



What's new in telemetry

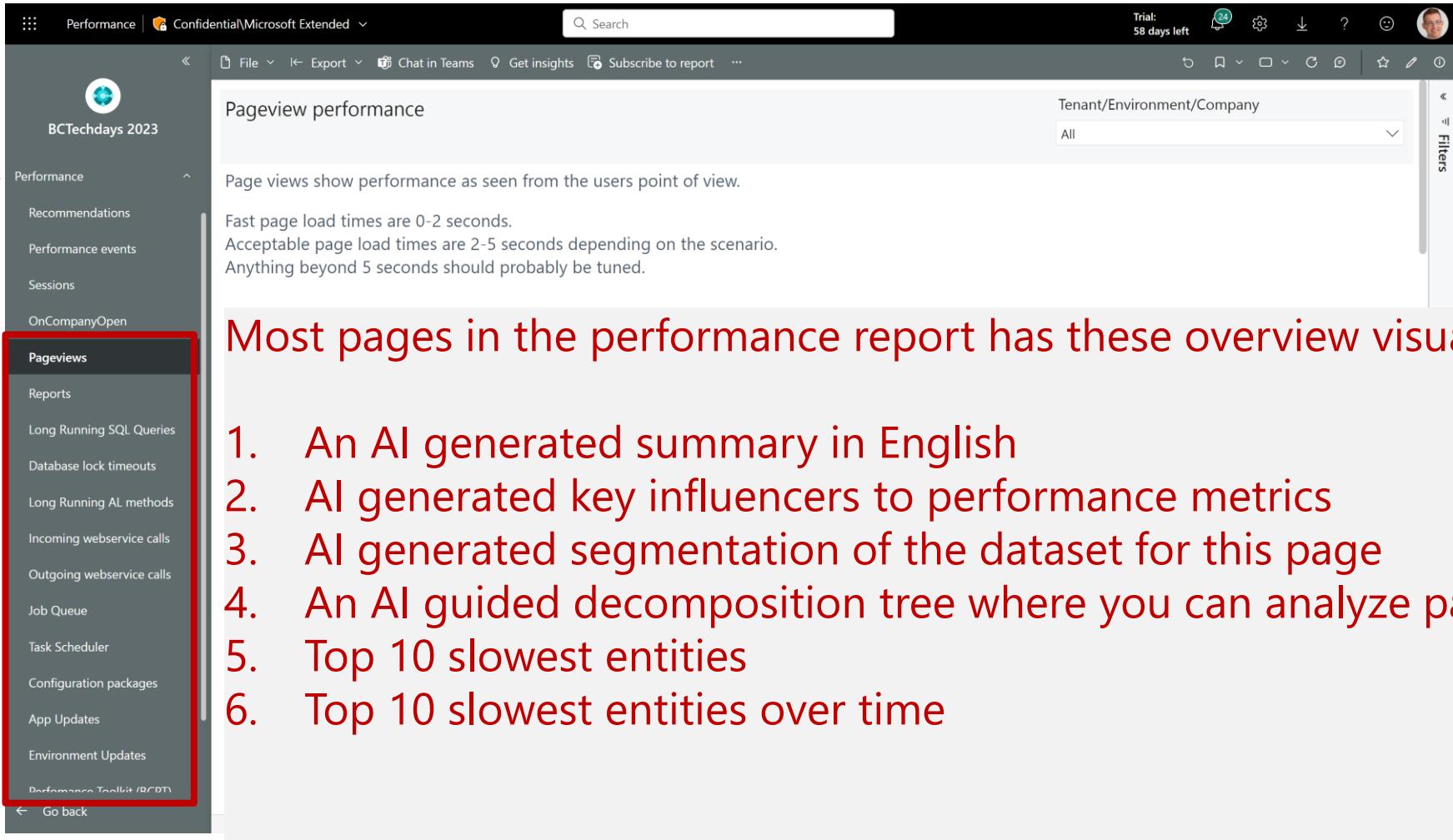


Agenda

- Insights: Analyzing performance
- Insights: Analyzing errors
- Coming soon (23.0 and later)
- Tips and tricks
- Resources

Analyzing performance

AI assisted performance analysis



Most pages in the performance report has these overview visuals:

1. An AI generated summary in English
2. AI generated key influencers to performance metrics
3. AI generated segmentation of the dataset for this page
4. An AI guided decomposition tree where you can analyze patterns
5. Top 10 slowest entities
6. Top 10 slowest entities over time

AI assisted performance analysis - summary

The screenshot shows the Microsoft Extended Performance Analysis interface. A red bracket on the left groups several menu items under 'Pageviews'. A large red arrow points from this bracket to the AI-generated summary section. Another red bracket highlights the 'Summary (for page performance)' box, which contains the AI-generated text: "AI generated summary in English (might not show anything if there is not enough data for the AI to analyze.)".

Pageview performance

Page views show performance as seen from the users point of view

Fast pag
Acceptal
Anything

AI generated summary in English (might not show anything if there is not enough data for the AI to analyze.)

Summary (for page performance)

App contributed the most to the Increase of Avg load time (sec). When App was BCTechDays1, Avg load time (sec) Increased by 9.22.

Key influencers (for page performance)

Key influencers **Top segments**

What influences Avg load time (sec) to **Increase** ?

When...

...the average of Avg load time (sec) increases by

App is BCTechDays1 9.19

Version is 42 9.19

Avg load time (sec) is more likely to increase when App is BCTechDays1 than otherwise (on average).

Average of Avg load time (sec) for each App:

App	Average (excluding selected):
BCTe...	3.24
MSF ...	
Pay...	
MSF ...	
Direct...	
B2B ...	
Intell...	
BCTe...	
Data...	
(Bank)	
IIS 1...	
Late ...	
Image...	
Multi...	
BCTe...	
Excl...	
Perf...	
Shop...	
Com...	
Excl...	
Reco...	
Core...	

Only show values that are influencers

AI assisted performance analysis - key influencers

The screenshot shows the Microsoft Performance Analysis interface. On the left, a sidebar menu is highlighted with a red bracket and two red arrows pointing to the 'Pageviews' section. This section includes options like Reports, Long Running SQL Queries, Database lock timeouts, and various web service calls. The main content area displays a report titled 'KEY INFLUENCERS (FOR PAGE PERFORMANCE)'. The 'Key influencers' tab is selected, showing that the average load time increases by 9.19 seconds when the app is BCTechDays1. A bar chart compares average load times across different applications, with BCTechDays1 having the highest value at approximately 11.5 seconds. A tooltip indicates that the average load time is more likely to increase when the app is BCTechDays1 than otherwise.

AI generated key influencers to performance metrics (might not show anything if there is not enough data for the AI to analyze.)

Click on an insight to compare to the average of the full population.

Application	Average of Avg load time (sec)
BCTechDays1	~11.5
MSF - Test Cloud Mig	~5.8
Payment Links to PayPal	~5.5
MSF - Test Cloud Mig 2	~5.0
DirectionsNA2023	~4.8
B2B Ecommerce - Webs...	~4.5
Intelligent Cloud Base	~3.8
BCTechDays3	~3.5
Data Search	~3.0
(Blank)	~2.5
IRS 1096	~2.2
Late Payment Prediction	~2.0

AI assisted performance analysis – Top segments

The screenshot shows the Microsoft Extended Performance Analysis interface. On the left, a sidebar menu is open, with the 'Pageviews' section highlighted by a red bracket and a red arrow pointing to it. The main content area displays a 'KEY INFLUENCERS (FOR PAGE PERFORMANCE)' report. A tab labeled 'Top segments' is selected, also highlighted by a red box and a red arrow. The report shows Segment 1 with an average load time of 11.74 seconds, which is 8.5 units higher than the overall average of 3.24 seconds. Segment 1 contains 163 data points (7.5% of the data). A donut chart indicates that Segment 1 accounts for a significant portion of the data.

AI generated segmentation of the dataset for this page (might not show anything if there is not enough data for the AI to analyze.)

Click on a segment to learn more

AI assisted performance analysis – Analyze root causes

The screenshot shows the Microsoft Performance Analysis interface. On the left, a sidebar menu is open under the 'Pageviews' section, listing various monitoring categories. A red bracket and two red arrows point to this sidebar. The main area displays a chart titled 'Analyze root causes (for page performance)'. The chart has 'Page Name' as the primary dimension and 'Avg load time (sec)' as the metric. It shows several items with their average load times: Table Information (30.1), Customer Report Select... (27.1), CRM Connection Setup (26.7), Migration Table Overv... (18.1), and Integration Table Map... (14.7). A tooltip for the 'Table Information' item indicates it's a 'High value'. A secondary tooltip suggests finding the field with the highest value for the metric. The bottom right corner of the slide contains two descriptive text blocks in red:

An AI guided decomposition tree where you can analyze patterns.

Let AI pick the next step (see the light bulb icons) or pick the dimension you want to explore.

Page Name	Avg load time (sec)
Table Information	30.1
Customer Report Select...	27.1
CRM Connection Setup	26.7
Migration Table Overv...	18.1
Integration Table Map...	14.7

AI assisted performance analysis – Top 10 slowest

The screenshot shows the Microsoft Extended Performance Analysis interface. On the left, a sidebar menu is open under 'Pageviews', showing various monitoring categories like Reports, Long Running SQL Queries, and App Updates. A red bracket and arrow point to this sidebar. The main content area displays two charts: 'Top 10 slowest pages (on average)' and 'Top 10 slowest pages (on average) by date'. The first chart is a table listing pages with their count, name, type, and average load time. The second chart is a line graph showing the average load time over time for different page names. A red box highlights both charts. Below the charts, a red text box contains the following message:

See top 10 slowest entities (on average) and top 10 slowest entities over time

Pick one row and then scroll down to the detail report (which is now filtered to your choice)

Below the text box, there is a detailed table of pageviews and a bar chart titled 'Pageviews by Browser'.

Count	Page Name	Page Type	Avg load time (sec)
1	Table Information	List	30.1
11	CRM Connection Setup	Card	28.9
1	Customer Report Selections	List	27.1
21	Migration Table Overview	Worksheet	18.1
4	Integration Table Mapping List	List	14.7
19	Bank Account List	List	13.9
4	SII History	List	13.6
33	Thirty Day Trial Dialog	NavigatePage	13.2
1414	Business Manager Role Center	RoleCenter	12.5
9	MSFTUpdateHybridDetail	List	9.9
1	CRM Connection Setup	List	2.3

Pageviews by Browser

Browser	Value
Apple Mail	87.44%
Chrome	1.56%
Chrome Mobile WebView	1.00%

Does your API calls get queued up?

The screenshot shows the Dynamics 365 Business Central Performance dashboard for Usage on 29/05/2023. A red box highlights the 'Webservice Queue Statistics' section and the 'Queue time statistics, anyone?' text overlay.

Webservice Queue Statistics

Count	Endpoint	Sum queue time (sec)	Avg queue time (ms)
7	MS/api/microsoft/cloudMigration/v1.0/companies()/cloudMigrationStatus	0.00	0.00
7	MS/api/microsoft/cloudMigration/v1.0/companies()/cloudMigrationStatus()/.Microsoft.NAV.refreshStatus	0.00	0.00
1	MS/api/microsoft/dataverse/v1.0/dataverseEntityChanges	0.00	0.00
11	MS/api/microsoft/powerbi/v2.0/reportLabels	0.00	0.00
33	MS/api/microsoft/runtime/beta/apiRoutes	0.00	0.00
837	MS/api/microsoft/runtime/beta/companies	0.00	0.00
2	MS/api/microsoft/runtime/beta/webhookSupportedResources	0.00	0.00
8650		0.00	0.00

Queue time (sec) and Execution time (sec)

A bubble chart comparing Queue time (sec) and Execution time (sec). The size of the bubbles represents the count of calls. The chart shows a large number of calls with very low execution times and a few outliers with higher execution times.

Queue time statistics, anyone?

Canada)

A bar chart titled 'Calls over the Week' for Canada. The Y-axis ranges from 0K to 4K. The X-axis shows the days of the week: Mon, Tue, Wed, Thu, Fri, Sat, Sun. The chart shows a peak on Tuesday and a smaller peak on Wednesday.

Calls over the Week

Time spent over the Week

A bar chart titled 'Time spent over the Week' for Canada. The Y-axis ranges from 0K to 1K. The X-axis shows the days of the week: Mon, Tue, Wed, Thu, Fri, Sat, Sun. The chart shows a peak on Wednesday.

Web service time (avg. execution time) by date

A line chart showing the average execution time over time. The Y-axis has a scale break between 5K and 1. The chart shows several sharp peaks, with one major peak reaching nearly 5K.

Web service time (avg. queue time) by date

A line chart showing the average queue time over time. The Y-axis has a scale break between 1 and 0. The chart shows a single small peak near 1.

Long running AL methods – total and exclusive time

Now shows both total time and exclusive time

The screenshot shows the Dynamics 365 Business Central Usage report interface. On the left, a navigation menu lists various performance-related sections. Two red arrows point to the 'Performance' section and the 'Long Running AL meth...' item under 'Incoming webservice calls'. The main content area displays 'AL method performance details' with a table titled 'AL Method Statistics' and several charts: 'Long running AL methods by Client Type', 'Long running AL methods by Extension type', 'Long running AL methods by Extension Publisher', and 'Long running AL methods over the Day - (UTC-06:00) Central Time (US & Canada)'.

AL Method Statistics

Object / Method	Count	Total sum time (sec)	Total max time (sec)	Exclusive sum time (sec)	Exclusive max time (sec)
BCPT Role Wrapper	25078	2156783	1864	1169960	1824
BCPT CommandLine Card	988	1519251	1864	845025	1824
BCPT Start Tests	986	1518891	1864	844667	1824
Test Runner - Mgt	24086	637427	279	324858	279
BCPT Create SO with N Lines	20251	427872	191	235720	181
BCPT Post Sales with N Lines	3472	154281	197	105021	153
Sales-Post	3912	128240	166	70924	166
Total	378429	10724351	38186	4127911	12957

Object Details (in which object does the endpoint come from)

Object Name / Id / Type	Count
Accessible Companies	6
Aged Acc. Receivable Chart	1
App Key Vault Secret Pr. Impl.	1
Apply Retention Policy	12
Apply Retention Policy Impl.	18
Assisted Company Setup	164
AttachmentManagement	1
Azure AD Graph Impl.	18
Azure AD Plan Impl.	1
Azure AD User Management	1
Total	378429

App Details (in which app does the endpoint come from)

Publisher / App (id) / Version	Count
BCTech	270
Continia Software	16
Default publisher	25762
DirectionsAsia 2023	20
EOS Solutions	8
Insight Works	6
Microsoft	68366
MSFT	26
NaviPartner	1
Total	378429

Long running AL methods by Client Type

Client type	Percentage
Background	77.46%
ChildSession	22.10%
ClientService	

Long running AL methods by Extension type

Code Ownership	Percentage
ENVIRONMENT	81.85%
ISV_ONLINE	
ISV_ONPREM	
MICROSOFT	18.13%

Long running AL methods by Extension Publisher

Publisher	Percentage
(Blank)	
BCTech	75.03%
Continia Software	18.07%

Long running AL methods over the Day - (UTC-06:00) Central Time (US & Canada)

A timeline chart showing the distribution of long running AL methods over a 24-hour period, centered on UTC-06:00 Central Time (US & Canada). The x-axis represents time from 00:00 to 23:00. The y-axis represents the count of methods. The chart shows a significant peak around 06:00 UTC-06:00, with a smaller peak around 18:00 UTC-06:00.

Long running AL methods – see SQL statistics

The screenshot shows the Dynamics 365 Performance Insights interface. On the left, a navigation bar lists various performance-related metrics. Two red arrows point to the 'Long Running AL methods' link in the navigation bar and the 'AL Method SQL Statistics' section in the main content area.

AL Method Statistics

Object / Method	Count	Total sum time (sec)	Total max time (sec)	Exclusive sum time (sec)	Exclusive max time (sec)
BCPT Role Wrapper	13831	1170748	1824	1169960	1824
Total	52421	4431393	13019	4349528	13019

Now also shows SQL statistics for long running AL methods

AL Method SQL Statistics

Object / Method	Count	Sum SQL statements	Max SQL statements	Sum SQL rows read	Max SQL rows read
Import Config. Package Files	163	34005838	765785	28446772	545110
BCPT Role Wrapper	13831	13501771	97750	19918522	778747
Suggest Worksheet Lines	50	1891377	224799	18809264	2248885
Config. Package Management	723	23833493	354151	18028424	250987
Config. Setup	201	20723654	485300	17483170	346999
Job Queue Dispatcher	412	1792130	253056	15241910	2291160
BCPT CommandLine Card	570	8144380	97761	12640257	778755
Total	52421	161183944	1393625	229507169	6486534

Object Details (in which object does the endpoint come from)

Object Name / Id / Type	Count
Accessible Companies	56
Aged Acc. Receivable Chart	8
App Key Vault Secret Pr. Impl.	1
Apply Retention Policy	7
Apply Retention Policy Impl.	5
Assisted Company Setup	370

App Details (in which app does the endpoint come from)

Publisher / App (id) / Version	Count
Continia Software	2603
Default publisher	16
DirectionsAsia 2023	14763
Microsoft	20
NaviPartner	35015
Softera Baltic	1
Clien	3

Long running AL methods by Extension Publisher

Publisher	Percentage
(Blank)	28.16%
Continia Software	66.80%

SQL statistics can help you determine if a long running AL method is not only spending a lot of time running AL, but as well is also doing work on the database.

Note that the time captured in this event does not include time spent in SQL.

Job Queue Performance – see Job Queue description

The screenshot shows the Dynamics 365 Business Central Performance Insights interface. On the left, a navigation bar lists various performance metrics like Usage, Errors, and Performance. The 'Performance' section is expanded, and the 'Job Queue' item is highlighted with a red arrow. The main content area displays 'Job Queue Statistics' and 'Job Queue Details' tables, both of which are also highlighted with red boxes. A callout box points to the statistics table with the text: 'Job Queue Descriptions are now emitted to telemetry'. The 'Job Queue Entries by Extension Type' chart shows 100.00% Microsoft ownership.

Job Queue Statistics

Object Name / Id / Type / Description	Count	Sum time (sec)	Min time (sec)	Avg time (sec)	Max time (sec)
224	18976	0	85	10	
Integration Synch. Job Runner	178	4273	10	24	1
5339	178	4273	10	24	1
Codeunit	178	4273	10	24	1
Sales Invoice Header -> CRM Invoice - Dynamics 365 Sales synchronization job.	8	2064	104	258	675
Payment Terms -> Dataverse Account - Dynamics 365 Sales synchronization job.	38	628	1	17	9
Shipment Method -> Dataverse Account - Dynamics 365 Sales synchronization job.	12	339	1	28	60
Item <-> CRM Product - Dynamics 365 Sales synchronization job.	4	274			
Shipping Agent -> Dataverse Account - Dynamics 365 Sales synchronization job.	12	222			
Customer <-> Dataverse Account - Dynamics 365	9	99			
Total	511	23525	0	46	10

Job Queue Details

Count	Object Id	Object Name	Object Type	Object Description
1	5339	Integration Synch. Job Runner	Codeunit	ZIP Code <- ZIP Code - ZIP Code <- ZIP Code - Business Central synchronization job. synchronization job.
1	5359	Int. Coupling Job Runner	Codeunit	Vendor Posting Group <- Vendor Posting Group coupling job.
1	5339	Integration Synch. Job Runner	Codeunit	Vendor Posting Group <- Vendor Posting Group - Vendor Posting Group <- Vendor Posting Group - Business Central synchronization job. synchronization job.

Report performance – showing rendering statistics

Object Id	Report Name	Count
437dbf0e-84ff-417a-965d-ed2bb96	./AgedAccountsReceivable.rdlc	1
437dbf0e-84ff-417a-965d-ed2bb96	./BankMgt/BankAccReconTest.rdlc	5
437dbf0e-84ff-417a-965d-ed2bb96	./CustomerTop10List.rdlc	81
437dbf0e-84ff-417a-965d-ed2bb96	./DetailTrialBalance.rdlc	105
437dbf0e-84ff-417a-965d-ed2bb96	./FinancialMgt/FinancialReports/AccountSchedu le.rdlc	9
437dbf0e-84ff-417a-965d-ed2bb96	./FinancialMgt/GeneralLedger/DetailTrialBalanc e.rdlc	2

The chart shows the daily distribution of client types. On Monday, there is a small amount of ClientService traffic. On Tuesday, there is a significant amount of ClientService traffic, with a smaller portion being Background. On Wednesday, there is a large amount of ClientService traffic, with a smaller portion being Background. On Thursday, there is a large amount of ClientService traffic, with a smaller portion being Phone. On Friday, Saturday, and Sunday, there is a small amount of ClientService traffic, with a smaller portion being Background.

Day	Client Type	Approximate Value
Mon	ClientService	~10
Tue	ClientService	~80
Tue	Background	~10
Wed	ClientService	~90
Thu	ClientService	~80
Thu	Phone	~10
Fri	ClientService	~10
Sat	ClientService	~10
Sun	ClientService	~10
Sun	Phone	~5

Dataset and rendering statistics

Report Name	Object Id	Count	Sum total time (min)	Avg total time (sec)	Max total time (sec)	Sum dataset time (min)	Avg dataset time (sec)	Max dataset time (sec)	Sum rendering time (min)	Avg rendering time (sec)	Max rendering time (sec)
Trial Balance/Budget	9	1	0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00
Customer Statements	10072	1	0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00
List Price Sheet	10148	1	0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00
Whse. - Shipment	7317	1	0.0	0.01	0.0	0.00	0.01	0.01	0.00	0.00	0.00
Job List	10216	4	0.0	0.01	0.0	0.00	0.01	0.02	0.00	0.00	0.00
Inventory Put-away List	7322	1	0.0	0.61	0.6	0.01	0.60	0.60	0.00	0.01	0.01
Vendor Purchase Statistics	10107	1	0.0	0.77	0.8	0.01	0.76	0.76	0.00	0.00	0.00
Customer - Order Summary	107	1	0.0	1.08	1.1	0.02	1.08	1.08	0.00	0.01	0.01
378		71.1	11.29	62.5		71.11	11.29	62.53	0.01	0.00	0.03

SQL statistics

Report	Database Access	SQL rows	SQL statements	Dataset rows	Dataset row to sql row ratio	SQL row to statement ratio
Base Application	Read Only	910	1508	493	0.54	0.60
Base Application	Read Only	2	3	0	0.00	0.67
Base Application	Read Write	26512	14544	12799	0.48	1.82
	Read Write	2683250	9359	2680979	1.00	286.70
	Read Only	110028	252	109998	1.00	436.62

Session creation Pageviews Reports Long Running SQL Queries Long Running AL methods Incoming webservice calls Outgoing webservice calls Updates Perfomance Toolkit (BCPT) About the report Hidden

Analyzing errors

Easier troubleshooting of incoming web service errors

The screenshot shows the Dynamics 365 Business Central Errors page with several highlighted features:

- Improved filters on HTTP status codes**: A red box highlights the **Filters** pane on the right, which includes sections for **HTTP response type**, **HTTP status code**, and **HTTP status description**.
- Two new visuals that show HTTP status code view on errors**: Red boxes highlight two new visualizations:
 - Incoming web service call errors (endpoints)**: A table showing errors by endpoint and category.
 - Incoming web service call errors over the day - (UTC-06:00) Central Time (US & Canada)**: A histogram showing the count of errors per hour.

Incoming web service call errors (endpoints)

Endpoint / Category	4xx: Client Error	5xx: Server Error	Total
Navision_PlatformCore/ODataV4/Company/0/ItemSalesByCustomer	1	6	1
MS/ODataV4/Item_Journals_Excel/\$count	6	6	6
MS/ODataV4/Item_Journals_Excel	6	6	6
MS/ODataV4/Item_Card_Excel/\$count	3	3	3
MS/ODataV4/Item_Card_Excel	3	3	3
MS/ODataV4/ExcelTemplateViewCompanyInformation	1	1	1
Total	2473	9	2482

Incoming web service call errors (HTTP status codes)

Count	Endpoint	HTTP response type	HTTP status code	Description
3	MS/api/microsoft/runtime/beta/apiRoutes	4xx: Client Error	401	Unauthorized
5	MS/api/microsoft/runtime/beta/companies	4xx: Client Error	401	Unauthorized
5	MS/api/v2.0/companies	4xx: Client Error	401	Unauthorized
1	MS/api/v2.0/companies0/customers	4xx: Client Error	401	Unauthorized
1	MS/api/v2.0/companies0/salesInvoices	4xx: Client Error	401	Unauthorized
1	MS/api/v2.0/companies0/salesInvoices()	4xx: Client Error	401	Unauthorized
3	MS/api/v2.0/companies0/salesOrders	4xx: Client Error	401	Unauthorized
2482				

User Agents (which clients call the endpoints?)

User Agent	Count
["Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/113.0.0.0 Safari/537.36 Edg/113.0.1774.35"]	470
["Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36 Edg/112.0.1722.48"]	310
["Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36 Edg/112.0.1722.48"]	218
["Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36 Edg/112.0.1722.48"]	109%

New TSG in docs

The screenshot shows a Microsoft Learn page for Dynamics 365 Business Central. The top navigation bar includes links for Microsoft Learn, Documentation, Training, Credentials, Q&A, Code Samples, Assessments, and Shows. Below the navigation is a breadcrumb trail: Dynamics 365 Business Central > Get started > Guidance > Troubleshooting > Release plans > Support > Resources. A search bar labeled "Filter by title" is present. The main content area has a sidebar with sections for Integration, Web services, and General, each with several sub-links. The main article title is "Troubleshooting web service errors". It includes a "Feedback" link, a "In this article" section with links to "Web service telemetry" and "Troubleshooting OData/API calls", and a "See also" section. The main text discusses HTTP status codes and provides a table of common 4xx errors with suggested solutions. The "HTTP status code" column is highlighted with a red box.

Troubleshooting web service errors

Article • 08/22/2023 • 2 contributors [Feedback](#)

In this article

[Web service telemetry](#)
[Troubleshooting OData/API calls](#)
[See also](#)

When you call a web service endpoint, either a Business Central API or from AL using `Httpclient` datatype, you get an HTTP status code as part of the response. All HTTP status codes that start with 4 (sometimes also written 4xx) are classified as client errors and it is your responsibility to react on these errors and fix them in your code.

In the following table, we list some common 4xx HTTP status codes and suggestions to how to fix them:

HTTP status code	Short name	Description	Suggested solution(s)
400	Bad Request	This status code indicates that the server can't or won't process the request due to an error on the client side. For example, it could be a malformed request syntax, header too long, or missing required headers.	The client needs to fix things on their end. For an incoming call of category OData/API, consider using telemetry to find the error. You can also set up a debugger and debug the endpoint code. For an outgoing call, you need to review/debug the AL code that sends the request.

Troubleshoot web service calls – user agents and exceptions

BCTechdays 2023

Errors

Dashboard

Login errors

Error dialogs

Permission Errors

Error messages

Feature Errors

Environment lifecycle err...

Company lifecycle errors

Extension lifecycle errors

Email errors

Authentication (web serv...

Incoming webservice er... **→**

Connector errors

Outgoing webservice err...

Job Queue errors

Task Scheduler errors

Report errors

Go back

Object Details (in which object does the endpoint come from?)

Object Name / Id / Type	Count
Accountant Portal Finance Cues	5
Accountant Portal User Tasks	5
AccountantPortal Activity Cues	5
External Event Subscription	5
Total	20

App Details (in which app does the endpoint come from?)

Publisher / App (id) / Version	Count
Microsoft	15
Total	20

User Agents (which clients call the endpoints?)

User Agent	Count
["BusinessCentralCDSConnector/1.0.23060.1"]	5
Total	20

Filters

Which web service client experienced issues?

Failure Reasons

Count	Failure Reason	Diagnostics Message
5	Microsoft.Dynamics.Nav.Service.OData.NavODataBadRequestException	
15	Microsoft.Dynamics.Nav.Types.Exceptions.NavCSideException	While opening company 'My Company', the following error occurred: 'Preview versions are no longer available. To continue using %1, use a web client to open the company and accept the terms and conditions.' AL stack trace: "SaaS Log In Management"(CodeUnit 50).ShouldShowTermsAndConditions line 31 - Base Application by Microsoft "SaaS Log In Management"(CodeUnit 50).ShowTermsAndConditionsOnOpenCompany line 4 - Base Application by Microsoft "SaaS Log In Management"(CodeUnit 50).OnShowTermsAndConditionsSubscriber line 2 - Base Application by Microsoft LoginManagement(CodeUnit 40).OnShowTermsAndConditions(Event) line 2 - Base Application by Microsoft

Search

Trial: 58 days left

24

?

106%

New page: Web service metadata errors

The screenshot shows the Microsoft Extended Errors interface. A red arrow points to the 'Errors' link in the left sidebar, which is currently selected. Another red arrow points to the 'Webservice metadata er...' link in the same sidebar. The main content area displays the 'Web Service Metadata Errors' page. It includes a summary message about errors occurring when web service endpoints fail to publish or work correctly due to metadata creation issues. Below this is a table titled 'Web Service Metadata Errors by Environment' showing counts for common and Sandbox environments. To the right are three summary statistics: 5 WS Metadata Errors (All), 1 WS Metadata Error (Last 7 days), and 0 WS Metadata Errors (Since Yesterday). Further down is a table titled 'Web Service Metadata Errors by Error Type' showing counts for RT0039 and RT0035 events. A chart titled 'Web Service Errors by Error Type' shows a 80.00% to 20.00% split between Invalid Record and Invalid WebService Metadata categories. At the bottom is a table titled 'Webservice Metadata Error log' listing several error entries with timestamps, event IDs, error types, and metadata stacks.

Count	Domain	AAD Tenant Id	Environment Name
1		c17619aa-4729-4dbb-9bd8-07aa663d7fa6	Sandbox
4		common	
5			

Count	Event Id	Error type	Severity
1	RT0039	Invalid WebService Metadata	Error
4	RT0035	Invalid Record	Error
5			

timestamp	Event Id	Error type	Metadata stack
16/06/2023 09:01:06	RT0039	Invalid WebService Metadata	
16/06/2023 09:01:44	RT0035	Invalid Record	Record: 1314
16/06/2023 09:02:00	RT0035	Invalid Record	Record: 1315
16/06/2023 09:02:12	RT0035	Invalid Record	Record: 1544
30/06/2023 09:14:30	RT0035	Invalid Record	

Find web service endpoints
that fail at runtime and how to
fix them

Easier troubleshooting of outgoing web service errors

The screenshot shows the Dynamics 365 Business Central Errors page. A red arrow points from the left navigation bar to the 'Outgoing webservice errors' section. Another red arrow points from the bottom of the same section to a callout box.

Outgoing webservice call error statistics (endpoints)

Url / HTTP method	4xx: Client Error	Total
https://10052022-onbuyuka.myshopify.com	1	1
https://aibuildertextapiservice.us-il103.gateway.prod.island.powerapps.com	1	1
https://aibuildertextapiservice.us-il109.gateway.prod.island.powerapps.com	2	2
https://api.stripe.com	4	4
GET	4	4
Total	8	8

Outgoing webservice call error details (HTTP status codes)

Count	Url	HTTP Method	HTTP response type	HTTP status code	Description
1	https://10052022-onbuyuka.myshopify.com	DELETE	4xx: Client Error	404	Not Found
1	https://aibuildertextapiservice.us-il103.gateway.prod.island.powerapps.com	POST	4xx: Client Error	400	Bad Request
2	https://aibuildertextapiservice.us-il109.gateway.prod.island.powerapps.com	POST	4xx: Client Error	400	Bad Request
4	https://api.stripe.com	GET	4xx: Client Error	404	Not Found
8					

Web Service Errors by Error type

Error type
● 4xx: Client Error 100.00%

Web Service Errors by Http Method

HTTP Method
● DELETE 12.50%
● GET 50.00%
● POST 37.50%

Webservice errors over the Day - (UTC-06:00) Central Time (US & Canada)

0 5 10 15 20
2 4 2

Web Service Errors over the Week

0 2 4
Mon Tue Wed Thu Fri Sat Sun
2 2 2 2 2 2 2

Filters

HTTP response type is (All)
Filter type Basic filtering
Search
 Select all
 4xx: Client Error - T... 31
 5xx: Server Error - T... 12

HTTP scheme is (All)
Filter type Basic filtering
Search
 Select all
 https 24

HTTP status code is (All)
Filter type Basic filtering
Search
 Select all
 400 2
 404 5

Improved filters on HTTP status codes

Two new visuals that show HTTP status code view on errors

New page: Azure function errors

The screenshot shows the 'Azure function errors' page within the Dynamics 365 Business Central Errors module. A red arrow points to the 'Azure function errors' link in the left-hand navigation bar. Another red arrow points to the 'Azure function errors' section title on the main page.

Azure function errors by environment

Count	Domain	AAD Tenant Id	Environment Name
5226			
3085	47890f1b-d824-4ac6-8725-ad288e641414		Production
420	557cfb41-5806-4f8a-ac96-aa1e53bbaac		Sandbox
356	571ec60f-8b89-4e9f-a2ae-5a14513effa0		Sandbox
332	c39008c7-81a2-49a6-8064-632d29569680		Production
310	249b5b17-d30c-454e-b2a5-81771dd9af56		Sandbox
17262			

Azure function error statistics (hosts)

Host	4xx: Client Error	5xx: Server Error	Total
AL0000CTE.dk			2
AL0000D3L.dk	648	32	680
AL0000D6H.dk	610		610
AL0000E24.dk	2640	849	3489
AL0000E25.dk	2600	809	3409
Total	12769	4493	17262

Azure function error details (HTTP status codes)

Count	Host	HTTP response type	HTTP status code	Description

Tenant/Environment/Company

All

Azure function errors

All Last 7 days Since Yesterday

17K 8322 2244

Find errors happening in integrations to Azure functions

Azure function errors by error type

Error type	Percentage
Authorization failed	26.03%
Request failed	73.97%

Easier troubleshooting of email errors (using new SMTP error signal from 22.3)

The screenshot shows the Dynamics 365 Business Central Errors module. A red arrow points to the 'Email errors' link in the left sidebar. Another red arrow points to the 'Email errors by error type' chart, which is highlighted with a red box. A third red box highlights the 'Error Messages' section at the bottom left.

Email Errors by Environment

Count	Domain	AAD Tenant Id	Environment Name
400		cf3f7816-7707-4223-8fc1-8182edc65e8d	NewUI
168		47890f1b-d824-4ac6-8725-ad288e641414	Production
151			
95		cf3f7816-7707-4223-8fc1-8182edc65e8d	Companies215
92		cf3f7816-7707-4223-8fc1-8182edc65e8d	Companies200
29		249h5h17-d30c-454e-h2a5-81771dd9af56	Sandbox
1000			

Email errors by connector

Count	Connector
1000	SMTP
1000	

Error Messages

Count	Error text
332	Authentication to SMTP server failed
297	Connection to SMTP server failed
371	Failed to send email
1000	

Email errors by error type

Chart showing the distribution of error types:

- SMTP authentication: 33.20%
- SMTP connection: 29.70%
- SMTP email: 37.10%

Email errors over the Day - (UTC-06:00) Central Time (US & Canada)

Three new SMTP email error events added in 22.3. Showing them here.

Easier troubleshooting of job queue errors

The screenshot shows the Dynamics 365 Business Central Errors page with several visualizations and filter panels:

- New visuals showing non-retrieable job queue exceptions and recurring failing job queue entries**: A callout box highlights a chart titled "Job Queue Errors by Recurrence" which includes a donut chart showing 93.13% for "No" and 6.87% for "Yes".
- Improved filters to find problematic job queue entries**: A callout box highlights a sidebar titled "Retriable Exception is (All)" with options for "(Blank)", "False", and "True". It also shows a "Basic filtering" section for "Is recurring" and "Filter type".
- New visual showing non-retrieable job queue exceptions**: A callout box highlights a table titled "Job Queue Exception Statistics (can the job be retried?)". The table shows counts for False, True, and Total exceptions across various categories like NavCrmException, NavCSideException, etc.
- Other visualizations**: Includes "Job Queue Errors by exception severity" (98.64% for False), "Job Queue Errors over the Day - (UTC-06:00) Central Time (US & Canada)", and "Job Queue Errors over the Week".

Job Queue Errors – see Job Queue description

BC VAR app July 2023 update

Usage

Errors **→**

Dashboard

Login errors

Error dialogs

Permission Errors

Error messages

Feature Errors

Environment lifecycle err...

Company lifecycle errors

Extension lifecycle errors

Email errors

Authentication (web serv...

Incoming webservice err...

Connector errors

Outgoing webservice err...

Job Queue errors **→**

← Go back

Object details (in which object does the error come from)

Object Name / Id / Type / Description	Count
Integration Synch. Job Runner	934
5339	934
Codeunit	66
CONTACT - Dataverse synchronization job.	66
CUSTOMER - Dataverse synchronization job.	66
SHIPMENT METHOD - Dataverse synchronization job.	66
VENDOR - Dataverse synchronization job.	66
ITEM-PRODUCT - Dynamics 365 Sales synchronization job.	55
PAYMENT TERMS - Dataverse synchronization job.	55
Total	1324

Job Queue Error Statistics

Exception	False	True	Total
NavCrmException	1	1220	1220
NavCSideException	38	17	55
NavCSideRecordNotFoundException	1		1
NavNCLDialogException	36		36
NavNCLDotNetInvokeException	2		2
NavNCLInvalidTypeException	1		1
NavSqlException	8		8
Total	1	1306	17
			1324

Job Queue Errors over the Week

Day	Count
Mon	33
Tue	6
Wed	239
Thu	33
Fri	344
Sat	5
Sun	16

Job Queue Descriptions are now emitted to telemetry

Job Queue Error Details

Exception	Retriable Exception	Task Id	Object Id	Object Type	Object Description	
4c8d8b7e6d9	NavCrmException	False	005acf2e-c525-422c-9815-ba5514e6477d	5339	Codeunit	SHIPPING AGENT - Dataverse synchronization job.
4c8d8b7e6d9	NavCrmException	False	022d1a87-f68d-4d6c-855a-a95775607774	5339	Codeunit	SHIPPING AGENT - Dataverse synchronization job.

Job queue errors: Now shows job queue entries that are stopped by the platform

The screenshot shows the Dynamics 365 Business Central Errors report interface. A red arrow points to the 'Job Queue errors' link in the left sidebar. The main content area displays various error statistics and a detailed view of job queue entries.

Job Queue Errors by Exception:

Exception	Percentage
(Blank)	38.04%
NavCrmException	45.77%
NavCSideDuplicateKeyException	13.88%

Job Queue Errors by Recurrence:

Is recurring	Percentage
No	49.76%
Yes	50.24%

Object details (in which object does the error occur):

Object Name / Id / Type / Description	Count	Total
Integration Synch. Job Runner	5339	1254
Codeunit	36	36
CONTACT - Dataverse synchronization job.	36	36
CUSTOMER - Dataverse synchronization job.	3	3
VENDOR - Dataverse synchronization job.	3	3
ITEM UOM - Dynamics 365 Sales synchronization job.	3	3
ITEM-PRODUCT - Dynamics 365 Sales synchronization job.	3	3
Total	1254	70

A tooltip provides information about failed job queue entries:

A job queue entry can fail a single time and then fail again to be retried (see event AL0000HE7). The failure might be to an exception that deems the job queue entry non-retriable (join event AL0000E26 to task scheduler telemetry to explore).

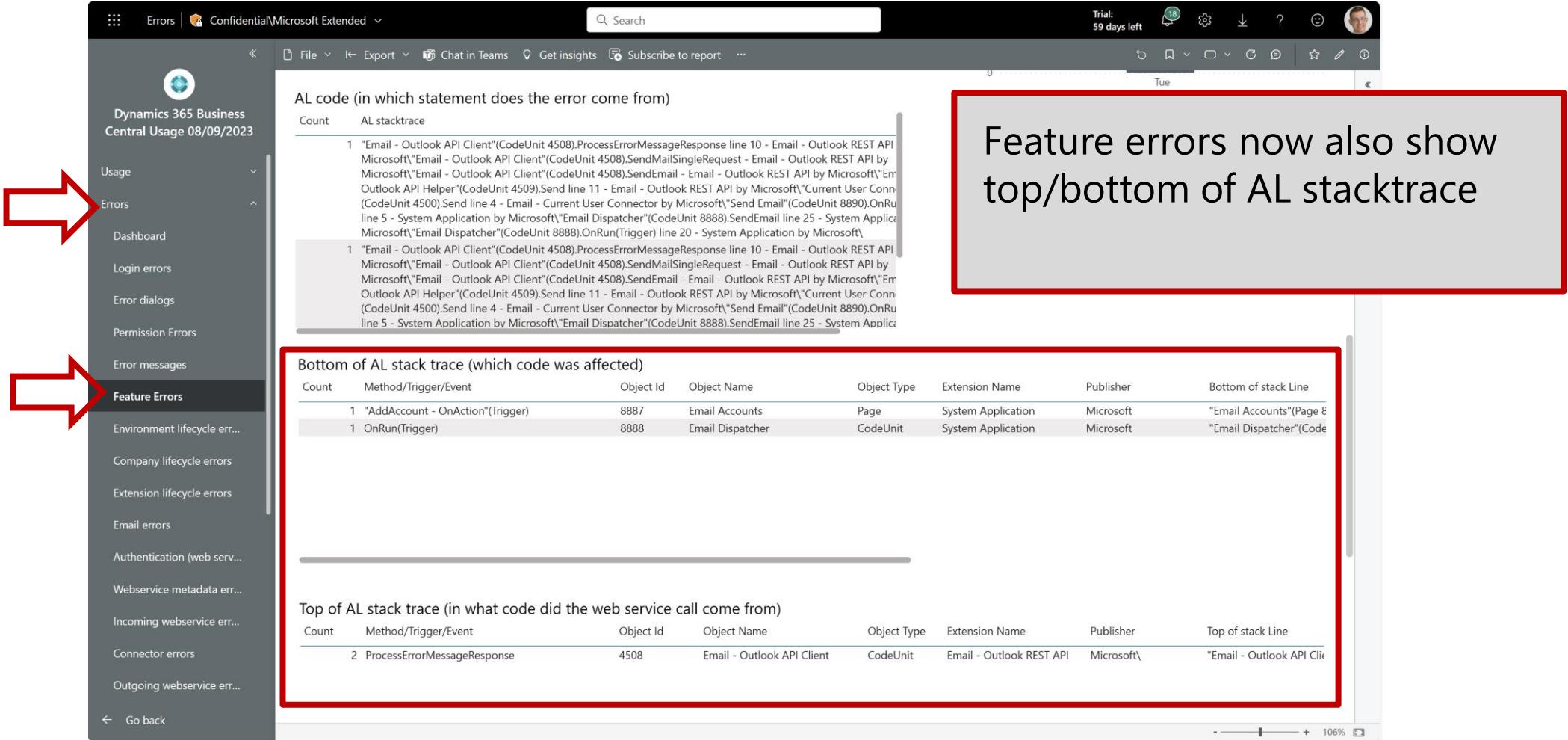
The job queue entry might be stopped after a failure, either because it cannot be retried or because the max number of retries has been reached (see event AL0000RG).

Job Queue Exception Statistics (can the job be retried?):

Exception	False	True	Total
NavCrmException	2	477	477
NavCSideDuplicateKeyException	8	8	8
NavCSideException	556	18	574

Find job queue entries that repeatably fail and are then stopped by the platform

Easier troubleshooting of feature errors



The screenshot shows the Dynamics 365 Business Central Errors page. A red arrow points to the 'Feature Errors' link in the left sidebar. Another red box highlights the 'Top of AL stack trace' table, which contains the following data:

Count	Method/Trigger/Event	Object Id	Object Name	Object Type	Extension Name	Publisher	Top of stack Line
2	ProcessErrorMessageResponse	4508	Email - Outlook API Client	CodeUnit	Email - Outlook REST API	Microsoft	"Email - Outlook API Client"(CodeUnit 4508).ProcessErrorMessageResponse line 10 - Email - Outlook REST API

A large red box also highlights the 'Bottom of AL stack trace' table, which contains the following data:

Count	Method/Trigger/Event	Object Id	Object Name	Object Type	Extension Name	Publisher	Bottom of stack Line
1	"AddAccount - OnAction"(Trigger)	8887	Email Accounts	Page	System Application	Microsoft	"Email Accounts"(Page 8887).OnAction()
1	OnRun(Trigger)	8888	Email Dispatcher	CodeUnit	System Application	Microsoft	"Email Dispatcher"(CodeUnit 8888).OnRun()

A callout box with a red border and a black arrow points to the top of the 'Bottom of AL stack trace' table, containing the text: "Feature errors now also show top/bottom of AL stacktrace".

On all error pages: green banner shown if no data

The screenshot shows the 'Connector Errors' page in the Dynamics 365 Business Central application. A red arrow points from the left margin to the top banner area, which contains the text: 'No data available to show here, so visuals are empty (this is great, no connector errors!)'. Another red arrow points from the bottom margin to the 'Connector errors' item in the navigation sidebar.

Connector Errors

Tenant/Environment/Company
All

No data available to show here, so visuals are empty (this is great, no connector errors!)

Connector call errors by environment

All Last 7 days Since Yesterday

If no data is present on an error page, we now show a green banner

Connector call error statistics (connectors)

Connector	Total
Total	

Connector errors by connector

Connector call error statistics (endpoints)

Endpoint / Category	Total

Go back

Coming soon (23.0
and later)



Changelog lifecycle events (23.0/23.1)

Get an event whenever a table/field is added/removed from the changelog configuration.

Allows you to setup alerts on the situation that an administrator by mistake cause a performance problem by setting up changelog non-optimally.

PTE upload validations (23.0/23.1)

Get an event whenever a PTE is uploaded in the client.

Allows you to setup alerts on the situation that someone is installing PTEs on an environment.

PTE validations against next major (23.0/23.1)

Get an event whenever a PTE is validated (compiled) on the next major of Business Central.

Allows you to setup alerts on the situation that the environment is blocked for update due to incompatible PTEs.

Business Events **(23.0/23.1)**

Get events for the new Business Event feature
in Business Central.

Tips and tricks



New page: Onboarding

The screenshot shows a Microsoft Dynamics 365 Business Central Usage report for May 07, 2023. The left sidebar has a red arrow pointing to the 'Onboarding' option under the 'Usage' category. The main content area displays a table titled 'Onboarding Events' with the following data:

When	Domain	AAD Tenant Id	Environment Name	Company name	Event	Criteria	Start date	End date	Who (User te)
12/06/2023 06:00:41		4684f4a0-78df-4764-9e22-a4ec5f623df1	Production	My Company	Company onboarding started	Company	06/12/23	N/A	0b74f53d-b9
12/06/2023 10:16:22		571ec60f-8b89-4e9f-a2ae-5a14513effa0	Production	My Company	Company onboarding started	Company	06/12/23	N/A	7f0b8706-66
12/06/2023 05:31:34		c079a288-86e9-4b48-9d60-29835b26375c	Production	My Company	Company onboarding started	Company	06/12/23	N/A	4db5a22d-54
12/06/2023 07:33:17		c39008c7-81a2-49a6-8064-632d29569680	Production	My Company	Company onboarding started	Company	06/12/23	N/A	470f8f60-0de
12/06/2023 09:24:20		c39008c7-81a2-49a6-8064-632d29569680	Production	New Company	Company onboarding started	Company	06/12/23	N/A	470f8f60-0de
12/06/2023 09:24:20		c39008c7-81a2-49a6-8064-632d29569680	Production	New Company	Onboarding criteria started	Purchase Invoice	06/12/23	N/A	470f8f60-0de
12/06/2023 09:24:20		c39008c7-81a2-49a6-8064-632d29569680	Production	New Company	Onboarding criteria started	Sales Invoice	06/12/23	N/A	470f8f60-0de
12/06/2023 09:24:20		c39008c7-81a2-49a6-8064-632d29569680	Production	New Company	Onboarding criteria started	Customer Payments	06/12/23	N/A	470f8f60-0de
12/06/2023 09:24:20		c39008c7-81a2-49a6-8064-632d29569680	Production	New Company	Onboarding criteria started	Vendor	06/12/23	N/A	470f8f60-0de
12/06/2023 08:41:30		da3c6918-ae74-42cf-933f-a							3d5620d1-6a

A red box highlights the last row of the table, and a callout bubble contains the text: 'See how environments start and finish onboarding criteria'.

ISVs can see the major version of Business Central for their install base

Administration | Confidential\Microsoft Extended

BC ISV app Sept 2023 update

Usage Errors Performance Administration **Inventory** Upgrade flows Appsorce validations Extension lifecycle Index Changes BCCContainerHelper AL Go Data in Telemetry Configuration About the report

File Export Chat in Teams Get insights Subscribe to report ...

Error Messages with Recommendations Essential Business Headlines FI 2-Part Trade Purchase Total 1314

Search Trial: 59 days left

Installs by Environment Type

EnvironmentType... Production Sandbox

53.73% 46.27%

Filters

Major version

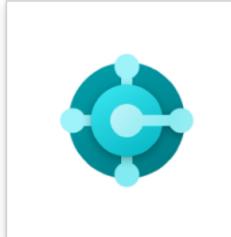
Installs	Domain	AAD Tenant Id	Environment Type	Environment Name	Major version
8		01083fa8-8166-4e41-a425-966935dc77b6	Production	Production	22
11		01083fa8-8166-4e41-a425-966935dc77b6	Sandbox	Sandbox	22
8		061be513-9e9b-4355-bb1f-ff3c94418187	Production	Production	22
10		095052a2-9876-40ea-8970-c3fa01367c3a	Production	Production	22
10		095052a2-9876-40ea-8970-c3fa01367c3a	Sandbox	Sandbox	22
3		097b0a64-e0c9-494e-8677-cf325396159	Production	Production	22
10		09b3a0b3-1a28-4cab-86de-4eb1bbac26ca	Production	Production	22
9		09b3a0b3-1a28-4cab-86de-4eb1bbac26ca	Sandbox	Sandbox	22
12		0e5fc8c7-8061-4a89-a278-84d40930b9f9	Production	Production	22
10		0e5fc8c7-8061-4a89-a278-84d40930b9f9	Sandbox	Sandbox	22
					22
					22
					22

Inventory report now shows major BC version for environments where your app(s) are installed

Resources

(I want it and I
want it now)

**Install/update from
Appsource
(available now)**



Dynamics 365 Business Central Usage Analytics
by Microsoft
 Power BI apps
★ 5.0 (18 ratings)

Pricing **Free** **Get it now**  Save to my list

[Overview](#) [Ratings + reviews](#) [Details + support](#)

 Marketplace ratings
★ 5.0 (18 ratings)

Your review
[Write a review](#)

Rating	Percentage
5 stars	(100%)
4 stars	(0%)
3 stars	(0%)
2 stars	(0%)
1 stars	(0%)



Dynamics 365 Business Central App Usage Analytics
by Microsoft
Power BI apps
★ 5.0 (1 ratings)

Pricing Free Get it now Save to my list

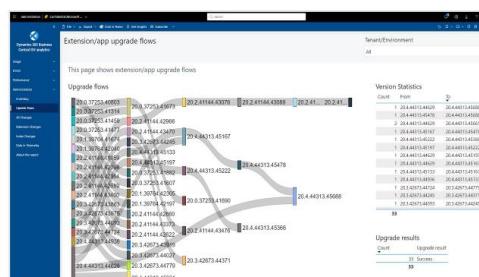
Install/update from Appsource (available now)

Overview Ratings + reviews Details + support

Visualize Business Central app usage: user traffic, errors, performance, and administration.

Visualize different aspects of a Dynamics 365 Business Central app usage: user traffic, errors, performance, administration overview (including changes), and more. Explore and monitor key system metrics in Power BI by connecting to your Dynamics 365 Business Central telemetry data. With Business Central App Usage Analytics, you get a Power BI dashboard and report with insights about how users use your app, which errors occur, recommendations for performance tuning, and an administrator's overview (including which changes happen and when). Use the dashboard and reports as provided or customize them to highlight the information you care about most. Note that this app is for per-app telemetry, not per-environment telemetry.

At a glance



The screenshot shows the Microsoft Dynamics 365 Business Central interface. At the top, there's a navigation bar with links like 'Dynamics 365 Business Central', 'Discover', 'Content', 'Monitoring', 'Release plan', 'Support', and 'Feedback'. Below the navigation bar is a sidebar with a 'Filter by title' search bar. The sidebar menu includes 'Development and administration', 'New and planned', 'Get started', 'Administration' (which is expanded), 'Administration overview', 'Understand Business Central online', 'Admin center', 'Entitlements and permissions', 'Prepare Business Central', 'Onboard your customers', 'Monitor and analyze telemetry' (which is expanded), 'Overview', 'Available telemetry', 'Enable telemetry', 'Control telemetry cost', 'Analyze telemetry with Power BI' (which is highlighted with a red box and a red arrow pointing to it), 'Analyze telemetry with KQL', and 'Alert on telemetry'. To the right of the sidebar, the main content area shows a breadcrumb trail: '… / Developer and Admin / Administration / Monitor and analyze telemetry /'. The main title is 'Analyze and Monitor Telemetry with Power BI'. Below the title, it says 'Article • 04/14/2023 • 4 contributors' and a 'Feedback' link. A section titled 'In this article' contains links: 'About the reports in the app', 'Get the apps', 'Connect to Azure Application Insights for the first time', 'Configure an app after initial setup', 'Install, share, and update apps', 'Share the app with coworkers and others', 'Use the app', and 'No-code alerting with Power BI Metrics'. A 'See also' section and a 'Show less' button are also present. The entire 'In this article' section is enclosed in a red box.

Analyze and Monitor Telemetry with Power BI

Article • 04/14/2023 • 4 contributors [Feedback](#)

In this article

- [About the reports in the app](#)
- [Get the apps](#)
- [Connect to Azure Application Insights for the first time](#)
- [Configure an app after initial setup](#)
- [Install, share, and update apps](#)
- [Share the app with coworkers and others](#)
- [Use the app](#)
- [No-code alerting with Power BI Metrics](#)

See also

Show less

To make it simple to analyze Business Central telemetry, we've developed two Power BI apps available from Microsoft AppSource. One app is for telemetry on environments. The other one is for

Filter by title

- Development and administration
- New and planned
 - > Get started
 - > Administration
 - Administration overview
 - > Understand Business Central online
 - > Admin center
 - > Entitlements and permissions
 - > Prepare Business Central
 - > Onboard your customers
 - > Monitor and analyze telemetry
 - Overview
 - Available telemetry
 - Enable telemetry
 - Control telemetry cost
 - Analyze telemetry with Power BI
 - Analyze telemetry with KQL
 - Alert on telemetry
 - Telemetry FAQ

KQL walkthrough example - understand report usage New

This walkthrough will guide you step by step to create a kusto (KQL) query to analyze how users use reports in a Business Central environment. You will start with a sample query from the documentation article for report telemetry. Then you will step by step change and refine the query, learning about important KQL operators along the way. The final result will show you data for the most frequently used reports, grouped by the app/extension they are from, what users did with the report (download/preview/print/...), as well as, which layout (Excel/Word/RDLC) that was used.

About this walkthrough

This walkthrough covers the following tasks:

1. Choose a query tool for KQL, either the **Logs** part of the **Monitoring** menu in Application Insights in the Azure portal, or in Kusto.Explorer (see [Kusto.Explorer installation and user interface](#)).
2. Get a sample query (in this example, we use the sample query for report renderings)
3. Limit the result rows by adding a **take** operator
4. Limit the result columns by removing lines from the **project** operator
5. Add a **summarize** operator and learn gotchas about the dynamic datatype **customDimensions**
6. Add group by parts to the **summarize** operator
7. Rename columns in the result
8. Add an **order by** to see the most frequent reports first

No-code alerting with Power BI Metrics

 Filter by title

Development and administration

New and planned

> Get started

Administration

Administration overview

> Understand Business Central online

> Admin center

> Entitlements and permissions

> Prepare Business Central

> Onboard your customers

✓ Monitor and analyze telemetry

Overview

Available telemetry

Enable telemetry

Control telemetry cost

Analyze telemetry with Power BI

Analyze telemetry with KQL

Alert on telemetry

> Telemetry by area

If you use the Power BI app on telemetry data, it is very easy to track the metrics that are important to you.

With metrics in Power BI, you can curate your own metrics and track them against key business objectives, in a single pane. This feature enhances data culture by promoting accountability, alignment, and visibility for teams and initiatives within organizations.

Follow this simple four-step process to setup alerting with Power BI Metrics

1. First, you need to create a scorecard in the Power BI service. See [Create scorecards in Power BI](#)
2. Then simply add the *metrics* you want to track by connecting to your Power BI report on telemetry, see [Create connected metrics](#)
3. To add alerting, define status rules for your metrics. This will automate status updates based on rules that govern that metric. Rules trigger changes based on value, percentage of target met, date conditions, or a combination of the three, making the rules as versatile as possible. For connected metrics, these status rules are refreshed every time the data in your scorecard is refreshed. For more information, see [Create automated status rules for metrics](#)
4. Finally, follow metrics to get alerts in Teams or by email, see [Follow your metrics](#)

For more information about Power BI Metrics, see [Get started with metrics in Power BI](#)

Low-code alerting with KQL

When defining an alert based directly on telemetry, you need to define two things:

Go dos

Enable telemetry

Deploy an Azure Application Insights resource.

Add to environment
(also works for on-premises)

Install Power BI apps

Requires Power BI pro license.

Give you easy insights into usage, errors, performance, and changes to the environment.

Setup alerts

Use no-code approach with Power BI metrics.

or

Use low-code approach with LogicApps or Power Automate flows.

Get data-driven

Use data to take decisions in every part of your partner practice:

Pre-sales
Go-live
Operations
Support
Ongoing sales

Watch other relevant launch event sessions



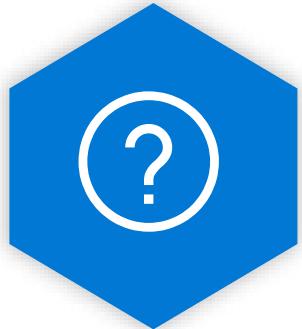
What's new: Creating customer centric onboarding experiences



Performance testing before go-live with Performance Toolkit

General Business Central resources, learn more!

Join the
conversation
[twitter.com/
MSDyn365BC](https://twitter.com/MSDyn365BC)



Have a
question?

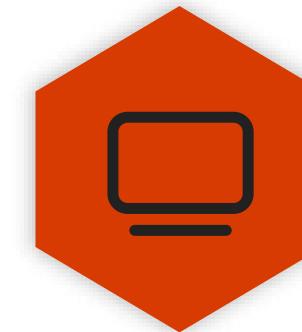
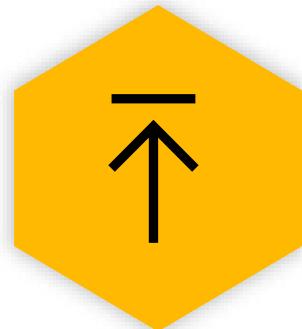
aka.ms/BCYammer



Looking for
resources?

aka.ms/BCAll

Submit
your ideas
aka.ms/BCIdeas



Join the office
hours

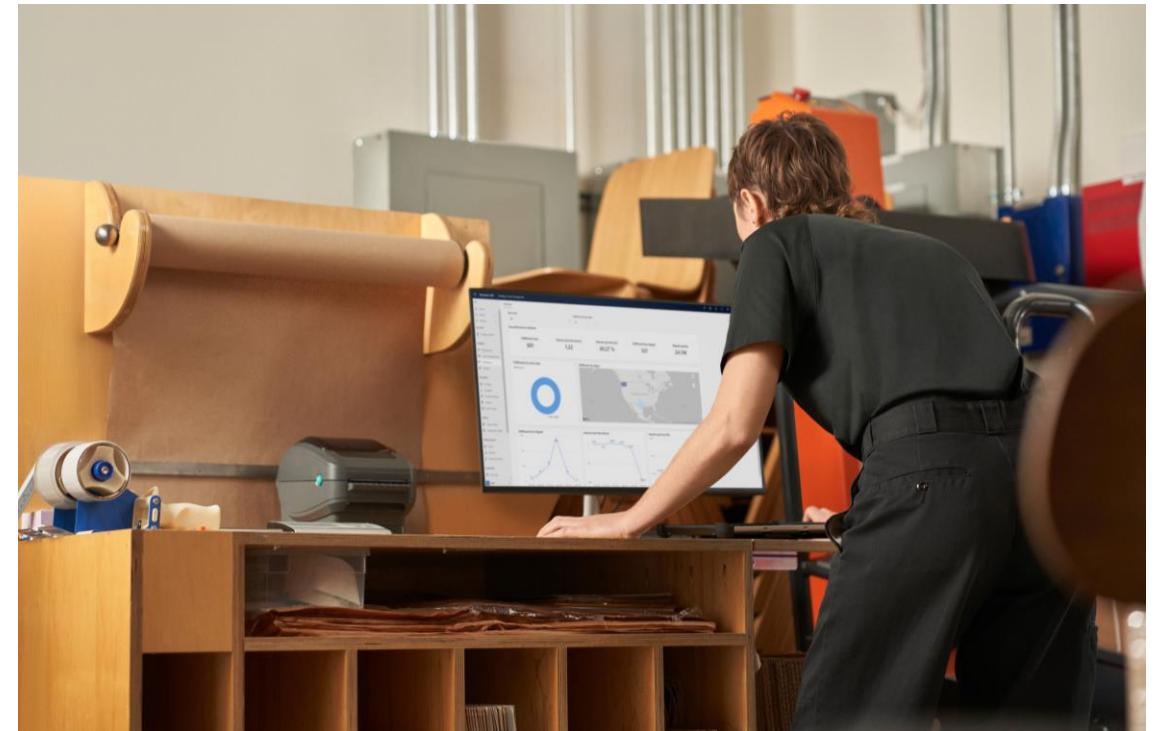
aka.ms/BCOfficeHours

Thank you

Watch other relevant launch event sessions



What's new: Creating customer centric onboarding experiences



Performance testing before go-live with Performance Toolkit