

Acumatica Summit 2018

Jan. 28 – Feb. 2 • Nashville, TN



Developed for Acumatica

D101: Connecting Clouds with Web Services

Samuel-Olivier Lavigne

Software Developer

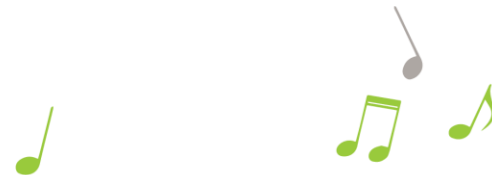
Goals of this Session



- 1** Get you acquainted with the REST APIs in Acumatica 17

- 2** Show you cool integration scenarios

- 3** Mention some place where additional information can be found



Overview of the Available APIs in Acumatica

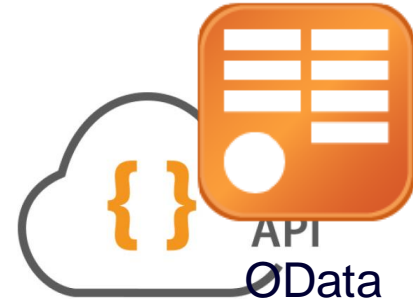


Screen API
SOAP only



Contract-based API
SOAP + REST

Contract-based API



API
OData
REST
REST Endpoint



Web Service Endpoints



Revision Two HQ ▾ Web Service Endpoints ★

VIEW ENDPOINT SERVICE ▾ VIEW MAINTENANCE SERVICE EXTEND ENDPOINT VALIDATE ENDPOINT

* Endpoint Name: * Endpoint Version:

+ INSERT

ENDPOINT

- Account
- AccountByPeriodInquiry
- AccountBySubaccountInquiry
- AccountDetailsInquiry
- AccountLocation
- AccountSummaryInquiry
- Adjustment
- AttributeDefinition
- Bill
- BusinessAccount
- Carrier
- Case
- CashSale
- Check
- Contact
- ContractUsage
- Currency
- Customer

ENDPOINT PROPERTIES

* Endpoint Name: Base Endpoint Name:

* Endpoint Version: Base Endpoint Version:

System Contract:

Extend Current Endpoint

* Base Endpoint Name:

* Base Endpoint Version:

* Endpoint Name:

* Endpoint Version:

OK CANCEL



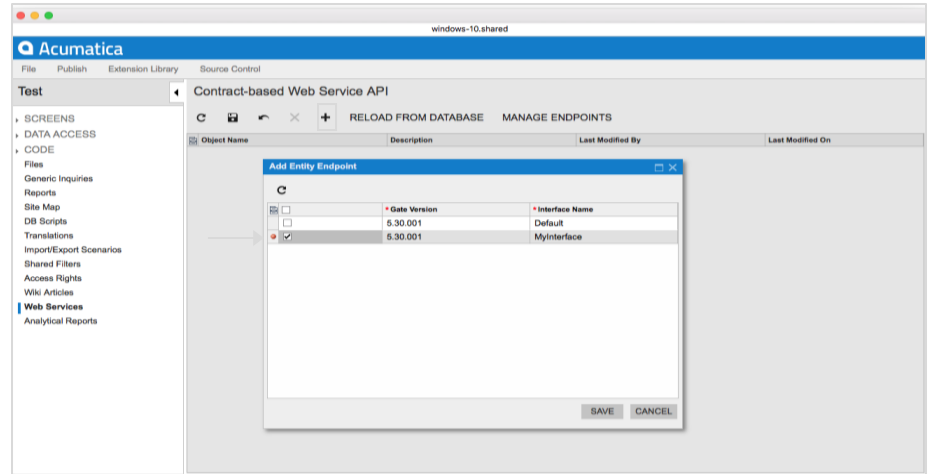
Packaging and Publishing your Own Endpoints



Using API to import schema via maintenance service

- Exporting to XML
- GetSchema/PutSchema

Packaging schema via customization manager



Republishing Already Applied Endpoint



Acumatica Search...

Revision Two HQ - Customization Projects

PUBLISH UNPUBLISH ALL IMPORT EXPORT VIEW PUBLISHED

Published	*Project Name	Level	Screen
<input checked="" type="checkbox"/>	ExportEndpoint		

Publish to Multiple Companies

Selected	Company Name	ID	ParentID
<input type="checkbox"/>	slavigueur	2	1

Database Only - Apply database changes, skip website update
 Publish with Cleanup - Disable scripts optimization

OK CANCEL



Improvement to the contract based API with Acumatica 17



1

Lot more entity

2

Change in the default return behavior

3

New ways to prevent system for going back to unoptimized way of retrieving data

4

Validating the custom endpoint and Entities

5

Open API 2.0 definition



REST API Examples



Logging In



Live Demo



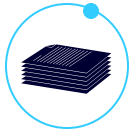
Retrieving Records – HTTP GET



Retrieving by key



Retrieving by filter condition (OData syntax)



Limiting the number of records to be returned (\$top and \$skip)



Controlling what gets returned with each records (\$expand)



Including custom fields (\$custom)

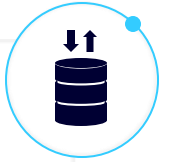


Retrieving Records – HTTP GET (Continued)



Looking at the returned data – an overview of the JSON representation

- System Fields (id – reuse in subsequent calls)
- General Fields
- Linked Entities
- Detail Entities
- Custom Fields



Creating Records – HTTP PUT



Required Fields



Blank vs. Missing



Live Demo



Updating Records – HTTP PUT



Specifying record to update

- URL
 - Keys/ID/Filter
 - Deleting lines in a document
-



Blank vs. Missing



Live Demo



Deleting Records – HTTP DELETE



Specifying record to delete

- Keys/ID



Live Demo



Miscellaneous Topics



Retrieving files



Invoking actions – HTTP POST

- Long-run operations – checking for status through location response header
-



Working with inquiry screens – HTTP PUT, not GET



Integration scenarios



Microsoft Flow Integration



Acumatica Search...

Revision Two HQ ▾ Cases Open x

← SAVE & CLOSE [Icons] ACTIONS ▾ INQUIRIES ▾ TAK

Case ID:	<input type="text" value="000594"/>	* Class ID:	<input type="text" value="PRODSUPINC - Product Support - Inc"/>
Date Reported:	<input type="text" value="1/22/2018 8:08 PM"/>	* Business Account:	<input type="text" value="TWITTERACC - Twitter"/>
Last Activity Date:		* Contact:	<input type="text" value="Contact, Twitter"/>
SLA:	<input type="text" value="1/23/2018 4:07 AM"/>	Owner:	<input type="text"/>
Closing Date:		* Subject:	<input type="text" value="Slavigueur"/>

DETAILS ADDITIONAL INFO ATTRIBUTES ACTIVITIES RELATED CASES RELATIONS

VISUAL [Icons] Paragraph [Icons] INSERT

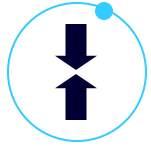
Playing with [@MicrosoftFlow](#) in order to have a fun time at the [#AcumaticaSummit](#)



Push notification



Trigger



Destination



Live Demo



Want to Learn More?



Help → User Guide → Integration



Acumatica University I210 training Contract-Based API



Sergey Marenich blog – asiablog.acumatica.com



Postman: <http://getpostman.com>



StackOverflow – “Acumatica” tag



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Samuel-Olivier Lavigueur
Software Developer
slavigueur@acumatica.com

