

CBP Automated Manifest Interface Requirements

Application Control

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U.S. Customs and
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Application Control

Defines the functional application tasks designed to exchange manifest processing data between trade community participants and the U.S. Customs and Border Protection (CBP) Automated Commercial Environment (ACE MI). Also defines the transaction file sequencing rules and record data element format and requirements.

TRANSACTION CONTROL RECORDS [APL-2](#)

A description of the records necessary to begin and end manifest data exchanges.

TRANSACTION FILE SEQUENCING RULES [APL-3](#)

A description of the order of records for a transaction file.

RECORD DESCRIPTIONS

Record Identifier ACR [APL-4](#)

The Transaction Control Header (ACR) Record provides data element descriptions and format requirements for the record beginning a transaction file.

Record Identifier ZCR [APL-6](#)

The Transaction Control Trailer (ZCR) Record provides data element descriptions and format requirements for the record ending a transaction file.

TRANSACTION CONTROL RECORDS

Each ACE M1 data file input or output must contain a Record Identifier ACR, the Transaction Control Header record and a Record Identifier ZCR, the Transaction Control Trailer Record.

The Transaction Control Header record identifies the participant, denotes the beginning of a file, and specifies the detail data to follow. Different applications require the building of separate transaction files. The Transaction Control Trailer record is paired with the Transaction Control Header record and signals the end of the transaction file. Participants can receive or send more than one transaction file during a communications session. The maximum allowable enveloped transaction file size is 12 megabytes (12,582,912 bytes) of data for both input and output.

The application identifier on Record Identifier ACR is a 2-position alphabetic code identifying the type of application data in the transaction control file and the task to be performed.

The first position of the application identifier is a unique alphabetic designation for each task. Valid first position codes are:

Code	Description
M, A	Manifest
H	Paperless In-bond
I	Subsequent In-bond
S	Importer Security Filing
T	Permit to Transfer
R	Status Notification
E, N, D	Manifest (actions initiated by CBP)

The second position identifies the data. Valid codes are:

Code	Description
F	Importer Security Filing input to CBP
I	Input to ACE M1
N	Importer Security Filing response from CBP
R	Output from ACE M1 in response to an input
C	Communications output if data is initiated by CBP

As an example, an application identifier of MI indicates a manifest create input record; MR indicates a manifest create response, and RC indicates a status notification.

The control identifier is a 3-position alphabetic or alphanumeric code that defines a logical set of record data elements. ACE M1 requires that all control identifier for a given application identifier be accurate. Otherwise, the transmission file is rejected from ACE M1 processing. This requirement helps to ensure that data integrity is maintained. Files rejected because of invalid Transaction Control Header (ACR) or Trailer (ZCR) records must be corrected and retransmitted in their entirety.

TRANSACTION FILE SEQUENCING RULES

Only one Manifest (M01) records is required per ACR/ZCR record data set. This does not preclude multiple ACR/ZCR record data sets per transmission or multiple M01 records per ACR/ZCR data set.

An example of the order of records for a transaction file for one carrier, vessel/voyage and applications follows:

Transaction Control Header	ACR
Manifest	M01
Port	P01
Issuer	J01
Bill	B01 through V03 as appropriate (Data sets for all bills of lading discharged at the port identified in the previous P01 record.)
Transaction Control Trailer	ZCR

Additional examples are contained in Appendix A of this publication.

Record Identifier ACR

Transaction Control Header Record

This record signals the beginning of a transaction file and it is used for both input and output. The date, time, and batch number data elements are mandatory on output from CBP to the ACE M1 participant.

Record Identifier ACR					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	3A	1-3	M	Must always equal ACR.	
ACE M1 User Code	4AN	4-7	M	A code representing the carrier, CBP-assigned port authority, or service bureau.	
Filler	6AN	8-13	M	Space fill.	
Application Identifier	2A	14-15	M	A code representing the type of application detail data contained within the block.	1
Date	6N	16-21	C	A date in YYMMDD (year, month, day) format representing the date of processing.	2
Time	6N	22-27	C	A time in HHMMSS (hours, minutes, seconds) format representing the time of processing. Eastern Standard/Daylight Time should be reported.	2
Batch Number	5N	28-32	C	A CBP-generated 5-position numeric code from 00001 to 99999. The batch number is used in conjunction with the date of transmission to uniquely identify a user transmission.	2
Filler	48AN	33-80	M	Space fill.	

Note 1:

Valid Application Identifier codes are:

Input to CBP

Code	Description
AI	Manifest Amendment
HI	Paperless In-bond or Vessel Arrival
II	Subsequent In-bond
MI	Manifest Create
SF	Importer Security Filing
TI	Permit to Transfer

Output Responses from CBP

Code	Description
AR	Manifest Amendment Response
HR	Paperless In-bond or Vessel Arrival Response
IR	Subsequent In-bond Response
MR	Manifest Create Transmission Response
SN	Importer Security Filing Response
TR	Permit to Transfer Response

Output Initiated by CBP

Code	Description
DC	Manifest Download Transmission
EC	S32 List of Non-ACE M1 Entries Designated "Paperless" Report
NC	Hazardous Material Download Transmission
RC	Status Notification

Note 2:

This data is not transmitted by the participant in input transaction control records. It is returned to the participant in output transaction control records. Do not use this field on input.

Record Identifier ZCR

Transaction Control Trailer Record

This record signals the end of a transaction file and it is used for both input and output.

Record Identifier ZCR					
Data Element	Length/ Class	Position	Status	Description	Note
Control Identifier	3A	1-3	M	Must always equal ZCR.	
ACE M1 User Code	4N	4-7	M	A code representing the carrier, CBP-assigned port authority, or service bureau.	
Filler	6AN	8-13	M	Space fill.	
Application Identifier	2AN	14-15	C	Output application identifier.	1
Filler	19AN	16-34	M	Space fill.	
Number of Transaction Detail Records	5N	35-39	M	The total number of records transmitted (excludes the ACR and ZCR).	
Filler	41AN	40-80	M	Space fill.	

Note 1:

This data element is returned to the participant in output transaction trailer records. It represents the following application identifiers for output initiated by CBP:

Code	Description
DC	Manifest Download Transmission
EC	S32 List of Non-ACE M1 Entries Designated "Paperless" Report
NC	Hazardous Material Download Transmission
RC	Status Notification