



California ISO
Your Link to Power

EDI 810 Implementation Guide

V004010

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Folsom, CA 95630

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About This Guide

This document is written to help you accomplish EDI implementation as quickly and smoothly as possible. Please take some time to review this document before you begin. If you have any questions along the way, please contact your Client Representative.

California ISO utilizes ANSI ASC X12 version 004010 and wherever possible aligned with the most current published Utility Industry Group (UIG) Implementation Guideline. In some instances, code values from later versions of the standards have been incorporated. The California ISO notes exceptions to the 004010 standard and pending information in ***bold italicized*** print within the segment descriptions.

Segment definitions are separated into two areas. The first area describes the segment in general terms. The second area describes in detail, each element than can occur within the element. Element definitions contain five (5) areas. The areas are as follows:

Column Name	Usage/Definition	Sample Value
Elem. ID	The position of the element with the segment	ITA14
Elem. #	The ANSI X12 Data Element Dictionary Reference Number	150
Name	The ANSI X12 Data Element Name	Special Charge Code
ANSI/California ISO Features	This area contains three different sections.	
Section 1-element usage		O
	M-Mandatory (if the segment is used the element must occur)	
	O-Optional (the use of the segment is at the trading partners discretion)	
	C-Conditional (the use of this element is predicated on the existence of another element within the segment)	
Column Name	Usage/Definition	Sample Value
Section 2-type of element		ID
	AN -Alphanumeric	
	R -Numeric with explicit decimal	
	DT -Date (YYYYMMDD)	
	ID -Identifier (using explicit ANSI codes)	
	Nn -Numeric with implied decimal	
	TM -Time	
Section 3 minimum and maximum length of element	Data to the left of the '/' is the minimum number of bytes. Data to the right of the '/' is the maximum number of bytes '3/3' is a minimum of three and a maximum of three bytes (in other words you must send three bytes. '3/10' is a minimum of three bytes but no more than 10 bytes can be sent for the element.	3/3
Comments	This is the area where code values that are utilized by CALIFORNIA ISO will be defined. The code value will be presented, and its definition follows.	BLD - Billed Demand

CAISO EC/EDI Setup

California ISO Communication ID: 943274043

(ISA Sender ID)

Communications ID Qualifier: 30

(ISA Sender ID Qualifier)

	Hex Code	ASCII Char
Data Element Delimiter	2A	*
Data Segment Terminator	7E	~
Data SubElement Separator	3E	>

California ISO's Value Added Network: Sterling Commerce

CALIFORNIA ISO's Transmit and Receive time **7:00PM Pacific Standard Time, Normal Business Days**

Testing with the California ISO

Once you have setup the EDI profile for the California ISO on your EDI translator software, you are ready for testing phase.

1. Complete the EDI/Fed-Wire Form located at:
<http://www.caiso.com/docs/2005/10/05/2005100520241822328.html>
2. Email to your Client Representative to begin the testing process.

Functional Acknowledgements

The California ISO requires functional acknowledgements at the group level to confirm that you have received the EDI 810 Invoice.

Example 1 (Monthly Market Invoice – With DTM segments):

```
ISA*00*      *00*      *30*943274043  *01*175315246
*990104*1521*U*00401*00000002*1*T*>
GS*IN*943274043*175315246*19990104*1521*1*X*004010
ST*810*0001
BIG*19981231*10429*****FB
N1*BT*The Scheduling Coordinator, Inc
N3*53241 Hamilton Dr
N4*Palo Alto*CA*95622*US
N1*RE*Bank of America- (Mkt and GMC)
N3*1850 Gateway Boulevard
N4*Concord*CA*94520*US
REF*11*1233626208
REF*01*026009593
ITD*03*****19990107
DTM*150*19980930
DTM*151*19981031
IT1*1*1*EA*19406.14**TP*0101
PID*X****Day-Ahead Spinning Reserve due ISO
IT1*2*1*EA*1764.26**TP*0102
PID*X****Day-Ahead Non-Spinning Reserve due ISO
IT1*3*1*EA*9774.42**TP*0103
PID*X****Day-Ahead AGC/Regulation due ISO
IT1*4*1*EA*70.64**TP*0151
PID*X****Hour-Ahead Spinning Reserve due ISO
IT1*5*1*EA*-.497.1**TP*0152
PID*X****Hour-Ahead Non-Spinning Reserve due ISO
IT1*6*1*EA*-.2907.82**TP*0153
PID*X****Hour-Ahead AGC/Regulation due ISO
IT1*7*1*EA*-.1608.96**TP*0203
```

PID*X****Day-Ahead Inter-Zonal Congestion Settlement
IT1*8*1*EA*-62.5**TP*0253
PID*X****Hour-Ahead Inter-Zonal Congestion Settlement
IT1*9*1*EA*0.93**TP*0303
PID*X****Ex-Post Replacement Reserve due ISO (Dispatched)
IT1*10*1*EA*625.62**TP*0304
PID*X****Ex-Post Replacement Reserve due ISO (Undispatched)
IT1*11*1*EA*-457863.84**TP*0402
PID*X****Generation Deviation Settlement
IT1*12*1*EA*353932.35**TP*0403
PID*X****Load Deviation Settlement
IT1*13*1*EA*45610.38**TP*0406
PID*X****UFE Settlement
IT1*14*1*EA*216024.05**TP*1010
PID*X****Neutrality Adjustment Charge/Refund
IT1*15*1*EA*27270.74**TP*1013
PID*X****REPA Cash Neutrality Charge
IT1*16*1*EA*1977.32**TP*1302
PID*X****Supplemental Reactive Energy due ISO
TDS*21351663
CTT*16
SE*48*0001
GE*1*1
IEA*1*000000002

Example 2 (Manual Billing or Settled Bill – Without DTM segments):

ISA*00* *00* *30*943274043 *16*0069088189999
*990104*1532*U*00401*000000035*1*T*>
GS*IN*943274043TO*0069088189999*19990104*1532*1*X*004010
ST*810*0001
BIG*19981014*3662*****N6
N1*BT*The Scheduling Coordinator, Inc
N3*53241 Hamilton Dr
N4*Palo Alto*CA*95622*US
N1*RE*Bank of America- (Mkt and GMC)
N3*1850 Gateway Boulevard
N4*Concord*CA*94520*US
REF*11*1233626208
REF*01*026009593
ITD*03*****19981020
IT1*1*1*EA*2896035.3
PID*X****RMR Scheduling Coordinator - Estimated RMR
TDS*289603530
CTT*1
SE*16*0001
GE*1*1
IEA*1*000000035

INVOICE (810) TRANSACTION SET SPECIFICATIONS

California ISO IMPLEMENTATION GUIDELINES FOR EDI CONVENTIONS

Invoice (810) - 4010

Segments used by California ISO

TABLE 1: DATA SEGMENT SEQUENCE FOR THE HEADING AREA

SEG ID	TITLE	REPEAT	USAGE ANSI	MAX ISO	LOOP USE	ID REPEAT
ISA	Interchange Control Header		M	M	1	
GS	Functional Group Control Header		M	M	1	1
ST	Transaction Set Header		M	M	1	
BIG	Beginning Segment for Invoice		M	M	1	
N1	Name		O	M	1	N1/2
N3	Address Information		O	M	1	
N4	Geographic Location		O	M	1	
REF	Reference identification		O	M	2	
ITD	Terms of Sale		O	M	1	
DTM	Date/Time Reference		O	O	2	

TABLE 2: DATA SEGMENT SEQUENCE FOR THE DETAIL AREA

SEG ID	TITLE	REPEAT	USAGE ANSI	MAX ISO	LOOP USE	ID REPEAT
IT1	Baseline Item Data (Invoice)		O	M	1	IT1/100
PID	Product/Item Description		O	M	1	PID/100

TABLE 3: DATA SEGMENT SEQUENCE FOR THE TRAILER/SUMMARY AREA

SEG ID	TITLE	REPEAT	USAGE ANSI	MAX ISO	LOOP USE	ID REPEAT
TDS	Total Monetary Value Summary		M	M	1	
CTT	Transaction Totals		M	1		
SE	Transaction Set Trailer		M	M	1	
GE	Functional Group Control Trailer		M	M	1	
IEA	Interchange Control Trailer		M	M	1	

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: **ISA - Interchange Control Header**

LEVEL: Heading

MAX USAGE/LOOPS: 1/none

PURPOSE: To start and identify an interchange of one or more functional groups and interchange related control segments.

GENERAL INFORMATION: This segment is mandatory. The interchange control number occurring in the interchange header must match the control number in the interchange control trailer. This segment is a fixed length segment of 106 bytes. This is the only segment where blank elements are permitted.

EXAMPLES: ISA*00* *00* *30*943274043 *01*991345164 * 941206*1350*U*00401*000000026*0*P*>

ELEM ID	ELEM #	NAME	ANSI/ California ISO FEATURES	COMMENTS
ISA01	I01	Authoriz. Info. Qual.	M ID 02/02	"00"
ISA02	I02	Authoriz. Info.	M AN 10/10	Spaces
ISA03	I03	Security Info. Qual	M ID 02/02	"00"
ISA04	I04	Security Info.	M AN 10/10	Spaces
ISA05	I05	Interchg. ID Qual.	M ID 02/02	"30" - Federal Tax ID
ISA06	I06	Interchg. Sender ID	M AN 15/15	"943274043"
ISA07	I05	Interchg. ID Qual.	M ID 02/02	
ISA08	I07	Interchg. Receiver ID	M AN 15/15	
ISA09	I08	Interchg. Date	M DT 06/06	Date
ISA10	I09	Interchg. Time	M TM 04/04	Time

ELEM ID	ELEM #	NAME	ANSI/ California ISO FEATURES	COMMENTS
ISA11	I10	Interchg. Stand. ID.	M ID 01/01	"U" - Universal
ISA12	I11	Interchg. Version ID	M ID 05/05	"00401"
ISA13	I12	Interchg. Control Nbr.	M NO 09/09	
ISA14	I13	Acknowledge .Requested	M ID 01/01	
ISA15	I14	Test Indicator	M ID 01/01	"T" or "P"
ISA16	I15	Sub Element Separator	M AN 01/01	">"

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: GS - Functional Group Control Header

LEVEL: Heading

MAX USAGE/LOOPS: 1/none

PURPOSE: To indicate the start of a Functional Group and to provide control information

GENERAL INFORMATION: This segment is mandatory. The control number occurring in the functional group header must match the control number in the functional group control trailer.

EXAMPLES: GS*IN*943274043*991345164*19991002*0923*26*X*004010

ELEM ID	ELEM #	NAME	ANSI CALIFORNIA ISO FEATURES	COMMENTS
GS01	0479	Functional ID Code	M ID 02/02	"IN"
GS02	0142	Application Sender Code	M AN 02/15	943274043
GS03	0124	Application Receiver Cd.	M AN 02/15	
GS04	0029	Group Date	M DT 08/08	
GS05	0030	Group Time	M ID 04/08	
GS06	0028	Group Control Nbr.	M NO 01/09	
GS07	0455	Responsible Agency Cd.	M ID 01/02	"X"
GS08	0480	Version/Rel. ID Code	M ID 01/12	"004010"

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: **ST - Transaction Set Header**

LEVEL: Heading

MAX USAGE/LOOPS: 1/none

PURPOSE: To indicate the start of a transaction set and to assign a control number.

GENERAL INFORMATION: This segment is mandatory. The transaction set control number (ST02) in this header must match the transaction set control number (SE02) in the transaction set trailer (SE).

EXAMPLES: ST*810*000000592

ELEM ID	ELEM #	NAME	ANSI/ California ISO FEATURES	COMMENTS
ST01	0143	Transaction Set ID	M ID 03/03	'810'
ST02	0329	Transaction Set	M AN 04/09	A unique Number assigned to each transaction set within a functional group. This number must match the value in SE02.

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: **BIG - Beginning Segment for Invoice**

LEVEL: Heading

MAX USAGE/LOOPS: 1/none

PURPOSE: To indicate the beginning of an inventory advice transaction set and to transmit identifying numbers and dates.

GENERAL INFORMATION:

EXAMPLES: BIG*19991002*10580*****FB

ELEM ID	ELEM#	NAME	ANSI CALIFORNIA ISO FEATURES	COMMENTS
BIG01	0373	Invoice Date	M DT 08/08	Statement Date
BIG02	0076	Invoice Number	M AN 01/22	Unique invoice number
BIG03	0373	P.O.Date	O DT 08/08	Not used
BIG04	0324	P.O.Number	O AN 01/22	Not used
BIG05	0328	Release Number	O AN 01/30	Not used
BIG06	0327	Chg.Order Seq.No.	O AN 01/08	Not used
BIG07	0640	Transaction Type	O ID 02/02	"PB"-Partial Bill "FB" - Final Bill "N6" - Notice of Settlement

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: N1 - Name

LEVEL: Header

MAX USAGE/LOOPS: 1/per N1 loop

PURPOSE: To identify a party by type of organization, name and code.

GENERAL INFORMATION:

EXAMPLES: N1*BT*ACME & CO*ZZ*9876151
N1*RE*Bank of America

ELEM ID	ELEM#	NAME	ANSI California ISO FEATURES	COMMENTS
N101	0098	Entity ID Code	M ID 02/03	"RE"-Remit To or "BT"-Bill To
N102	0093	Name	C AN 01/60	
N103	0066	ID Code Qualifier	C ID 01/02	"ZZ"
N104	0067	ID Code	O ID 02/80	Customer reference number

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: N3 - Address Information

LEVEL: Header

MAX USAGE/LOOPS: 1/per N1 loop

PURPOSE: To specify the location of the named party.

GENERAL INFORMATION:

EXAMPLES: N3*1850 Gateway Boulevard

ELEM ID	ELEM#	NAME	ANSI CALIFORNIA ISO FEATURES	COMMENTS
N301	0166	Address	M AN 01/55	
N302	0166	Address	O AN 01/55	

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: N4 - Geographic Location

LEVEL: Header

MAX USAGE/LOOPS: 1/per N1 loop

PURPOSE: To specify the geographic place of the named party.

GENERAL INFORMATION:

EXAMPLES: N4*BAKERSFIELD*CA*93306*US

ELEM ID	ELEM#	NAME	ANSI CALIFORNIA ISO FEATURES	COMMENTS
N401	0019	City Name	O AN 02/30	
N402	0156	State/Prov . Code	O ID 02/02	
N403	0116	Postal Code	O ID 03/15	
N404	0026	Country Code	O ID 02/03	
N405	0309	Location Qualifier	C ID 01/02	Not Used
N406	0310	Location Id	O AN 01/30	Not Used

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: REF - Reference identification

LEVEL: Name

MAX USAGE/LOOPS: 2/per N1 loop within "RE" type N1 loop

PURPOSE: To specify ISO bank account information.

GENERAL INFORMATION:

EXAMPLES: REF*01*ISOBankABA
REF*11*ISOAcctNo

ELEM ID	ELEM#	NAME	ANSI CALIFORNI A ISO FEATURES	COMMENTS
REF01	0128	Reference identification qualifier	M ID 02/03	01 - ABA No. 11 - Acct No.
REF02	0127	Reference identification	C ID 01/30	

TRANSACTION SET: 810 - Invoice (4010)
SEGMENT: ITD - Terms of Sale/Deferred Terms of Sale
LEVEL: Header
MAX USAGE/LOOPS: 1
PURPOSE: To specify terms of sale.
GENERAL INFORMATION:
EXAMPLES: ITD*03*****19990102

ELEM ID	ELEM#	NAME	ANSI California ISO FEATURES	COMMENTS
ITD01	0336	Terms Type Code	O ID 02/02	"03" - Fixed Date
ITD02	0333	Terms Basis Date Code	O ID 01/02	Not used
ITD03	0338	Terms Discount Percent	O R 01/06	Not used
ITD04	0370	Terms Discount Due Date	C DT 08/08	Not used
ITD05	0351	Terms Discount Days Due	C NO 01/03	Not used
ITD06	0446	Terms Net Due Date	O DT 08/08	YYYYMMDD
ITD07-15				Not used

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: DTM - Date/Time Reference

LEVEL: Header

MAX USAGE/LOOPS: 2

PURPOSE: To specify pertinent dates and times.

GENERAL INFORMATION: Used to convey service period dates

EXAMPLES: DTM*150*19990101***
DTM*151*19990131***

ELEM ID	ELEM#	NAME	ANSI NC FEATURES	COMMENTS
DTM01	0374	Date/Time Qualifier	M AN 03/03	"150" - Service Period Start "151" - Service Period End
DTM02	0373	Date	C DT 08/08	Date (YYYYMMDD)
DTM03	0337	Time	C TM 04/08	Not used
DTM04	0623	Time Code	O ID 02/02	Not used
DTM05	1250	Date Time Period Fo	C ID 02/03	Not used
DTM06	1251	Date Time Period	C AN 01/35	Not used

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: IT1 - Baseline Item Data (Invoice)

LEVEL: Detail

MAX USAGE/LOOPS: 1/100

PURPOSE: To specify the basic and most frequently used line item data for the invoice and related transactions.

GENERAL INFORMATION:

EXAMPLES: IT1*1*1*EA*125**TP*0351

ELEM ID	ELEM#	NAME	ANSI CALIFORNIA ISO FEATURES	COMMENTS
IT101	0350	Assigned Id	O AN 01/20	Line item count
IT102	0358	Quantity Invoiced	C R 01/10	Nbr of Units Invoiced (Always a whole number)
IT103	0355	Unit of Measure Code	C ID 02/02	"EA"
IT104	0212	Unit Price	C R 01/17	Used to show settlement charge. Credits are prefixed with a minus sign.
IT105	0639	Basis Unit Price Code	O ID 02/02	Not used
IT106	0235	Product/Service id qualifier	C ID 02/02	"TP"
IT107	0234	Product/Service id	O AN 01/48	Settlement charge code.
IT108-IT125				Not used

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: PID - Product/Item Description

LEVEL: Detail

MAX USAGE/LOOPS: 1/IT1

PURPOSE: To describe a product or process in coded or free-form format

GENERAL INFORMATION:

EXAMPLES: PID*X***Monthly Grid Management Charge due ISO

ELEM ID	ELEM#	NAME	ANSI CALIFORNIA ISO FEATURES	COMMENTS
PID01	0349	Item Description Type	M ID 01/01	"X" - Semi-structured (Code and text)
PID02-04				Not Used
PID05	0352	Description	CAN 01/80	Settlement Charge Description
PID06-09				Not used

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: TDS - Carrier Details (Routing Sequence/Transit Time)

LEVEL: Summary

MAX USAGE/LOOPS: 1/none

PURPOSE: To specify the total invoice discounts and amounts.

GENERAL INFORMATION:

EXAMPLES: TDS*48510

ELEM ID	ELEM#	NAME	ANSI CALIFORNIA ISO FEATURES	COMMENTS
TDS01	0610	Total Invoice Amount	M N2 01/15	Total Balance Due
TDS02	0610	Amount Subject to Terms Discount	O N2 01/15	Not used
TDS03	0610	Discounted Amount Due	O N2 01/15	Not used
TDS04	0610	Terms Discount Amount	O N2 01/15	Not used

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: CTT - Transaction Totals

LEVEL: Summary

MAX USAGE/LOOPS: 1/none

PURPOSE: To transmit a hash total for a specific element in the transaction set.

GENERAL INFORMATION: To provide number of IT1 segments.

EXAMPLES: CTT*1

ELEM ID	ELEM#	NAME	ANSI CALIFORNIA ISO FEATURES	COMMENTS
CTT01	0354	Number of Line Items	M NO 01/06	Count of line itmes
CTT02	0347	Hash Totals	O R 01/10	Not used
CTT03	0081	Weight	C R 01/10	Not used
CTT04	0355	Unit of Meas. Code	C ID 02/02	Not used
CTT05	0183	Volume	C R 01/08	Not used
CTT06	0355	Unit of Meas. Code	C ID 02/02	Not used
CTT07	0352	Description	O AN 01/80	Not used

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: SE - Transaction Set Trailer

LEVEL: Summary

MAX USAGE/LOOPS: 1/none

PURPOSE: To indicate the end of the transaction set and provide the count of the transmitted segments including the Transaction Set Header (ST) and Trailer (SE) segments).

GENERAL INFORMATION: The number of included segments is the total of all segments used in the transaction set including the ST and SE segments.

The transaction set control number (SE02) in the trailer must match the transaction set control number (ST02) in the transaction set header segment (ST).

EXAMPLES: SE*23*000000592

ELEM ID	ELEM#	NAME	ANSI CALIFORNIA ISO FEATURES	COMMENTS
SE01	0096	Number of Included Segments	M NO 01/10	Total number of segments in transaction set including ST and SE
SE02	0329	Transaction Set Control Number	M AN 04/09	Same as corresponding ST02

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: **GE - Functional Group Trailer**

LEVEL: Summary

MAX USAGE/LOOPS: 1/none

PURPOSE: To indicate the end of a functional group and control information.

GENERAL INFORMATION: The number of transaction sets is the total of all transaction sets in the functional group.

The functional group control number (GE02) must match the control number in the functional group header (GS06).

EXAMPLES: GE*01*000000592

ELEM ID	ELEM#	NAME	ANSI CALIFORNIA ISO FEATURES	COMMENTS
GE01	97	Number of Included Sets	M NO 01/06	Total number of transaction sets in functional group
GE02	28	Group Control Nbr	M AN 09/09	Same as corresponding GS06

TRANSACTION SET: 810 - Invoice (4010)

SEGMENT: IEA - Interchange Control Trailer

LEVEL: Summary

MAX USAGE/LOOPS: 1/none

PURPOSE: To indicate the end of an interchange of one or functional groups and interchange-related control segments.

GENERAL INFORMATION: The number of included groups is the total number of all functional groups within the interchange.

The interchange control number (IEA02) must match the control number in the interchange control header the (ISA13).

EXAMPLES: IEA*01*000000592

ELEM ID	ELEM#	NAME	ANSI CALIFORNIA ISO FEATURES	COMMENTS
IEA01	I16	Number of Included Groups	M NO 01/05	Total number of functional groups in interchange
IEA02	I12	Interchange Control Nbr	M AN 09/09	Same as corresponding ISA13