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Breaking into the Benefits of Telemetry for BC

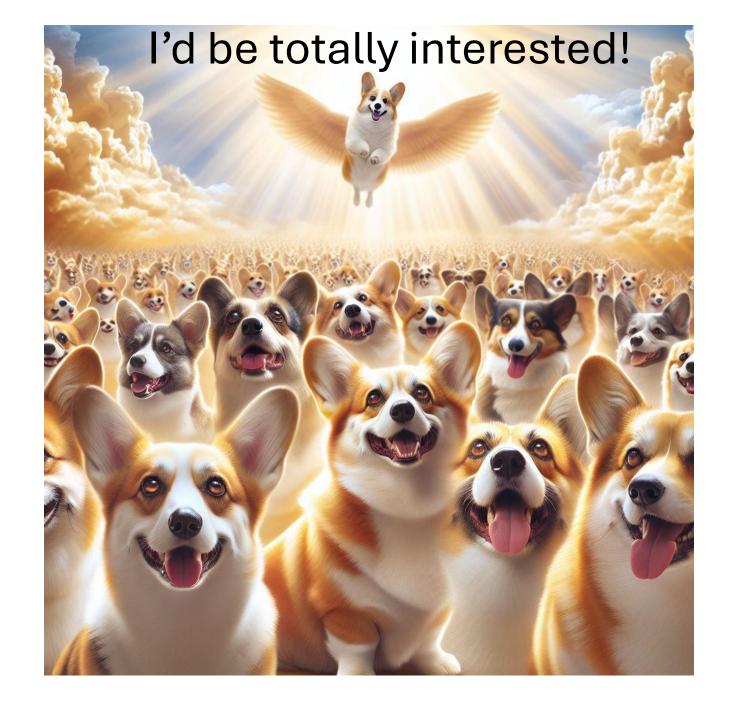


20 Dashboards and Reports for Beginners

Wouldn't it be nice if.....

- You could confirm what features, reports, etc. are <u>actually being used</u> in BC
- You could <u>troubleshoot performance</u> issues more easily
- You could <u>set alerts to advise</u> of adverse conditions
- You could easily monitor changes and validations
- You had a database error and performance <u>dashboard</u>
- You could see metrics about and <u>troubleshoot customizations</u> (v26)
- You could know when <u>Financial Reports are changed</u> (v26)
- You could <u>review performance</u> issues when migrating to the cloud (e.g. from on-prem)
- You could <u>see things you thought you would never know about BC?!</u>









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Director of Software Solutions













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- https://www.gravoc.com/power-bi-solutions/
- https://www.thedynamicsmindset.com

LinkedIn: https://www.linkedin.com/in/david-laster-gp-bc-pbi/

Background & Experience:





More than 25 years of Accounting and Dynamics Implementation, Installation, Upgrade, Training and Support Experience



Familiar with each of the past 20+ releases of Dynamics GP



Completed well over 350+ upgrades / installations / implementations



Author – Management Reporter for MS Dynamics GP (Accolade Publications)



Power BI Change Agent at our own company and with our customers



Managing GP-to-Business Central Cloud Migrations



Managing Bullhorn One-to-Dynamics GP and Business Central Connectors and AR/AP Automation



Love to dig in and add real value to end users!



Session Description

 This introductory session will cover how and where to get started with BC Telemetry reporting with Power BI.

• We'll view reports and discuss key approaches to uncovering helpful information living inside BC that will help administrators, implementation specialists, and developers understand more of what is happening inside the system.



Who can use BC Telemetry?

Partners

Administrators

End Users

(Microsoft has its own)



What is BC Telemetry?

Usage Data from Business Central

Application Insights (Azure resource as data repository)

Power BI Apps (as reporting agent)



When to Use BC Telemetry?

End-User Training

User-Acceptance Testing

Extension Development and Testing

Post Go-Live



Where to use BC Telemetry?

Production

Sandboxes

On-Prem and Cloud

Power BI Service



Why Use BC Telemetry?

Usage Reporting

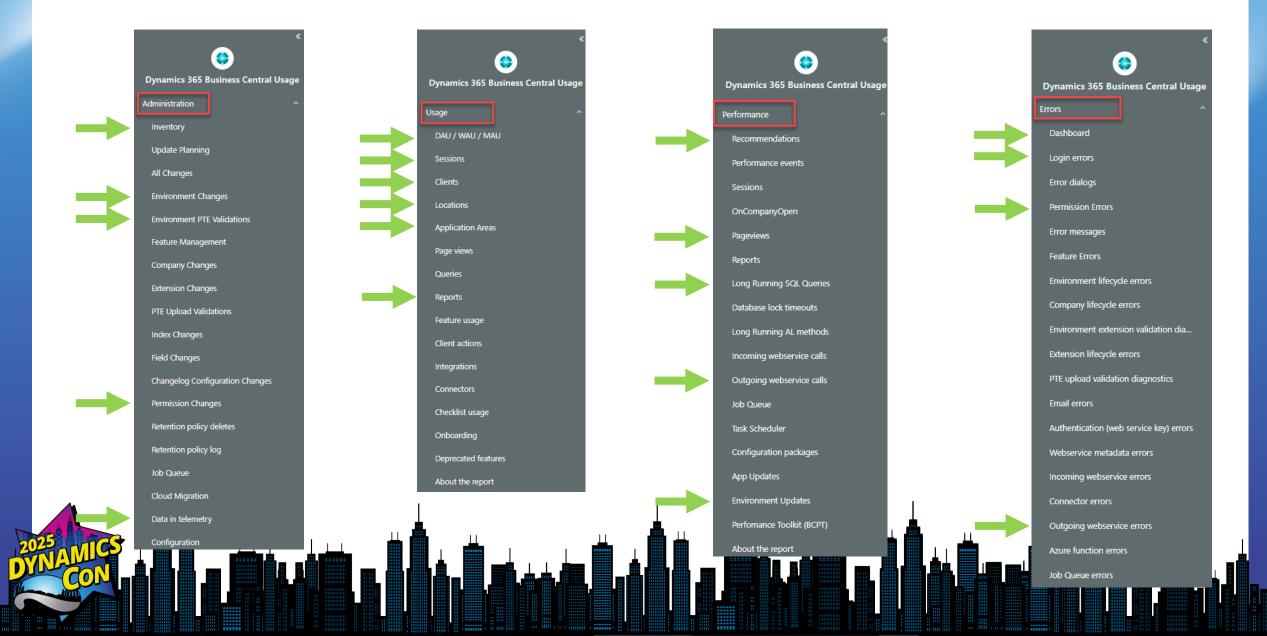
Error Reporting

Performance Analysis

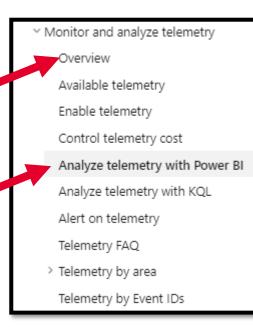
Change Monitoring

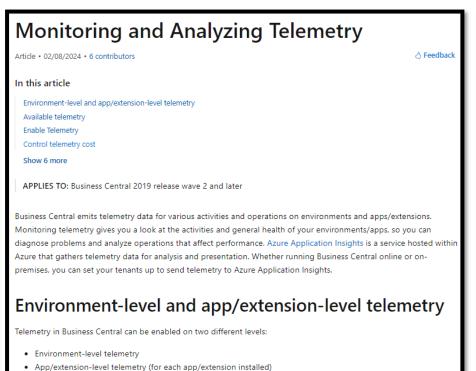


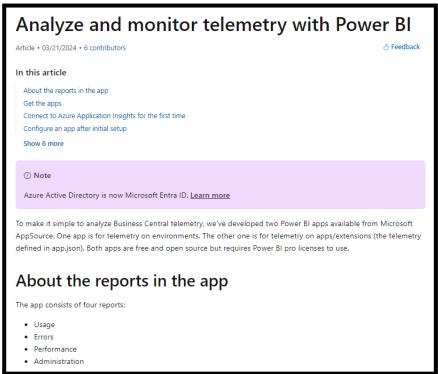
BC Telemetry – Usage Analytics



Power BI – Telemetry for BC







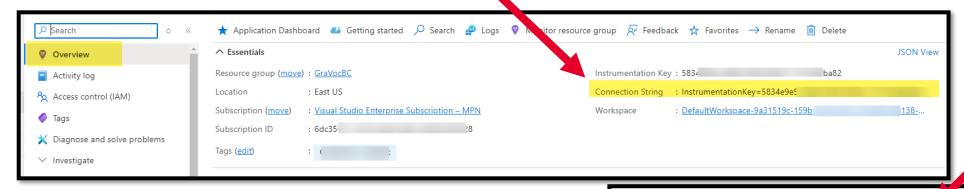


Application Insights





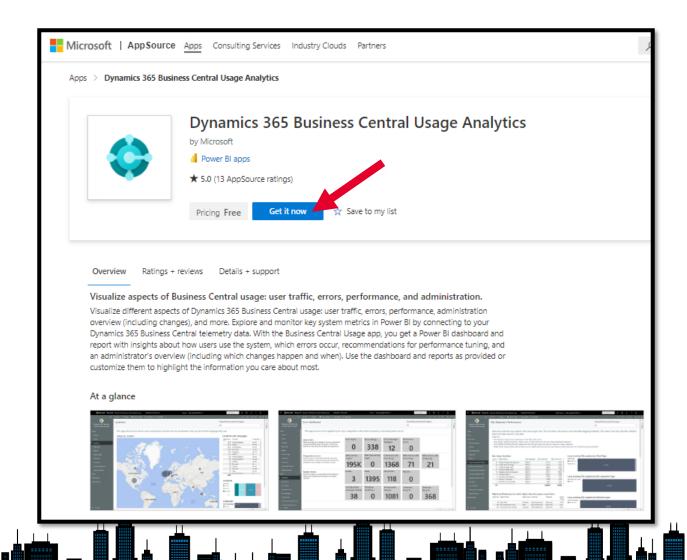




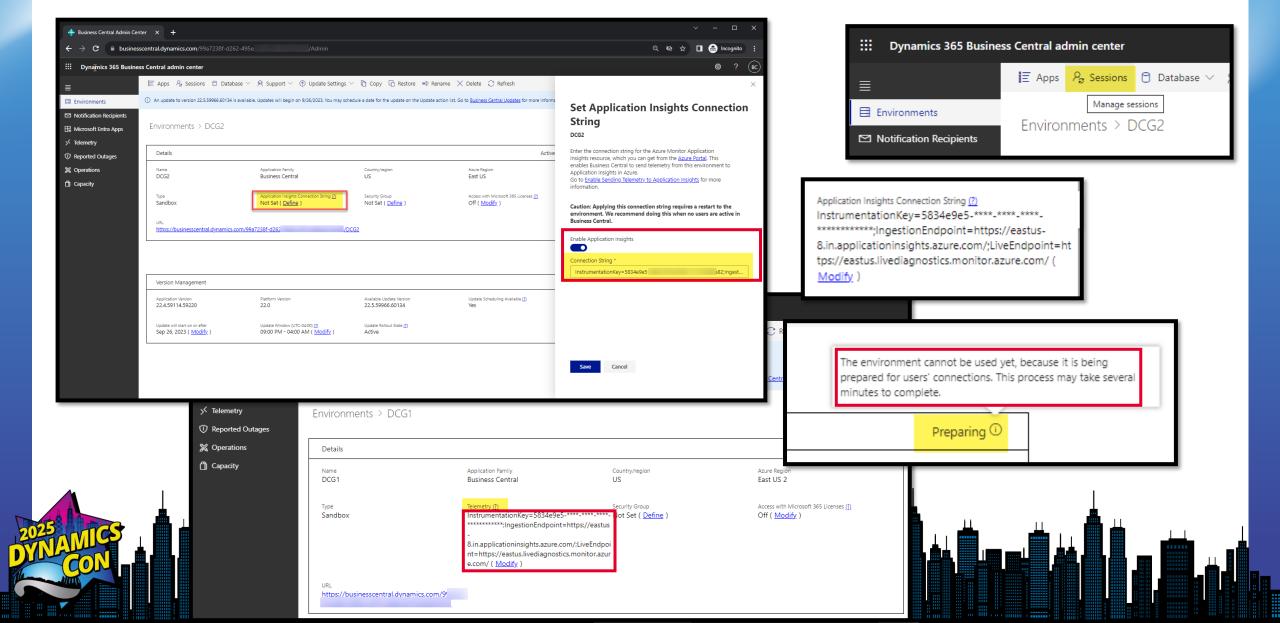
Application Insights App ID (For Power BI)

Overview Application ID ① Activity log Access control (IAM) API key description Last Used Tags No data to display. Diagnose and solve problems Investigate Monitorina Usage ∨ Configure Properties Smart detection settings Network Isolation Usage and estimated costs

AppSource Usage App

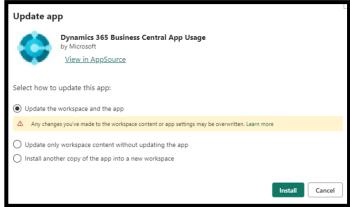


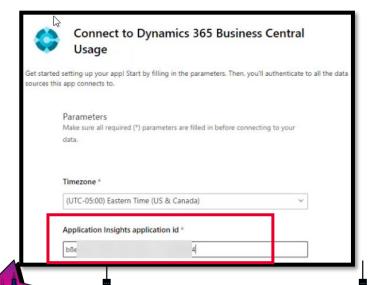
Business Central - Connection String

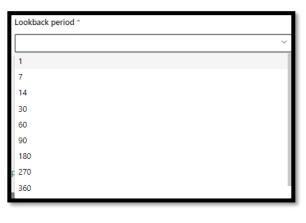


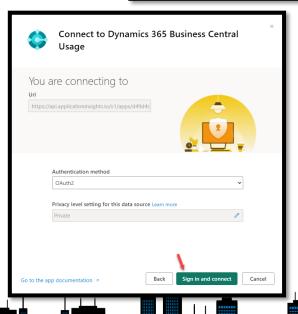
Power BI App – Application ID











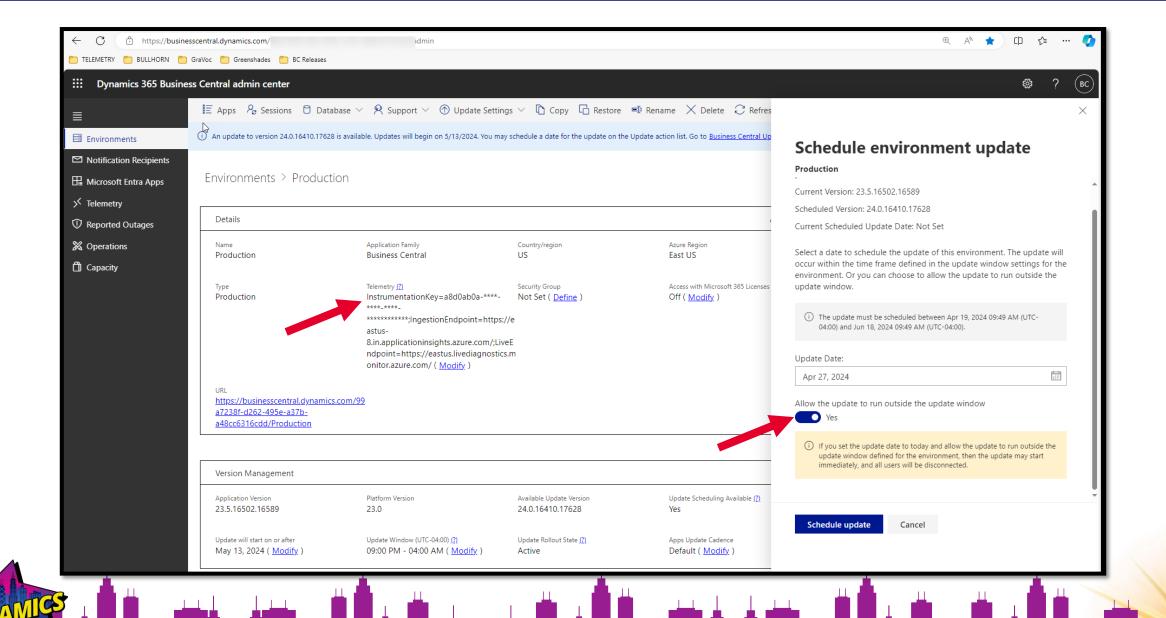
Connect with a user from the domain where the Application Insights application ID originated

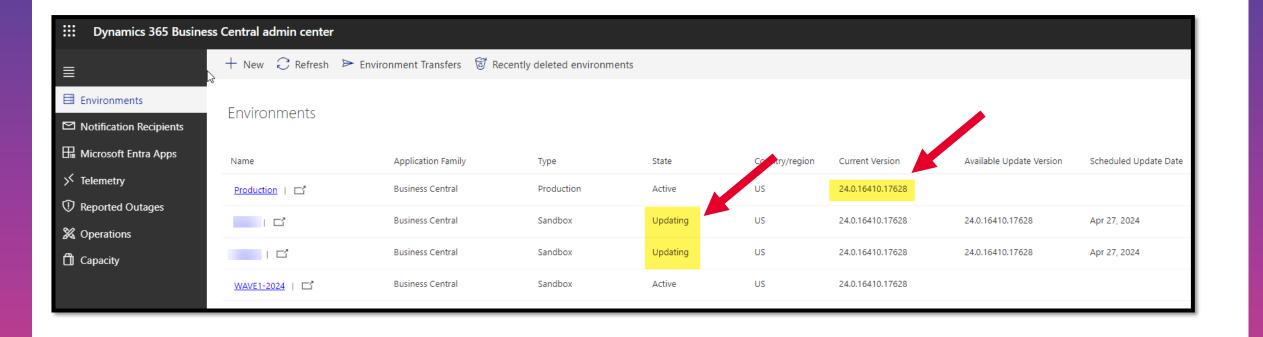
Performance and Admin

BC Upgrade Telemetry

Wave 1 2024

23.5 to 24.0







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Production has been updated to version 24.0 successfully

The environment Production has been updated to version 24.0 of Dynamics 365 Business Central successfully. Sign in to the environment to verify the update and check out the new capabilities.

Keep track of what's new in each monthly update and get an overview of release plans for Dynamics 365 Business Central.

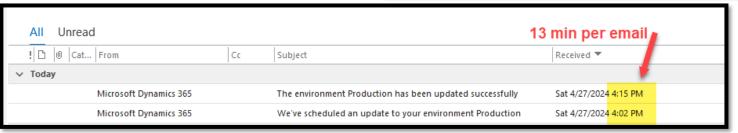


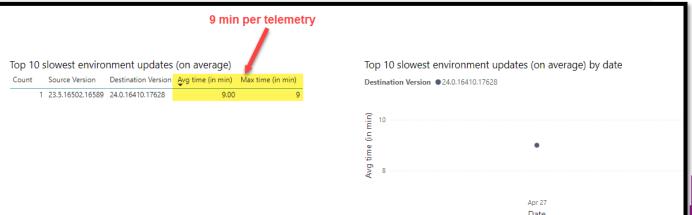
The update for environment DCG1 failed

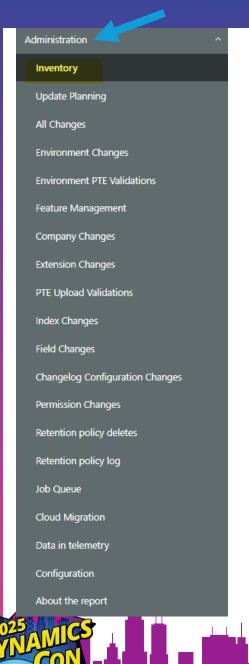
The scheduled update to Dynamics 365 Business Central version 24.0 for environment DCG1 failed.

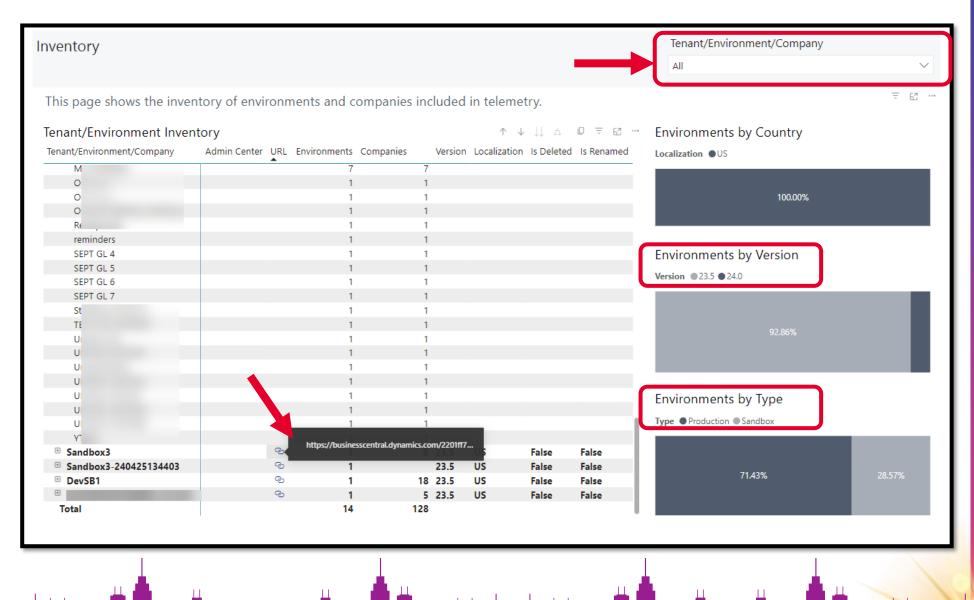
Find more details on the failure reason on the Operations page in the Dynamics 365 Business Central admin center.

We'll automatically reschedule your environment to be updated in seven days. You'll receive a separate message confirming that your update has been rescheduled, after which you'll have the option to reschedule in the Dynamics 365 Business Central admin center.











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Environment PTE Validations

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Retention policy log

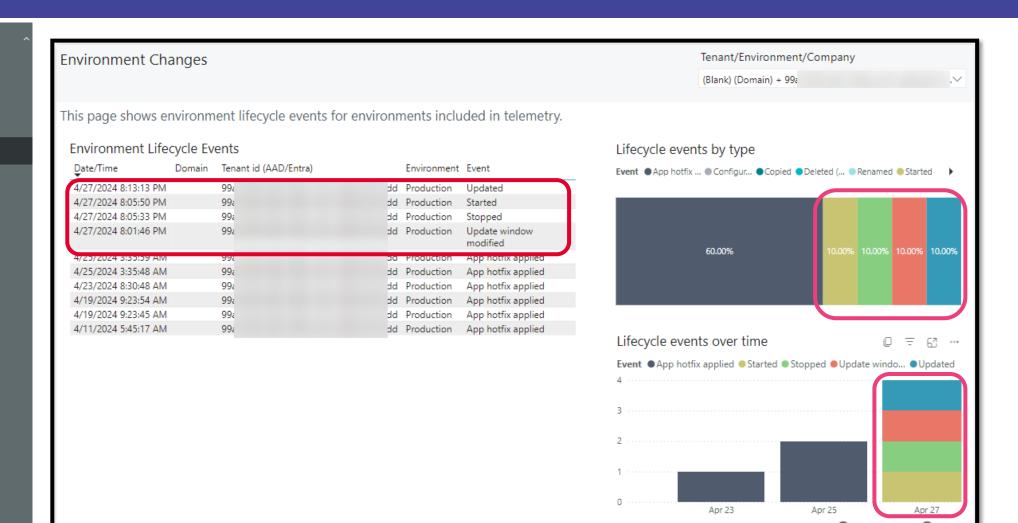
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Environment extension validations (only for the online version)



Tenant/Environment/Company

(Blank) (Domain) + 99a

This page shows validations of environments to see if their extensions are compatible with the next version of Business Central.

Environment extension validation events

Date/Time	Domain	Tenant id (AAD/Entra)	Environment	Event	Target version	Target build version
4/25/2024 5:50:01 AM		99	ld Production	Validation completed successfully	24.1	24.1.18897.0
4/25/2024 5:50:01 AM		99	ld Production	Validation started	24.1	24.1.18897.0
4/23/2024 5:49:50 AM		99	ld Production	Validation completed successfully	24.1	24.1.18789.0
4/23/2024 5:49:50 AM		99	ld Production	Validation started	24.1	24.1.18789.0
4/21/2024 5:51:55 AM		99	ld Production	Validation completed successfully	24.1	24.1.18727.0
4/21/2024 5:51:55 AM		99	ld Production	Validation started	24.1	24.1.18727.0
4/18/2024 5:50:36 AM		99	ld Production	Validation completed successfully	24.1	24.1.18643.0
4/18/2024 5:50:36 AM		99	ld Production	Validation started	24.1	24.1.18643.0
4/16/2024 5:51:45 AM		99	ld Production	Validation completed successfully	24.1	24.1.18546.0
4/16/2024 5:51:45 AM		99	ld Production	Validation started	24.1	24.1.18546.0
4/14/2024 5:47:43 AM		99	ld Production	Validation completed successfully	24.1	24.1.18488.0
4/14/2024 5:47:43 AM		99	ld Production	Validation started	24.1	24.1.18488.0
4/11/2024 5:48:53 AM		99	ld Production	Validation completed successfully	24.1	24.1.18354.0
4/11/2024 5:48:53 AM		99	ld Production	Validation started	24.1	24.1.18354.0
4/9/2024 5:57:39 AM		99	ld Production	Validation completed successfully	24.1	24.1.18268.0
4/9/2024 5:57:39 AM		99	ld Production	Validation started	24.1	24.1.18268.0
4/7/2024 5:50:43 AM		99	ld Production	Validation completed successfully	24.1	24.1.18209.0
4/7/2024 5:50:43 AM		99	ld Production	Validation started	24.1	24.1.18209.0
4/4/2024 5:50:33 AM		99	ld Production	Validation completed successfully	24.1	24.1.18104.0
4/4/2024 5:50:32 AM		99	Jd Production	Validation started	24.1	24.1.18104.0

Validation events by result

Result Validation completed successfully

Validation failures by version

100.00%

Inventory Update Planning All Changes **Environment Changes** Environment PTE Validations

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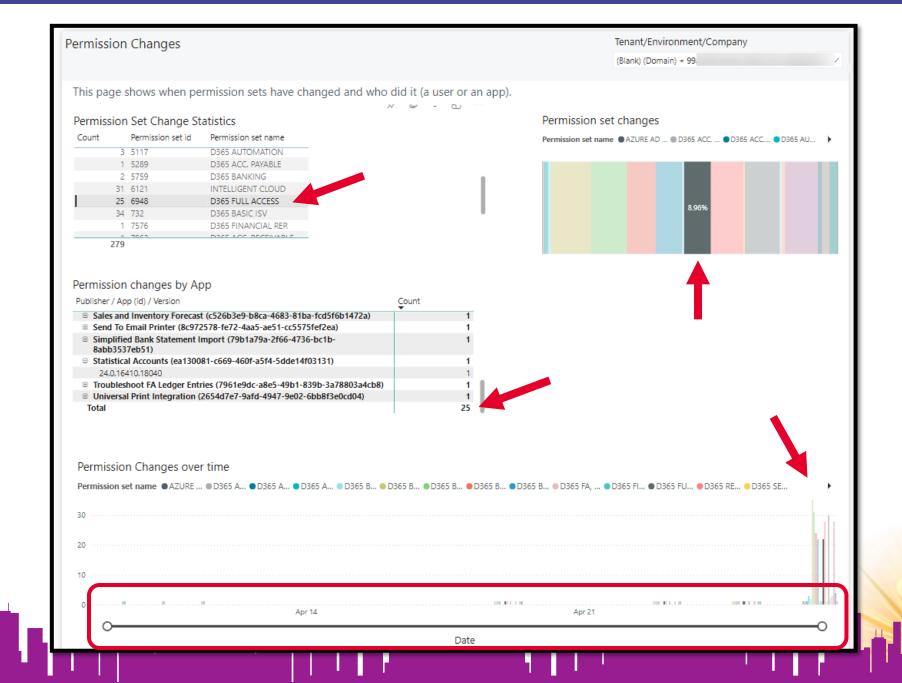
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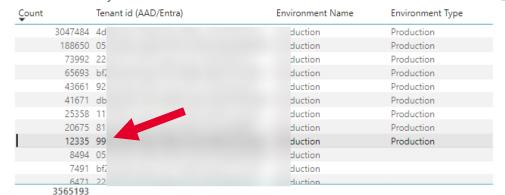
About the report

About the telemetry for this app

This page shows statistics on telemetry events from the different environments present in the telemetry resource. You can use the statistics to get an overview of usage patterns for the environments.

The app currently has data for the period Wednesday, April 3, 2024 till Saturday, April 27, 2024

Event statistics by environment



Statistics by Event

Count	Area	Sub Area	Event ID	Message
4268	Runtime telemetry	Authorization	RT0004	Authorization Succeeded (Open Company)
4089	Runtime telemetry	Performance	RT0026	Database wait statistics snapshot entry: {databaseWaitStatisticsCategory}
354	Lifecycle telemetry	Extension Lifecycle	AL0000EJ9	Upgrade tag searched for: {AlUpgradeTag}
331	Runtime telemetry	Authorization	RT0003	Authorization Succeeded (Pre Open Company)
321	Lifecycle telemetry	Task Scheduler	LC0040	Task {taskId} created: {codeunitObjectId} scheduled to run after {notBefore}. Ready to run: {isReady}
316	Lifecycle telemetry	Task Scheduler	LC0043	Task {taskId} main/failure codeunit {codeunitObjectId} completed.
306	Lifecycle telemetry	Job Queue Lifecycle	AL0000E24	Job queue entry enqueued: {alJobQueueld}
301	Lifecycle telemetry	Job Queue Lifecycle	AI 0000F25	Job queue entry started: {allobQueueld}

Event statistics by area

\$ □ = E ...

☐ Client telemetry ☐ Feature telemetry ☐ Usage ☐ Uptake ☐ AL telemetry ☐ Retention Policy ☐ Lifecycle telemetry ☐ Environment ☐ LC0100 ☐ LC0105	2 64 29 35 234
■ Usage ■ Uptake ■ AL telemetry ■ Retention Policy ■ Lifecycle telemetry ■ Environment LC0100	29 35
⊕ Uptake ⊜ AL telemetry ⊕ Retention Policy ⊕ Lifecycle telemetry ⊜ Environment LC0100	35
☐ AL telemetry ☐ Retention Policy ☐ Lifecycle telemetry ☐ Environment LC0100	
■ Retention Policy □ Lifecycle telemetry □ Environment LC0100	234
☐ Lifecycle telemetry ☐ Environment LC0100	
☐ Lifecycle telemetry ☐ Environment LC0100	234
☐ Environment LC0100	299
LC0100	2695
	30
LC0105	1
	1
LC0106	1
LC0113	1
LC0114	1
LC0116	1
LC0117	1
LC0146	1
LC0101	2
LC0158	6
LC0159	6
LC0155	8
□ Permissions	279
LC0058	279
	536
■ Job Queue Lifecycle	913
	937
Runtime telemetry	
TOTAL	9041



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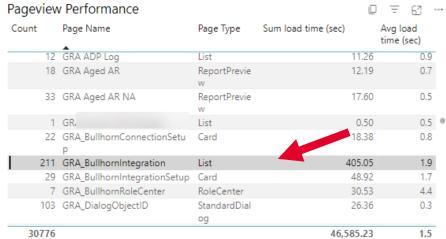
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Pageview performance details



Client type (Blank) Phone Pageviews by Browser Browser Chrome

Pageviews by Client Type

Edge

Firefox

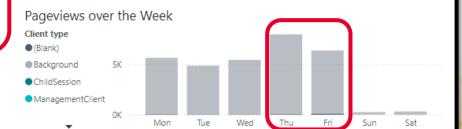
Mobile Safari

App details (in which app does the page come from)

Publisher / App (id) / Version	Count	Min load time (sec)	Avg load time (sec)	Max load time (sec)
☐ GraVoc Ltd.	211	0.4	1.9	11.8
☐ Bullhorn Connector (f74e4eba-4704- 4ff6-811f-ca941ae1b361)	211	0.4	1.9	11.8
24.4.10.1	102	0.4	2.1	11.8
24.2.12.1	33	0.8	1.6	3.7
23.12.21.1	22	1.0	2.4	7.6
24.3.18.1	20	0.9	2.2	7.0
23.9.22.1	19	0.5	1.4	2.4
23.9.27.1	14	0.6	1.1	2.3
24.4.25.1	1	1.1	1.1	1.1
Total	211	0.4	1.9	11.8

Page views over the Day - (UTC-04:00) Eastern Daylight Time (US & Canada)





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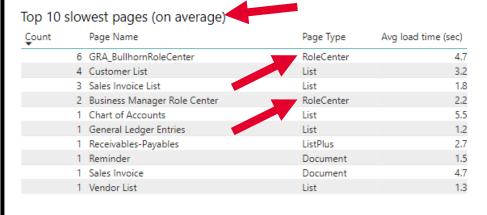
Configuration packages

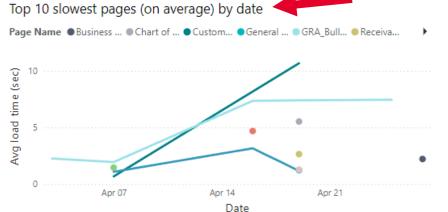
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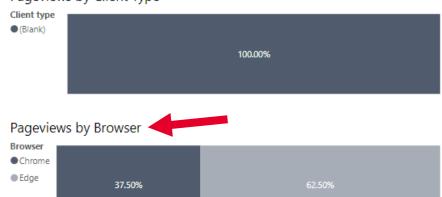


Pageview performance details

Pageview Performance

	GRA_BullhornRoleCenter	RoleCenter		
,		KoleCenter	28.38	3 4.7
4	4 Customer List	List	12.72	3.2
	Chart of Accounts	List	5.53	5.5
3	3 Sales Invoice List	List	5.42	1.8
	Sales Invoice	Document	4.70	4.7
2	2 Business Manager Role Center	RoleCenter	4.44	2.2
	3 Customer Card	Card	3.57	7 1.2
	GRA_BullhornIntegration	List	3.15	1.0
	GRA_BullhornIntegrationSetup	Card	2.89	1.0
	l Receivables-Payables	ListPlus	2.65	2.7
	l Reminder	Document	1.46	1.5
2	2 G/L Account Card	Card	1.30	0.6
48	3		86.98	3 1.8

Pageviews by Client Type



Usage



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Daily / Weekly / Monthly Users (also known as DAU / WAU / MAU)



This page shows daily / weekly / monthly users, both historical numbers and the current values (based on when the report dataset was last refre = $\epsilon \, \circlearrowleft$

Note that this is based on the user_Id field in telemetry, so for environments that do not log user telemetry id, these numbers are not accurate. Also, note that there is currently no way from telemetry to know if a user is a paid user.



Current DAU/WAU/MAU by Environment

Domain	Tenant id (AAD/Entra)		Environment Name	Current Daily Users (DAU)	Current Weekly Users (WAU)	Current Monthly Users (MAU)
	11	32	Production	5	10	10
	92)1	Production	4	7	9
	81	F	Production	3	8	8
	22	9	Production	5	8	8
	16	4ad	Production	3	4	4
	99	dd	Production	3	4	4

DAU / WAU / MAU by date (across all environments)

Daily Users (DAU) Weekly Users (WAU) Monthly Users (MAU)

O

Apr 07

Apr 14

Apr 21

Date



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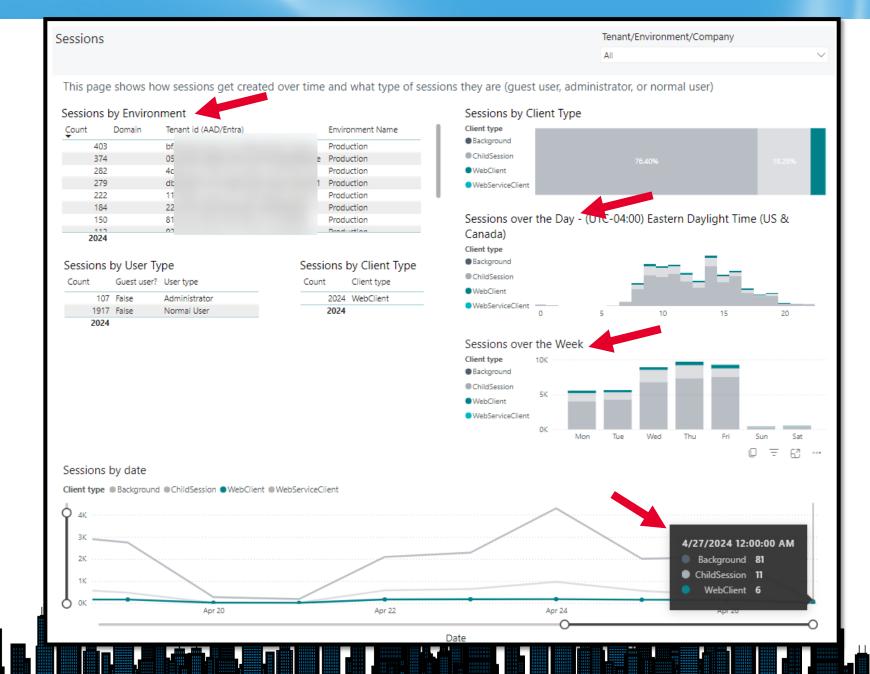
Connectors

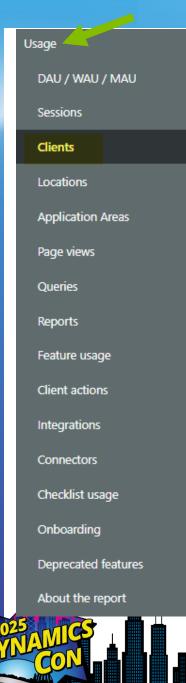
Checklist usage

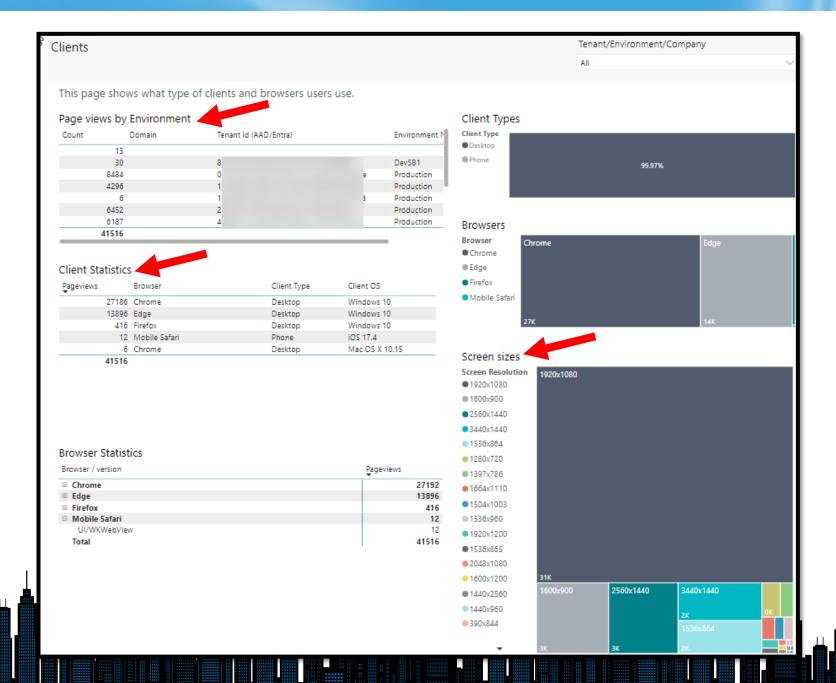
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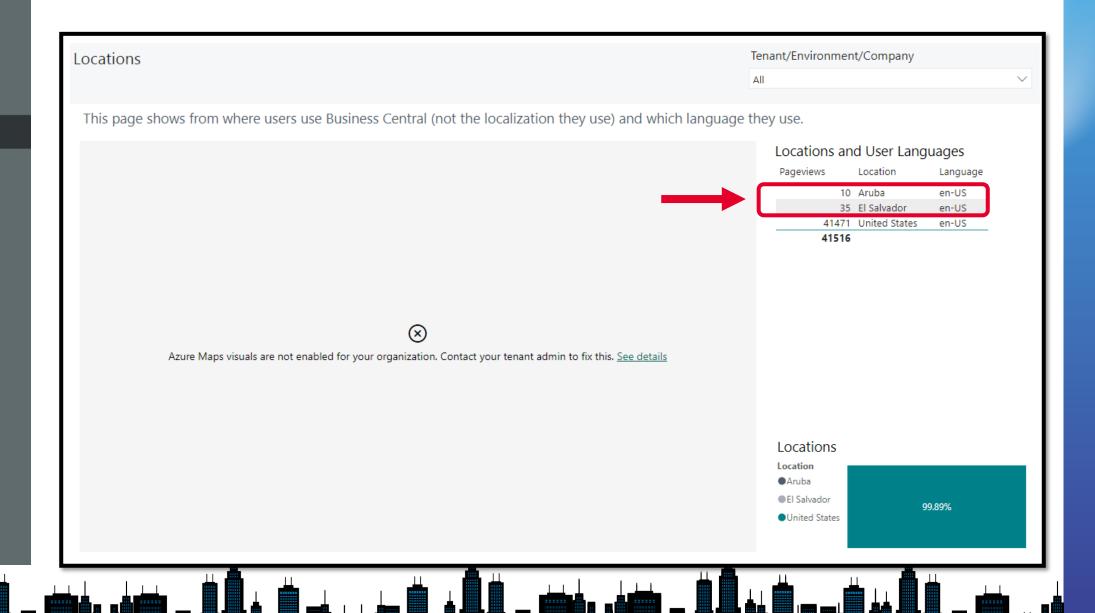
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This page shows which parts of the Business Central base application the users use (or do not use).

Usage by Application areas



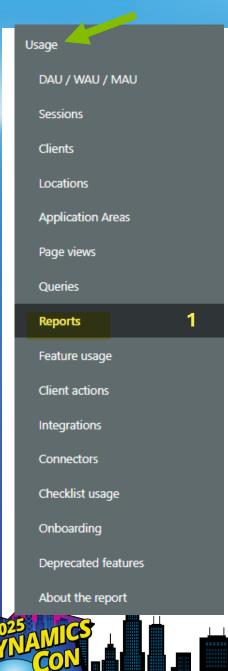
Application area usage by Environments

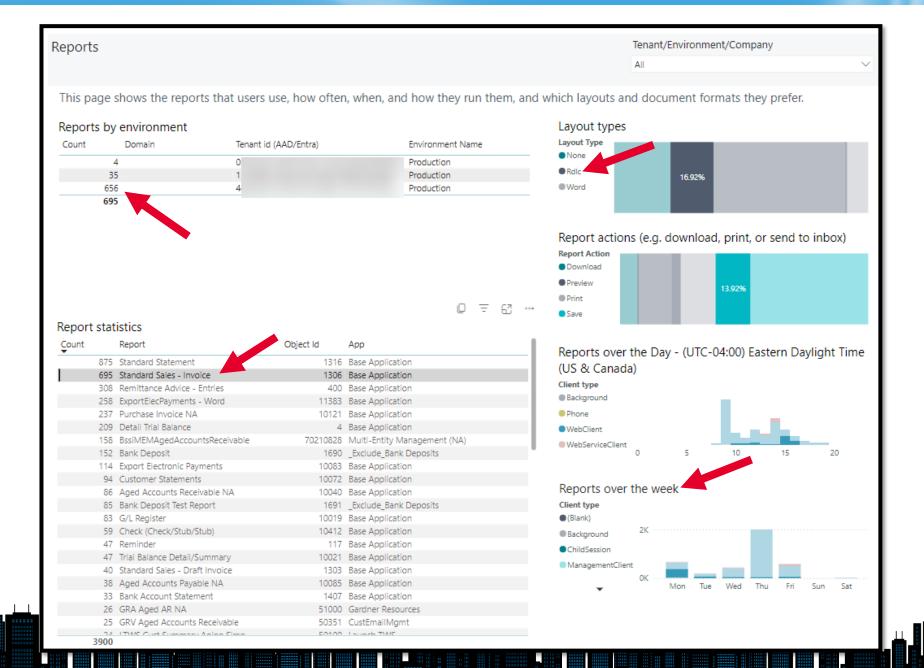
Count	Area	Sub Area	Domain	Tenant id (AAD/Entra)		Environment Nan
	14 Sales			99a	:dd	Production
	7 Finance			99₺	:dd	Production
	2 Finance	G/L		99₺	:dd	Production
	2 Purchasing			99a	:dd	Production
	25					

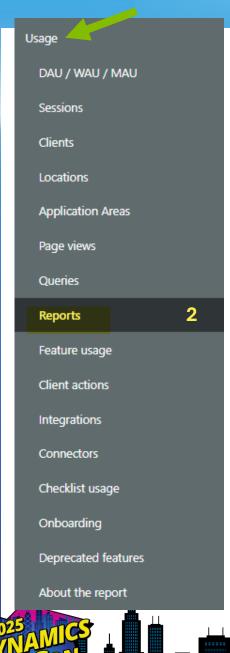
Page views and reports run

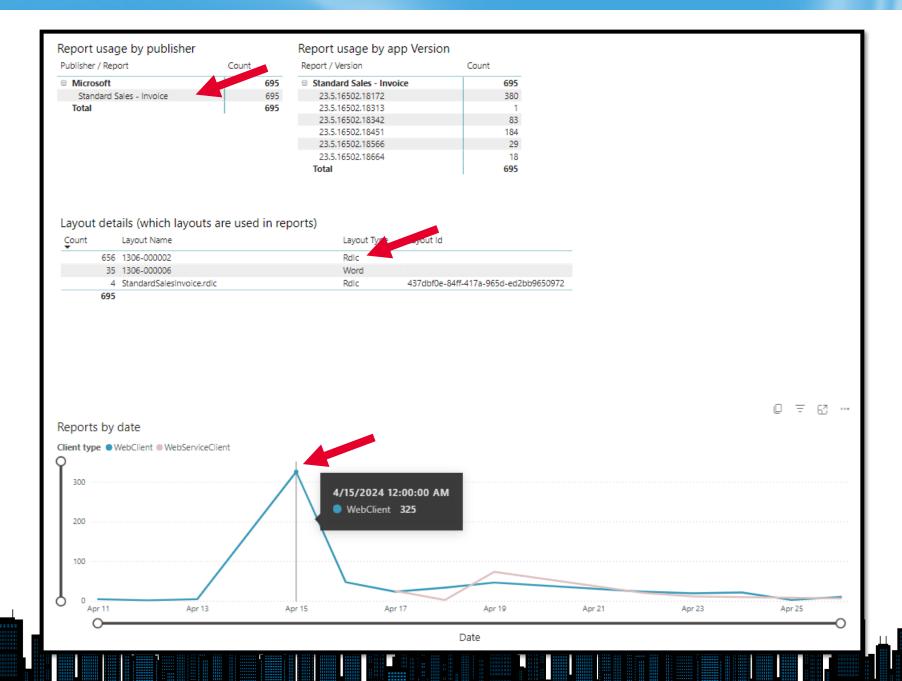
Are	ea	Count
Θ	Sales	14
		14
	Dynamics 365 Sales	
	Opportunities	
	Shopify	
Θ	Finance	9
	G/L	2
	Currency	
	Dimensions	
	Financial reporting	
	Fixed Assets	
	Intercompany	
	Item charges	
	Payment	
	Tax	
	VAT	
	Workflow	
Θ	Purchasing	1
	Planning	
\oplus	Assembly	
\oplus	Assembly Management	
\oplus	Human Ressources	
\Box	Inventory	
	Location	
	Reservation	
	SKU	
	Tracking	
	Transfer	
	Unit of measure	
	Variant	
\oplus	Manufactoring	
\oplus	Payment	
\oplus	Project Management	
\oplus	Relationship Management	
\oplus	Service Management	
±	Warehouse Management	
	Total	25











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Use Read Scale-Out

Read Scale-Out is used to load-balance analytical workloads in the database that only read data.

For more information, see About Read Scale-Out

Reports not using Read Scale-Out

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Reduce Database locking

Database locking occurs when multiple sessions want to update the same data.

For more information, see How to reduce database

SQL queries that hold locks for 10 seconds or more

0

Lock timeouts caused by number series

0

Reductiong running SQL queries

Many performs se issues are related to how data is defined, accessed, as Lmodified.

For more information, see Ab. * Efficient data access

Tables with 7 or more extensions

0

Long running SQL queries in CompanyOpen

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Login performance

Slow OpenCompany operations

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Top 10 slowest outgoing web service calls (avg time)

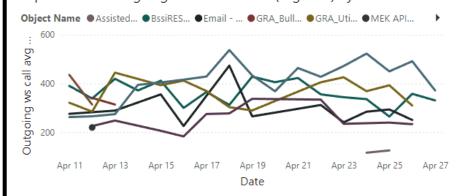
Host / Object / App		Count	Avg time (ms)	
⊕ g .com		104	1378	
⊕ g om			3920	1102
microsoft.api.yod	1296	410		
⊕ graph.microsoft.c	761	378		
⊕ api.stripe.com	845	358		
±	ng.com		11286	313
+	ng.com		203040	299
⊕ sys.fispan.live	1143	255		
telemetry-produce telemetry-pro	156	220		
+	ng.com		10005	218

Top 10 most aggressive outgoing web service calls (count)

Host / Object / A	Count			
⊕ re	.com	203040		
⊕ re	.com	11286		
⊕ re	.com	10005		
⊕ gʻ		3920		
microsoft.api.	1296			
⊕ sys.fispan.live	⊕ sys.fispan.live			
⊕ api.stripe.com	1	845		
⊕ graph.micros	graph.microsoft.com			
⊕ telemetry-pro	telemetry-production.azurewebsites.net			
⊕ g¢		104		



Top 10 slowest outgoing web service calls (avg time) by date

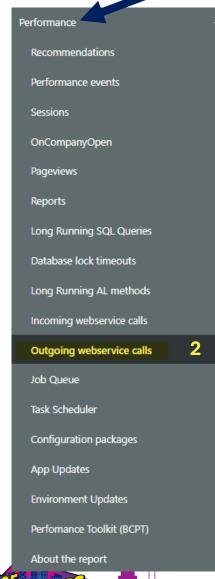




Top 10 most aggressive outgoing web service calls (count) by date







Outgoing web service performance details

Outgoing Webservice Calls by Environment

Tenant / Environment / Type	Count	Total time (sec)	Avg time (ms)	Max time (ms)
□ 052	139531	41926	300	100016
■ 220	35909	10599	295	60969
bf2 bf2 bf2	19334	7642	395	100012
① dbc	12663	5102	403	61036
117	11851	3589	303	60710
□ 926	12726	3218	253	8180
4df.	461	152	329	19785
□ 81a	81	20	253	826
Total	232556	72250	311	100016

Outgoing Webservice Call Statistics (hosts)

Host / HTTP method	Count	Total time (sec)	Min time (ms)	Avg time (ms)	Max time (ms)
□ re	203040	60620	144	299	100016
1 g	3920	4321	559	1102	61036
⊕ re	11286	3536	162	313	8167
⊕ re	10005	2181	107	218	2802
microsoft.api.yodlee.com	1296	532	107	410	3696
api.stripe.com	845	303	3	358	6691
Total	232556	72250	3	311	100016

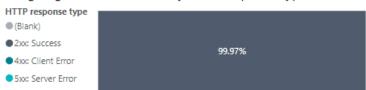
Outgoing Webservice Call Statistics (endpoints)

Url / HTTP Method	Count	Sum time (sec)	Min time (ms)	Avg time (ms)	Max time (ms)
https://api.stripe.com	845	303	3	358	6691
https://g⁻¹··· https://g⁻¹·· https://g⁻¹· https://g⁻¹· https://g⁻¹ https://g⁻ https://gc ht	104	143	687	1378	8770
https://g	3920	4321	559	1102	61036
https://graph.microsoft.com	761	288	116	378	19785
https://microsoft.api.yodlee.comTotal	1296 232556	532 72250	107 3	410 311	3696 100016

Outgoing Webservice Calls by Client Type



Outgoing Webservice Calls by HTTP response type



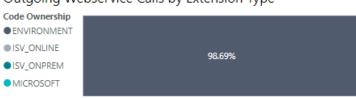
Outgoing Webservice Calls by HTTP method

DELETE GET

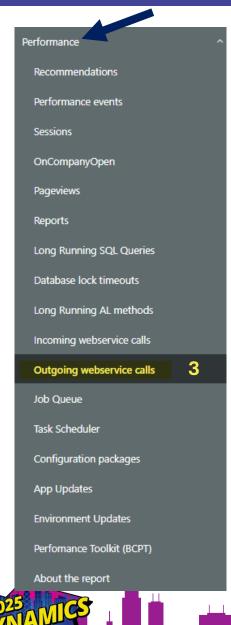
PATCH



Outgoing Webservice Calls by Extension Type







Outgoing webservice call status statistic	CS	(HTTP stat	us codes)		
Url		2xx: Success	4xx: Client Error	5xx: Server Error	Total
https://api.stripe.com	5	840			845
https://g		104			104
https://g ⁻		3915		5	3920
https://graph.microsoft.com		761			761
https://microsoft.api.yodlee.com		1296			1296
https://re		10005			1000
Total	1	232489	51	5	2325 56

Outgoing webservice call status details (HTTP status codes)

Count	Url		TTP response pe	HTTP status code	Description	Error
5	https://g		x: Server ror		Internal Server Error	-1
3	https://re	4x	ox: Client Error	401	Unauthorize d	-1
5	https://re	4x	ox: Client Error	409	Conflict	-1
23	https://re	4x	x: Client Error	401	Unauthorize d	-1
20	https://re	4x	ox: Client Error	409	Conflict	-1
232556				_		

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

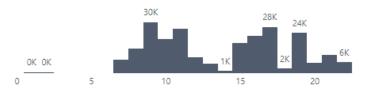
Object Name / Id / Type	Count
Assisted Company Setup Wizard	2
 BssiRESTWebServiceCode 	845
Email - Outlook API Client	759
■ GRA_BullhornConnectionSetup	5
GRA_Utilities	228350
MEK API Mgt.	156
MS - Yodlee Service Mgt.	1296
■ PncApi	22
PncV3HttpClient	1121
Total	232556
	Email - Outlook API Client GRA_BullhornConnectionSetup GRA_Utilities MEK API Mgt. MS - Yodlee Service Mgt. PncApi PncV3HttpClient

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

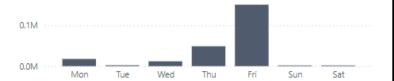
Publisher / App (id) / Version	Count
⊞ Binary Stream Software Inc.	845
⊕ GraVoc Ltd.	228355
■ Mekorma Enterprises, Inc.	156
Microsoft	2057
PINACLE® PNC	1143
Total	232556

Outgoing Webservice Calls by Extension Publisher Publisher Binary Stream Softwar... GraVoc Ltd. Mekorma Enterprises, ...

Outgoing webservice calls over the Day - (UTC-04:00) Eastern Daylight Time (US & Canada)



Outgoing Webservice Calls over the Week





Recommendations

Performance events

Sessions

OnCompanyOpen

Pageviews

Reports

Long Running SQL Queries

Database lock timeouts

Long Running AL methods

Incoming webservice calls

Outgoing webservice calls

Job Queue

Task Scheduler

Configuration packages

App Updates

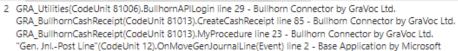
Environment Updates

Perfomance Toolkit (BCPT)

About the report

AL Stack Trace (what AL code was running)

391	5	
	1 GRA_Utilities(CodeUnit 81006).BullhornAPILogin line 27 - Bullhorn Con	nector by GraVoc Ltd.
	GF	5 - Bullhorn Connector by GraVoc Ltd.
	GF	rn Connector by GraVoc Ltd.
	GF	ıllhorn Connector by GraVoc Ltd.
	GF	- Bullhorn Connector by GraVoc Ltd.





"Gen. Jnl.-Post Line" (CodeUnit 12). PostGenJnlLine line 9 - Base Application by Microsoft

"Gen. Jnl.-Post Line" (CodeUnit 12). Code line 74 - Base Application by Microsoft

"Gen. Jnl.-Post Line" (CodeUnit 12). RunWithoutCheck line 7 - Base Application by Microsoft

"Rank Denosit-Post" (Codel Init 1690) OnPun(Trigger) line 103 - Evolude Rank Denosits by Microsoft

Top of AL Stack Trace (in what code did the web service call come from)

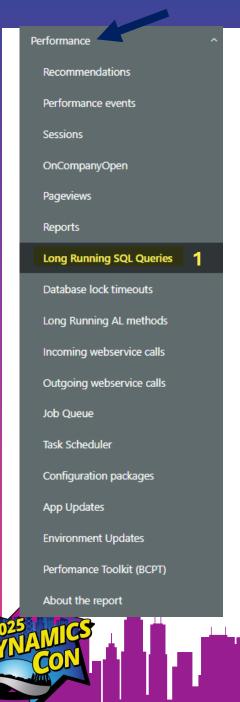
Count	Method/Trigger/Event	Object Id	Object Name	Object Type	Extension Name	Publisher	Top of stack Line
3915	j						
1	BullhornAPILogin	81006	GRA_Utilities	CodeUnit	Bullhorn Connector	GraVoc Ltd.	GRA_Utilities(CodeUnit 8100)
3	BullhornAPILogin	81006	GRA_Utilities	CodeUnit	Bullhorn Connector	GraVoc Ltd.	GRA_Utilities(CodeUnit 8100)
1	BullhornAPILogin	81006	GRA_Utilities	CodeUnit	Bullhorn Connector	GraVoc Ltd.	GRA_Utilities(CodeUnit 8100)

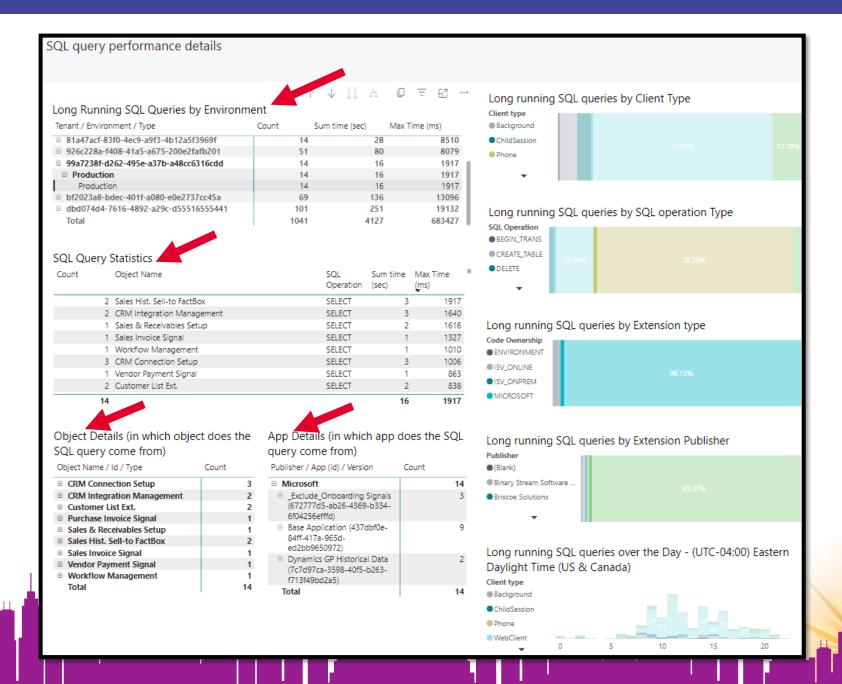


Count

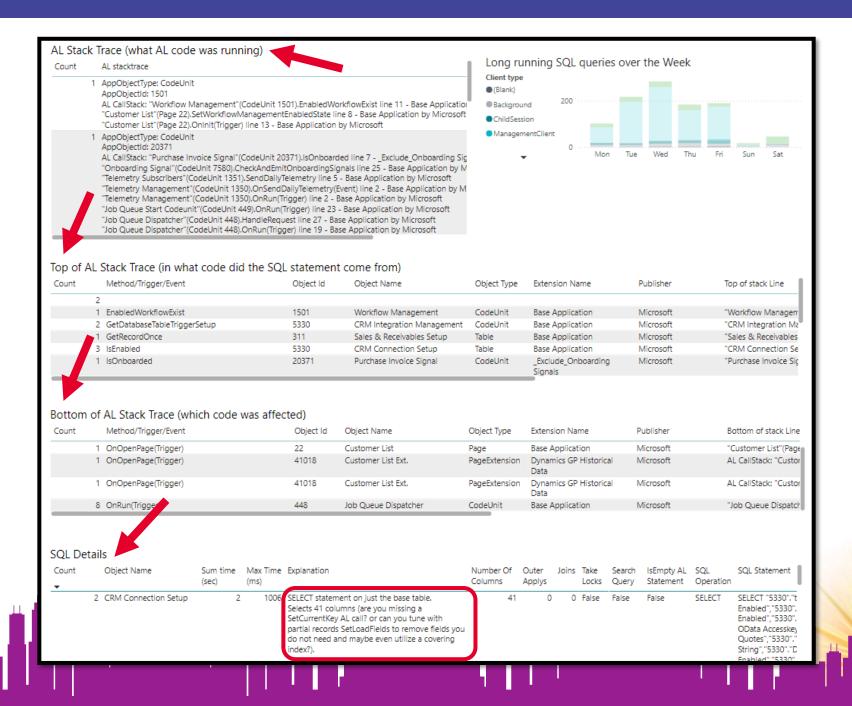
Bottom of AL Stack Trace (which code was affected)

Count	Method/Trigger/Event	Object Id	Object Name	Object Type	Extension Name	Publisher	Bottom of stack Line
3915							
3	"Post - OnAction"(Trigger)	1690	Bank Deposit	Page	_Exclude_Bank Deposits	Microsoft	"Bank Deposit"(Page 1690)."F
1	"Run1SalesInvoiceImport - OnAction"(Trigger)	81012	GRA_BullhornIntegration	Page	Bullhorn Connector	GraVoc Ltd.	GRA_BullhornIntegration(Pac
1	OnRun(Trigger)	81004	GRA_BullhornSalesInvoiceSync	CodeUnit	Bullhorn Connector	GraVoc Ltd.	GRA_BullhornSalesInvoiceSyr

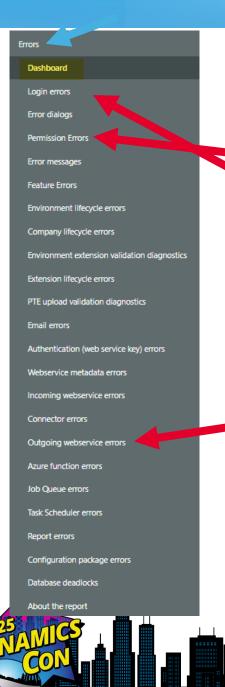








Errors



Error dashboard

Tenant/Environment/Company

All

This page shows errors happening for users, integrations with external systems, and setup/system errors.

User enc.

When users gets error dialogs, it can be a finissing knowledge about the system or that some features are not setup the way they are supposed to.

User logins

Error Dialogs

4514

140

Error message feedback Permission Errors

5

25

Integrations errors

External systems communicate with BC using web services. Failures in this area means that some of the integrations are probably not working correctly.

Web Service Logins

Web Service Key logins

Connector calls (incoming)

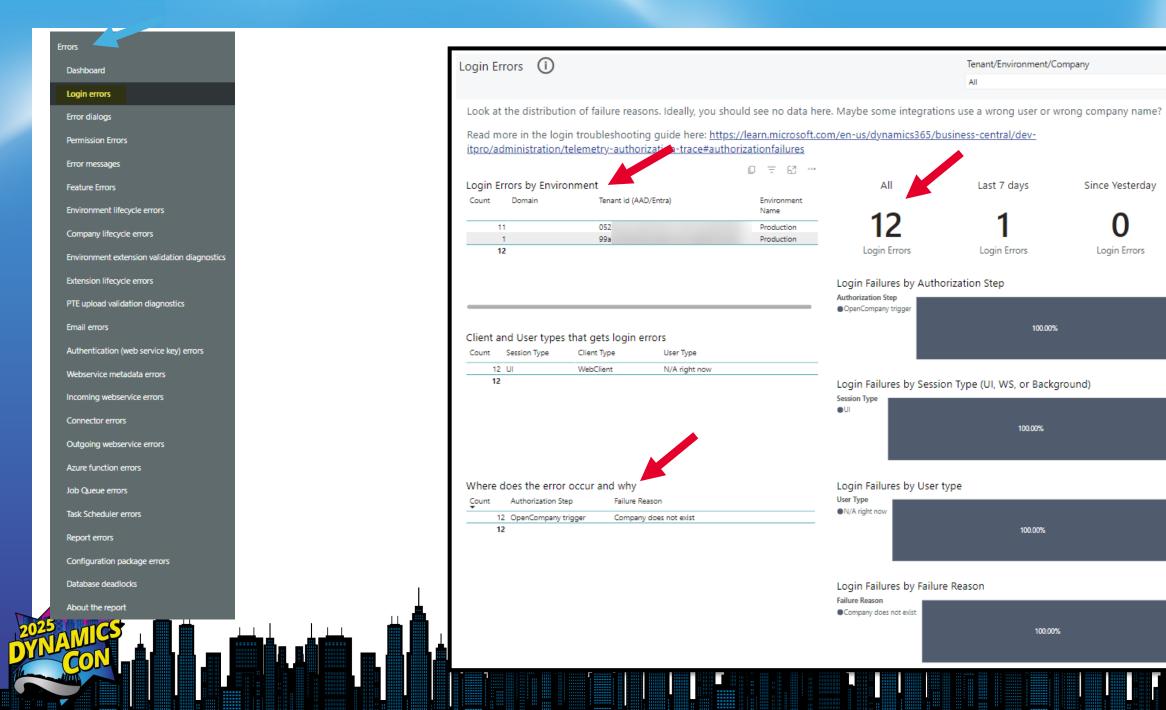
Web service calls (incoming)

Web service calls (outgoing)

System errors

Some BC modules or code might be misconfigured. Failures here indicate the the system is not setup correctly.

License Errors	Background Session Logins	Tasks	Job Queue	Environment lifecycle	Company lifecycle	Extension lifecycle	Configuration packages (failed)
2	1	11	19	0	0	0	0
Emails	Reports	Database deadlocks	Features				

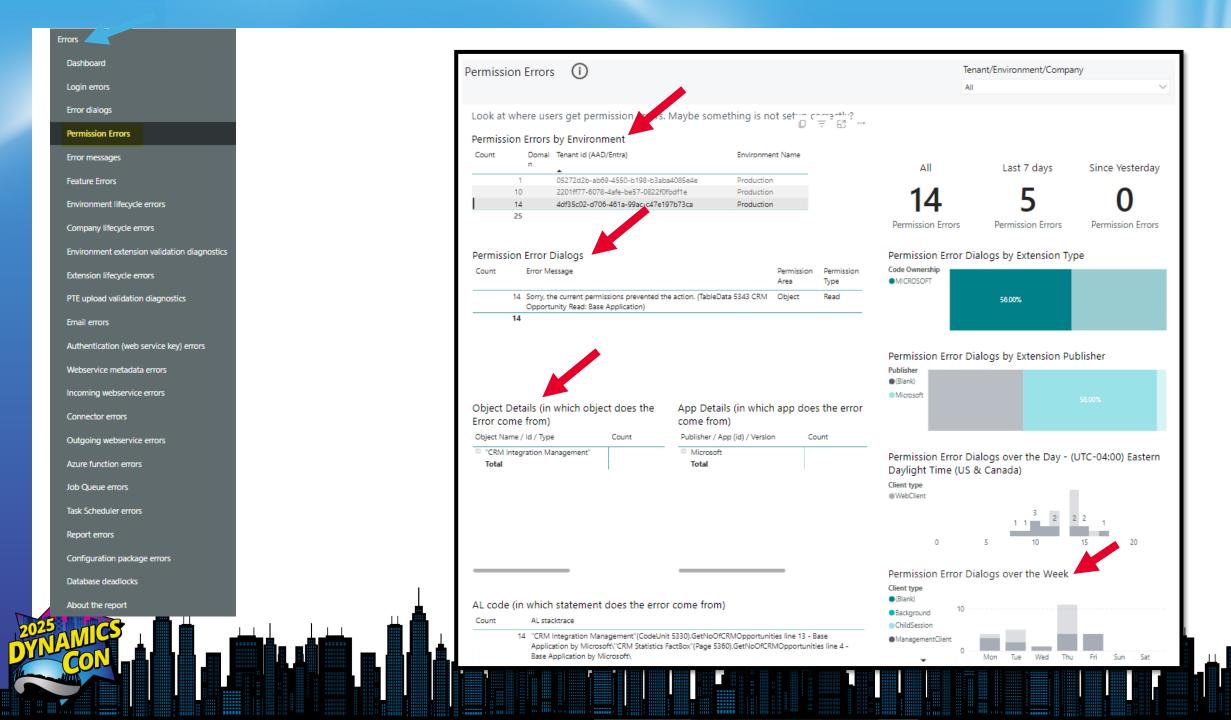


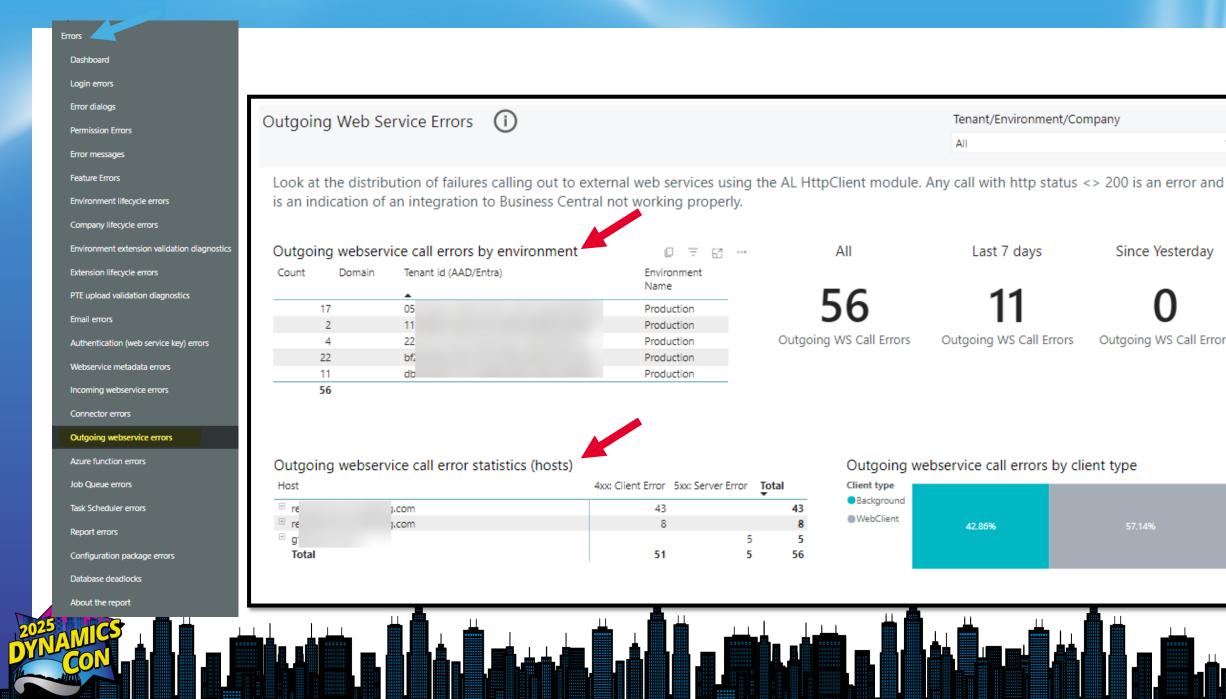
Since Yesterday

Login Errors

100.00%

100.00%





Since Yesterday

Outgoing WS Call Errors

Telemetry Resources

