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Acumatica
The Cloud ERP

Acumatica Developer Fundamentals

Acumatica Developer Tools

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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 =>
 creen
 StateIdentifierIs<status>()
 AddDefaultFlow(flow =>
     flow
     .WithFlowStates(fss =>
     {
         fss.Add(initialState, flowState => flowSt
         fss.Add<State.hold>(flowState => ... );
         fss.Add<State.open>(flowState => ... );
         fss.Add<State.confirmed>(flowState =>
         fss.Add<State.partiallyInvoiced>(flowStat
         fss.Add<State.invoiced>(flowState => ...
         fss.Add<State.completed>(flowState => ...
     })
     .WithTransitions(transitions =>
     {
         transitions.AddGroupFrom(initialState, ts
         transitions.AddGroupFrom<State.hold>(ts =
         transitions.AddGroupFrom<State.open>(ts =
         {
             ts.Add(t => t.To<State.hold>().IsTrig
             ts.Add(t => t.To<State.confirmed>().I
         });
         transitions.AddGroupFrom<State.confirmed>
         {
             ts.Add(t => t.To<State.open>().IsTrig
             ts.Add(t => t.To<State.invoiced>().Is
             ts.Add(t => t.To<State.partiallyInvoi
         });
         transitions.AddGroupFrom<State.partiallyI
         transitions.AddGroupFrom<State.invoiced>(
         transitions.AddGroupFrom<State.completed>
     }))
```
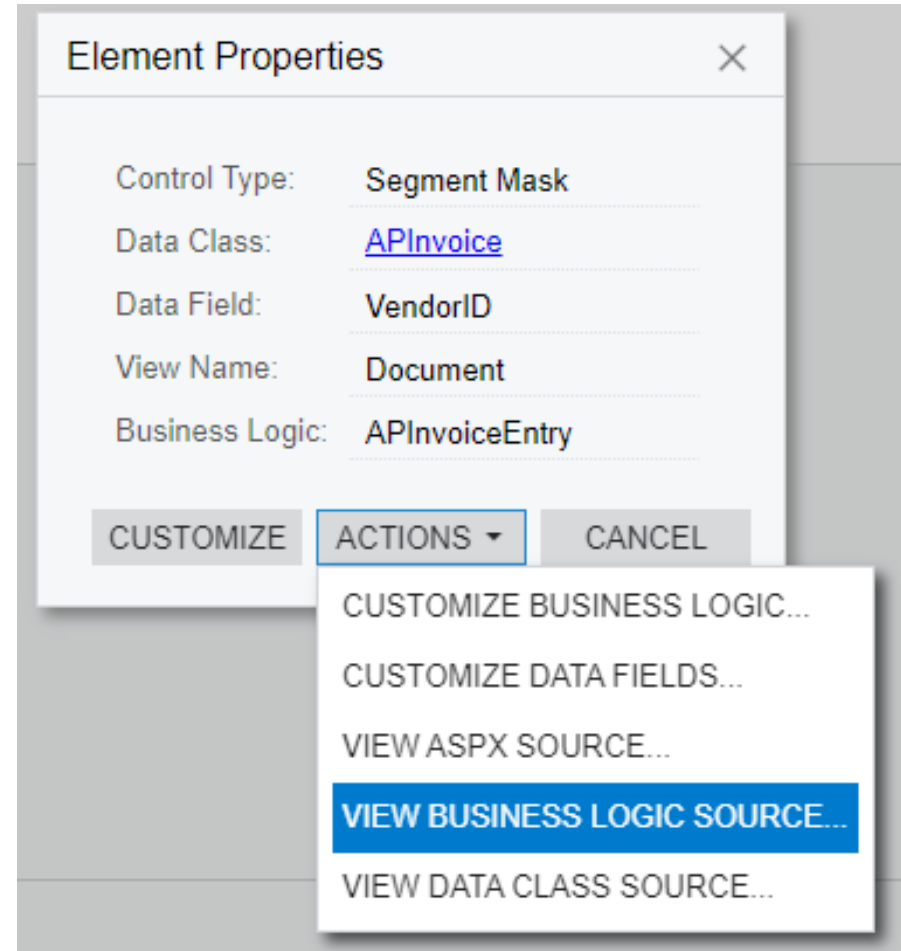
Part 1 : Acumatica Debugging Tools

Element Inspector

Element Inspector

- View information
  for any visual element

- Start customization of inspected
  element

DAC Schema Browser

DAC Schema Browser

- Page displays information about the DAC

- Ways to access DAC schema Browser

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

Trace Window

Trace Window

- To troubleshoot an issue

- Tools → Trace

- Use PXTrace

```
catch (Exception ex)
{
    PXTrace.WriteError(ex);
}
```
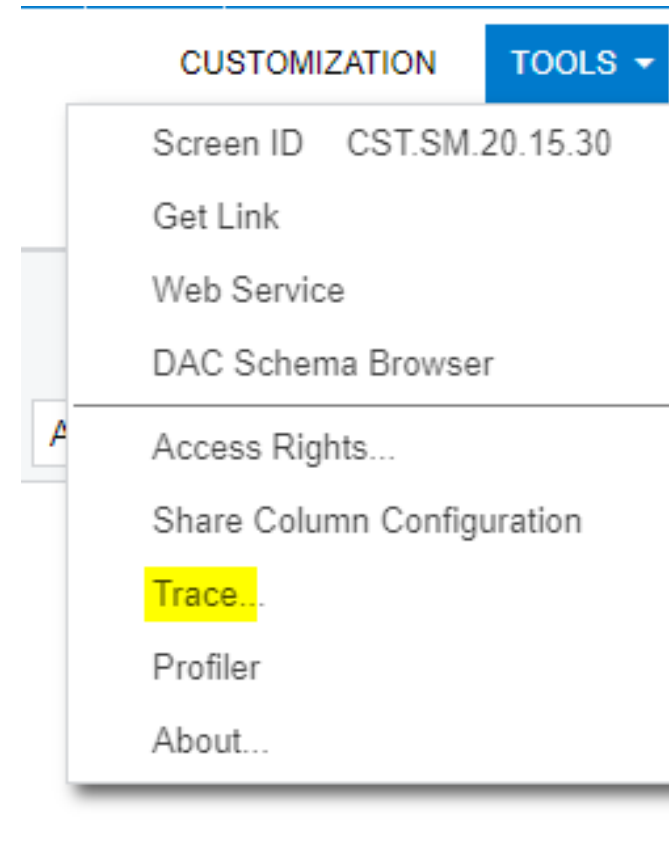
Part 2 : System Health/ Performance Monitoring

License Monitoring Console

License Monitoring Console

- Commonly encountered error

```
1  {
2     "message": "An error has occurred.",
3     "exceptionMessage": "API Login Limit",
4     "exceptionType": "PX.Data.PXException",
5     "stackTrace": "   at PX.LicensePolicy.PXLicensePolicy.CheckApiUsersLimits(HttpContextBase c)
```

- To view limits for system resources in Acumatica license

License Monitoring Console   CUSTOMIZATION   TOOLS ▾

⊗ LICENSE   STATISTICS   WARNINGS   CONSTRAINT HISTORY

Month	Commercial Transactions (% of Limit)	ERP Transactions (% of Limit)
05-2022	0	3

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 All)
5/17/2022	0	0	0	0 (0%)	0 (0%)
5/16/2022	0	3	3	0 (0%)	0 (0%)

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Request Profiler

Request Profiler

- Tool to troubleshoot performance-related issues

- Used for:
  - Monitor time and memory
  - Analyze time needed for any SQL query
  - Obtain information about the exceptions

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System Monitor

System Monitor
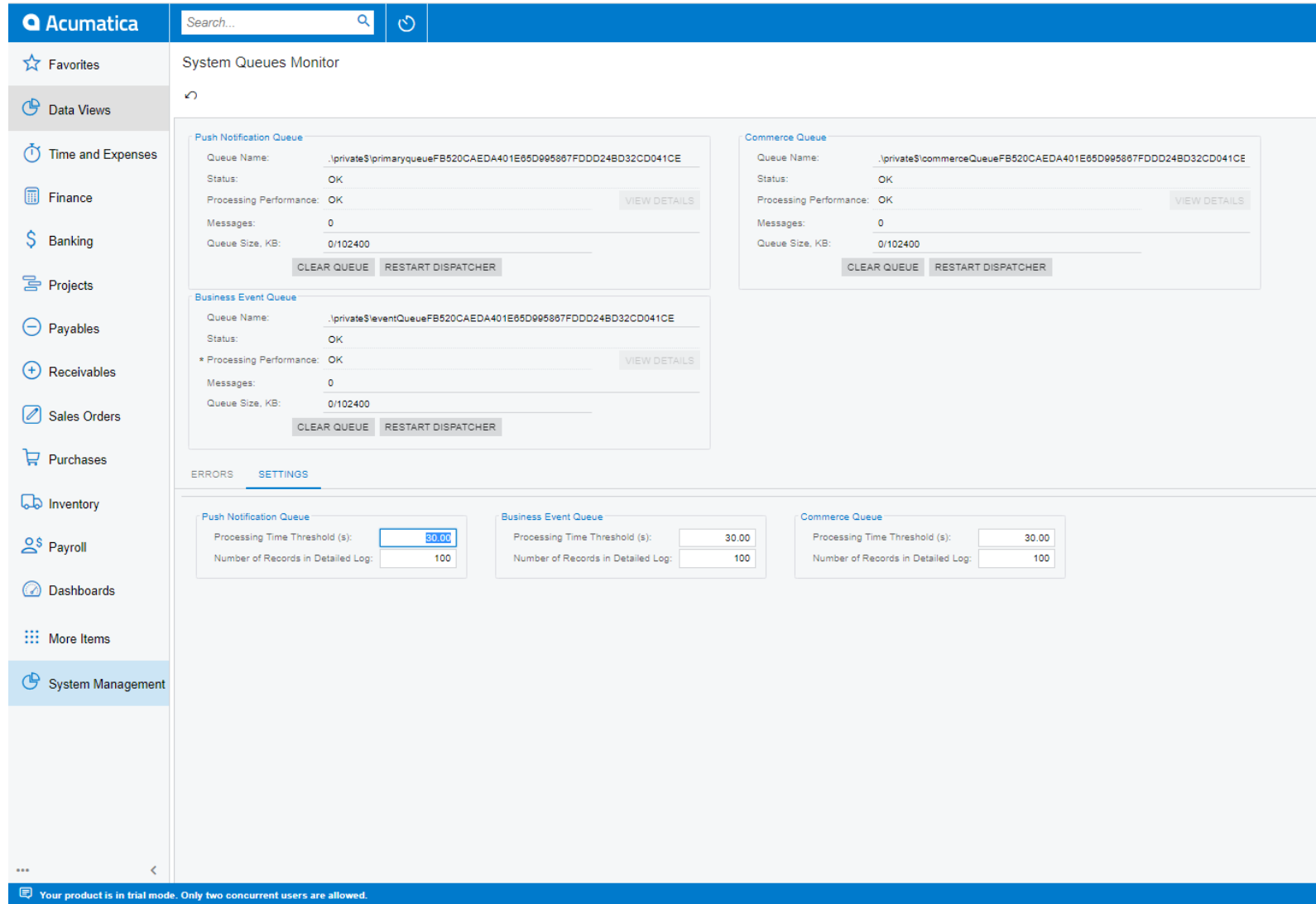
System Queues Monitor

System Queues Monitor

- To monitor statuses of the queues

- Sections
  - Summary Area
  - Errors Tab
  - Settings Tab

Summary

✓ **Acumatica Debugging Tools**

- Element Inspector

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✓ **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-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=7569f087-0001-4164-a9cc-dab2a64d781a

- System Queues Monitor: https://help-2022r1.acumatica.com/(W(178))/Wiki/ShowWiki.aspx?pageid=dd023d20-4839-4683-892e-69a64b3089aa

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Thank You!

www.acumatica.com/developers