



Power Platform Dataverse Storage Management

US Government DoD Cloud Addendum

Summary: This is a high-level Government Cloud Focused overview of Power Platform Dataverse capacity management.

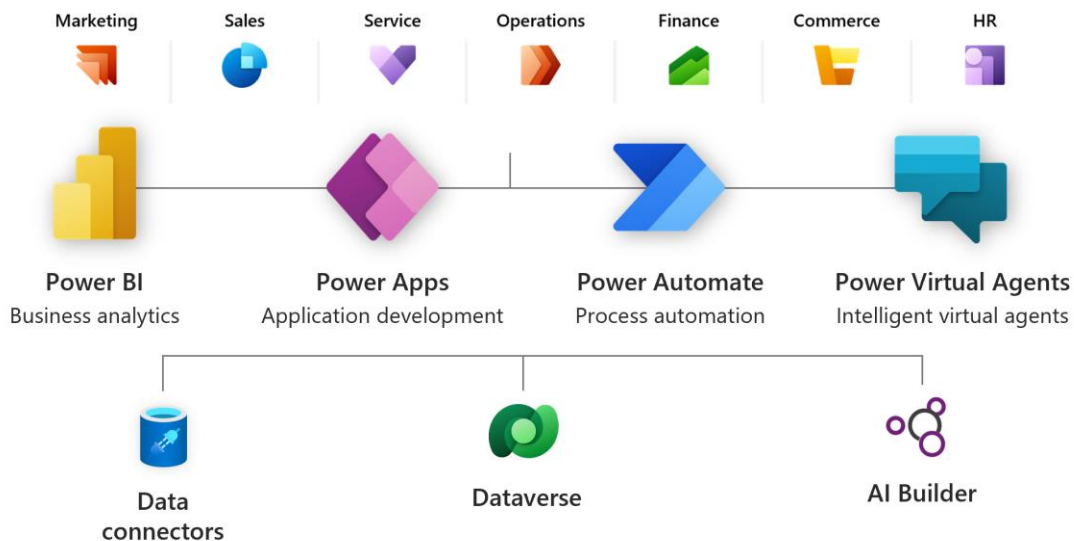
The goal of the paper is to help you understand Dataverse, dataverse capacity and what management controls are available to proactively plan usage.

For details, please see: [New Microsoft Dataverse storage capacity - Power Platform | Microsoft Docs](#)

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Microsoft Power Platform

The low-code platform that spans Office 365, Azure, Dynamics 365, and standalone applications Innovation anywhere. Unlocks value everywhere.



Dynamics 365 – provides a comprehensive suite of services enabling all in one solution so that you don't have to create your own

Power BI – build data visualizations; transform and analyze data; share reports

Power Apps – build business apps; connect to data from various systems using connectors; digitally transform paper or manual processes

Power Automate – build seamless process automation; process events based on a trigger; connect to data from various systems using connectors; minimal user input

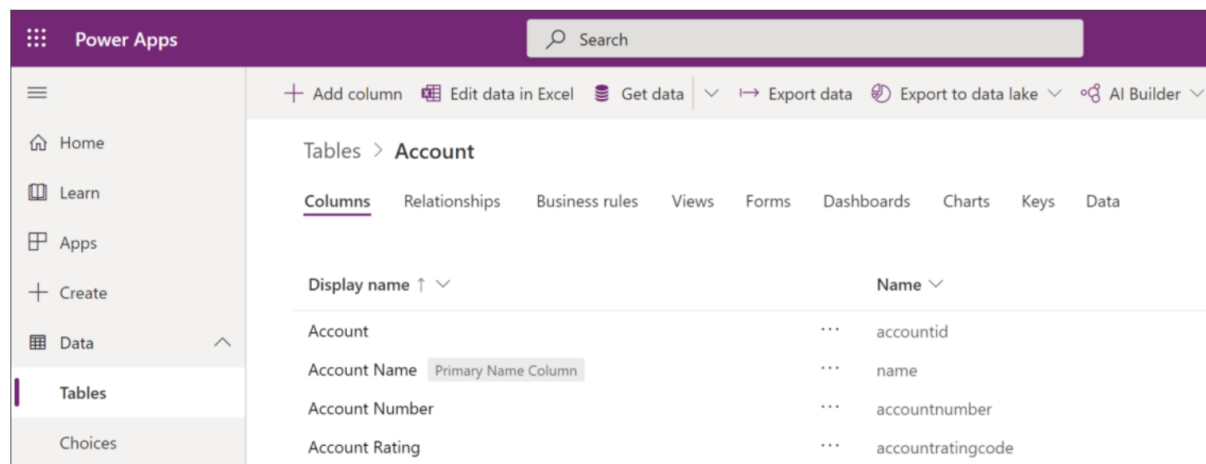
Power Virtual Agents (coming soon to DoD) – build bots without code; enhance engagement through conversational AI; resolve issues quickly and automate repetitive queries; integrate with other services

What is Dataverse?

Dataverse lets you securely store and manage data that's used by business applications which include Dynamics365 and Power BI, Power Apps, Power Automate and Power Virtual Agent.

It easily structures a variety of data and business logic to support interconnected applications and processes in a secure and compliant manner.

Microsoft Dataverse stores data in tables and columns and includes a base set of standard tables that cover typical scenarios.



Why Dataverse?

Easy to manage – Both the metadata and data are stored in the cloud. You don't need to worry about the details of how they're stored.

Easy to secure – Data is securely stored so that users can see it only if you grant them access. Role-based security allows you to control access to tables for different users within your organization.

Access your Dynamics 365 Data – Data from your Dynamics 365 applications is also stored within Dataverse, allowing you to quickly build apps that use your Dynamics 365 data and extend your apps with Power Apps.

Rich metadata – Data types and relationships are used directly within Power Apps.

Logic and validation – Define calculated columns, business rules, workflows, and business process flows to ensure data quality and drive business processes.

Productivity tools – Tables are available within the add-ins for Microsoft Excel to increase productivity and ensure data accessibility.

What is Dataverse for Teams?

Data platform for low-code apps that can be built right within Microsoft Teams.

Its license is seeded within Microsoft Teams and is already included with seeded rights to use Power Apps & Power Automate to extend the various business productivity apps found within the realm of Office.

With Dataverse for Teams comes the ability to create and use apps from within the Teams clients. Dataverse for Teams provides one database per team, which lives as long as the team lives. Access is restricted to just the Team owners, members and guests.

There are some limitations including:

- Canvas apps only
- Database size – 1 million rows or 2 GB; once the limit is hit, no further apps can be created in the team; no more capacity can be added
- No audit logs
- No standard tables

When the needs for building a low-code business app can no longer fit within the Teams app usage scenario, customers can upgrade the Dataverse for Teams environment to full Dataverse.

Licensing Model

Essentially this means moving into the existing licensing model of Power Apps, where you can either license a single application at a time or purchase the “platform SKU” that allows an unlimited number of apps. This unlocks the full feature set of Dataverse meaning advanced data types, environment management, security & compliance tools, integration options and even ALM tools.

	Dataverse for Teams	Dataverse
Maximum Data Capacity	2 GB per environment <i>no option to increase but can upgrade to Dataverse environment</i>	4 TB per environment
Hierarchical Security	None	Out of the box via Business Units
Field level security	None	Out of the box
Who will create and manage the app and data model?	Business	Business or IT
Data model complexity	Simple or complex	Simple or complex
Platform	SaaS	SaaS
Advanced analytics and reporting	Direct Query with security trimming and near real-time updates.	Connects to Data Lake Gen 2 for advanced analytics. Direct Query with security trimming and near real-time updates.

Microsoft Dataverse capacity storage provides and is optimized for relational data (database), attachments (file), and audit logs (log).

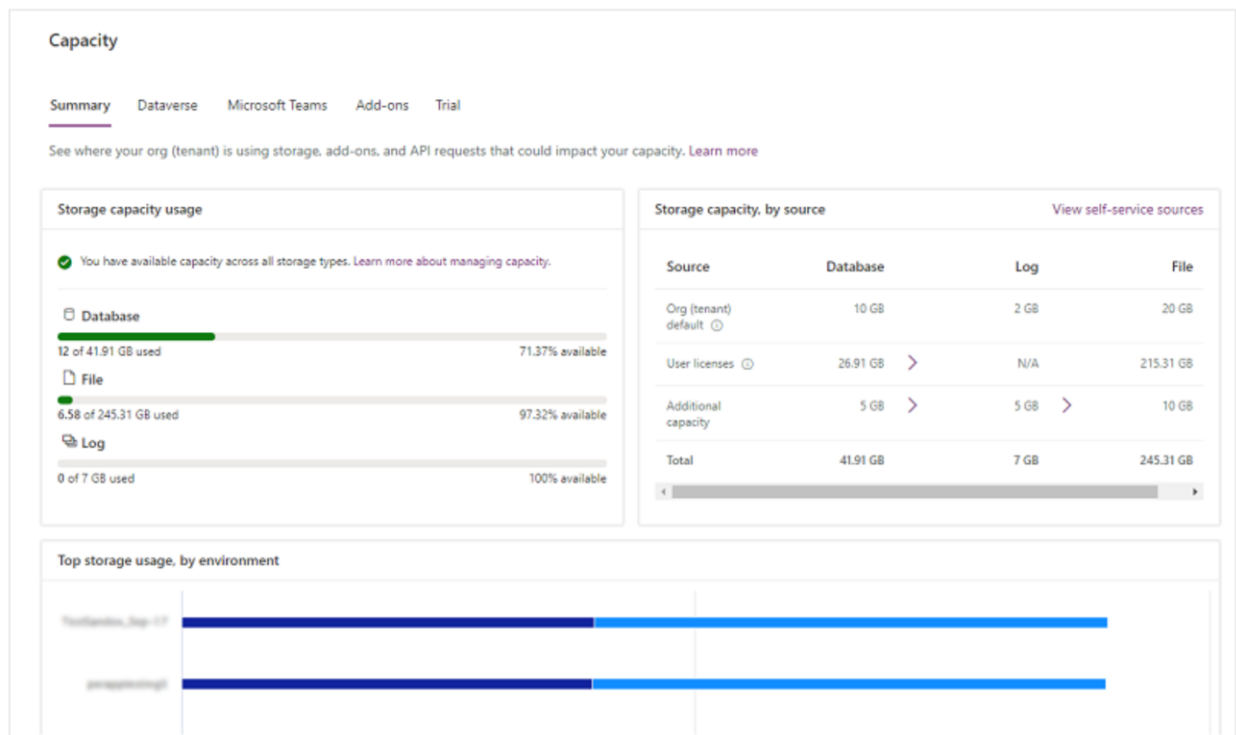
Power Platform manages these three storage types and additional per user subscription license entitlements at a tenant level. Additional storage can be purchased in 1-GB increments.

License	Dataverse Database capacity	Dataverse File capacity
Power app per user	250 MB	2 GB
Power app per app	50 MB	400 MB
Power automate per flow	50 MB	200 MB
Power Automate per user	50 MB	200 MB
Power automate RPA attended	50 MB	200 MB

Managing Capacity

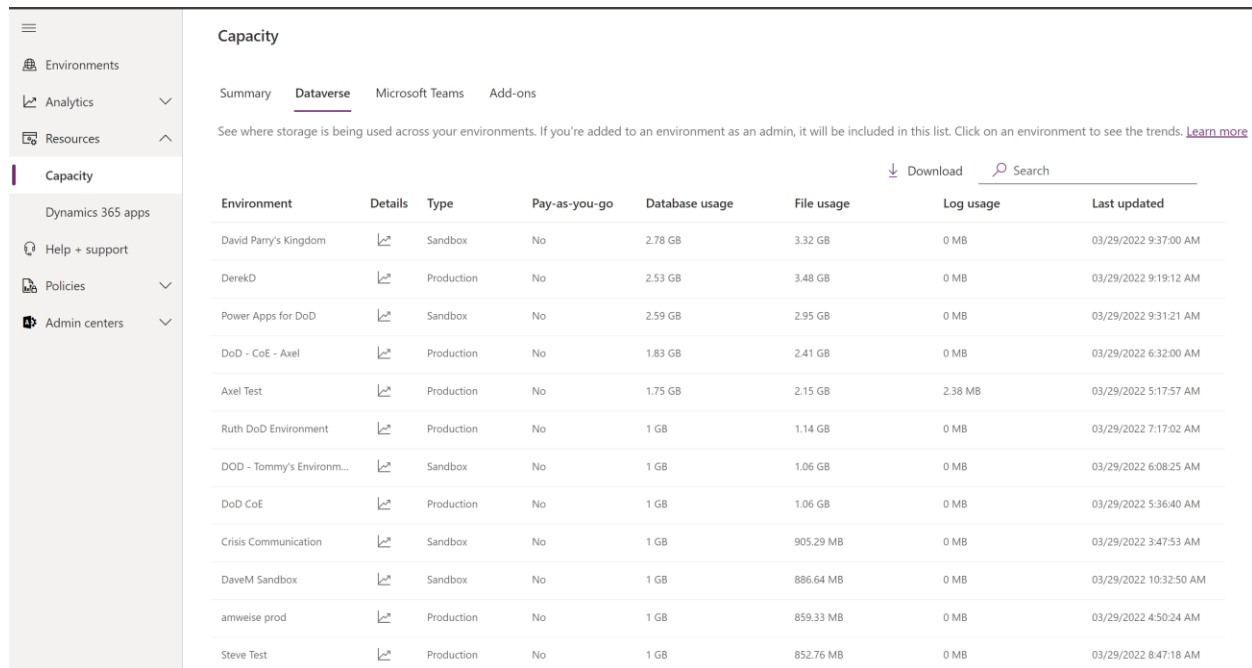
The Power Platform admin center provides a unified portal for administrators to manage environments and settings for Power Apps, Power Automate, and Dynamics 365 applications.

The Storage Capacity page provides a **tenant-level** view of where your organization is using storage capacity.



It will include all dataverse database, files, and log capacity, capacity by source, the top usage by environment, and any add-on usage details.

Storage capacity can also be viewed by environment.



The screenshot shows the 'Capacity' section in the Dynamics 365 admin center. It includes a sidebar with navigation options like Environments, Analytics, Resources, Capacity, Dynamics 365 apps, Help + support, Policies, and Admin centers. The main content area has tabs for Summary, Dataserve, Microsoft Teams, and Add-ons. Below the tabs is a descriptive text and a 'Learn more' link. A table lists various environments with columns for Environment, Details, Type, Pay-as-you-go, Database usage, File usage, Log usage, and Last updated. The table includes environments like David Parry's Kingdom, DerekD, Power Apps for DoD, DoD - CoE - Axel, Axel Test, Ruth DoD Environment, DOD - Tommy's Environm..., DoD CoE, Crisis Communication, DaveM Sandbox, amweise prod, and Steve Test.

Environment	Details	Type	Pay-as-you-go	Database usage	File usage	Log usage	Last updated
David Parry's Kingdom		Sandbox	No	2.78 GB	3.32 GB	0 MB	03/29/2022 9:37:00 AM
DerekD		Production	No	2.53 GB	3.48 GB	0 MB	03/29/2022 9:19:12 AM
Power Apps for DoD		Sandbox	No	2.59 GB	2.95 GB	0 MB	03/29/2022 9:31:21 AM
DoD - CoE - Axel		Production	No	1.83 GB	2.41 GB	0 MB	03/29/2022 6:32:00 AM
Axel Test		Production	No	1.75 GB	2.15 GB	2.38 MB	03/29/2022 5:17:57 AM
Ruth DoD Environment		Production	No	1 GB	1.14 GB	0 MB	03/29/2022 7:17:02 AM
DOD - Tommy's Environm...		Sandbox	No	1 GB	1.06 GB	0 MB	03/29/2022 6:08:25 AM
DoD CoE		Production	No	1 GB	1.06 GB	0 MB	03/29/2022 5:36:40 AM
Crisis Communication		Sandbox	No	1 GB	905.29 MB	0 MB	03/29/2022 3:47:53 AM
DaveM Sandbox		Sandbox	No	1 GB	886.64 MB	0 MB	03/29/2022 10:32:50 AM
amweise prod		Production	No	1 GB	859.33 MB	0 MB	03/29/2022 4:50:24 AM
Steve Test		Production	No	1 GB	852.76 MB	0 MB	03/29/2022 8:47:18 AM

And can be drilled down to a more granular level.

Exceeding Capacity

We're making changes for what happens when an organization's storage capacity is close to, or exceeds the capacity entitled or purchased via add-ons.

Notifications for capacity approaching storage limits will be triggered when any of the three storage capacities (database, file, or log) have less than 15% of space available. Another warning notification that admin operations could be impacted will be sent when any of the three storage capacities have less than 5% of space available. The final tier of notification will trigger when the tenant is 'in overage' (storage usage exceeds capacity entitlements), which will alert the admin that the operations below will no longer be available until the overage is resolved.

Additionally, there will be a notification banner in the Power Platform admin center when a tenant has exceeded storage capacity.

Center of Excellence (CoE) Toolkit

The Center of Excellence (CoE) Starter Kit is a collection of components and tools that are designed to help you get started with developing a strategy for adopting and supporting Microsoft Power Platform, with a focus on Power Apps and Power Automate.

The screenshot displays the Microsoft Power Platform CoE Starter Kit interface. The left sidebar contains navigation options: Home, Recent, Pinned, Monitor, Overview Dashboard, Apps, Portals, Flows, Environments (selected), Connectors, Chatbots, UI Flows, Audit Logs, Users, Makers, and Power Platform Users. The main content area is titled 'DoD CoE - Saved Environment' and includes tabs for General, Audit, Resources, and Related. The 'General' tab is active, showing 'Environment Details' and 'Capacity and Add-Ons'.

Environment Details

Name	7f7eb743-bff9-4fb8-bd7c-fa74d9971a4f		
Environment Region	usdod		
Environment Sku	Production		
Microsoft Teams ID	---		
Microsoft Teams URL	---		
Environment CDS Instance URL	https://org8f080e41.crm.appsplatform.us/		
Environment Maker Display Name	Power Platform CoE User		
Environment is Orphaned	no		
Created On	9/8/2021	12:19 PM	
Environment Modified On	9/8/2021	12:05 PM	
Environment Deleted On	---		

Capacity and Add-Ons

Group By: (no grouping) v

✓ Capacity Type ↑ | Approved ... v | Actual Con... |

Database	---	1,017.3280	
File	---	1,084.6110	
Log	---	0.0000	

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Add Ons

Within the toolkit, you can even drill down to environment details regarding capacity. There is even an ability to run daily workflows to check each environment's capacity and compare it with the "approved capacity" that the admin set for that environment.

← Save Save & Close + New Deactivate Delete Refresh Check Access Process Assign Share Email a Link

Contoso (default) - Saved Environment SYSTEM Environment Maker 4/9/2021 3:30 PM Environment Created On

General Audit Resources Related

Environment Details

Name	
Environment Region	unitedstates
Environment Sku	Default
Microsoft Teams ID	---
Microsoft Teams URL	---
Environment CDS Instance URL	
Environment Maker Display Name	SYSTEM
Environment is Orphaned	no
Created On	8/26/2021 9:58 AM
Environment Modified On	---
Environment Deleted On	---

Environment Owner

Business Area	---
Environment Owner	---

Capacity and Add-Ons

Group By: (no grouping)

Capacity Type	Approved Capacity	Actual Con...	Capacity U...
✓ Database *	1,000.00	858.3516	MB
File	---	968.0585	MB
Log	---	0.0000	MB

Add Ons

Search this view

Addon Type ↑ Addon... Unit

If the environment's capacity is either at 80% of approved capacity or has exceeded it, the admin is notified.

Resources

[Capacity add-ons for Power Apps and Power Automate - Power Platform | Microsoft Docs](#)

[Power Platform Governance Blueprint Series – youtube](#)

[Licensing overview for Microsoft Power Platform - Power Platform | Microsoft Docs](#)

[Manage Microsoft Dataverse for Teams environments | Microsoft Power Apps](#)

<https://docs.microsoft.com/en-us/power-platform/guidance/coe/starter-kit>

[Biz Apps Hub | Power Apps \(microsoft.com\)](#)

[Plan and manage license and capacity allocations - Microsoft Power Platform \(contains video\) - Power Platform | Microsoft Docs](#)