

Software Developer's Technical Seminar

EDI in ACE M1

Multi-Modal Manifest (MMM)

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U.S. Customs and
Border Protection

Software Developers' Technical Seminar
March 2012

Slide 1



EDI in ACE M1

- Steps to Go Live in ACE M1
- EDI formats included in ACE M1
- EDI messages included in ACE M1
- Location of Implementation Guides (IGs) for ACE M1
- Programming Tips
- Steps to Go Live in ACE M1
- Features Available to Trade Account Users via the ACE Portal
- Questions



Steps to Go Live in ACE M1

1. Program to the ACE M1 Implementation Guides (IGs)
2. Contact your assigned Client Representative
3. Complete ACE testing in the Certification environment
4. **Go Live in ACE M1.**



ACE M1 - Ocean CAMIR

- Inputs / Outputs
 - MI / MR – Manifest
 - AI / AR – Amendments
 - HI / HR – Departures, Arrivals, Exports, Transfer of Liability, & Diversions
 - II / IR – Supplemental & Subsequent In-bonds
 - TI / TR – Permit to Transfer
 - SF / SN – Security Filing
- Notifications
 - RC – Status Notifications
- Downloads
 - DC – BOL Download to Service Center & Port Authority
 - NC – HAZMAT Download to Port Authority
 - EC – S32 Report Download to Port Authority



ACE M1 - Ocean ANSI-X12

- Inputs / Outputs
 - 309 / 355 – Manifest & Amendments
 - 353 / 355 – Departures, Arrivals, Exports, Transfer of Liability, & Diversions
 - 357 / 355 – Supplemental & Subsequent In-bonds
 - 356 / 355 – Permit to Transfer
 - *Note – The 997 Functional Acknowledgement is sent based on each participant's ACE Profile. The default is to generate a 997 for errors only.*
- Notifications
 - 350 – Status Notifications
- Downloads
 - 309 – BOL Download to Service Center & Port Authority
 - 309 – HAZMAT Download to Port Authority
 - 996 – S32 Report Download to Port Authority



ACE M1 - Rail ANSI-X12

- Inputs / Outputs
 - 309 / 355 – Manifest & Amendments
 - 358 / 355 – Rail Consist
 - 353 / 355 – En-route, Arrivals, Exports, Transfer of Liability, & Diversions
 - 357 / 355 – Supplemental & Subsequent In-bonds
 - 356 / 355 – Permit to Transfer
 - *Note – The 997 Functional Acknowledgement is sent based on each participant's ACE Profile. The default is to generate a 997 for errors only.*
- Notifications
 - 350 – Status Notifications
- Downloads
 - No downloads for Rail Carriers



ACE M1 - CATAIR

- Inputs / Outputs
 - QP / QT – Supplemental & Subsequent In-bonds and Bonded Warehouse & FTZ Withdrawals
 - WP / WT – Arrivals, Exports, Transfer of Liability, & Diversions
- Notifications
 - NS – Status Notifications
- Downloads
 - BD – BOL Download to Broker



ACE M1 - EDIFACT

- Inputs / Outputs

- BAPLIE / CUSRES

- *Note - No programming changes for the BAPLIE & CUSRES in ACE M1.*



Location of IGs for ACE M1

- All ACE EDI IGs:
http://cbp.gov/xp/cgov/trade/automated/modernization/ace_edi_messages/
- CAMIR IGs:
http://cbp.gov/xp/cgov/trade/automated/modernization/ace_edi_messages/ace_guidelines/
- CATAIR IGs:
http://cbp.gov/xp/cgov/trade/automated/modernization/ace_edi_messages/catair_main/abi_catair/catair_manifest_processing/
- Ocean X12 IGs:
http://cbp.gov/xp/cgov/trade/automated/modernization/ace_edi_messages/ocean/
- Rail X12 IGs:
http://cbp.gov/xp/cgov/trade/automated/modernization/ace_edi_messages/rail/

Trade

- Automated Systems and Operational Support
- Basic Importing and Exporting
- Cargo Security
- Legal Decisions/Publications
- Priority Trade Issues
- Quicklinks
- Trade Transformation
- Trade Outreach
- Trade Programs

Report Suspicious Activity to **800-BE-ALERT**

E-ALLEGATIONS
Online Trade Violation Reporting System

What's New in Trade

ACE EDI Messages

Customs and Trade Automated Interface Requirements including ABI-CATAIR, AIR-CAMIR, Sea and Rail-CAMIR and ANSI X12, and Truck e-Manifest-ANSI X12 and UNIEDIFACT.

- ▶ **ACE Ocean Manifest Implementation Guidelines**
- ▶ **CATAIR**
Customs and Trade Automated Interface Requirements
- ▶ **ACE CAMIR-Air**
The following sections are part of the initial release of the ACE CAMIR-Air. Additional sections will continue to be added.
- ▶ **Electronic Truck Manifest Technical Information** featured see also
Information and training materials for truck carriers and the trade community on electronic truck manifests. Includes ANSI X.12, UNEDIFACT, ACE Secure Data Portal information, as well as information on reports generation.
- ▶ **MEDPID EDI Message for Crew, Conveyance and Equipment** featured see also
Updated 06/25/2009
- ▶ **Ocean X12 Implementation Guidelines**
Ocean X12 and other reference information for the future release of ACE Ocean/Rail Manifest Processing
- ▶ **Rail X12 Implementation Guidelines**
Rail x12 and other reference information for the future release of ACE Ocean/Rail Manifest Processing.

Search *ACE EDI Messages* for: **GO**

section sitemap for ACE EDI Messages

see also:

- ▶ **in ACE: Modernization Information Systems:**
[What's New with ACE?](#)
[What is ACE?](#)
[ACE e-Manifest: Rail and Sea](#)
[Open ACE Programming Issues](#)
[Cargo Systems Messaging Service](#)
[ACE Portal Application and Program Participation](#)
[ACE Training and Reference Guides](#)
[...more](#)
- ▶ **on cbp.gov:**
[MEDPID EDI Message for Crew, Conveyance and Equipment](#)
[Electronic Truck Manifest Technical Information](#)

News Feeds



Location of IGs for ACE M1 *Cont'd*

Location of ACE M1 CATAIR IGs

http://cbp.gov/xp/cgov/trade/automated/modernization/ace_edi_messages/catair_main/abi_catair/catair_manifest_processing/

- IG for the Broker Download
- IG for the QP/QT, WP/WT, & NS
- Response structure for A/Z & B/Y record errors
- Error Codes

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What's New
in Trade

Home / Trade / Automated Systems And Operational Support / ACE: Modernization Information Systems / ACE EDI Messages / CATAIR / ACE ABI CATAIR /

ACE ABI CATAIR Material for Future Ocean/Rail Manifest Processing

ACE ABI CATAIR chapters and other reference information for the future release of ACE Ocean/Rail Manifest Processing.

- **Changes**
- 08/25/2010
 doc - 33 KB.
- **Table of Contents**
- 11/19/2010
For Accessibility Information: OIT508CONTACT@cbp.dhs.gov
 pdf - 137 KB.
- **Application Control**
- 11/22/2010
 doc - 285 KB.
- **Automated Manifest System (AMS) Broker Download**
- 11/22/2010
 doc - 640 KB.
- **In-Bond**
- 06/14/2011
 doc - 1,304 KB.
- **M1 Identifiers from Entry Summary CATAIR**
- 11/19/2010
For Accessibility Information: OIT508CONTACT@cbp.dhs.gov
 doc - 70 KB.
- **Appendix A**
- 11/22/2010
 doc - 3,884 KB.
- **Appendix S**
- 11/22/2010
 doc - 286 KB.

Search ACE ABI CATAIR Material for Future Ocean/Rail Manifest Processing for:

section sitemap for
ACE ABI CATAIR Material for Future Ocean/Rail Manifest Processing

see also:

- in ACE ABI CATAIR:
 - Getting Started Filing ABI Data in ACE
 - Download All Sections of the ACE ABI CATAIR (zip - 6,426 KB.)
 - Change Records
 - ACE ABI CATAIR Chapters
 - ACE ABI CATAIR Appendices
 - ACE ABI CATAIR Error Dictionary (xls - 130 KB.)



U.S. Customs and Border Protection

Location of Ocean & Rail Appendices

- All O & R Appendices:
http://cbp.gov/xp/cgov/trade/automated/modernization/ace_edi_messages/ace_guidelines/ace_appendices/
- Two useful Appendices:
 - Disposition Codes - Appendix D:
http://cbp.gov/linkhandler/cgov/trade/automated/modernization/ace_edi_messages/ace_guidelines/ace_appendices/appendix_d.ctt/appendix_d.doc
 - Error Codes - Appendix H:
http://cbp.gov/linkhandler/cgov/trade/automated/modernization/ace_edi_messages/ace_guidelines/ace_appendices/appendix_h.ctt/appendix_h.doc/

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Trade

Automated Systems and Operational Support

Basic Importing and Exporting

Cargo Security

Legal Decisions/Publications

Priority Trade Issues

Quicklinks

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What's New in Trade

Home / Trade / Automated Systems And Operational Support / ACE: Modernization Information Systems / ACE EDI Messages / ACE Ocean Manifest Implementation Guidelines /

ACE Ocean Appendices

- **Appendix Table of Contents**
- 11/22/2010
 doc - 36 KB.
- **Appendix A – Record Data Sets**
- 11/22/2010
 doc - 428 KB.
- **Appendix B – Valid Codes**
- 11/22/2010
 doc - 1,012 KB.
- **Appendix C – Valid Amendment Codes**
- 11/22/2010
 doc - 46 KB.
- **Appendix D – Disposition Codes**
- 01/20/2012
 doc - 634 KB.
- **Appendix E – Schedule D**
- 11/22/2010
 doc - 980 KB.
- **Appendix F – Schedule K**
- 11/22/2010
 doc - 4,770 KB.
- **Appendix G - International Organization for Standardization Country Codes**
- 07/19/2011
 doc - 282 KB.
- **Appendix H – Common Errors**
- 08/18/2011
 doc - 279 KB.

Search ACE Ocean Appendices for:
 GO

section sitemap for ACE Ocean Appendices

see also:

- ▶ in ACE Ocean Manifest Implementation Guidelines:
 - Changes
 - Table of Contents (doc - 68 KB.)
 - ACE Ocean Manifest Chapters
 - Glossary (doc - 57 KB.)

News Feeds

Soft



U.S. Customs and Border Protection

Programming Tips - All Formats

- Follow the IGs! (**All Users**)
 - ACE validations are much more strict than in AMS.
- No Special Characters! (**All Users**)
 - Transmit ONLY displayable characters found on a standard American English keyboard.
- Look For New Disposition Codes in the IG - **CAMIR Appendix D (All Users)**
 - Disposition Code Examples:
 - 95 - In-bond Deleted: sent each time a BOL with an In-bond is deleted.
 - 3W - Request for In-bond Diversion Granted: sent when a diversion granted.
 - 3M, 3P, 3Q, 3R – Unauthorized Attempt to Use Bond: sent for scenarios around attempts to use a Carrier's in-bond which they have chosen to lock down using the in-bond authorization functionality in the ACE Portal.
 - New Hold Disposition Codes.



Programming Tips - All Formats *Cont'd*

- The Load/Empty Status Code must be reported on all containers. **(X12 & CAMIR users)**
 - (CAMIR - C01 Record pos. 75 and in the X12 format the VID10).
- Vessel Reporting Must Be Consistent **(X12 & CAMIR users)**
 - The method used to report the Vessel Identification in the original manifest must be continued and consistently reported in all subsequent amendments and actions such as arrivals, permit to transfers, subsequent in-bond.
 - For example, if only the IMO code is submitted with the original manifest, all the submissions that follow must use only the IMO Code.
- Last foreign port before the vessel departs for the U.S. (B02 pos. 53-57 or M1120) is required on all original and amendments of the manifest. **(X12 & CAMIR users)**
 - If not provided or invalid, ACE will reject this submission with error code 034 - INVALID FOREIGN PORT.



Programming Tips - All Formats *Cont'd*

- Freight Remaining On Board (FROB) Bill Type (“B” or “20”) remain opened until vessel arrival. **(X12 & CAMIR users)**
 - AMS closed these BOL Types upon transmission of the data.
- The vessel arrival must include the port of discharge not only in the P01/P401, but also in the H01 (pos. 25-28)/M1504. The port identified in the H01/M1504 should equal the port listed in the P01 (4-7)/P401. **(X12 & CAMIR users)**
 - If not provided or invalid, ACE will reject this submission with error code 034 - INVALID FOREIGN PORT.
- Avoid Using the Manifest Sequence Number in the M01 pos. 45-50/M1007. **(X12 & CAMIR users)**
 - The use of the Manifest Sequence Number has caused confusion in identifying manifests and has been linked to synchronization issues between ACE and AMS.
 - Instead of the Manifest Sequence Number, please utilize the Carrier-Assigned Batch Number in positions 4-33 of the M02 or the Reference ID in the M1012. The data transmitted in this fields will be returned in output.



Programming Tips - All Formats *Cont'd*

- Manifest Correlation in ACE M1 Enables Arrival & Holds Across Related Manifests: (***Ocean X12 & CAMIR users***)
 - BAPLIE – ACE Automatically Correlates Manifest Based on Container Matching.
 - No Action Required by Trade.
 - Impact to Trade:
 - Arrivals conducted by Vessel Operators will arrive all correlated manifests.
 - If a Carrier attempts to arrive a Vessel after the VC has already arrived it, their arrival will be rejected with error # 142 - CONV ALREADY ARRIVED.
 - If a Carrier has already arrived the vessel before the VC attempts to arrive it, their arrival will not be impacted.
 - Unique Voyage Indicator (UVI) - Use of the Unique Voyage Indicator (UVI) in the B04/N9.
 - To leverage this functionality, all manifests filed with US CBP must use the exact same UVI identifier.
 - If used, only include in the original manifest submissions, not with manifest amendments. ACE will reject amendments with error code 096 – RUN HAS BEEN TERMINATED if used.



Programming Tips - CAMIR

- Spaces (not zeroes) should be transmitted in all fields marked “filler”. (**CAMIR users**)
- Transmit the 3 character Manifest Unit Codes found in Appendix N in the B01 and D01 records. (**CAMIR users**)
- The K01 (Edit) record in CAMIR is no longer available in ACE. (**CAMIR users**)
 - (Users must delete and re-add BOLs to make updates via an amendment).



Programming Tips - CAMIR *Cont'd*

- **New Party Reporting Method (*CAMIR users*)**
 - Cannot alternate the use of the old method of party reporting: S01/S02/S03, U01/U02/U03, & N01/N02/N03 with the with the new method: N00/N02/N03/N04.
 - ACE will reject a submission attempting to mix these two methods.
 - There is one exception to this rule of no mixing methods 1 & 2; using the third method of party reporting required for unified security filings.
 - See *Note 4* of the Record Usage Maps in the *Input to Customs* section of the CAMIR.
- **Records must be submitted in correct order. (*CAMIR users*)**
 - Example – AMS allowed users to send an I01 record (in-bond) prior to Shipper, Consignee, etc. ACE will reject this submission with error code 004 - INVALID S01/N1 – REC FOUND.
- **Order of party reporting in a DC download (*CAMIR users*)**
 - X12 does not enforce a specific order of party reporting as done in CAMIR. As a result, the party reporting in DCs generated by an X12 input will not necessarily be in order.



Programming Tips - CAMIR *Cont'd*

- One Way to Submit Hazardous Material information.
(CAMIR users)
 - The hazardous material records V01, V02, and V03 will follow the Description (D00 and D01) records and the Marks and Numbers (D02) record.
 - One V01, V02, V03 group is allowed for each hazardous commodity.
 - A maximum number of 99 groups per container are permitted. The HAZMAT Grouping must be reported after all Cargo Description Groupings are complete for a Bill Of Lading Container Grouping.
 - See *Note 6* of the Record Usage Maps in the *Input to Customs* section of the CAMIR.



Programming Tips - ANSI-X12

- **ISA02 – Authorization Information (*X12 Users*)**
 - **Ocean** - Must be 10 spaces. If not, message will fail to Translate, no 997.
 - **Rail** - Must total 10 spaces. If not, message will fail to Translate, no 997.
- **ISA04 – Security Information (*X12 Users*)**
 - **Ocean** - Must be 10 spaces. If not, message will fail to Translate, no 997.
 - **Rail** - Must total 10 spaces. If not, message will fail to Translate, no 997.
- **ISA06 Interchange Sender ID (*X12 Users*)**
 - **Ocean & Rail** - Must total 15 spaces. It must be SCAC + 11 spaces. If not, message will fail to Translate, no 997.
- **ISA08 – Interchange Receiver ID (*X12 Users*)**
 - **Ocean** - Must total 15 spaces. For test, use CUSTOMSTST + 5 spaces. For Prod, use CUSTOMS + 8 spaces. Message will fail to Translate, no 997 if a total of 15 spaces are not present.
 - **Rail** - Must total 15 spaces. For test, use USCT + 11 spaces. For Prod, use USCP + 11 spaces. Message will fail to Translate, no 997 if a total of 15 spaces are not present.



Programming Tips - ANSI-X12 *Cont'd*

- M1011 – Do Not Use, Default to Blank (***X12 Users***)
 - **Ocean & Rail** – We recommend keeping this field blank. If used, there is a potential for unnecessary Holds.
- ACE does not support customized Segment Delimiter in outbound EDI. (***X12 Users***)
 - ACE does not send Hex '15' as the Segment Delimiter in outbound EDI.
 - ACE uses the default value for “New Line”. It will depend on each participant’s Middleware solution, but ASCII Hex '0A' and EBCDIC Hex '25' are typical.



Programming Tips - ANSI-X12 *Cont'd*

- **Consist Locking Function: (*Rail X12 Users*)**
 - Two Ways a Consist Is Locked:
 1. Train Arrival
 2. Lock Action Taken by CBP Officer
 - Only One Way Consist Is Unlocked – Call CBP.
 - Rail Carriers receive error # 206 - CONSIST ALREADY ARR/LOCKED if attempting to delete or amend a Consist after it has been arrived or locked.
 - The Event Codes related to Consist Locking are:
 - LCK - Consist Lock
 - ULC - Consist Unlock

- **V901 Segment Can Contain Event Codes & Disposition Codes. (*Rail X12 Users*)**
 - Please refer to the grey notes of the V901 segment of the 350 IG:
 - Values provided by CBP. In the case of a Stack Car hold that comes from a hold on the bill the CAMIR Appendix D values will be returned.



Programming Tips - CATAIR In-bond

- CATAIR Filers Will Not Automatically Receive Notifications. (**CATAIR users**)
 - CATAIR filers must include themselves as an SNP in the QP32 record in order to receive status notifications.
- QP10 - The Value of a Bonded Move Must Be Greater than Zero For All Entry Types. (**CATAIR users**)
 - ACS only required the value to be greater than zero for TE & IE In-bonds.
- QP10 - BTA / FDA Indicator Settings. (**CATAIR users**)
 - ACS only required the indicator to be selected for TE 62. ACE also requires Indicator to be set to 'No' for IE 63 and all movements out of FTZ.



Programming Tips - CATAIR In-bond *Cont'd*

- QP40 - Manifest Quantity & Manifest Units Are Required. **(CATAIR users)**
- QP40 - Place of Pre-receipt Is Required For Paperless Manifest Participants. **(CATAIR users)**
- QP70 - Values Mandatory For TE 62 & IE 63. **(CATAIR users)**
 - The Harmonized Number, Value, Weight, and Weight Unit all must be provided for TE 62 & IE 63.
- QP70 - IT 61 Does Not Require HTS data, Even When Non-automated Carrier. **(CATAIR users)**
- QP70 - HS Number Length Is Now At 10 positions Followed By 1 Position Of Filler. **(CATAIR users)**
- QT95 - Position 8 Is Now Filler, Narrative Message Shortened to 39X. **(CATAIR users)**



Programming Tips - CATAIR In-bond *Cont'd*

- WP10 - FIRMS Code for In-bond Arrivals Is Optional For Action Codes 1, 2, 3. (**CATAIR users**)
- WP10 - B & C No Longer Action Codes. (**CATAIR users**)
- WP20 - Updates. (**CATAIR users**)
 - Added Diversion Action Code Z
 - Port of Arrival required for Z
 - In-bond Carrier Code required for Action Code A
 - Bonded Carrier ID required for Action Code A, Z
 - Export MOT – optional for Action Codes 5, 6, 7
 - Export Conveyance – optional for Action codes 5, 6, 7
 - (if either MOT or Conveyance is entered, both must be entered)
- WT95 - Position 8 Is Now Filler, Narrative Message Shortened to 39X. (**CATAIR users**)



Steps to Go Live in ACE M1

1. Program to the ACE M1 Implementation Guides (IGs)
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Software Developer's Technical Seminar

ACE M1 Features Available to Trade Account Users via the ACE Portal Multi-Modal Manifest (MMM)



Features Available to Trade Portal Users

- Conveyance Administration by Ocean Carriers
- In-bond Authorization by Carriers
- Line Release Entry Number Bank Administration by Brokers
- E-Manifest Reports
- Link to Web Based Training For These Tools:
 - http://nemo.cbp.gov/ace_online/
 - Select e-Manifest: Rail & Sea

e-Manifest: Rail & Sea



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Questions





U.S. Customs and Border Protection