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1. INTRODUCTION

1.1 PURPOSE

This document is a supplier implementation guide for the electronic exchange of Supplier Charges. This document contains the standards used for secured electronic invoice data exchange and explains required fields and their usage. An CRC Supplier Charges template (PIDX-Invoice) is included as an appendix to this guide.

1.2 AUDIENCE

This document is intended for our trading partners' technical resource teams. Please forward any questions or requests for information to: OneCal_B2BSupport@CRC.com.

1.3 BENEFITS

In the world of electronic invoicing, suppliers are burdened with processing their invoices using their internal ERP then logging on to their customer's e-invoice portal and submitting their invoice. At a certain level of invoice volume, direct B2B (Business to Business) integration between supplier and customer becomes cost effective. B2B integration uses a standardized invoice document format that is automatically transmitted from the supplier's ERP environment to the customer's business system eliminating direct manual electronic invoice entry.

Some specific benefits of direct integration between CRC and our trading partners include:

- Improve payment processing time
- Lower administrative costs
- Faster response time
- Fewer errors and improved accuracy

1.4 CRC CONTACTS

For each implementation, CRC assigns the following roles to participate in the engagement:

SUPPLIER COORDINATORS – The coordinators facilitate the implementation process between the supplier and CRC representatives.

INTEGRATION DEVELOPMENT TEAM – The CRC representatives responsible for developing the technical integration for CRC. The team facilitates the integration testing and migration to production.

BUSINESS SUPPORT/BUYER/MANAGER – These CRC business representatives define CRC business requirements and provide user acceptance prior to implementation.

It is highly recommended that CRC's suppliers have complimentary representatives to support the B2B integration implementation.



2 TECHNICAL GUIDELINES

2.1 TECHNICAL OVERVIEW

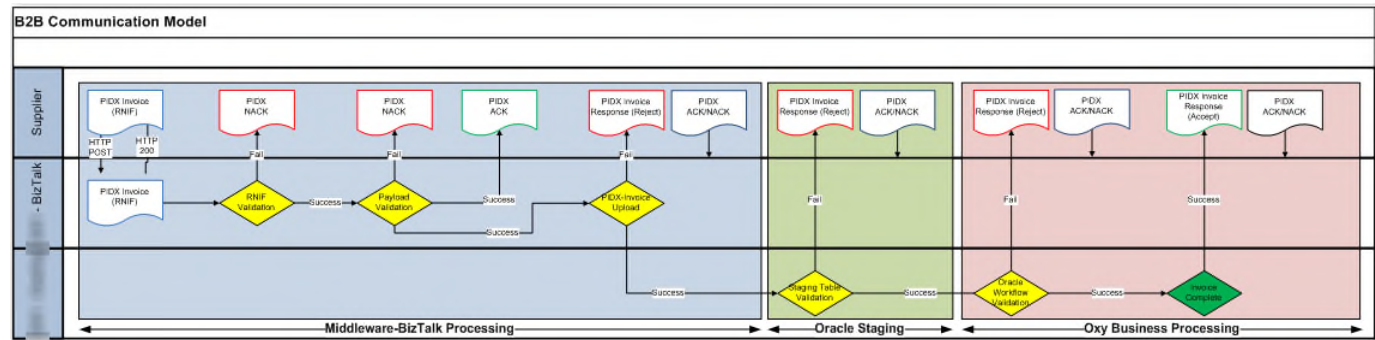


Figure 1 Message Flow Wire Diagram

Figure 1 illustrates the flow of the RosettaNet PIDX message into the CRC Oracle EBS backend system and the generation of status notification messages sent back to the supplier. The message flow and processing can be broken into three stages:

- Middleware Processing,
- Oracle Staging and Validation and
- CRC Business Processing.

CRC will generate technical or business responses across each stage. For additional information on messaging, see section [2.3 Status Notification](#).

2.1.1 SECURE MESSAGE EXCHANGE

2.1.1.1 TRANSPORT LEVEL

At the transport level CRC requires HTTPS (SSL over HTTP) with client certificate authentication. CRC and the trading partners must exchange the Public-keys of the respective certificate used for encryption. The certificate must be a 3 level certificate.

2.1.1.2 PACKET LEVEL

At the packet (message) level CRC uses the RosettaNet Implementation Framework (RNIF) Protocol. RNIF includes message level encryption and digital-signing. CRC has implemented RNIF protocol with guaranteed delivery notification.

2.1.1.3 STANDARD PROTOCOLS

CRC uses RosettaNet 2.0 and PIDX (Petroleum Industry Data Exchange) as the standards for delivering and processing all electronic data. RosettaNet standards aim to align the business processes of supply chain partners. This goal is achieved by the creation of RosettaNet Partner Interface Processes or PIPs and it helps to define business processes between trading partners. Each PIP defines how two specific processes, running in two different partners' organizations, will be standardized and interfaced across the entire supply chain. PIP includes all business logic, message flow, and message contents to enable alignment of the two processes.

The RNIF is designed to assist e-business system implementers and solution providers who wish to create or implement interoperable software application components that cooperatively execute RosettaNet PIPs. Trading partners can ensure their applications integrate with each other if both parties comply with the RNIF specifications. RNIF defines the packaging of PIPs as well as authentication, authorization, encryption, and non-repudiation requirements. RNIF 2.0 also introduces the concept of transfer independence which ensures RosettaNet Business Messages must be delivered to trading partners in exactly the way they were generated by the senders. Figure 2 below shows the structure of an *RNIF Multi-Part MIME Message*.

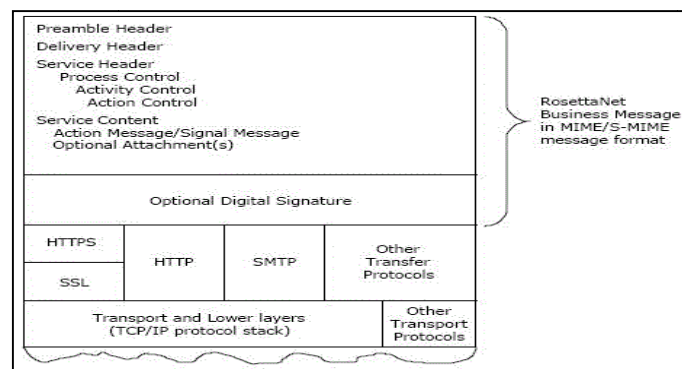


Figure 2 RNIF Multi-Part MIME Message structure

2.1.2 PIDX INVOICE – VERSION SPECIFICATION

CRC uses PIDX-Invoice 1.01 + New Tags as the mechanism to receive Supplier Charges from the integrated suppliers. Suppliers posting charges to CRC will be required to use PIDX-Invoice 1.01 and the RosettaNet 2.0 Protocol.

The PIDX-Invoice 1.01 + New Tags XSD Schema include the following updates:

1. Namespace: xmlns:pidx="http://www.pidx.org/schemas/v1.01"
2. Line Item Identifier with two additional attributes Extension1 and Extension2
3. Price Attributes Tags: PriceAttributeA, PriceAttributeB, PriceAttributeC

CRC provides a template for the PIDX-Invoice (Section III). This template contains the minimum required data mapped to their appropriate PIDX-Invoice tags. Suppliers may include additional data in their PIDX-Invoice as long as the submitted PIDX-Invoice validates against the standard XSD Schema. Supplier Charges failing to validate against the XSD Schema will be rejected.

2.1.3 REQUIRED / AVAILABLE FIELDS IN THE PIDX – INVOICE

Required: Field must exist in the PIDX Invoice and must contain data

Available: Field must exist in the PIDX Invoice and include data when available

2.1.4 NOTES ON FIELD PROPERTIES

Field Lengths are defined in the Data Type Columns.

Date/Date Time values need to Conform to PIDX standard.

Number values will be defined as the following:

NUMBER	999...(38 9's) x10 ¹²⁵ maximum value	Can be represented to full 38-digit precision (the mantissa).
	-999...(38 9's) x10 ¹²⁵ minimum value	Can be represented to full 38-digit precision (the mantissa).

2.1.5 PIDX – INVOICE FIELD TABLES

2.1.5.1 HEADER FIELDS

CRC Header Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Header Fields Description	PIDX-Invoice Elements
VENDOR_DUNS_NUMBER	R	VARCHAR2 (50 BYTE)	The system will check for the existence and length of the field. If the validation fails, the document will be rejected.	A unique nine digit identification number provided by Duns and Bradstreet.	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:PartnerIdentifier/@partnerIdentifierIndicator="DUNSNumber"
CRC_VENDOR_NUMBER	R	VARCHAR2 (25 BYTE)	The system will check for a match in Oracle in conjunction with the PO/GBPA number. If the validation fails, the document will be rejected.	A unique vendor identifier created by CRC. This value will be provided during the on-boarding process.	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:PartnerIdentifier/@partnerIdentifierIndicator="AssignedByBuyer"
VENDOR_SITE_CODE (RemitTo)	R	VARCHAR2 (25 BYTE)	The system will check for a match in Oracle in conjunction with the CRC Vendor number. If the validation fails, the document will be rejected.	A unique vendor remits to identifier created by CRC. This value will be provided during the on-boarding process.	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:PartnerIdentifier/@partnerIdentifierIndicator="AssignedBySeller"
VENDOR_CONTACT_NAME	R	VARCHAR2 (250 BYTE)	The system will check for the existence and length of the field. If the validation fails, the document will be rejected.	Contact Name	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="Other" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/pidx:ContactName
VENDOR_CONTACT_EMAIL	R	VARCHAR2 (250 BYTE)	The system will check for the existence and length of the field. If the validation fails, the document will be rejected.	Contact E-Mail	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="Other" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/pidx:EmailAddress




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CRC Header Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Header Fields Description	PIDX-Invoice Elements
CRC_CONTACT_NAME	A	VARCHAR2 (200 BYTE)	The system will check for the length of the field. If the validation fails, the document will be rejected.	Contact Name	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Payer" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="OrderContract" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/pidx:ContactName
CRC_CONTACT_EMAIL	R	VARCHAR2 (200 BYTE)	The system will check for the existence and length of the field. If the validation fails, the document will be rejected.	Contact E-Mail	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Payer" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="OrderContract" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/pidx:EmailAddress
PO_NUMBER	R	VARCHAR2 (50 BYTE)	The system will check for the length of the field and a match in Oracle in conjunction with the CRC Vendor number. If the validation fails, the document will be rejected.	Global Blanket Purchase Agreement (GPBA) Number. This value will be provided initially during onboard and then on an ongoing basis.	pidx:Invoice/pidx:InvoiceProperties/pidx:PurchaseOrderInformation/pidx:PurchaseOrderNumber This is CRC GBPA
AP_LOCATION	R	VARCHAR2 (50 BYTE)	The system will check for the length of the field and a match in Oracle in conjunction with the PO/GBPA number. If the validation fails, the document will be rejected. See section 3 AP Location and Units of Measure Value Sets .	Selected from Accounts Payable List of Locations Values. This value will be provided initially during onboard and then on an ongoing basis.	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Payer" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:PartnerIdentifier/@partnerIdentifierIndicator="AssignedByBuyer". This is CRC_AP_LOCATION
FT_NUMBER	A*	VARCHAR2 (50 BYTE)	The system will check for the existence*, length, uniqueness of the field for each supplier. If the validation fails, the document will be rejected.	Field Ticket Number – *Either invoice or field ticket number must be supplied	pidx:Invoice/pidx:InvoiceProperties/pidx:FieldTicketInformation/pidx:FieldTicketNumber
FT_TYPE	R	VARCHAR2 (30 BYTE)	The system will check for valid list of enumerated values as per PIDX.	Invoice Type: ProductOrService	pidx:Invoice/pidx:InvoiceProperties/pidx:InvoiceTypeCode

CRC Header Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Header Fields Description	PIDX-Invoice Elements
FT_DESCRIPTION	R	VARCHAR2 (4000 BYTE)	The system will check for the existence and length of the field. If the validation fails, the document will be rejected.	Field Ticket Description	pidx:Invoice/pidx:InvoiceProperties/pidx:Comment
WELL / LEASE / SITE	R	VARCHAR2 (50 BYTE)	The system will check for the existence and length of the field. If the validation fails, the document will be rejected.	Well Lease Site Info	pidx:Invoice/pidx:InvoiceProperties/pidx:JobLocationInformation/pidx:WellInformation/pidx:WellName
SERVICE_DATE	R	DATE-TIME	The system will check for the existence and data type of the field. The date must not be in the future and must be less than or equal to the Invoice date. If the validation fails, the document will be rejected.	Delivery Date of Goods or Services	pidx:Invoice/pidx:InvoiceProperties/pidx:ServiceDateTime/pidx:Invoice/pidx:InvoiceProperties/pidx:ServiceDateTime/@dateTypeIndicator="ServicePeriodStart"
INVOICE_NUMBER	A*	VARCHAR2 (50 BYTE)	The system will check for the existence*, length, uniqueness of the field for each supplier. If the validation fails, the document will be rejected.	Supplier Invoice Number - *Either invoice or field ticket number must be supplied	pidx:Invoice/pidx:InvoiceProperties/pidx:InvoiceNumber
INVOICE_DATE	R	DATE	The system will check for the existence and data type of the field. The date must not be in the future. If the validation fails, the document will be rejected.	Supplier Invoice Date	pidx:Invoice/pidx:InvoiceProperties/pidx:InvoiceDate
TOTAL_LINE_ITEMS	R	NUMBER	The system will check for the existence and data type of the field and a match between the value provided and the value in the last PIDX Invoice element: pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemNumber . If the validation fails, the document will be rejected.	Count of Invoice Line Items	pidx:Invoice/pidx:InvoiceSummary/pidx:TotalLineItems

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CRC Header Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Header Fields Description	PIDX-Invoice Elements
CURRENCY_CODE	R	VARCHAR2 (3 BYTE)	The system will check for the existence and data type of the field. The only valid value is USD. If the validation fails, the document will be rejected.	Currency Code	pidx:Invoice/pidx:InvoiceProperties/pidx:PrimaryCurrency/pidx:CurrencyCode
TOTAL_AMOUNT	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Total Amount Invoiced	pidx:Invoice/pidx:InvoiceSummary/pidx:InvoiceTotal/pidx:MonetaryAmount

2.1.5.2 LINE FIELDS

CRC Line Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Line Fields Description	PIDX-Invoice Elements
LINE_NUMBER	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Line Number	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemNumber
FT_NUMBER	A*	VARCHAR2 (50 BYTE)	The system will check for the existence*, length, uniqueness of the field for each supplier. This field is only required if the document is an invoice. If the validation fails, the document will be rejected.	Field Ticket Number *If available	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:FieldTicketInformation/pidx:FieldTicketNumber
VENDOR_ITEM_NUMBER	R	VARCHAR2 (50 BYTE)	The system will check for the existence, length, and data type of the field. If the validation fails, the document will be rejected.	Supplier Item Number	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemInformation/pidx:LineItemIdentifier/@identifierIndicator="AssignedBySeller"
VENDOR_ITEM_EXTENSION	A	VARCHAR2 (150 BYTE)	The system will check for the length of the field. If the validation fails, the document will be rejected.	Supplier Item Extension Number	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemInformation/pidx:LineItemIdentifier/@identifierIndicator="Extension"



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VENDOR_ITEM_EXTENSION2	A	VARCHAR2 (150 BYTE)	The system will check for the length of the field. If the validation fails, the document will be rejected.	Supplier Item Extension Number	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemInformation/pidx:LineItemIdentifier/@identifierIndicator="Extension2"
ITEM_DESCRIPTION	R	VARCHAR2 (4000)	The system will check for the existence, length, and data type of the field. If the validation fails, the document will be rejected.	Item Description	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemInformation/pidx:LineItemDescription
LINE_QUANTITY	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Line Quantity	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:InvoiceQuantity/pidx:Quantity
UNIT_PRICE	R	NUMBER	The system will check for the existence, data type of the field, and match to the agreement. If the validation fails, the document will be rejected.	Unit Price	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:Pricing/pidx:UnitPrice/pidx:MonetaryAmount
UOM_CODE	R	VARCHAR2 (25 BYTE)	The system will check for the existence and validate the value against the agreed upon valid list of values. If the validation fails, the document will be rejected. See section 3 AP Location and Units of Measure Value Sets .	Unit of Measure	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:InvoiceQuantity/pidx:UnitOfMeasureCode
LINE_AMOUNT	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Line Amount	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemTotal/pidx:MonetaryAmount
WO_JOB_NUMBER	A	VARCHAR2 (50 BYTE)	The system will check for the length of the field and a match in Oracle in conjunction with the CRC AP Location and Project Number. If the validation fails, the document will be rejected.	Work Order Job Number	pidx:Invoice/pidx:InvoiceDetails/pidx:ReferenceInformation/@referenceInformationIndicator="Job Number"



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CRC Line Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Line Fields Description	PIDX-Invoice Elements
PROJECT_NUMBER	R	VARCHAR2 (50 BYTE)	The system will check for the length of the field and a match in Oracle in conjunction with the CRC AP Location and WO_JOB_NUMBER (if provided). If the validation fails, the document will be rejected.	Project Number	pidx:Invoice/pidx:InvoiceDetails/pidx:ReferenceInformation/@referenceInformationIndicator="ProjectNumber"
TASK_NUMBER	A	VARCHAR2 (50 BYTE)	If available System will check for a match in Oracle in conjunction with the Project Number, WO_JOB_NUMBER (if provided) and CRC AP Location.	Task Number	pidx:Invoice/pidx:InvoiceDetails/pidx:ReferenceInformation/@referenceInformationIndicator="Other"
SERVICE_DATE	R	DATE-TIME	The system will check for the existence and data type of the field. The date must not be in the future and must be less than or equal to the Invoice date. If the validation fails, the document will be rejected.	Service Date	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:ServiceDateTime pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:ServiceDateTime/dateTypeIndicator="ServicePeriodStart"
TOTAL_TAX_AMOUNT	A	NUMBER	The system will check for the length, and data type of the field. If the validation fails, the document will be rejected. If line is taxed, Amount, Rate, and Code are all required.	Total Tax Amount	All PIDX Supported TaxTypeCode are allowed. Supplier can use (0-n Tax Nodes) in the PIDX-Invoice. Example: pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:Tax/pidx:TaxAmount/pidx:MonetaryAmount pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:Tax/pidx:TaxTypeCode – StateSalesTax
TAX_RATE	A	VARCHAR2 (150 BYTE)	The system will check for the length, and data type of the field. If the validation fails, the document will be rejected. If line is taxed, Amount, Rate, and Code are all required.	Tax Rate	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:Tax/TaxRate



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CRC Line Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Line Fields Description	PIDX-Invoice Elements
TAX_TYPE_CODE	A	VARCHAR2 (4000 BYTE)	The system will check for the length, and data type of the field. If the validation fails, the document will be rejected. If line is taxed, Amount, Rate, and Code are all required.	Tax Type	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:Tax/pidx:TaxTypeCode
PRICE_ATTRIBUTE_A	A	VARCHAR2 (150 BYTE)	The system will check for the length, and data type of the field. If the validation fails, the document will be rejected.	Supplier Price Qualifiers	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:PriceAttributeA
PRICE_ATTRIBUTE_B	A	VARCHAR2 (150 BYTE)	The system will check for the length, and data type of the field. If the validation fails, the document will be rejected.	Supplier Price Qualifiers	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:PriceAttributeB
PRICE_ATTRIBUTE_C	A	VARCHAR2 (150 BYTE)	The system will check for the length, and data type of the field. If the validation fails, the document will be rejected.	Supplier Price Qualifiers	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:PriceAttributeC
BOM_IDENTIFIER	A	VARCHAR2 (255 BYTE)	The system will check for the length, and data type of the field. If the validation fails, the document will be rejected.	Bill Of Material Identifier	pidx:Invoice/pidx:InvoiceDetails/pidx:ReferenceInformation/@referenceInformationIndicator="CostAllocationReference"/ReferenceNumber
BOM_DETAILS	A	VARCHAR2 (4000)	The system will check for the length, and data type of the field. If the validation fails, the document will be rejected.	Bill Of Material Details	pidx:Invoice/pidx:InvoiceDetails/pidx:ReferenceInformation/@referenceInformationIndicator="CostAllocationReference"/Description

2.1.5.3 SPECIAL TAX LINE (OPTIONAL)

CRC Optional Tax Line Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Optional Tax Line Fields Description	PIDX-Invoice Elements
LINE_NUMBER	R	NUMBER	The system will check for the existence, length, and data type of the field. If the validation fails, the document will be rejected.	Line Number	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemNumber
FT_NUMBER	A*	VARCHAR2 (50 BYTE)	The system will check for the existence*, length, uniqueness of the field for each supplier. This field is only required if the document is an invoice. If the validation fails, the document will be rejected.	Field Ticket number - *If available	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:FieldTicketInformation/pidx:FieldTicketNumber
VENDOR_ITEM_NUM	R	VARCHAR2 (50 BYTE)	The system will check for the existence, length, and data type of the field. If the validation fails, the document will be rejected.	Supplier Item Number – Value = TAX TYPE CODE	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemInformation/pidx:LineItemIdentifier/@identifierIndicator="AssignedBySeller". Value = PIDX TAX TYPE CODE
ITEM_DESCRIPTION	R	VARCHAR2 (4000)	The system will check for the existence, length, and data type of the field. If the validation fails, the document will be rejected.	Item Description – Value = "Tax Other"	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemInformation/pidx:LineItemDescription Value = Tax-Only Line Item
LINE_QUANTITY	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Line Quantity	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:InvoiceQuantity/pidx:Quantity
UNIT_PRICE	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Unit Price	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:Pricing/pidx:UnitPrice/pidx:MonetaryAmount. THIS IS THE TAX RATE
UOM_CODE	R	VARCHAR2 (25 BYTE)	The system will check for the existence and validate the value against the agreed upon valid list of values. If the validation fails, the document will be rejected. See section 3 AP Location and Units of Measure Value Sets .	Unit of Measure	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:InvoiceQuantity/pidx:UnitOfMeasureCode



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CRC Optional Tax Line Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Optional Tax Line Fields Description	PIDX-Invoice Elements
LINE_AMOUNT	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Line Amount = Tax Amount	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemTotal/pidx:MonetaryAmount THIS IS THE TAX AMOUNT
WO_JOB_NUMBER	A	VARCHAR2 (50 BYTE)	The system will check for the length of the field and a match in Oracle in conjunction with the CRC AP Location and Project Number. If the validation fails, the document will be rejected.	Work Order Job Number	pidx:Invoice/pidx:InvoiceDetails/pidx:ReferenceInformation/@referenceInformationIndicator="JobNumber"
PROJECT_NUMBER	A	VARCHAR2 (50 BYTE)	The system will check for the length of the field and a match in Oracle in conjunction with the CRC AP Location and WO_JOB_NUMBER (if provided). If the validation fails, the document will be rejected.	Project Number	pidx:Invoice/pidx:InvoiceDetails/pidx:ReferenceInformation/@referenceInformationIndicator="ProjectNumber"
TASK_NUMBER	A	VARCHAR2 (50 BYTE)	If available System will check for a match in Oracle in conjunction with the Project Number, WO_JOB_NUMBER (if provided) and CRC AP Location.	Task Number	pidx:Invoice/pidx:InvoiceDetails/pidx:ReferenceInformation/@referenceInformationIndicator="Other"
SERVICE_DATE	R	DATE- TIME	The system will check for the existence and data type of the field. The date must not be in the future and must be less than or equal to the Invoice date. If the validation fails, the document will be rejected.	Service Date	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:ServiceDateTime pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:ServiceDateTime/dateTypeIndicator="ServicePeriodStart"

2.1.5.4 ADDITIONAL SUB LINE COLUMNS

CRC Sub Line Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Sub Line Field Description	PIDX-Invoice Elements
SUB_LINE_NUMBER	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Sub Line Number to provide details for each line.	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:InvoiceSubLineItem/pidx:SubLineItemNumber
LINE_QUANTITY	A	NUMBER	If available the system will check for data type of the field. If the validation fails, the document will be rejected.	Sub Line Quantity. To be used when multiple informative quantities available for the line.	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:InvoiceSubLineItem/pidx:InvoiceQuantity/pidx:Quantity
UOM_DETAILS	A	VARCHAR2 (4000)	If available the system will check for data type of the field. If the validation fails, the document will be rejected.	Sub Line Unit of measure details. To be used when multiple informative quantities available for the line.	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:InvoiceSubLineItem/pidx:LineItemInformation/pidx:LineItemDescription



2.1.6 PIDX – MATCH TO PO

2.1.6.1 PIDX – MATCH TO PO HEADER FIELDS

CRC Header Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Header Fields Description	PIDX-Invoice Elements
VENDOR_DUNS_NUMBER	R	VARCHAR2 (50 BYTE)	The system will check for the existence and length of the field. If the validation fails, the document will be rejected.	A unique nine digit identification number provided by Duns and Bradstreet.	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:PartnerIdentifier/@partnerIdentifierIndicator="DUNSNumber"
CRC_VENDOR_NUMBER	R	VARCHAR2 (25 BYTE)	The system will check for a match in Oracle in conjunction with the PO/GBPA number. If the validation fails, the document will be rejected.	A unique vendor identifier created by CRC. This value will be provided during the on-boarding process.	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:PartnerIdentifier/@partnerIdentifierIndicator="AssignedByBuyer"
VENDOR_SITE_CODE (RemitTo)	R	VARCHAR2 (25 BYTE)	The system will check for a match in Oracle in conjunction with the CRC Vendor number. If the validation fails, the document will be rejected.	A unique vendor remit to identifier created by CRC. This value will be provided during the on-boarding process.	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:PartnerIdentifier/@partnerIdentifierIndicator="AssignedBySeller"
VENDOR_CONTACT_NAME	A	VARCHAR2 (250 BYTE)	If available, the system will check for the length and data type of the field. If the validation fails, the document will be rejected.	Contact Name	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="Other" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/pidx:ContactName
VENDOR_CONTACT_EMAIL	A	VARCHAR2 (250 BYTE)	If available the system will check for the length and data type of the field. If the validation fails, the document will be rejected.	Contact E-Mail	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="Other" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/pidx:EmailAddress



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CRC_CONTACT_NAME	A	VARCHAR2 (200 BYTE)	If available the system will check for the length and data type of the field. If the validation fails, the document will be rejected.	Contact Name	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Payer" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="OrderContract"
CRC_CONTACT_EMAIL	A	VARCHAR2 (200 BYTE)	If available the system will check for the length and data type of the field. If the validation fails, the document will be rejected.	Contact E-Mail	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Payer" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="OrderContract"
PO_NUMBER	R	VARCHAR2 (50 BYTE)	The system will check for the existence and length of the field and a match in Oracle in conjunction with the CRC Vendor number. If the validation fails, the document will be rejected.	Global Blanket Purchase Agreement (GPBA) Number. This value will be provided initially during onboard and then on an ongoing basis.	pidx:Invoice/pidx:InvoiceProperties/pidx:PurchaseOrderInformation/pidx:PurchaseOrderNumber This is CRC GBPA
AP_LOCATION	A	VARCHAR2 (50 BYTE)	The system will check for the length of the field and a match in Oracle in conjunction with the PO/GBPA number. If the validation fails, the document will be rejected. See section 3 AP Location and Units of Measure Value Sets .	Selected from Accounts Payable List of Locations Values. This value will be provided initially during onboard and then on an ongoing basis.	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Payer" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:PartnerIdentifier/@partnerIdentifierIndicator="AssignedByBuyer". This is CRC_AP_LOCATION
FT_TYPE	R	VARCHAR2 (30 BYTE)	The system will check for the existence, length and validate against the list of enumerated values as per PIDX. If the validation fails, the document will be rejected.	Invoice Type: Other	pidx:Invoice/pidx:InvoiceProperties/pidx:InvoiceTypeCode



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FT_DESCRIPTION	R	VARCHAR2 (4000 BYTE)	The system will check for the existence and length of the field. If the validation fails, the document will be rejected.	Field Ticket Description	pidx:Invoice/pidx:InvoiceProperties/pidx:Comment
INVOICE_NUMBER	R	VARCHAR2 (50 BYTE)	The system will check for the existence, length, uniqueness of the field for each supplier. If the validation fails, the document will be rejected.	Supplier Invoice Number	pidx:Invoice/pidx:InvoiceProperties/pidx:InvoiceNumber
INVOICE_DATE	R	DATE	The system will check for the existence and data type of the field. The date must not be in the future. If the validation fails, the document will be rejected.	Supplier Invoice Date	pidx:Invoice/pidx:InvoiceProperties/pidx:InvoiceDate
TOTAL_LINE_ITEMS	A	NUMBER	The system will check for the existence and data type of the field and a match between the value provided and the value in the last PIDX Invoice element: pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemNumber. If the validation fails, the document will be rejected.	Count of Invoice Line Items	pidx:Invoice/pidx:InvoiceSummary/pidx:TotalLineItems
CURRENCY_CODE	R	VARCHAR2 (3 BYTE)	The system will check for the existence and data type of the field. The only valid value is USD. If the validation fails, the document will be rejected.	Currency Code	pidx:Invoice/pidx:InvoiceProperties/pidx:PrimaryCurrency/pidx:CurrencyCode
TOTAL_AMOUNT	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Total Amount Invoiced	pidx:Invoice/pidx:InvoiceSummary/pidx:InvoiceTotal/pidx:MonetaryAmount

2.1.6.2 PIDX – MATCH TO PO INVOICE LINE FIELDS

CRC Line Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Line Fields Description	PIDX-Invoice Elements
LINE_NUMBER	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Line Number	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemNumber
VENDOR_ITEM_NUM	A	VARCHAR2 (50 BYTE)	The system will check for the length, and data type of the field. If the validation fails, the document will be rejected.	Supplier Item Number	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemInformation/pidx:LineItemIdentifier/@identifierIndicator="AssignedBySeller"
ITEM_DESCRIPTION	A	VARCHAR2 (4000 BYTE)	The system will check for the length, and data type of the field. If the validation fails, the document will be rejected.	Item Description	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemInformation/pidx:LineItemDescription
LINE_QUANTITY	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Line Quantity	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:InvoiceQuantity/pidx:Quantity
UNIT_PRICE	R	NUMBER	The system will check for the existence, data type of the field, and match to the agreement. If the validation fails, the document will be rejected.	Unit Price	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:Pricing/pidx:UnitPrice/pidx:MonetaryAmount
UOM_CODE	R	VARCHAR2 (25 BYTE)	The system will check for the existence and validate the value against the agreed upon valid list of values. If the validation fails, the document will be rejected. See section 3 AP Location and Units of Measure Value Sets .	Unit of Measure	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:InvoiceQuantity/pidx:UnitOfMeasureCode
LINE_AMOUNT	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Line Amount	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemTotal/pidx:MonetaryAmount

2.1.7 PIDX – CREDIT MEMO

2.1.7.1 PIDX – CREDIT MEMO HEADER FIELDS

CRC Header Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Header Fields Description	PIDX-Invoice Elements
VENDOR_DUNS_NUMBER	R	VARCHAR2 (50 BYTE)	The system will check for the existence and length of the field. If the validation fails, the document will be rejected.	A unique nine digit identification number provided by Duns and Bradstreet.	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator="Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:PartnerIdentifier/@partnerIdentifierIndicator="DUNS Number"
CRC_VENDOR_NUMBER	R	VARCHAR2 (25 BYTE)	The system will check for a match in Oracle in conjunction with the PO/GBPA number. If the validation fails, the document will be rejected.	A unique vendor identifier created by CRC. This value will be provided during the on boarding process.	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator="Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:PartnerIdentifier/@partnerIdentifierIndicator="AssignedByBuyer"
VENDOR_SITE_CODE (RemitTo)	R	VARCHAR2 (25 BYTE)	The system will check for a match in Oracle in conjunction with the CRC Vendor number. If the validation fails, the document will be rejected.	A unique vendor remits to identifier created by CRC. This value will be provided during the on boarding process.	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator="Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:PartnerIdentifier/@partnerIdentifierIndicator="AssignedBySeller"
VENDOR_CONTACT_NAME	A	VARCHAR2 (250 BYTE)	The system will check for the length of the field. If the validation fails, the document will be rejected.	Contact Name	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator="Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="Other" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/pidx:ContactName



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VENDOR_CONTACT_EMAIL	A	VARCHAR2 (250 BYTE)	If available, the system will check for the length of the field. If the validation fails, the document will be rejected.	Contact E-Mail	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Seller" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="Other" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/pidx:EmailAddress
CRC_CONTACT_NAME	A	VARCHAR2 (200 BYTE)	If available, the system will check for the length of the field. If the validation fails, the document will be rejected.	Contact Name	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Payer" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="OrderContract" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/pidx:ContactName
CRC_CONTACT_EMAIL	A	VARCHAR2 (200 BYTE)	If available, the system will check for the length of the field. If the validation fails, the document will be rejected.	Contact E-Mail	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Payer" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="OrderContract" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:ContactInformation/pidx:EmailAddress
AP_LOCATION	R	VARCHAR2 (50 BYTE)	The system will check for the existence, length of the field and a match in Oracle in conjunction with the PO/GBPA number. If the validation fails, the document will be rejected. See section 3 AP Location and Units of Measure Value Sets .	Selected from Accounts Payable List of Locations Values. This value will be provided initially during onboard and then on an ongoing basis.	pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Payer" pidx:Invoice/pidx:InvoiceProperties/pidx:PartnerInformation/pidx:PartnerIdentifier/@partnerIdentifierIndicator="AssignedByBuyer". This is CRC_AP_LOCATION
FT_TYPE	R	VARCHAR2 (30 BYTE)	The system will check for valid list of enumerated values as per PIDX.	Invoice Type: "CreditMemo"	pidx:Invoice/pidx:InvoiceProperties/pidx:InvoiceTypeCode




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FT_DESCRIPTION	R	VARCHAR2 (4000)	The system will check for the existence and length of the field. If the validation fails, the document will be rejected.	Field Ticket Description	pidx:Invoice/pidx:InvoiceProperties/pidx:Comment
INVOICE_NUMBER	R	VARCHAR2 (50 BYTE)	The system will check for the existence, length, uniqueness of the field for each supplier. If the validation fails, the document will be rejected.	Supplier Invoice Number	pidx:Invoice/pidx:InvoiceProperties/pidx:InvoiceNumber
INVOICE_DATE	R	DATE	The system will check for the existence and data type of the field. The date must not be in the future. If the validation fails, the document will be rejected.	Supplier Invoice Date	pidx:Invoice/pidx:InvoiceProperties/pidx:InvoiceDate
ORIG_INVOICE_NUMBER	A	VARCHAR2 (150 BYTE)	If available, the system will check for the length of the field. If the validation fails, the document will be rejected.	Provide Original Invoice number reference if available.	pidx:Invoice/pidx:InvoiceProperties/pidx:ReferenceInformation/@referenceInformationIndicator="OriginalInvoiceNumber"/pidx:ReferenceNumber
ORIG_FT_NUMBER	A	VARCHAR2 (150 BYTE)	If available, the system will check for the length of the field. If the validation fails, the document will be rejected.	Provide Original Field Ticket number reference if available.	pidx:Invoice/pidx:InvoiceProperties/pidx:ReferenceInformation/@referenceInformationIndicator="DeliveryTicketNumber"/pidx:ReferenceNumber
ORIG_CONTRACT_NUM	A	VARCHAR2 (150 BYTE)	If available, the system will check for the length of the field. If the validation fails, the document will be rejected.	Provide Original Contract number reference if available.	pidx:Invoice/pidx:InvoiceProperties/pidx:ReferenceInformation/@referenceInformationIndicator="ContractNumber"/pidx:ReferenceNumber
CURRENCY_CODE	R	VARCHAR2 (3 BYTE)	The system will check for the existence and data type of the field. The only valid value is USD. If the validation fails, the document will be rejected.	Currency Code	pidx:Invoice/pidx:InvoiceProperties/pidx:PrimaryCurrency/pidx:CurrencyCode
TOTAL_AMOUNT	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Total Amount Invoiced	pidx:Invoice/pidx:InvoiceSummary/pidx:InvoiceTotal/pidx:MonetaryAmount

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2.1.7.2 PIDX – CREDIT MEMO LINE FIELDS

CRC Line Fields	Required (R) or Available (A)	Oracle Data Type	Validation	CRC Line Fields Description	PIDX-Invoice Elements
LINE_NUMBER	R	NUMBER	The system will check for the existence and data type of the field. If the validation fails, the document will be rejected.	Line Number	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemNumber
VENDOR_ITEM_NUMBER	A	VARCHAR2 (50 BYTE)	If available, the system will check for the length and data type of the field. If the validation fails, the document will be rejected.	Supplier Item Number	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemInformation/pidx:LineItemIdentifier/@identifierIndicator="AssignedBySeller"
ITEM_DESCRIPTION	A	VARCHAR2 (4000 BYTE)	If available, the system will check for the length and data type of the field. If the validation fails, the document will be rejected.	Item Description	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemInformation/pidx:LineItemDescription
LINE_QUANTITY	A	NUMBER	If available, the system will check for the data type of the field. If the validation fails, the document will be rejected.	Line Quantity	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:InvoiceQuantity/pidx:Quantity
UNIT_PRICE	A	NUMBER	If available, the system will check for the data type of the field. If the validation fails, the document will be rejected.	Unit Price	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:Pricing/pidx:UnitPrice/pidx:MonetaryAmount
UOM_CODE	A	VARCHAR2 (25 BYTE)	If available, the system will check for the data type of the field. If the validation fails, the document will be rejected.	Unit of Measure	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:InvoiceQuantity/pidx:UnitOfMeasureCode
LINE_AMOUNT	A	NUMBER	If available, the system will check for the data type of the field. If the validation fails, the document will be rejected.	Line Amount	pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLineItem/pidx:LineItemTotal/pidx:MonetaryAmount


2.1.8 PRICEBOOK CATALOG LINE & SUPPLIER CHARGES LINE

2.1.8.1 OFS PORTAL CATALOG LINE IDENTIFIER & PIDX-INVOICE LINE

OFS Portal Pricebook Line	Supplier Charges Line (PIDX-Invoice)
Line Identifier	
PartNum	LinItemIdentifier pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLinItem/pidx:LinItemInformation/pidx:LinItemIdentifier/@identifierIndicator="AssignedBySeller"
PartNumExt	Extension pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLinItem/pidx:LinItemInformation/pidx:LinItemIdentifier/@identifierIndicator="Extension"
PartNumExt2	Extension2 pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLinItem/pidx:LinItemInformation/pidx:LinItemIdentifier/@identifierIndicator="Extension2"
Pricing Qualifier	
ParameterA	PriceAttributeA pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLinItem/pidx:PriceAttributeA
ParameterB	PriceAttributeB pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLinItem/pidx:PriceAttributeB
ParameterC	PriceAttributeC pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLinItem/pidx:PriceAttributeC
UOM	UOM pidx:Invoice/pidx:InvoiceDetails/pidx:InvoiceLinItem/pidx:InvoiceQuantity/pidx:UnitOfMeasureCode

2.1.8.2 CRC PRICEBOOK LINE UNIQUENESS CRITERIA AND PIDX-INVOICE LINE

OFS Catalog Line	CRC Price Book Template	Supplier Charges Line (PIDX XML-Invoice)
PartNum	Extended Item 1	LinItemIdentifier
PartNumExt	Extended Item 2	Extension
PartNumExt2	Extended Item 3	Extension2
Parameter A	Extended Item 4	PriceAttributeA
Parameter B	Extended Item 5	PriceAttributeB
Parameter C	Extended Item 6	PriceAttributeC
UOM	UOM	UOM

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2.2 CRC SUPPLIER CHARGES PIDX – INVOICE STANDARD

2.2.1 CRC SUPPLIER CHARGES PIDX – INVOICE OVERVIEW

The following are the typical sections of CRC Supplier Charges PIDX-Invoice Standard (PIDX-Invoice):

- Header
- Lines (one or more of these types)
 - Line simple
 - Line complex
 - Line simple + price attribute
 - Line complex + price attribute
 - Sales Tax only line (Optional)
- Summary

Sales Tax in PIDX-Invoice:

CRC allows two options for submitting sales tax in the PIDX-Invoice. One option is to include sales tax within the PIDX Invoice line. The other option is to submit distinct PIDX Invoice line(s) for sales tax. All tax types can be submitted.

2.2.2 ATTACHMENT REQUIREMENTS

Invoices submitted to CRC require one or more attachments. Any number of attachments may be provided. Each attachment file has a size limit of 10 MB. The attachment's file name needs to have the appropriate file extension. For example for a PDF file the attachment file name is <AnyFileNameIsFine>.pdf. For an image (GIF) file the attachment file name is <AnyFileNameIsFine>.gif. Note appropriate file extension. The actual file name can be anything.

There are two options to provide the attachment file names:

1. In the RNIF Package:


Example:

```
Content-Disposition: attachment; name="Attachement1"; filename="
<AnyFileNameIsFine>.pdf"
```

2. In the PIDX-Invoice:

Example:

```
- <pidx:Attachment>
  <pidx:AttachmentPurposeCode>Other</pidx:AttachmentPurposeCode>
  <pidx:FileName>AnyFileNameIsFine.pdf</pidx:FileName>
</pidx:Attachment>
```

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2.2.2.1 PIDX INVOICE FILE SAMPLE

- PIDX invoice file sample:



PIDX_Invoice_CRC_Template_V21.xml

2.2.2.2 PIDX MATCH TO PO FILE SAMPLE

- PIDX match to PO file sample:



B2B_Match_to_PO_Sample.xml

2.2.2.3 PIDX CREDIT MEMO FILE SAMPLE

- PIDX Credit Memo file sample:



Sample PIDX_CreditMemo.xml

2.3 STATUS NOTIFICATION

CRC will transmit status notifications back to the supplier at different stages of the processing. These notifications are in three general categories:

- Technical Exception
- Business Exception
- Business Acceptance

2.3.1 TECHNICAL EXCEPTIONS

The diagram below illustrates the steps in which technical exception notifications will be returned. This notification will be sent as a PIDX-Invoice Response Version 1.01

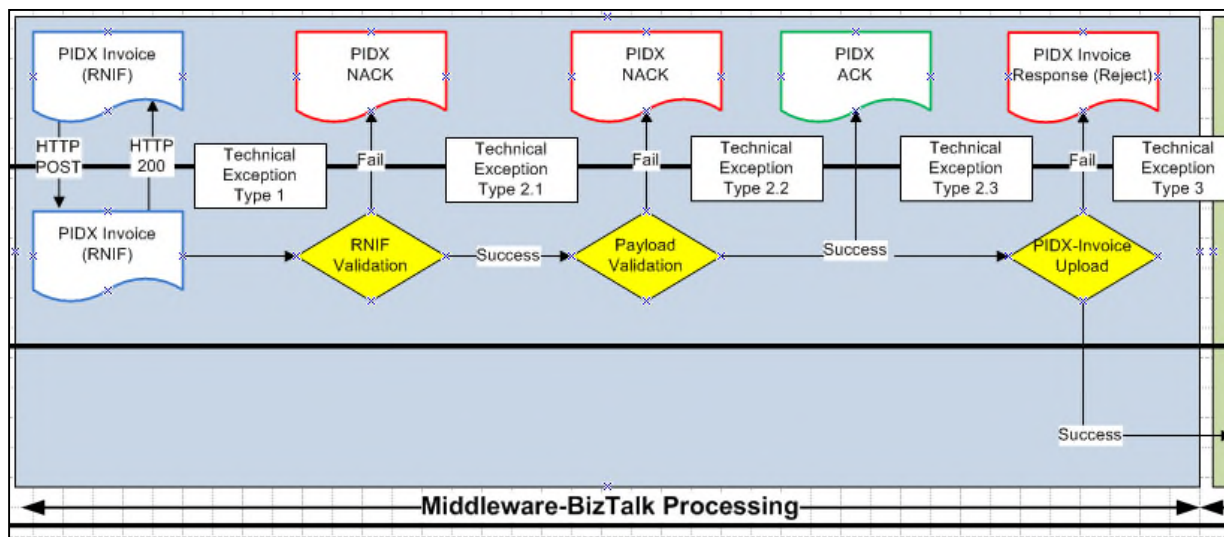



Figure 3 Technical Exception Messaging

1. Technical exception message related to HTTP / HTTPS message exchange between the Supplier and CRC associated to transport and transport level security.
2. Technical exception message related to RNIF protocol. RNIF signal messages are embedded in the RNIF signal multi-part MIME message. RNIF NACK Signal can be sent for two reasons. The first is related to the *RNIF Multi-Part MIME Message* and the second is related to the validation failure of the service content (PIDX-Invoice Payload)
 - RNIF-NACK Signal – related to sections in the *RNIF Multi-Part MIME Message*
 - RN-Preamble
 - RN-Delivery-Header
 - RN-Service-Header
 - RNIF-NACK Signal – related to the PIDX XSD schema validation error of the PIDX-Invoice in RN-Service-Content section of the RNIF Multi-Part MIME Message. This error will only occur if the supplier failed to validate their invoice against the schema prior to submitting to CRC. Suppliers are required to validate their PIDX-Invoice against the published PIDX-Invoice 1.01 + New Tags XSD Schema.
 - RNIF ACK – Signal
3. All Other Technical Exceptions

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This notification will be sent as a PIDX-InvoiceResponse Version 1.01 compliant with the PIDX XSD Schema. Any technical issues uploading the supplier’s charges into the CRC application server (Oracle) will be communicated through this category of notification.

For example a “pidx:Invoice/pidx:InvoiceProperties/pidx:Comment” field exceeds 200 characters may be valid content but CRC internal system has a limit of 200 characters for this field.

2.3.1.1 TECHNICAL EXCEPTIONS SAMPLE MESSAGING

- Transport Level Communication Issues related to HTTP/HTTPS and Certificates:



- RNIF NACK Signal – Invalid Service Content (PIDX – Invoice) Validation failure:




- RNIF ACK Signal – RNIF Standard Signal for Acknowledgement:



- All Other Technical Issues (PIDX – Invoice Response):



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2.3.2 BUSINESS STATUS NOTIFICATIONS

Invoice Response Status Code	Description
Reject: IT-Exception, Failed to upload Invoice	Any IT / Middleware Related Exception in uploading Invoice
Reject: Business-Exception, Missing Required Data Content	Examples are PO Number, Contract Number (CRC GBPA Number) etc.
Reject: Business-Exception, Disputed Data Content	Examples are Item reported in the Supply Charges was not found in the CRC GBPA contract, price mismatch for an item etc
AP Action Required	Status Change: Invoice Status Updated
AP Action Required- Price on Demand	Status Change: Invoice Status Updated
Functional Approval Required	Status Change: Invoice Status Updated
CRC Rep Review	Status Change: Invoice Status Updated
Rate Check Hold	Status Change: Invoice Status Updated
BPA Action Required	Status Change: Invoice Status Updated
SC Price On Demand	Status Change: Invoice Status Updated
Unsupported Line approval Required	Status Change: Invoice Status Updated
Non Rate Check Line Approval Required	Status Change: Invoice Status Updated
AP Action Required – B2B	Status Change: Invoice Status Updated
Accept: Business-Acceptance, Invoice Accept	CRC has approved / accepted the Invoice

CRC – Response	PIDX- Invoice Response Mapping
Invoice Response Status Code	pidx:InvoiceResponse/pidx:InvoiceResponseProperties/pidx:SpecialInstructions/@instructionIndicator="Other"
Response Details	pidx:InvoiceResponse/pidx:InvoiceResponseProperties/pidx:Comment
Contact Name	pidx: InvoiceResponse/pidx: InvoiceResponseProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Payer" pidx: InvoiceResponse/pidx: InvoiceResponseProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="OrderContact" pidx: InvoiceResponse/pidx: InvoiceResponseProperties/pidx:PartnerInformation/pidx:ContactInformation/pidx:ContactName
Contact E-Mail	pidx: InvoiceResponse/pidx: InvoiceResponseProperties/pidx:PartnerInformation/@partnerRoleIndicator = "Payer" pidx: InvoiceResponse/pidx: InvoiceResponseProperties/pidx:PartnerInformation/pidx:ContactInformation/@contactInformationIndicator="OrderContract" pidx: InvoiceResponse/pidx: InvoiceResponseProperties/pidx:PartnerInformation/pidx:ContactInformation/pidx:EmailAddress



2.3.3 BUSINESS EXCEPTIONS

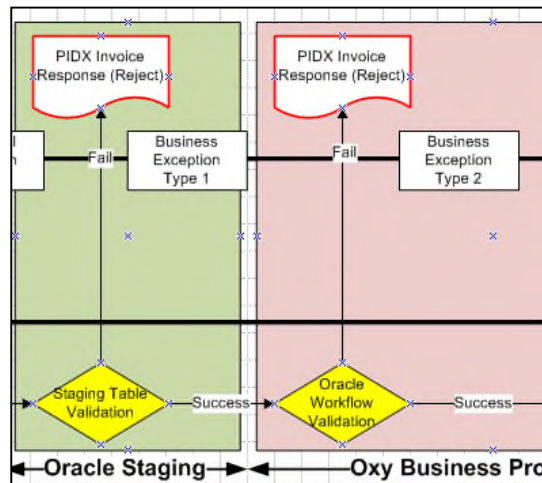


Figure 4 Business Exception Messaging

2.3.3.1 BUSINESS DATA VALIDATION

This notification will be sent as a PIDX-InvoiceResponse Version 1.01

1. Missing Required Data: Any business related data missing in the Supplier Charges will be reported under this category. Examples are *missing* PO_NUMBER: Global Blanket Purchase Agreement (GPBA) Number, INVOICE_NUMBER: Supplier Invoice Number.
Or,
Disputed Data Content: Any business related disputed data will be reported under this category. For example, invalid value for PO_NUMBER: Global Blanket Purchase Agreement (GPBA) Number.
2. Oracle Workflow Validation: Rejected Supplier Charge

2.3.3.2 BUSINESS EXCEPTION – SAMPLE MESSAGING

- Business Exception – Missing Required Data Content (PIDX-Invoice Response)



PIDX-InvoiceResponse_Reject_Business-E

- Business Exception – Disputed Data Content (PIDX-Invoice Response)



PIDX-InvoiceResponse_Reject_Business-E



2.3.4 BUSINESS ACCEPTANCE

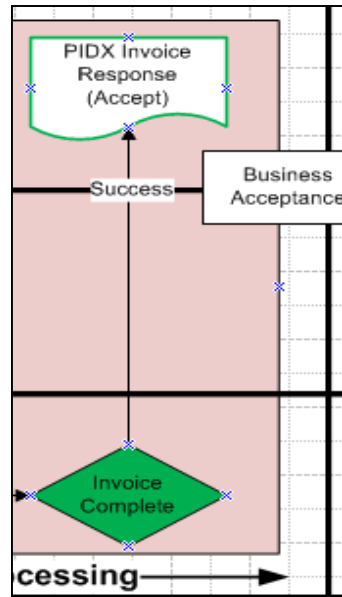


Figure 5 Business Acceptance Messaging

2.3.4.1 BUSINESS DATA VALIDATION

This notification will be sent as a PIDX-InvoiceResponse Version 1.01

Invoice Accept: This indicates that the Supplier Charge has been accepted by CRC and CRC has completed the Invoice Processing.

2.3.4.2 BUSINESS ACCEPTANCE – SAMPLE MESSAGING

- Business Acceptance – CRC Accepts the Invoice (PIDX – Invoice Response)



PIDX-InvoiceResponse_Accept_InvoiceAccept.xml

2.3.4.3 INVOICE STATUS UPDATE – SAMPLE MESSAGING

- Rate Check Hold



PIDX-InvoiceResponse_7746957_ca0bda9e-85ed-4085-9839-8217a9f4fd9b.xml

3 AP LOCATIONS AND UNIT OF MEASURE VALUE SETS



3.2.1 AP LOCATIONS

AP_LOCATION	AP_LOCATION_DESCRIPTION	BU_CODE	BUSINESS_UNIT_DESCRIPTION
CHODRIL	CHODRIL	CHO	CALIFORNIA HEAVY OIL , INC.
CHOMAIN	CHOMAIN	CHO	CALIFORNIA HEAVY OIL , INC.
CHOTSPO	CHOTSPO	CHO	CALIFORNIA HEAVY OIL , INC.
ELKPOWER	ELKPOWER	EHP	ELK HILLS POWER, LLC
ELKHPSPO	ELKHPSPO	EHP	ELK HILLS POWER, LLC
ELKDRIL	ELKDRIL	ELJ	CALIFORNIA RESOURCES ELK HILLS, LLC
ELKHSP0	ELKHSP0	ELJ	CALIFORNIA RESOURCES ELK HILLS, LLC
ELKMAIN	ELKMAIN	ELJ	CALIFORNIA RESOURCES ELK HILLS, LLC
LABASIN	LABASIN	OLA	LA BASIN
LBCHSPO	LBCHSPO	OLA	CALIFORNIA RESOURCES LONG BEACH, INC
LBTHUMS	LBTHUMS	OLA	CALIFORNIA RESOURCES LONG BEACH, INC
LBTIDEL	LBTIDEL	OLA	CALIFORNIA RESOURCES TIDELANDS, INC
LBTDSPO	LBTDSPO	TDL	CALIFORNIA RESOURCES TIDELANDS, INC
VINDRIL	VINDRIL	VPN	CALIFORNIA RESOURCES PRODUCTION CORP.
VINMAIN	VINMAIN	VPN	CALIFORNIA RESOURCES PRODUCTION CORP.
VINTSPO	VINTSPO	VPN	CALIFORNIA RESOURCES PRODUCTION CORP.



3.2.2 UNIT OF MEASURE

UOM CODE	Name / Description	UOM CODE	Name / Description
18	55 GAL DRUM	1J	TON MILE (TNM)
BAG	BAG	1X	QUARTER MILE
BBL	BARREL	2H	SERVICE /2 HOURS
BDL	BUNDLE	2HR	SERVICE /2 HOURS
BLK	BULK	2N	DECIBELS
BOX	BOX	2Z	MILLIVOLTS
DAY	DAY	3C	MANMONTH
DRM	DRUM	4H	SERVICE /4 HOURS
DY	DAYS	4HR	SERVICE /4 HOURS
EA	EACH	4I	METERS PER SECOND
FT	FOOT	4L	MEGABYTE
GAL	GALLON (US)	5B	BATCH
HRS	HOURLY	5G	PUMP
IN	INCH	5H	STAGE
JOB	JOB	5HR	SERVICE / 5 HOURS
JT	JOINT	5I	STANDARD CUBIC FEET
LB	POUND	5J	HHP - HYDRAULIC HORSE POWER
MI	MILE	5P	Level
MON	MONTH	5Q	SEISMIC LINE
MTH	MONTHLY	6H	SERVICE /6 HOURS
UNT	UNIT	6HR	SERVICE /6 HOURS
USD	US DOLLAR	8H	SERVICE /8 HOURS
12	TWELVE PACK	8HR	SERVICE /8 HOURS
14	SHOT OR SH	A9	DOLLARS PER HOURS
16	115 KILOGRAM DRUM	AA	BALL
23	QUARTER MILE	AC	ACRE
28	QUARTER MILE	ACR	ACRE
59	KILOLITER PER HOUR	AM	SAMPLE
68	SEISMIC LINE	AMP	AMPERE
70	SEISMIC LINE	ANN	YEAR
82	SEISMIC LINE	ARS	ARGENTINE PESO
84	SEISMIC LINE	AS	ASSORTMENT OR ASY
85	SEISMIC LINE	ASY	ASSEMBLY
86	SEISMIC LINE	AT	ATMOSPHERE
89	POISE	AZ	BRITISH THERMAL UNIT PER POUND
97	SQUARE KILOMETER	B1	BARREL (US) PER DAY
12H	SERVICE /12 HOURS	B10	BOX OF 10
12HR	SERVICE /12 HOURS	B12	BOX OF 12



UOM CODE	Name / Description	UOM CODE	Name / Description
B2	SACOS	CF	CUBIC FEET
B20	BAR, 20 FOOT	CG	CARD
B25	BAR, 25 FOOT	CGM	CENTIGRAM
B50	BOX OF 50	CH	CONTAINER
BA	BAR ABSOLUTE (PRESSURE)	CI	CUBIC INCHES
BAR	BAR	CIN	CUBIC INCHES
BC	BAG	CL	CYLINDER
BD	BUNDLE	CM	CENTIMETER
BF	BOARD FEET	CMK	SQUARE CENTIMETRE
BFT	BOARD FEET	CMT	CENTIMETRE
BG	BAG	CN	CAN
BH	BATCH	CO	COIL
BI	BAR	COP	COLOMBIAN PESO
BJ	BUCKET	CP	CRATE
BK	BASKET	CQ	CARTRIDGE
BL	BLOCK	CR	CUBIC METER
BLE	BALE	CS	CASE
BLL	BARREL	CSE	CASE
BO	BOTTLE	CT	CARTON
BOB	BOLIVIANO MVDOL	CTN	CARTON
BOE	BOE	CTW	HUNDREDWEIGHT (LONG)
BR	BARREL	CU	CUP
BT	BOTTLES	CUR	CURRENCY
BTL	BOTTLE	CW	HUNDREDWEIGHT
BTU	BRITISH THERMAL UNIT	CWA	HUNDRED WEIGHT (US)
BU	BUSHEL	CWI	HUNDRED WEIGHT (UK)
BWK	BI-WEEKLY	CWT	HUNDRED WT-US
BX	BOX	CY	CUBIC YARD
C47	NANOSECOND	CYC	CYCLE
C7	CENTIPOISE (CPS)	CYL	CYLINDER
C8	CUBIC DECIMETER	D97	PALLET/UNIT LOAD
CA	CASE	DA	DAYS
CAN	CAN	DB	DRY POUND
CB	CARBOY	DC	DECIMETERS
CC	CUBIC CENTIMETER	DD	DEGREE
CD	CYLINDER	DF	DRAM
CE	CENTIGRADE, CELSIUS	DH	MILES
CEL	DEGREE CELSIUS	DI	DISPENSER



UOM CODE	Name / Description	UOM CODE	Name / Description
DL	DECILITER	GLI	GALLON (UK)
DM	DECIMETER	GLL	GALLON (US)
DOZ	DOZEN	GM	GRAMS
DPH	DOLLAR PER HOUR	GP	POTENT GALLONS
DPR	DOZEN PAIR	GR	GRAM
DR	DRUM	GRM	GRAM
DRL	DOUBLE RANDOM LENGTH	GRO	GROSS
DT	DRY TON	GT	GROSS TON
DW	PENNY WEIGHT	GWH	GIGAWATT HOUR
DZ	DOZEN	GX	GRAIN
DZP	TWELVE /DOZEN PACK	GY	GROSS YARD
E2	GALONERAS	H1	HALF HOUR CALCULATIONS
E3	TRAILER	H2	HALF LITRE
E51	JOB	H4	HECTOLITER
E52	RUN FOOT	HA	HECTARE
E53	TEST	HB	HUNDRED BOXES
E54	TRIP	HC	HUNDRED COUNT
E55	USE	HE	HEAD COUNT
E56	WELL	HF	HUNDRED FEET
E57	ZONE	HH	HUNDRED CUBIC FEET
EN	END CONNECTION	HJ	HORSEPOWER
F	FOOT	HL	HECTOLITER
FA	FAHRENHEIT	HLT	HECTOLITRE
FAH	DEGREE FAHRENHEIT	HQ	HOURS PER PERIOD (ZERO \$)
FB	FUEL BOOK, CARNET	HR	HOURS
FC	CUBIC FEET	HS	HUNDRED SQUARE FEET
FF	FEET/INCHES/16TH	HT	HECTARE
FOT	FOOT	HUR	HOURLY
FP	POUND PER SQUARE FOOT	HV	HUNDRED WEIGHT (SHORT)
FR	FEET PER MINUTE	HYR	HALF YEARLY
FTK	SQUARE FOOT	HZ	HERTZ
FTQ	CUBIC FOOT	I1	INT BULK CONTAINER 165 GAL
G1	100 GALLONS	I2	INT BULK CONTAINER 385 GAL
G2	US GALLON PER MINUTE	I3	INT BULK CONTAINER 330 GAL
GA	GALLON	I4	INT BULK CONTAINER 495 GAL
GB	GALLON (US) PER DAY	I5	INT BULK CONTAINER 550 GAL
GE	POUNDS PER GALLON	I6	INT BULK CONTAINER 220 GAL
GL	GALLON	I7	INT BULK CONTAINER 110 GAL



UOM CODE	Name / Description	UOM CODE	Name / Description
I8	INT BULK CONTAINER 450 GAL	KN	KILOGRAMS PER SQUARE METER, KILOGRAMS, DECIMAL
I9	INT BULK CONTAINER 550 GAL	KP	KILOMETERS PER HOUR
IA	INCH POUND (POUND INCH)	KQ	KILOPASCAL
IC	CUBIC INCHES	KT	KIT
IE	PERSON	KTM	KILOMETRE
IG	IMPERIAL GALLONS	KTN	KILOTONNE
INH	INCH	KV	KELVIN
INK	SQUARE INCH	KWH	KILOWATT HOUR
J10	JOINT, PONY, 10FT	KWT	KILOWATT
J25	JOINT,SUCKER ROD,25FT	L	LITER
J30	JOINT,SUCKER ROD,30FT	L3	POUNDS PER SQUARE INCH
J40	JOINT, ROD,POLISH 40FT	LBR	POUND
JA	JOB	LC	CUBIC LITERS
JAR	JAR	LF	LINEAR FOOT
JFG	JOINT FIBER GLASS	LG	LONG TON (2240 LB)
JG	JUG	LH	LABOUR HOUR
JO	JOINT	LO	LOT
JR	JAR	LOT	LOT
JT2	JOINT,PONY,2FT	LP	LIQUID POUND
JT4	JOINT,PONY,4FT	LR	LAYER
JT6	JOINT,PONY,6FT	LRL	LONG RANDOM LENGTH
JT8	JOINT,PONY,8FT	LS	LUMP SUM
JTF	JOINT,FIBERGLASS	LT	LITER
JTS	JOINTS	LTR	LITRE
K6	KILOLITER	LVL	LEVEL
K7	KILOWATT	LYD	LIBYAN DINAR
KBA	KILOBAR	M	METER
KC	KILOGRAMS PER CUBIC METER	M3	CUBIC METERS
KE	KEG	MA	MILLING ARM
KEG	KEG	MBR	MILLIBAR
KG	KILOGRAM	MC	CUBIC METRE
KGM	KILOGRAM	ME	MILLIGRAM
KH	KILOWATT HOUR	MF	THOUSAND FEET
KI	KITS	MG	MILLIGRAMS
KIT	KIT	MH	MAN HOUR
KL	KILOLITER	MIG	MICROGRAM
KM	KILOMETRE	MIK	SQUARE MILE
KMK	SQUARE KILOMETRE	MIN	MINUTE



UOM CODE	Name / Description	UOM CODE	Name / Description
MJ	MINUTES	P20	PUP JOINT, 20 FOOT
MK	MICROGRAMS	P24	PUP JOINT, 24 FOOT
ML	MILLILITER	P25	PUP JOINT, 25 FOOT
MLL	MILLILITRE	P32	PUP JOINT, 32 FOOT
MM	MILLIMETER	PA	PA CONSIGNED
MMB	MILLION BTU	PAD	PAD
MN	MINIMUM	PC	PIECE
MO	MONTHS	PCK	PACK
MOD	MODULE	PD	PAD
MP	METRIC TON	PF	PALLET (LIFT)
MR	METER	PJ2	PUP JOINT, 2 FOOT
MS	THOUSAND SQUARE FEET	PJ3	PUP JOINT, 3 FOOT
MT	METERS	PJ4	PUP JOINT, 4 FOOT
MTK	SQUARE METRE	PJ5	PUP JOINT, 5 FOOT
MTN	METRIC TON	PJ6	PUP JOINT, 6 FOOT
MTQ	CUBIC METRE	PJ8	PUP JOINT, 8 FOOT
MTR	METRE	PJ9	PUP JOINT, 9 FOOT
MW	THOUSAND POUNDS	PJS	PUP JOINT SHORT, 1.5 FOOT
MWH	MEGAWATT HOUR	PK	PACK
NC	CAR	PKT	PACKET
NL	LOAD	PL	PAIL
NN	TRAIN	PL5	PAIL (5-GALLON)
NT	NET TON	PPH	PUMP/HR
NV	VEHICLE	PR	PAIR
NW	NEWTON	PS	POUND-FORCE PER SQUARE INCH
OA	PANEL	PSI	POUND PER SQUARE INCH
OMR	OMANI RIAL	PT	PINT (US)
ONZ	OUNCE	PTL	LIQUID PINT (US)
OP	POTENT OUNCES	PU	TRAY / TRAY PACK
OT	OVERTIME HOUR	QA	PAGE - FACSIMILE
OZ	OUNCE - AV	QAR	QATARI RIYAL
OZA	FLUID OUNCE	QB	PAGE - HARDCOPY
P0	PAGE - ELECTRONIC	QT	QUART (US)
P1	PERCENT	QTR	QUARTERLY
P10	PUP JOINT, 10 FOOT	R1C	R1 CASING JOINT
P12	PUP JOINT, 12 FOOT	R1T	R1 TUBING JOINT
P13	PUP JOINT, 13 FOOT	R2C	R2 CASING JOINTS
P15	PUP JOINT, 15 FOOT	R2T	R2 TUBING JOINT
P18	PUP JOINT, 18 FOOT	R3	REVOLUTIONS PER MINUTE



UOM CODE	Name / Description	UOM CODE	Name / Description
R3C	R3 CASING JOINTS	SMT	SQUARE METRE
R3T	R3 TUBING JOINT	SO	SPOOL
R5	THOUSANDS OF DOLLARS	SP	SPACES
RA	ADDITIONAL DAYS	SRL	SINGLE RANDOM LENGTH
RAT	RATE	ST	SET
RATE	RATE	ST1	SHEET (ST)
RC2	R2 CASING JOINT	ST2	TON(US)/SHORT TON (UK/US)
RC3	R3 CASING JOINT	STG	STAGE
RD	ROD (LENGTH) - 5.5 YARDS	STN	TON (US) OR SHORT TON (UK/US)
RE	REEL	SV	SERVICE
REL	REEL	SX	SACK
RF	FISHING RATE	SY	SQUARE YARD
RK	RACK	SYD	SQUARE YARD
RL	ROLL	T1	THOUSAND POUND GROSS
RLP	RANDOM LENGTH PIPE	T3	THOUSAND PIECES
RM	REAM	TAB	TABLET
RR	RENTAL RATE 5 DAY	TB	TUBE
RS	RESET	TC	TRUCKLOAD
RT	\$1000S OF SALARY	TE	TOTE
RU	RUN	TH	THOUSAND
RW	WIS RATE	TK	TANK, RECTANGULAR
S2	TRIMESTER	TL	THOUSAND FEET
S4	SQUARE METERS PER SECOND	TM	METRIC TON
SA	SACK	TN	TIN
SB	SQUARE MILE	TNE	TONNE (METRIC TON)
SC	SQUARE CENTIMETER	TNM	TON MILE
SE	SET	TON	TON
SEC	SECOND	TQ	THOUSAND FEET
SET	SET	TRL	TRIPLE RANDOM LENGTH
SF	SQUARE FOOT	TRP	TRIP
SFT	SQUARE FOOT	TS	SHORT TON (U.S.)
SH	SHEET	TT	TOTE
SHT	SHEET	TY	TANK, CYLINDRICAL
SI	SQUARE INCH	UN	UNITS
SJ	SACK	VLT	VOLT
SK	SPLIT TANKTRUCK	VQ	BULK
SL	SLEEVE	WA	WASHPIPE
SM	SQUARE METER	WEE	WEEK
SMI	MILE (STATUTE MILE)	WHR	WATT HOUR



UOM CODE	Name / Description
WK	WEEK
WKS	WEEKS
WM	WORKING MONTH
WP	PENNY WEIGHT
WU	WELD UNITS
XL	EXCESS LIFE
XO2	XOVER JOINT, 2 FOOT
Y	TEMPORARY
YD	YARD
YDK	SQUARE YARD
YDQ	CUBIC YARD
YER	YEMENI RIYAL
YR	YEARS
YRD	YARD
YRS	YEARS
Z	SET (3-PW)
ZP	PAGE

3.2.3 PIDX TAX CODES

PIDX Tax Code	Business Meaning
CitySalesTax	Sales Tax
CountyParishSalesTax	Sales Tax
CountyTax	Sales Tax
FederalExciseTax	Other Tax
GoodsAndServicesTax	Sales Tax(Int'l)
GrossReceiptsTax	Sales Tax
LocalTax	Sales Tax
MetropolitanTransitTax	Sales Tax
StateAndLocalSalesTax	Sales Tax
StateProvincialTax	Sales Tax(Int'l)
StateSalesTax	Sales Tax
ValueAddedTax	Sales Tax(Int'l)
WellServiceTax	Other Tax
Other	Other Tax