



**Open Invoice XML API
Implementation Guide
Version 2.00**

Revised: 02/21/2017

YRC Freight Inc.
Invoice XML API
Implementation Guide

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Section 1 - Narrative

The Open Invoice XML API is a means by which an external customer can receive open invoice summary or invoice detail information via an XML document. The summary and detail will return a maximum of 1500 invoices.

A my.yrcfreight.com account is required in order to use the API and the locations attached to the account will be used to retrieve the invoice data. You can include or exclude locations by using the my.yrc.com Customer Locations application. This can be accessed from the Your Tools menu.

1. You must email Invoicing@yrcfreight.com to request to have invoices turned off

Note: Balance Dues are included in the XML results when the dateType=INV and the invoice date falls within the requested date range *(added 8/22/13)*

Note: Supporting documents (BOL, POD, W&I) are available from the Document API. To receive the API implementation guide please register at <http://yrc.com/api/>

The API will accept a date range or a single reference number and reference number type.

Customers may use this application by posting a query to the following URL's:

TEST:

<https://mytest.yrc.com/myyrc-api/national/servlet?CONTROLLER=com.rdw.y.ec.rexinvoice.http.controller.InvoiceXMLAPIController>

PRODUCTION:

<https://my.yrc.com/myyrc-api/national/servlet?CONTROLLER=com.rdw.y.ec.rexinvoice.http.controller.InvoiceXMLAPIController>

If valid, YRC Freight's host server will reply with a XML document containing pertinent invoice information.

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Section 2 - Input Parameters

The following parameters may be included in posts to YRC Freight's Invoice XML API application. The parameters are case sensitive.

Required Fields for **Reference Number search**: LOGIN_USERID, LOGIN_PASSWORD, invType, refNumber, and refNumberType.

Required Fields for **Date Range search**: LOGIN_USERID, LOGIN_PASSWORD, invType, fromDate, toDate, and dateType.

Field Name	Description																				
LOGIN_USERID	Your my.yrcfreight.com user name.																				
LOGIN_PASSWORD	Your my.yrcfreight.com password.																				
invType	<p>The type of invoice information that will be returned, see section 3 and 4 below. Valid values are:</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DTL</td> <td>Detail information</td> </tr> <tr> <td>SUM</td> <td>Summary information</td> </tr> </tbody> </table>	Value	Description	DTL	Detail information	SUM	Summary information														
Value	Description																				
DTL	Detail information																				
SUM	Summary information																				
refNumber	Reference number – if searching by PRO Number, enter it without any spaces or hypens																				
refNumberType	<p>The reference number type. Required if you provide a refNumber. Valid values are:</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>CN</td> <td>PRO Number</td> </tr> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> <tr> <td>BN</td> <td>Booking Number</td> </tr> <tr> <td>CA</td> <td>Carton Number</td> </tr> <tr> <td>CT</td> <td>Contract Number</td> </tr> <tr> <td>CS</td> <td>Customer Number</td> </tr> <tr> <td>CO</td> <td>Customer Order Number</td> </tr> <tr> <td>DJ</td> <td>Delivery Number</td> </tr> <tr> <td>FA</td> <td>Factura Number</td> </tr> </tbody> </table>	Value	Description	CN	PRO Number	BM	Bill of Lading Number	BN	Booking Number	CA	Carton Number	CT	Contract Number	CS	Customer Number	CO	Customer Order Number	DJ	Delivery Number	FA	Factura Number
Value	Description																				
CN	PRO Number																				
BM	Bill of Lading Number																				
BN	Booking Number																				
CA	Carton Number																				
CT	Contract Number																				
CS	Customer Number																				
CO	Customer Order Number																				
DJ	Delivery Number																				
FA	Factura Number																				

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Field Name	Description									
	RN	General Reference Number								
	LO	Loading Number								
	MA	Manifest Number								
	PN	Pedimento Number								
	PD	Promotional Deal								
	PO	Purchase Order Number								
	E	Requested Arrival Date								
	QJ	Return Authorization								
	SN	Seal Number								
	IK	Seller's Invoice Number								
	TG	Transportation Control Number								
fromDate	Start date (MM-dd-yyyy format).									
toDate	End date (MM-dd-yyyy format).									
dateType	Type of date to search by, required if fromDate and toDate are provided. Valid values are: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="text-align: left;">Value</th> <th style="text-align: left;">Description</th> </tr> </thead> <tbody> <tr> <td>INV</td> <td>Invoice Date</td> </tr> <tr> <td>DUE</td> <td>Due Date</td> </tr> <tr> <td>PICKUP</td> <td>Pickup Date</td> </tr> </tbody> </table>		Value	Description	INV	Invoice Date	DUE	Due Date	PICKUP	Pickup Date
Value	Description									
INV	Invoice Date									
DUE	Due Date									
PICKUP	Pickup Date									

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Section 3 – XML Example – Invoice SUMMARY

Below is a sample XML for the Invoice Summary option, see section 5 for definitions of the elements and attributes.

```
<InvoiceResponseMessage>
  <Invoice>
    <Pro>162854998X</Pro>
    <Direction>Inbound</Direction>
    <Terms>COLLECT</Terms>
    <GrandTotals>
      <TTLPieces>2</TTLPieces>
      <TTLWgt>265</TTLWgt>
      <TTLCharges>3921.04</TTLCharges>
      <TTLDiscout>0.00</TTLDiscout>
      <TTLAmtDue>69.96</TTLAmtDue>
    </GrandTotals>
    <Dates>
      <Invoice>20100402</Invoice>
      <ProjectedInvoice></ProjectedInvoice>
      <Pickup>20100224</Pickup>
      <Due>20100328</Due>
    </Dates>
    <RefNbr>
      <Type>BM</Type>
      <Number>438162</Number>
      <HandlingUnits>123</HandlingUnits>
      <Weight>AA</Weight>
      <Dept>54</Dept>
      <Store>98</Store>
    </RefNbr>
    <RefNbr>
      <Type>PO</Type>
      <Number>OP10404399</Number>
      <HandlingUnits>123</HandlingUnits>
      <Weight>AA</Weight>
      <Dept>54</Dept>
      <Store>98</Store>
    </RefNbr>
  </Invoice>
</InvoiceResponseMessage>
```

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Section 4 – XML Example – Invoice DETAIL

Below is a sample XML for the Invoice Detail option, see section 5 for definitions of the elements and attributes.

```
<InvoiceResponseMessage>
  <Invoice>
    <Pro>162854998X</Pro>
    <Direction>Inbound</Direction>
    <Terms>COLLECT</Terms>
    <GrandTotals>
      <TTLPieces>2</TTLPieces>
      <TTLWgt>265</TTLWgt>
      <TTLCharges>3921.04</TTLCharges>
      <TTLDiscount>0.00</TTLDiscount>
      <TTLAmtDue>69.96</TTLAmtDue>
    </GrandTotals>
    <Dates>
      <Invoice>20100402</Invoice>
      <ProjectedInvoice></ProjectedInvoice>
      <Pickup>20100224</Pickup>
      <Due>20100328</Due>
    </Dates>
    <Tariff>
      <Tariff1>RDWY.831A..411</Tariff1>
      <Tariff2/>
      <Tariff3/>
      <Verbiage>***ORIGIN OR DESTINATION IS A NON DIRECT
POINT PER TARIFF 111***</Verbiage>
    </Tariff>
    <QuoteID/>
    <AmtDue Currency="USD">69.96</AmtDue>
    <AmtDue2 Currency2=""/>
    <Entity Role="MAIL">
      <Name>FREIGHT PAYMENT</Name>
      <Attn>JOE</Attn>
      <Address>P O BOX 1111</Address>
      <City>MINNEAPOLIS</City>
      <State>MN</State>
      <Zip>55440</Zip>
    </Entity>
    <Entity Role="SHIP">
      <StoreID/>
      <Name>THE SHIPPER</Name>
      <Attn/>
      <Address>1936 SOME RD</Address>
      <City>COLONIAL HTS</City>
      <State>VA</State>
      <Zip>23834</Zip>
    </Entity>
    <Entity Role="CONS">
      <StoreID>0928</StoreID>
      <Name>THE CONSIGNEE</Name>
      <Attn/>
      <Address>111 TEST AVE</Address>
      <City>NILES</City>
      <State>IL</State>
    </Entity>
  </Invoice>
</InvoiceResponseMessage>
```

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```
<Zip>60714</Zip>
</Entity>
<Entity Role="TPTY">
  <StoreID/>
  <Name/>
  <Attn/>
  <Address/>
  <City/>
  <State/>
  <Zip/>
</Entity>
<Entity Role="REMIT">
  <Name>YRC</Name>
  <Attn/>
  <Address>P.O. BOX 93151</Address>
  <City>CHICAGO IL 60673-3151</City>
  <State/>
  <Zip/>
</Entity>
<Comments Arrow="FALSE" Title="COMMENTS"> GENERAL
CORRECTION      ISS: 02-26 AUTH: TO SHOW CORR PCS DID
READ PCS: 1 WT: 265 CHGS: 6996</Comments>
<RefNbr>
  <Type>BM</Type>
  <Number>438162</Number>
  <HandlingUnits>123</HandlingUnits>
  <Weight>AA</Weight>
  <Dept>54</Dept>
  <Store>98</Store>
</RefNbr>
<RefNbr>
  <Type>PO</Type>
  <Number>OP10404399</Number>
  <HandlingUnits>123</HandlingUnits>
  <Weight>AA</Weight>
  <Dept>54</Dept>
  <Store>98</Store>
</RefNbr>
<SLI>
  <PCS>1</PCS>
  <PKGS>CRT</PKGS>
  <HM>X</HM>
  <Description>END PANEL</Description>
  <NMFC/>
  <Code>C100</Code>
  <Wgt>210</Wgt>
  <Rate>MIN</Rate>
  <Amt>66.00</Amt>
</SLI>
<SLI>
  <PCS>1</PCS>
  <PKGS>BOX</PKGS>
  <HM/>
  <Description>END KIT</Description>
  <NMFC/>
  <Code>C100</Code>
  <Wgt>55</Wgt>
  <Rate/>
  <Amt/>
</SLI>
```


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```
<Seal/>  
</Invoice>  
</InvoiceResponseMessage>
```

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Section 5 - XML Elements & Attributes

Element Name	Attribute	Description
<InvoiceResponseMessage>		Container
<Invoice>		Contains the elements of an invoice. Repeats a max of 250 for summary and 200 for detail.
<Pro>		Shipment PRO Number
<Direction>		Shipment Direction. Values are: <ul style="list-style-type: none"> • Inbound • Outbound • ThirdParty
<Terms>		Shipment terms. Values are: <ul style="list-style-type: none"> • PREPAID • COLLECT
<GrandTotals>		Contains the child elements of the invoice totals
<TTLPieces>		Total shipment pieces.
<TTLWgt>		Total shipment weight.
<TTLCharges>		Total shipment charges before any adjustments.
<TTLDiscount>		Total discount.
<TTLAmtDue>		Total amount due.
<Dates>		Contains the child elements of the invoice dates.
<Invoice>		Invoice Date. (yyyyMMdd format)
<ProjectedInvoice>		Projected Invoice Date. If the invoice has not been created yet, this element will contain the projected date. (yyyyMMdd format)
<Pickup>		Pickup Date. (yyyyMMdd format)
<Due>		Invoice Due by Date. (yyyyMMdd format)

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<Tariff>		Contains the child elements for any tariffs that applied to the invoice.
<Tariff1>		Tariff item 1.
<Tariff2>		Tariff item 2.
<Tariff3>		Tariff item 3.
<Verbiage>		Tariff verbiage.
<QuoteID>		Quote ID.
<AmtDue>	Currency	Total Amount due. Used for split currency shipments with AmtDue2. Currency will be either USD (US Dollar) or CAD (Canadian Dollar). If this is not a split currency shipment, the AmtDue value will match the TTLAmtDue element.
<AmtDue2>	Currency	Total Amount due. Used for split currency shipments with AmtDue. Currency will be either USD (US Dollar) or CAD (Canadian Dollar).
<Entity>		This parent element includes child elements that describe the invoice addresses and roles. Up to five addresses may be returned.
	Role	Describes the role of the entity. Values are: <ul style="list-style-type: none"> • MAIL – the invoice mail to address • SHIP – shipper address • CONS – consignee address • TPTY – third party address • REMIT – remit to address
<StoreID>		Store number
<Name>		Name
<Attn>		Attention
<Address>		Address
<City>		City
<State>		State
<Zip>		Zip
<Comments>		General invoice comments.

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<RefNbr>		This parent element includes the child elements that describe each Reference Number.
<Type>		Reference number type
<Number>		Reference Number
<HandlingUnits>		Reference Number Count
<Weight>		Reference Number Weight
<Dept>		Reference Number Department
<Store>		Reference Number Store
<SLI>		Shipment Line Item. This parent element includes child elements that describe each invoice line item.
<PCS>		Line Item pieces
<PKGS>		Line item package type
<HM>		Hazardous materials indicator. "X" value indicates a hazardous item.
<Description>		Total amount due
<NMFC>		National Motor Freight Classification
<Code>		Class code
<Wgt>		Line item weight
<Rate>		Line item rate
<Amt>		Line item dollar amount, negative amounts (for discounts) are shown with a minus sign after the amount, e.g. 120.11-
<Seal>		Internal use only

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Section 6 – Error Handling

Errors will be returned in repeating `<acknowledgementData>` nodes. If you receive an acknowledgementData node, you will not receive any Invoice nodes. See example below.

```
<InvoiceResponseMessage>
  <acknowledgementData>
    <fieldOffset>1</fieldOffset>
    <fieldDescription>Too many invoices found. Please narrow
search.</fieldDescription>
    <fieldValue/>
    <fieldError>0220</fieldError>
  </acknowledgementData>
</InvoiceResponseMessage>
```

Element Name	Attribute	Description
<code><InvoiceResponseMessage></code>		Container
<code>< acknowledgementData ></code>		Contains the elements of an error.
<code><fieldOffset></code>		Not used
<code>< fieldDescription ></code>		Error Message
<code>< fieldValue ></code>		Error value
<code>< fieldError ></code>		Error code (see section 7)

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Section 7 – Error Codes

Error Code	Message
0160	Invalid date range
0200	No active locations attached to account
0220	Too many invoices found. Please narrow search
0225	Too many invoices found (XML doc too large)
0230	No invoices found for provided search criteria
0165	Required parameter refNumberType not found
0170	Invalid value for refNumberType
0010	Required parameter invType not found
0020	Invalid value for invType
0030	You must enter either a date range or a reference number
0140	Invalid value for fromDate
0150	Invalid value for toDate
0161	Required parameter toDate not found
0162	Required parameter fromDate not found
0125	Required parameter dateType not found
0130	Invalid value for dateType
0163	toDate cannot be before fromDate

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Section 8 – Invoice PDF

You can also stream the actual Invoice PDF by using the following API. Only open invoices are available.

TEST:

<https://mytest.yrc.com/myyrc-api/national/servlet?CONTROLLER=com.rdw.ec.rexinvoice.http.controller.InvoiceApiController>

PRODUCTION:

<https://my.yrc.com/myyrc-api/national/servlet?CONTROLLER=com.rdw.ec.rexinvoice.http.controller.InvoiceApiController>

INPUT PARAMETERS:

Field Name	Description
LOGIN_USERID	Your my.yrcfreight.com user name.
LOGIN_PASSWORD	Your my.yrcfreight.com password.
PRINTPDF	The 10 character PRO Number. No spaces or hyphens.