Boeing Commercial Airplane is a member of the Aerospace Industry Association's (AIA) Electronic Enterprise Working Group (EEWG). The AIA EEWG's purpose is to review the ANSI X12 transaction sets used within the aerospace industry and harmonize them. To harmonize means to define common transaction set template(s). This will enable all companies within the aerospace industry to use a common format. This applies to aerospace manufacturers as well as suppliers.

Please feel free to contact any of the EDI specialists listed at the beginning of this implementation guide if you would like to discuss this further.

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## EDI Standards and Transaction Sets

The following **ANSI ASCX12** Version 4010 transactions are supported:

- 850 -Purchase Order
- 855 -Purchase Order Acknowledgment
- 856 -Advance Shipment Notice
- 860 -Purchase Order Change
- 865 -Purchase Order Change Acknowledgment
- 997 -Functional Acknowledgment

### Purchase Order and Purchase Order Change and Acknowledgements

- The ANSI ASCX12 **850** transaction set message requires the **855** to be returned within 10 days of issue of the original Purchase Order.
  - The ANSI ASCX12 **860** transaction set message requires the **865** to be returned within 10 days of issue of the Purchase order change.
  - The ANSI ASCX12 **997** transaction set message is required to be returned with 48 hours of the **850/860** being sent to the Trading Partner.
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# EDI Integration Test

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## Purpose

This section defines Boeing Commercial Airplane Materiel Division, EDI test requirements for all inbound and outbound EDI transactions.

The purpose of the integration testing is to confirm that the trading partner can successfully:

1. Acknowledge an EDI transmission;
2. Translate between the ANSI ASCX12 format and native application files, i.e. confirm the application data is mapped correctly .

Although the following is not a direct part of the testing process, it is equally important DURING TESTING for the trading partner to confirm their internal business processes are receiving the data they require, and can interpret the data and understand what data is being sent.

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## Test and Production Environment Considerations (ANSIX12)

### Overview

- Testing is required for each trading partner before they can be moved into a production environment.
- A step by step process is described to document the test procedure.

### ANSIX12 Control Guidelines:

#### ISA

- The ISA usage indicator (ISA15) during the test period will reflect “T”.
- The ISA usage indicator (ISA15) for production must be revised to “P” when production readiness has been determined and scheduled by the Trading Partner and the EC Coordinator at the Boeing Company.

#### GS – Inbound to Boeing

- The Application Sender’s Code (GS02) will reflect the Trading Partner’s **Interchange ID** during the **testing** phase and for **production**.
- The Application Receiver’s Code (GS03) will be set to “PCOSTEST” during the **testing** phase and will be revised to “PCOS” for **production**.

#### GS – Outbound from Boeing

- The Application Sender’s Code (GS02) will reflect “PCOSTEST” during the **testing** phase and will be revised to “PCOS” for **production**.
- The Application Receiver’s Code (GS03) will reflect the Trading Partner’s **Interchange ID** during the **testing** phase and for **production**.

#### Segment Terminators/Element Separators/Sub -Element Separators – Preferred

- **Terminator** – CR or LF (Carriage Return or Line Feed)
- **Element Separator** – “~” (Tilde)
- **Sub-Element Separator** – “|” (Bar)

The use of any other symbols should be coordinated with Boeing prior to testing.

### VAN and Interchange ID

- The VAN we use is GXS. Boeing Qualifier and ID information is:

	<b>TEST</b> environment:	<b>PRODUCTION</b> environment:
<b>GEIS</b>	Qualifier: 12 Interchange ID: 4252376148	Qualifier: 12 Interchange ID: 4252660502

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# EDI Integration Test -continued

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## Integrated Functional Test Steps – Outbound from Boeing

### Step I –

- Boeing will send applicable test transactions (850/860) via EDI to Trading Partner.
- Trading Partner will send 997 Functional Acknowledgments via EDI to Boeing.

### Step II -Data Verification

- Trading Partner verifies data received from Boeing.
- Boeing corrects any deficiencies and repeats Steps I & II if necessary.

### Step III –Production

- Upon successful completion of the integrated functional test, the Trading Partner will be migrated into production.
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## Integrated Functional Test Steps –Inbound to Boeing

### Step I –

- Trading Partner will send applicable test transactions (855/865/856) via EDI to Boeing.
- Boeing will send 997 Functional Acknowledgments via EDI to Trading Partner.

### Step II -Data Verification

- Boeing verifies data received from Trading Partner.
- Trading Partner corrects any deficiencies and repeats Steps I & II if necessary.

### Step III –Production

- Upon successful completion of the integrated functional test, the Trading Partner will be migrated into production.
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# AttachmentA

## UnitofMeasureCodesList

ThefollowingcodelistrepresentstheonllycodesthatwillbesentfromthePCOSapplicationviaEDI.

Code	Name	Code	Name
03	Seconds	LF	LinearFoot
BD	Bundle	LN	Length
BF	BoardFeet	LO	Lot
BG	Bag	LT	Liter
BM	Bolt	LY	LinearYard
BO	Bottle	MJ	Minutes
BR	Barrel	ML	Milliliter
CA	Case	MM	Millimeter
CF	CubicFeet	OZ	Ounce
CG	Card	PA	Pail
CI	CubicInches	PC	Piece
CL	Cylinder	PD	Pad
CM	Centimeter	PK	Package
CN	Can	PR	Pair
CT	Carton	PT	Pint
CX	Coil	QT	Quart
CY	CubicYard	RL	Roll
DA	Days	RM	Ream
DF	Dram	SC	SquareCentimeter
DH	Miles	SF	SquareFoot
DR	Drum	SH	Sheet
DZ	Dozen	SI	SquareInch
EA	Each	SJ	Sack
FT	Foot	SM	SquareMeter
GA	Gallon	SO	Spool
GR	Gram	SQ	Square
GS	Gross	ST	Set
HA	Hank	SY	SquareYard
HR	Hours	TB	Tube
HU	Hundred	TG	GrossTon
HV	HundredWeight (Short)	TH	Thousand
IN	Inch	TO	TroyOunce
JA	Job	TQ	ThousandFeet
JR	Jar	UN	Unit
KG	Kilogram	VI	Vial
KT	Kit	ZP	Page
LB	Pound	ZZ	MutuallyDefined

# AttachmentB

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## SpecialChargeCodes –A NSIASCX12

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### Code X12DescriptionPCOSDescription

B110	ChemicalMillingCharge	ChemicalMilling
B670	ContractEscalation	AccelerationCharge
B940	CuttingCharge	CuttingCharges
C230	Die ServiceCharge	DieCharge
C690	Escalation	EscalationCharge
C870	ExpeditingFee	ExpediteCharge
C880	ExpeditingPremium	AOGPremiumCharge
C930	ExportShippingCharge	PortofExport(POE)Fees
D580	HeatTreatCharge	HeatTreat
D900	Installation	InstallationCharge
E290	Layout/Design	DesignCharge
E960	One-Time-OnlyCharge	Non-RecurringCharges
F150	PackagingService	Packaging/PreservationCharge
G400	Repair	DamageRepair
G470	RestockingCharge	RestockCharge
G510	ReturnableContainer	Returnable ContainerCharge
G660	ScrapAllowance	ScrapAllowanceCharge
G760	Set-up	Set-UpCharge
H000	SpecialAllowance	NegotiatedDebit(Rejection)
H980	Test/QualificationCharge	TestPerformanceCharge
I000	Testing	TestPieces/SamplesCharge
I110	Tooling	No AccountableToolingCharge
ZZZZ	MutuallyDefined i.e.:DecelerationCharge	DecelerationCharge

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