

June 15-16



The Cloud ERP

Acumatica Developer Fundamentals

Acumatica Developer Tools

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Technical Account Manager Acumatica

Agenda

Acumatica Debugging Tools

- Element Inspector
- DAC Schema Browser
- Source Code Explorer
- Trace Window

System Health/ Performance Monitoring

- License Monitoring Console
- Request Profiler
- System Monitor
- System Queues Monitor

```
xt.AddScreenConfigurationFor(screen -=>
StateIdentifierIs<status>()
AddDefaultFlow(flow·=>
   .WithFlowStates(fss·=>
      fss.Add(initialState, flowState -> flowState
      fss.Add<State.hold>(flowState -> ...);
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      fss.Add<State.partiallyInvoiced>(flowStat
      fss.Add<State.invoiced>(flowState·=>...)
      fss.Add<State.completed>(flowState -=> ...
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      transitions.AddGroupFrom(initialState, ts
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       transitions.AddGroupFrom<State.invoiced>
      transitions.AddGroupFrom<State.completed
```

Part 1 : Acumatica Debugging Tools



Element Inspector



Element Inspector

- View information for any visual element
- Start customization of inspected element

Element Prope	rties	\times	
Control Type:	Segment Ma	ask	
Data Class:	<u>APInvoice</u>		
Data Field:	VendorID		
View Name:	Document		
Business Logio	APInvoiceEr	ntry	
CUSTOMIZE	ACTIONS -	CANCEL	
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DAC Schema Browser



DAC Schema Browser

- Page displays information about the DAC
- Ways to access DAC schema Browser

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Source Code Explorer



Source Code Explorer

- To Explore the C# Code of a BLC
- To Explore the C# Code of a DAC
- To Explore the ASPX Code of a Page

Q Acumatica	Search Q	Revision Tw Products Who
🛠 Favorites	Source Code	
🕒 Data Views	SCREEN ASPX BUSINESS LOGIC DATA ACCESS FIND IN FILES WEBSITE SOURCES	
Time and Expenses	Graph Name: PX.Objects SO.POCreate/Sales/Order/Process 9	
Finance	Methods s GenerataSalesOrderFromPurd s GenerataSalesOrderFromPurd public class POCreateSalesOrderProcess : EXGraph <pocreatesalesorderprocess> s GenerataSalesOrderFromPurd { mublic virtual unid GenerateSalesOrderProcess : EXGraph public class POCreateSalesOrderProcess></pocreatesalesorderprocess>	
\$ Banking	<pre>>SetProcessingHeaut { Event handlers { var orderEntry = PXGraph.CreateInstance<poorderentry>(); }</poorderentry></pre>	
Projects	<pre>foreach (POForSalesOrderDocument item in itemsList) { SetProcessingResult(GenerateSalesOrderFromPurchaseOrder(orderEntry, item, filter)); }</pre>	
Payables	} public virtual void GenerateSalesOrdersFromPurchaseReturns(List <poforsalesorderdocument> itemsList, POForSalesOrderFilter filter)</poforsalesorderdocument>	
+ Receivables	<pre>{ var receiptEntry = PXGraph.CreateInstance<poreceiptentry>(); funct) (CODEClarChimCommune (constant)); </poreceiptentry></pre>	
Sales Orders	<pre>interface (processing account is in itemsis) { SetProcessingResult(GenerateSalesOrderFromPurchaseReturn(receiptEntry, item, filter)); } }</pre>	
Purchases	} public virtual ProcessingResult GenerateSalesOrderFromPurchaseOrder(POOrderEntry orderEntry, POForSalesOrderDocument item, POForSalesOrderFilter filter)	
lnventory	<pre>i ProcessingResult result = new ProcessingResult(); PXFilteredProcessing<poforsalesorderdocument, poforsalesorderfilter="">.SetCurrentItem(item);</poforsalesorderdocument,></pre>	
2 ^{\$} Payroll	<pre>orderEntry.Clear(); orderEntry.Document.Ourrent = orderEntry.Document.Search<poorder.ordernor>(item.DocNbr, item.DocType); FOOrder po = orderEntry.Document.Current;</poorder.ordernor></pre>	
🕢 Dashboards	<pre>if (item.Excluded == true) { try }</pre>	
More Items	<pre>t po.ExcludeFromIntercompanyProc = true; po = orderEntry.Document.Update(po); orderEntry.Save.Press();</pre>	
😥 Customization	<pre>} catch (Exception ex) { result.AddErrorMessage(ex.Message); } result;</pre>	
	<pre>} List<poline> pOLines = orderEntry.Transactions.Select().RowCast<poline>().ToList();</poline></poline></pre>	
	<pre>if (filter.CopyProjectDetails == true)</pre>	
	{ int? projectID = null; foreach (POLine poLines)	
	i if (projectID == null)	
<	projectID = poLine.ProjectID;	
🛡 Your product is in trial mod	se. Only two concurrent users are allowed.	



) Pro

Trace Window



Trace Window

- To troubleshoot an issue
- Tools → Trace
- Use PXTrace

```
catch (Exception ex)
{
    PXTrace.WriteError(ex);
}
```

CUSTOMIZATION	TOOLS -
Screen ID CST.SM.2	20.15.30
Get Link	
Web Service	
DAC Schema Browse	r
Access Rights	
Share Column Configu	uration
Trace	
Profiler	
About	
	CUSTOMIZATION Screen ID CST.SM.2 Get Link Web Service DAC Schema Browser Access Rights Share Column Configu Trace Profiler About



Part 2 : System Health/ Performance Monitoring



License Monitoring Console



License Monitoring Console

Commonly encountered error



• To view limits for system resources in Acumatica license

License Monitoring (License Monitoring Console			CUSTOMIZATION	TOOLS *	
SLICENSE STATISTI	CS WARNINGS CONSTRAINT HISTORY					
⊢ X						
B Month	Commercial Transactions (% of Limit)		ERF	Transactions (% of Limit)		
> 05-2022	<u>0</u>		3			
					12 - 2	> >1
					1< <	> >1
→ X						
E Date	Commercial Transactions (% of Limit)	ERP Transactions (% of Limit)	Peak Number of Web Services API Requests per Minute (% of Limit)	* Declined API Requests (% of All)	* Delayed API Requests (% of AII)	
> 5/17/2022	<u>0</u>	<u>0</u>	0	0 (0%)	0 (0%)	
5/16/2022	<u>0</u>	3	3	0 (0%)	0 (0%)	



Request Profiler



Request Profiler

- Tool to troubleshoot performancerelated issues
- Used for:
 - Monitor time and memory
 - Analyze time needed for any SQL query
 - Obtain information about the exceptions



System Monitor



System Monitor

Acumatica	Search Search	Revision Two Products 6/13/2022 ② 2 admin Products Wholesale © 2 admin 2 admin	admin 🗸
☆ Favorites	System Monitor	CUSTOMIZATION	TOOLS *
🕒 Data Views	RUNNING PROCESSES ACTIVE USERS RESOURCE USAGE SYSTEM EVENTS REQUESTS IN PROGRESS		
Time and Expenses	Show All Users O ABORT VIEW SCREEN ACTIVE THREADS (***)	All Records	• 7
Finance	Ed User Screen Title Process Total Errors		
\$ Banking			
Projects			
Payables			
+ Receivables			
Z Sales Orders			
Purchases			
D Inventory	No records found.		
2 ^{\$} Payroll	Try to modify parameters above to see records here.		
Dashboards			
More Items			
🕒 System Management			
<		K <	\rightarrow \rightarrow
Your product is in trial model	e. Only two concurrent users are allowed.	AC	TIVATE



System Queues Monitor



System Queues Monitor

- To monitor statuses of the • queues
- Sections •
 - Summary Area •
 - Errors Tab •
 - Settings Tab •

A cumatica	Search Q
🟠 Favorites	System Queues Monitor
🕒 Data Views	
Time and Expenses	Push Notification Queue Commerce Queue Queue Name: .\private\$\primaryqueueFB520CAEDA401E65D995867FDDD24BD32CD041CE Queue Name: .\private\$\commerceQueueFB520CAEDA401E65D995867FDDD24BD32CD041CE
Finance	Status: OK Status: OK Processing Performance: OK VIEW DETAILS Processing Performance: OK
\$ Banking	Messages: 0 Messages: 0 Queue Size, KB: 0/102400 Queue Size, KB: 0/102400
Projects	CLEAR QUEUE RESTART DISPATCHER CLEAR QUEUE RESTART DISPATCHER Business Event Queue
Payables	Queue Name: .\private\$\eventQueueFB520CAEDA401E65D098867FDDD24BD32CD041CE Status: OK
+ Receivables	* Processing Performance: OK VIEW DETAILS Messages: 0 0 0
Sales Orders	Queue Size, KB: 0/102400 CLEAR QUEUE RESTART DISPATCHER
Purchases	ERRORS SETTINGS
lnventory	Push Notification Queue Commerce Queue
2 ^{\$} Payroll	Processing Time Threshold (s): B0.00 Processing Time Threshold (s): 30.00 Number of Records in Detailed Log: 100 Number of Records in Detailed Log: 100
Dashboards	
More Items	
🕒 System Management	
<	
Your product is in trial model	e. Only two concurrent users are allowed.



Summary

Acumatica Debugging Tools

- Element Inspector
- DAC Schema Browser
- Source Code Explorer
- Trace Window

System Health/ Performance Monitoring

- License Monitoring Console
- Request Profiler
- System Monitor
- System Queues Monitor



Resources

- DAC Schema Browser: https://help-2022r1.acumatica.com/(W(175))/Wiki/ShowWiki.aspx?pageid=bad16648-2ba8-4bb7-bc24-19239d09cf81
- License Monitoring Console: https://help-٠ 2022r1.acumatica.com/(W(57))/Help?ScreenId=ShowWiki&pageid=06869c57-819d-4626-a5a8-72507e6a79d8
- Request Profiler: https://help-2022r1.acumatica.com/(W(176))/Help?ScreenId=ShowWiki&pageid=4b2b51fa-eae3-4102-b1f2-d7ee96145174
- System Monitor: https://help-2022r1.acumatica.com/(W(177))/Wiki/ShowWiki.aspx?pageid=7569f087-0001-4164a9cc-dab2a64d781a
- System Queues Monitor: https://help-2022r1.acumatica.com/(W(178))/Wiki/ShowWiki.aspx?pageid=dd023d20-4839-4683-892e-69a64b3089aa





June 15-16



Thank You!

www.acumatica.com/developers