

Infor XA REST API

2026

Agenda

1. History lesson & background information
2. Infor XA REST API product
3. How to build a XA REST API
4. How to use the XA REST API
5. What XA REST API can do for you
6. Demo – Add a new Business Object to my existing API

Why REST APIs



1990s

No standards

APIs were rigid – defined by DTD

System-Link was innovative

- Scripting (flexible)
- Add attributes, same DTD
- Leverage IDF



2020s

Open standard (OpenAPI)

Newer technology (JSON vs XML)

Adoption is effectively universal

- Used by software companies worldwide
- Taught in higher education

JSON

- Simpler Syntax & readability
- Faster performance & lighter weight
- Native compatibility with modern tech stacks
 - Data maps directly to an object model

XML

```
<empinfo>
  <employees>
    <employee>
      <name>James Kirk</name>
      <age>40</age>
    </employee>
    <employee>
      <name>Jean-Luc Picard</name>
      <age>45</age>
    </employee>
    <employee>
      <name>Wesley Crusher</name>
      <age>27</age>
    </employee>
  </employees>
</empinfo>
```

JSON

```
{ "empinfo" :
  {
    "employees" : [
      {
        "name" : "James Kirk",
        "age" : 40,
      },
      {
        "name" : "Jean-Luc Picard",
        "age" : 45,
      },
      {
        "name" : "Wesley Crusher",
        "age" : 27,
      }
    ]
  }
}
```

```
> empinfo
< {employees: Array(3)} ⓘ
  ▼ employees: Array(3)
    ▶ 0: {name: 'James Kirk', age: 40}
    ▶ 1: {name: 'Jean-Luc Picard', age: 45}
    ▶ 2: {name: 'Wesley Crusher', age: 27}
    length: 3
    ▶ [[Prototype]]: Array(0)
  ▶ [[Prototype]]: Object
>
```

What APIs does Infor provide?

This is often the first question.

Our approach: an API designer

Develop your own *custom* APIs.

- Easy to develop the APIs. We'll show you.
- A custom API is easier for the consumer to use than one do-everything API.
- A custom API is easier for you to fix and enhance with no unnecessary functions in the way.



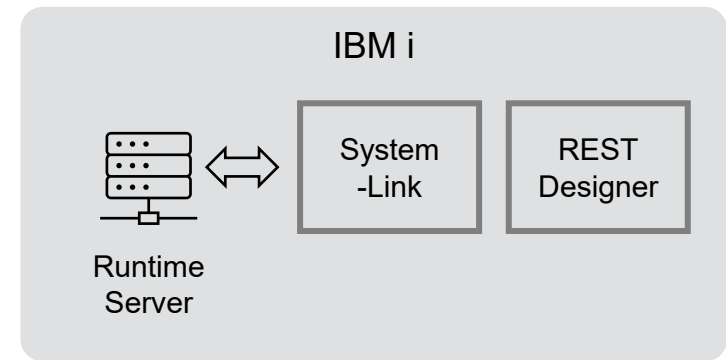
REST Designer & Runtime Server

REST Designer

- Build REST APIs quickly
- Expose only selected objects, actions and data
- Leverage IDF features (sorts, subsets, Integrator...)

Runtime Server

- Runs on IBM i, similar to Net-Link and System-Link
- Goes through System-Link to enforce ERP security, validation and audits
- Receives REST request, sends JSON response
- Handles public/private URL



ERP as a REST server

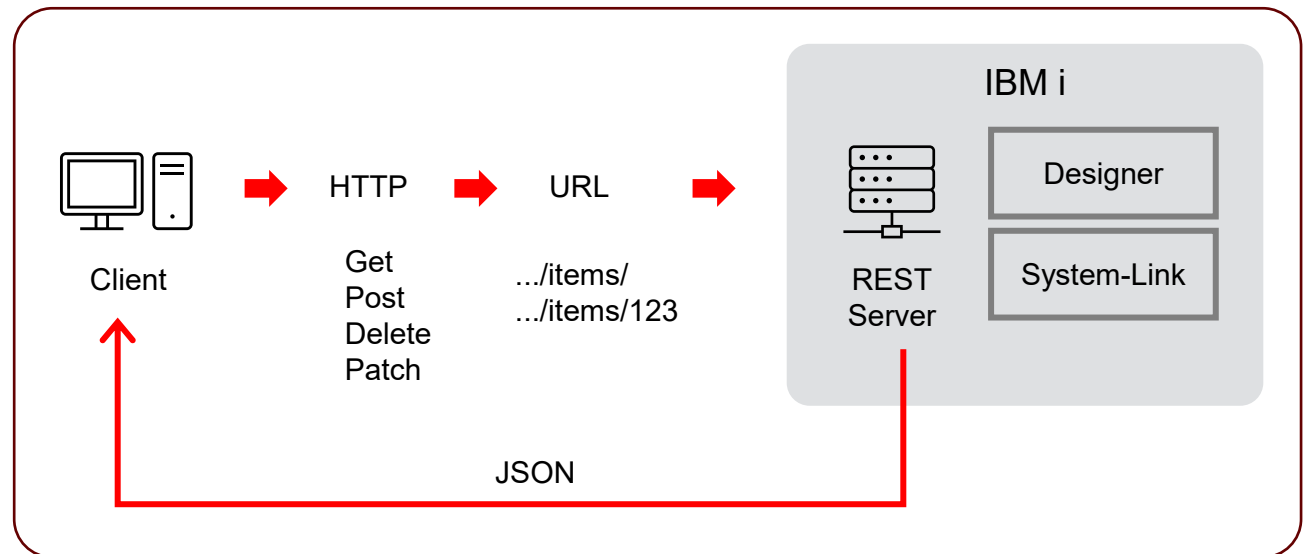
Client is other system

- Internal
- External

Sends REST request.

Server is part of ERP

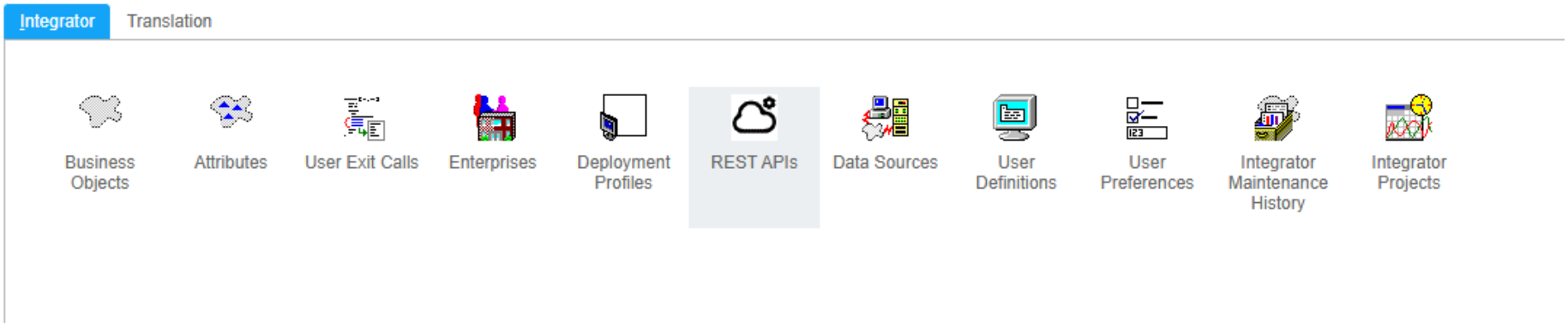
- Receives REST request
- Responds with JSON
- Handles REST errors



Conceptual representation

Infor REST API

- Will be able to be installed on XA Release 10 or higher.
 - Curl (Open Source-ACS)
 - NGINX (Open Source-ACS)
 - 2 XA PTFs
- Only accessible via Net-Link
- To build an API, object must be in Integrator




Creating a REST API


- Create a new API for a specific use case.
 - Smaller APIs are easier to maintain
 - Only provide access to what is needed.

REST APIs

Home | File | Display | Maintain | Customize | Navigation | Help | General | (all records) | Search | Print | Add | Edit | Delete

API title	API name	API version	Deployed (release)	Owner	Modified	Pending
Purchasing	purchasing	1.0.0		User	Yes	Yes

 Create REST API

Template: 

API title:

API name:

API version:

Return here to create another

Preview before create

Creating a REST API

- Edit API attributes and provide URL overrides
- Provide API Description for user of API
- Add available Business Objects to the API
- <https://XaHostName/infor-idf/XA/T3/rest-api/api/purchasing/1.0.0/...>

Purchasing

Update Cancel File Display Maintain Customize Navigation Help Default

API title: Purchasing
API name: purchasing
API version: 1.0.0

API server base URL (default): [redacted]infor-idf/XA/T3/rest-api
API server base URL (override): [text input]
Maximum idle duration (minutes): 0

Owner: User
Modified: Yes
Pending change: Yes
Created by: Kerry Shupert 05/18/2026 4:01:32 PM
Changed by: Kerry Shupert 06/18/2026 12:15:01 PM
System defined: User

Notes

API Description Internal

API for Purchase Orders & Purchase Order detail information.

Business Objects API Overview

Selected

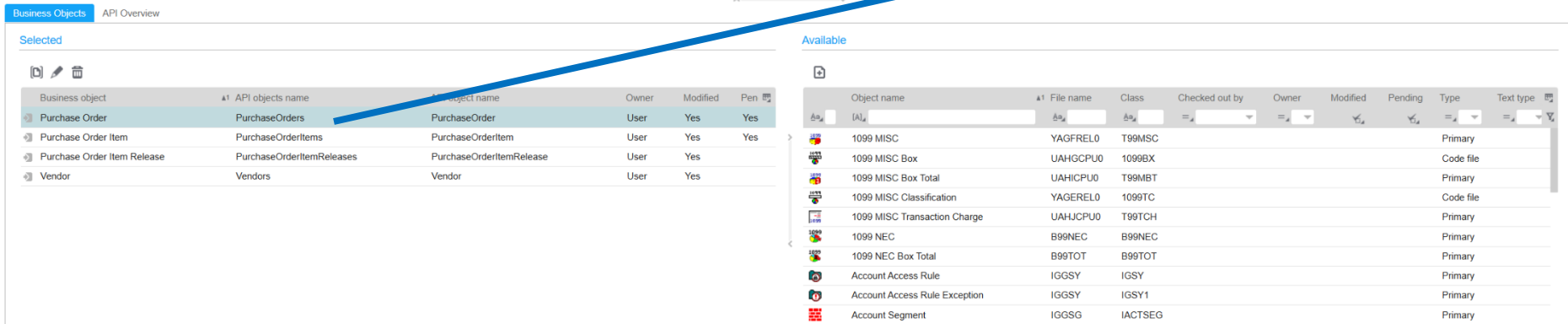
Business object	API object name	API object name	Owner	Modified	Pen
Purchase Order	PurchaseOrders	PurchaseOrder	User	Yes	Yes
Purchase Order Item	PurchaseOrderItems	PurchaseOrderItem	User	Yes	Yes
Purchase Order Item Release	PurchaseOrderItemReleases	PurchaseOrderItemRelease	User	Yes	
Vendor	Vendors	Vendor	User	Yes	

Available

Object name	File name	Class	Checked out by	Owner	Modified	Pending	Type	Text type
1099 MISC	YAGFREL0	T99MSC					Primary	
1099 MISC Box	UAHGCPU0	1099BX					Code file	
1099 MISC Box Total	UAHICPU0	T99MBT					Primary	
1099 MISC Classification	YAGEREL0	1099TC					Code file	
1099 MISC Transaction Charge	UAHJCPU0	T99TCH					Primary	
1099 NEC	B99NEC	B99NEC					Primary	
1099 NEC Box Total	B99TOT	B99TOT					Primary	
Account Access Rule	IGGSY	IGSY					Primary	
Account Access Rule Exception	IGGSY	IGSY1					Primary	
Account Segment	IGGSG	IACTSEG					Primary	
Account Segment Value	IGGSV	IACTSEV					Primary	

Adding API Endpoints

- Endpoints / API Calls are added for each business object.
- <https://XAMachineName/infor-idf/XA/T3/rest-api/api/purchasing/1.0.0/PurchaseOrders>
- <https://XAMachineName/infor-idf/XA/T3/rest-api/api/purchasing/1.0.0/PurchaseOrderItems>



The screenshot displays the 'API Overview' interface, divided into two main sections: 'Selected' and 'Available'.

Selected:

Business object	API objects name	Object name	Owner	Modified	Pen
Purchase Order	PurchaseOrders	PurchaseOrder	User	Yes	Yes
Purchase Order Item	PurchaseOrderItems	PurchaseOrderItem	User	Yes	Yes
Purchase Order Item Release	PurchaseOrderItemReleases	PurchaseOrderItemRelease	User	Yes	
Vendor	Vendors	Vendor	User	Yes	

Available:

Object name	File name	Class	Checked out by	Owner	Modified	Pending	Type	Text type
(A)								
1099 MISC	YAGFREL0	T99MSC					Primary	
1099 MISC Box	UAHGCPU0	1099BX					Code file	
1099 MISC Box Total	UAHICPU0	T99MBT					Primary	
1099 MISC Classification	YAGEREL0	1099TC					Code file	
1099 MISC Transaction Charge	UAHJCPU0	T99TCH					Primary	
1099 NEC	B99NEC	B99NEC					Primary	
1099 NEC Box Total	B99TOT	B99TOT					Primary	
Account Access Rule	IGGSY	IGSY					Primary	
Account Access Rule Exception	IGGSY	IGSY1					Primary	
Account Segment	IGGSG	IACTSEG					Primary	

A blue arrow points from the 'PurchaseOrders' entry in the 'Selected' table to the URL <https://XAMachineName/infor-idf/XA/T3/rest-api/api/purchasing/1.0.0/PurchaseOrders> in the text above.

Adding API REST Calls

Purchasing Purchase Order

Update Cancel File Display Maintain Customize Help Default

Business object: Purchase Order Owner: User
Type: Primary Modified: Yes
API objects name: PurchaseOrders Pending change: Yes
API object name: PurchaseOrder Created by: Kerry Shupert 05/18/2026 3:47:37 PM
Changed by: Kerry Shupert 05/19/2026 8:27:46 AM

Monitors
REST calls: 6
Attributes: 41
Text objects: 0

Notes
API Description Internal
This API returns information about Purchase Orders Header Information

REST Calls Attributes Text Objects

Selected

API path	Based on action	Owner	Modified	Pending
findById	&Purchase Order details	User	Yes	
query		User	Yes	
queryPolItems	&Purchase Order Items	User	Yes	
queryPurchaseOrderByBuyer		User	Yes	Yes
queryPurchaseOrderForAcceptanceByBuyer		User	Yes	Yes
vendorAccept	&Vendor Accept	User	Yes	Yes

Available

- Display
 - Object
 - &Purchase Order details
 - List
 - Purchase Orders
 - &Purchase Order Activity
 - &Purchase Order Items
 - &Installation Schedule Lines
 - &Purchase Order Requisitions
 - &Purchase Order Transaction History
 - &Purchase Order Scheduled Receipts
 - &Purchase Order Shipment Container Items
 - &Purchase Order Debit Memos
 - Option
 - &Buyer options
 - &Vendor options
 - &Warehouse Address options
 - Maintain
 - Object
 - &Create
 - &Change
 - &Delete
 - &Copy
 - Object Transaction
 - &Cancel
 - &Activate

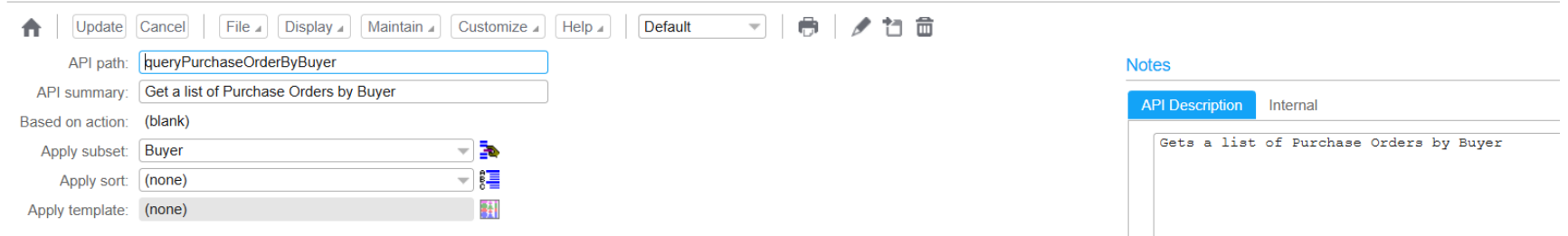
- All actions are available from the business objects and each can be added multiple times for specific REST Calls
- Ability to process the action will depend on the user connected to the REST API – XA permissions are respected.

Detailed API REST Calls

1. Provide the API path
2. Based on the action, provide subset, sort, or template.
3. Provide detail to be generated with the Open API Specs.

List with subset and sort <https://XAHostName/infor-idf/XA/T3/rest-api/api/purchaseOrderItems/1.0.0/queryPurchaseOrderByBuyer>

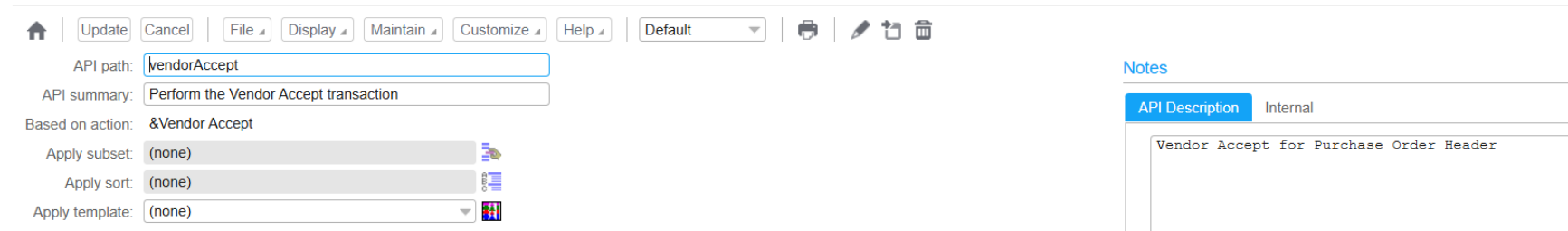
Purchase Order [queryPurchaseOrderByBuyer](#) Get a list of Purchase Orders by Buyer



The screenshot shows the Open API Specs interface for the endpoint `queryPurchaseOrderByBuyer`. The API path is `queryPurchaseOrderByBuyer` and the summary is "Get a list of Purchase Orders by Buyer". The action is "(blank)". The subset is set to "Buyer", the sort is "(none)", and the template is "(none)". The Notes section contains the API description: "Gets a list of Purchase Orders by Buyer".

Transactions with Template <https://XAHostName/infor-idf/XA/T3/rest-api/api/purchaseOrderItems/1.0.0/vendorAccept>

Purchase Order [vendorAccept](#) Perform the Vendor Accept transaction



The screenshot shows the Open API Specs interface for the endpoint `vendorAccept`. The API path is `vendorAccept` and the summary is "Perform the Vendor Accept transaction". The action is "&Vendor Accept". The subset, sort, and template are all set to "(none)". The Notes section contains the API description: "Vendor Accept for Purchase Order Header".

Returned Attributes

- For each business object, you must pick the list of attributes to be returned
- Relationships are built in from Integrator, so API can also return values from a relatable business objects
- Follows XA permissions on fields
- Each attribute could have API description for documentation.

REST Calls | **Attributes** | Text Objects

Selected

API name	Description	Relationship
acceptanceOverdueDerived	Acceptance overdue (derived)	
buyer	Buyer	
confirmByDate	Confirm by date	
confirmedDate	Confirmed date	
createDate	Create date	
followUpDate	Follow up date	
lastActivityDate	Last activity date	
lastInvoiceReceivedDate	Last invoice received date	
lastMaintainedDate	Last maintained date	
lastRevisionDate	Last revision date	
lastRevisionPrintDate	Last revision print date	
lastShipmentDerived	Last shipment (derived)	
lastShipmentDateDerived	Last shipment date (derived)	

Available

Description	Relationship	Business object
Acceptance overdue (derived)		Purchase Order
Accounting Entity		Purchase Order
Actual freight		Purchase Order
Actual freight (alternate currency)		Purchase Order
Actual freight (local currency)		Purchase Order
Actual override		Purchase Order
Actual special charges		Purchase Order
Actual special charges (alternate currency)		Purchase Order
Actual special charges (local currency)		Purchase Order
Alternate currency		Purchase Order
Apportionment		Purchase Order
Approval status		Purchase Order

Text Objects

- Comments / Text objects can also be returned.

REST Calls Attributes **Text Objects**

Selected



API name	▲1 Relationship	Type alias	
----------	-----------------	------------	--

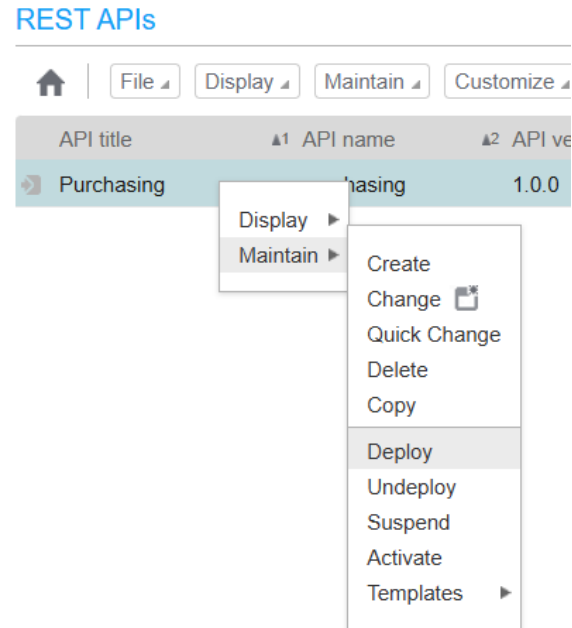
Available



Relationship	▲1 Type alias	Type value	
Purchase Order Comments	Closeout	C	
Purchase Order Comments	Order	P	
Purchase Order Comments	Internal	T	

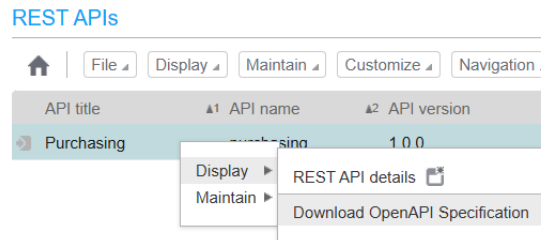
Deploy!

1. Deploy to test.
2. Test the API.
3. Deploy to production.



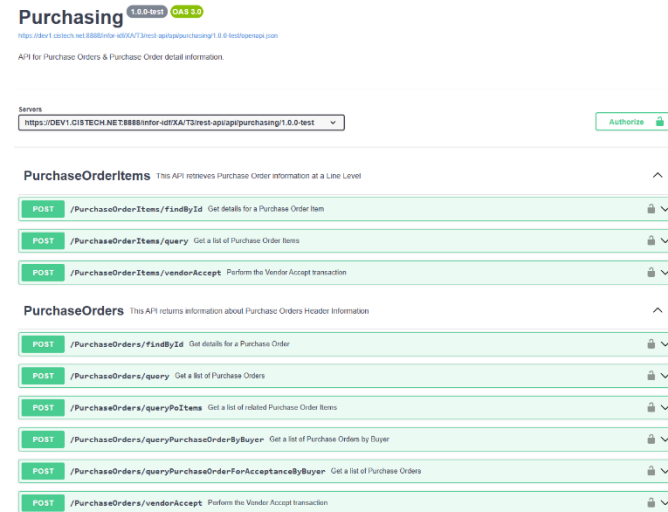
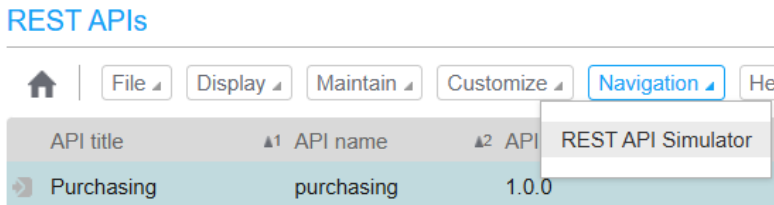
After Deployment

- Once deployed, download OpenAPI Specs



```
{
  "openapi": "3.0.3",
  "info": {
    "title": "Purchasing",
    "description": "API for Purchase Orders & Purchase Order detail information.",
    "version": "1.0.0-test"
  },
  "servers": [
    {
      "url": "https://cistech.net/infor-idx/XA/T3/rest-api/api/purchasing/1.0.0-test"
    }
  ],
  "security": [
    {
      "LoginToken": []
    }
  ],
  "tags": [
    {
      "name": "PurchaseOrderItems",
      "description": "This API retrieves Purchase Order information at a Line Level"
    },
    {
      "name": "PurchaseOrders",
      "description": "This API returns information about Purchase Orders Header Information"
    }
  ],
  "paths": {
    "/PurchaseOrderItems/findById": {
```

- Or open Directly in Swagger



Step 1 – Get Login Token

- Sign in using XA credentials.
- Successful login returns a loginToken that will need to be included with each request.

POST /Sessions/create Return a login token for use by the REST API (login)

Use this call to login to the REST API system.

The `loginToken` return value should be passed in all subsequent calls for this session in the `X-Infor-Login-Token` header for validation.

Parameters Cancel

Name	Description
X-Infor-Diagnostics-Token string (header)	Diagnostics and logging token X-Infor-Diagnostics-Token

Request body required application/json

Edit Value | Schema

```
{  
  "userId": "string",  
  "password": "string",  
  "maxIdleMinutes": 180  
}
```

Execute

Code **Details**

200

Response body

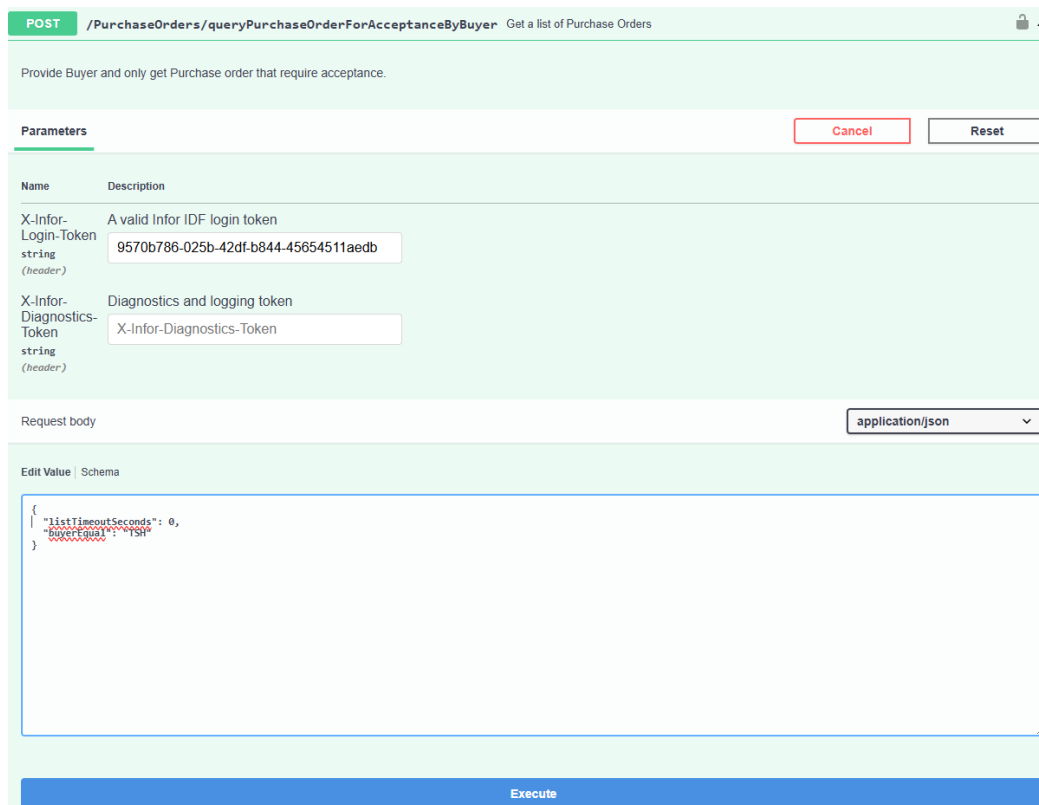
```
{  
  "loginToken": "9570b786-025b-42df-b844-45654511aedb"  
}
```

Download

Response headers

Step 2 – Use API

- This API will return all Purchase Orders that require acceptance by a vendor for a specified buyer.
- Must provide previous token in the header.



POST /PurchaseOrders/queryPurchaseOrderForAcceptanceByBuyer Get a list of Purchase Orders

Provide Buyer and only get Purchase order that require acceptance.

Parameters Cancel Reset

Name	Description
X-Infor-Login-Token string (header)	A valid Infor IDF login token 9570b786-025b-42df-b844-45654511aedb
X-Infor-Diagnostics-Token string (header)	Diagnostics and logging token X-Infor-Diagnostics-Token

Request body application/json

Edit Value | Schema

```
{
  "listTimeoutSeconds": 0,
  "buyerEqual": "ISH"
}
```

Execute

Step 3 – Process Results

- Results are in JSON and/or HTTP Status code.

Response

200

HEADERS [Ⓢ]

```
server: nginx
date: Thu, 04 Jun 2026 20:09:02 GMT +08S
content-type: application/json;charset=utf-8
content-length: 1 kilobytes
access-control-allow-origin: *
```

pretty BODY [Ⓢ]

```
{
  "objects": [
    {
      "vendorAcceptanceDerived": "10",
      "confirmByDate": "2014-06-09",
      "orderStatus": "10",
      "orderClosedDate": null,
      "vendorState": "GA",
      "vendorTelephone": "607-753-6711",
      "shipVia": "",
      "lastActivityDate": "2014-07-31",
      "vendor": "129720",
      "orderStatusDerived": "00",
      "vendorPostalCode": "30096",
      "vendorCountry": "US",
      "order": "P087015",
      "lastShipmentDateDerived": null,
      "createDate": "2014-06-09",
      "lastInvoiceReceivedDate": "2014-07-31",
      "shipViaDescription": "",
      "vendorAbbreviation": "INTERTEK T",
      "lastRevisionPrintDate": null,
      "poAmountApproved": "450.00",
      "releaseDate": "2014-06-09",
      "poAmountRequested": "0.00",
      "lastShipmentDerived": "",
      "vendorContact": "Zachary Bowman",
      "vendorName": "INTERTEK TESTING SERVICE",
      "warehouse": "B",
      "buyer": "TSH",
      "followUpDate": null,
      "vendorFax": "1-607-756-2775",
      "vendorCityPublishFormat": "",
      "vendorAddress4City": "USA ashley_hamcock@intertek.com",
      "acceptanceOverdueDerived": true,
      "vendorAddress5": "zachary.bowman@intertek.com",
      "lastRevisionDate": null,
      "vendorAddress3": "Duluth GA 30096",
      "vendorAddress2": "1950 Evergreen Blvd., Suite 100",
      "location": "",
      "vendorAddress1": "CERTIFICATION AND SURVEILLANCE",
      "confirmDate": null,
      "lastMaintainedDate": "2014-06-11",
      "vendorEmailAddress": "zachary.bowman@intertek.com"
    }
  ]
}
```

```
{
  "objects": [
    {
      "vendorAcceptanceDerived": "10",
      "confirmByDate": "2014-06-09",
      "orderStatus": "10",
      "orderClosedDate": null,
      "vendorState": "GA",
      "vendorTelephone": "607-753-6711",
      "shipVia": "",
      "lastActivityDate": "2014-07-31",
      "vendor": "129720",
      "orderStatusDerived": "00",
      "vendorPostalCode": "30096",
      "vendorCountry": "US",
      "order": "P087015",
      "lastShipmentDateDerived": null,
      "createDate": "2014-06-09",
      "lastInvoiceReceivedDate": "2014-07-31",
      "shipViaDescription": "",
      "vendorAbbreviation": "INTERTEK T",
      "lastRevisionPrintDate": null,
      "poAmountApproved": "450.00",
      "releaseDate": "2014-06-09",
      "poAmountRequested": "0.00",
      "lastShipmentDerived": "",
      "vendorContact": "Zachary Bowman",
      "vendorName": "INTERTEK TESTING SERVICE",
      "warehouse": "B",
      "buyer": "TSH",
      "followUpDate": null,
      "vendorFax": "1-607-756-2775",
      "vendorCityPublishFormat": "",
      "vendorAddress4City": "USA ashley_hamcock@intertek.com",
      "acceptanceOverdueDerived": true,
      "vendorAddress5": "zachary.bowman@intertek.com",
      "lastRevisionDate": null,
      "vendorAddress3": "Duluth GA 30096",
      "vendorAddress2": "1950 Evergreen Blvd., Suite 100",
      "location": "",
      "vendorAddress1": "CERTIFICATION AND SURVEILLANCE",
      "confirmDate": null,
      "lastMaintainedDate": "2014-06-11",
      "vendorEmailAddress": "zachary.bowman@intertek.com"
    }
  ]
}
```

Licensing

- Based on volume of transactions.
- Transactions per hour.
- If limit is reached, error message is returned.
- Resets per hour.
- Requires a System Link license as well.

Server response

Code	Details
429	Error: Too Many Requests




Response body

```
[
  {
    "messageType": "error",
    "detail": "Please wait and try again at the top of the hour.",
    "message": "You have exceeded 1000 requests this hour."
  }
]
```

Response headers

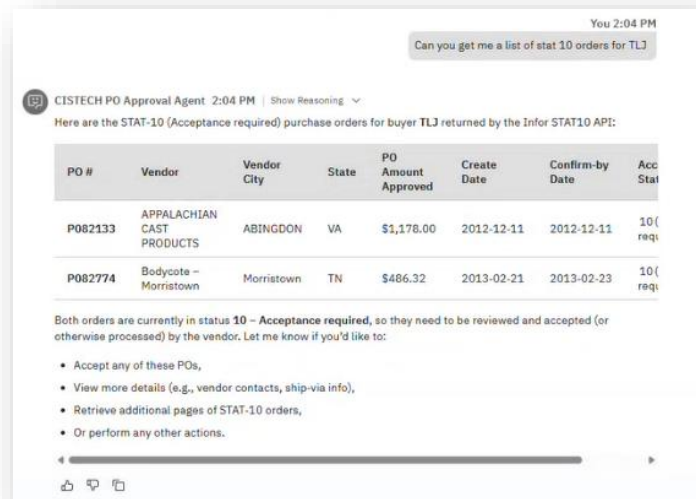
```
access-control-allow-origin: http://localhost:8090
content-length: 139
content-type: application/json;charset=utf-8
date: Mon, 02 Feb 2026 18:05:14 GMT
retry-after: 3290
```

Benefits

Situation	Fit	Reasoning
Custom Applications with RPG		<ul style="list-style-type: none">• JSON is easier to use than XML but would need to utilize REST API calls in RPGLE instead of program call.
Web Based application		<ul style="list-style-type: none">• Creating REST API and using these with web-based applications is significantly easier than System Link.• XA Rest API follows OpenAPI standards and is ERP agnostic (Developer doesn't need to know XA)• Providing API for outside integrations
Mobile Applications		<ul style="list-style-type: none">• Build native iOS/Android or cross-platform mobile apps that securely access XA data and transactions without VPN or terminal access

Other use cases

- External applications with **secure** access to XA data.
 - Self-service portals — customer-facing web portals (order status, shipment tracking) powered by secure REST endpoints
- Internal applications – Even within XA
 - Consume REST from a User Exit, Transaction, Host Job, etc.
- Third-party application integration
- Integrate with AI, like watsonx Orchestrate by IBM
 - Create AI-powered automation & agents that can integrate into XA from workflows.



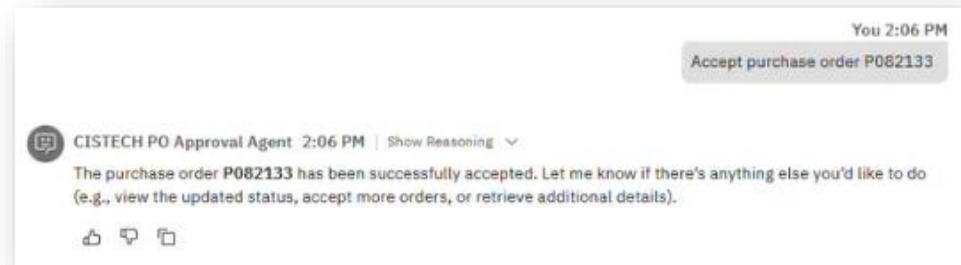
You 2:04 PM
Can you get me a list of stat 10 orders for TLJ

CISTECH PO Approval Agent 2:04 PM | Show Reasoning ▾
Here are the STAT-10 (Acceptance required) purchase orders for buyer TLJ returned by the Infor STAT10 API:

PO #	Vendor	Vendor City	State	PO Amount Approved	Create Date	Confirm-by Date	Acc Stat
P082133	APPALACHIAN CAST PRODUCTS	ABINGDON	VA	\$1,178.00	2012-12-11	2012-12-11	10 (req)
P082774	Bodycote - Morristown	Morristown	TN	\$486.32	2013-02-21	2013-02-23	10 (req)

Both orders are currently in status 10 – **Acceptance required**, so they need to be reviewed and accepted (or otherwise processed) by the vendor. Let me know if you'd like to:

- Accept any of these POs,
- View more details (e.g., vendor contacts, ship-via info),
- Retrieve additional pages of STAT-10 orders,
- Or perform any other actions.



You 2:06 PM
Accept purchase order P082133

CISTECH PO Approval Agent 2:06 PM | Show Reasoning ▾
The purchase order **P082133** has been successfully accepted. Let me know if there's anything else you'd like to do (e.g., view the updated status, accept more orders, or retrieve additional details).

Demo

Questions?

