



Microsoft Power Platform

2021 RELEASE WAVE 1 PLAN

Features releasing from April 2021 through September 2021

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Microsoft Power Platform: 2021 release wave 1 plan

The Microsoft Power Platform release plan for the 2021 release wave 1 describes all new features releasing from **April 2021** through **September 2021** for Power BI, Power Apps, Power Apps portals, Power Automate, Power Virtual Agents, AI Builder, governance and administration, ISV experiences, and data integration. You can either browse the release plan [online](#) or download the document as a PDF file.

2021 release wave 1 overview

Microsoft Power Platform enables users and organizations to analyze, act, and automate on the data to digitally transform their businesses. Microsoft Power Platform today comprises four products: Power BI, Power Apps, Power Automate, and Power Virtual Agents. It also has two add-ins: AI Builder and Power Apps portals.

- [Power BI](#) continues to invest in three key areas that drive a data culture: amazing data experiences, modern enterprise BI, and integrations where teams work. Power BI Embedded delivers a new generation of the product helping customers increase their ROI, scale rapidly, and get up to 16X faster performance. Customers will also get visibility into utilization at the workspace level, enabling consistent utilization analysis and cost management. Power BI Premium continues to deliver features that help organizations accelerate the delivery of insights at scale, meeting the most demanding needs of an enterprise. This release adds flexible licensing models for organizations to choose between per user and per capacity licensing options. Power BI Pro delivers AI infused insights to help everyone easily discover insights. Authoring Power BI content is easier than ever through the new quick create experiences.
- [Power Apps](#) combines the flexibility of a blank canvas that can connect to any data source with the power of rich forms, views, and dashboards modeled over data in Microsoft Dataverse. This release adds duplicate detection to the Unified Interface experience, improved accessibility for business process flow in mobile, enhanced global relevance search experience and in-app notifications for model-driven apps.
 - [AI Builder](#) will introduce new AI functionalities in preview as well as form processing improvements. New capabilities include new region availability and signature detection in form processing in order to detect if a signature is present at a specific location in a document.

- [Power Apps portals](#) enhances Power BI integration in order to support Microsoft Azure Analysis Services live connections and Customer Data Power BI function to send additional context for personalizing reports and dashboards for users.
- [Power Automate](#) enhancements to cloud flows adds a trigger when an action is performed in Microsoft Dataverse. This feature improves working with the common events model and provides better integration with Dynamics 365 Finance and Operations. Desktop flows improve our support for UI automation on Citrix environments by having a runtime inside the target Citrix environment. New for this release, process advisor, a process mining capability in Power Automate that reveals insights into how people work, provides rich visualizations where users can identify repetitive, time-consuming processes best suited for automation. Users will be able to record repetitive, manual processes with Power Automate Desktop.
- [Power Virtual Agents](#) brings improvements in the authoring experience with list variables, topic suggestions from bot sessions, adaptive cards, and more. Also included is Power Automate integration with better error handling and new topic trigger management in order to improve your bot's triggering capabilities.

Microsoft Power Platform offers a range of [governance and administration](#) and [ISV experiences](#) capabilities that span Power Apps, Power Automate, and Microsoft Dataverse. These capabilities are designed to help the administrators, ISVs and IT pros in the organization to help build, set up, secure, manage, govern, and monitor the use and adoption of the platform and its components across the enterprise.

- [Data integration](#) provides built-in connectivity to the Microsoft Power Platform and more, with data across hundreds of business systems, enabling rich and intelligent experiences. There are many new capabilities in this release wave in areas such as enrichment through integration with Azure Maps, gateway diagnostics, improved error management, visual data prep for Power Query Desktop, and security improvements.

IMPORTANT The Dynamics 365 features coming in the 2021 release wave 1 have been summarized in a separate [release plan](#).

Key dates for the 2021 release wave 1

This release plan describes functionality that may not have been released yet. Delivery timelines and projected functionality may change or may not ship (see [Microsoft policy](#)).

Here are the [key dates](#) for the 2021 release wave 1.

Milestone	Date	Description
Release plans available	January 27, 2021	Learn about the new capabilities coming in the 2021 release wave 1 (April 2021 – September 2021) across Dynamics 365 and Microsoft Power Platform.
Early access available	February 1, 2021	Test and validate new features and capabilities that will be a part of the 2021 release wave 1, coming in April, before they get enabled automatically for your users. You can view the Microsoft Power Platform 2021 release wave 1 early access features now.
Release plans available in 11 additional languages	To be announced	The Dynamics 365 and Power Platform release plans published in Danish, Dutch, Finnish, French, German, Italian, Japanese, Norwegian, Portuguese (Brazilian), Spanish, and Swedish.
General availability	April 1, 2021	Production deployment for the 2021 release wave 1 begins. Regional deployments will start on April 2, 2021.

Just like the previous release waves, we continue to call out how each feature will be enabled in your environment:

- **Users, automatically**– These features include changes to the user experience for users and are enabled automatically.
- **Admins, makers, or analysts, automatically**– These features are meant to be used by administrators, makers, or business analysts and are enabled automatically.
- **Users by admins, makers, or analysts**– These features must be enabled or configured by the administrators, makers, or business analysts to be available for their users.

You can get ready with confidence knowing which features will be enabled automatically.

We've done this work to help you—our partners, customers, and users—drive the digital transformation of your business on your terms. We're looking forward to engaging with you as you put these new services and capabilities to work, and we're eager to hear your feedback as you dig into the 2021 release wave 1.

Let us know your thoughts. Share your feedback on the [Microsoft Power Platform community forum](#). We will use your feedback to make improvements.

2021 release wave 1 features available for early access

This topic lists the features that can be enabled for testing in your environment beginning **February 1, 2021**. Features from the following apps are available as part of early access:

- Power Apps

The features from these apps update the existing user experiences. You can opt in early to enable these features in your environment. This will allow you to test these features and then adopt them across your environments. For information on how to enable these features, see [Opt in to 2021 release wave 1 updates](#).

IMPORTANT If you are using Dynamics 365 apps, such as Sales, Service, Marketing, Finance, Supply Chain Management, Business Central, and Commerce, there are early access features that could impact your users. For Dynamics 365 early access features, see [2021 release wave 1 features available for early access](#).

Power Apps

For a complete list of the Power Apps features, see [What's new and planned for Power Apps](#).

Feature	Enabled for	Early access	General availability
Duplicate detection Unified Interface experience	Users, automatically	Feb 1, 2021	Apr 2021
Improved accessibility for business process flows in mobile	Users, automatically	Feb 1, 2021	Apr 2021
Improved apps discovery and selection in Power Apps mobile	Users, automatically	Feb 1, 2021	Apr 2021
Improved global relevance search experience in model-driven apps	Users, automatically	Feb 1, 2021	Apr 2021

Feature	Enabled for	Early access	General availability
Improved navigation in model-driven apps	Users, automatically	Feb 1, 2021	Apr 2021
Merging records has been updated and improved in Unified Interface	Users, automatically	Feb 1, 2021	Apr 2021
Multi-line text controls expand in Quick View forms	Users, automatically	Feb 1, 2021	Apr 2021
Search quick actions	Users, automatically	Feb 5, 2021	Apr 2021
UX improvements to sub grids and form tabs in Dynamics 365 mobile app	Users, automatically	Feb 1, 2021	Apr 2021

Power BI

Overview of Power BI 2021 release wave 1

Microsoft business intelligence simplifies how organizations derive insights from transactional and observational data. It helps organizations create a data culture where employees can make decisions based on facts, not opinions. We are investing in three key areas that drive a data culture: *Amazing data experiences* that empower every individual, *BI integrated* where we work empowering every team, and *Modern enterprise BI* empowering every organization.

Amazing data experiences

To build a data culture, every single individual needs to have instantly familiar experiences combined with AI infused insights. Whether that is authors creating reports using the free Power BI Desktop tool, consumers exploring data in the Power BI service or mobile applications as well as users in Office using data to make better decisions, Power BI will continue to evolve to make it easier than ever to work with data. Power BI will continue to advance the state of the art leveraging AI and ML to help everyone easily discover insights. To enable everyone in the organization to get insights wherever they are and in context, we developed the world leading mobile BI app and enabled embedding BI in your applications, websites, and portals. This empowers individuals across an organization to drive and grow the data culture.

Integrated where teams work

The area of innovation that customers value is to help weave BI deep into the fabric of where work happens. Customers value the ability to quickly move from insight to action to automation. Microsoft Power Platform makes this uniquely possible through Power BI, Power Apps, and Power Automate. The products are designed to work together to make it easy for customers to adapt quickly to changing business requirements. Insights become more valuable as they are shared. By integrating Power BI deeply with Office 365 – Microsoft Teams, Excel, PowerPoint, and more, we bring insights to where everyone works and collaborates.

Modern Enterprise BI

Power BI can scale to meet the most demanding needs of large enterprise customers, which is why more and more customers are choosing to standardize on Power BI. Trust is a foundational for customers to adopt a BI platform broadly. The Power BI team is committed to a fully open platform – at the data tier with Common Data Model support, at the semantic model tier with support for the industry standard XMLA protocol, and a completely open visualization stack. In

In addition, we have invested in Data Protection which helps protect data even when it is exported out of Power BI, as well as a comprehensive set of certifications to ensure that Power BI is fully compliant with regulations around the world. Enable your organization to create a global, governed, scalable, secure, and unified BI platform that meets the needs of both self-service and centralized BI. Power BI is a modern, compliant platform that serves as single destination for business analytics with key enterprise-facing updates on enterprise-grade semantic models, reporting, application lifecycle management and data management at worldwide scale and performance. Power BI is designed to work with data wherever it lives – in the cloud or on-premises through 150+ connectors that ship out of the box and connectors that are added every month. When customers are building new BI, analytics, or data warehousing projects we are making it radically easy with Azure Synapse Analytics. With built in capabilities for data ingestion, data preparation, machine learning, and visualization, Synapse accelerates time to value, reduces TCO, and provides incredible performance over large data volumes.

What's new and planned for Power BI

This topic lists features that are planned to release from April 2021 through September 2021. Because this topic lists features that may not have released yet, **delivery timelines may change and projected functionality may not be released**. For more information, go to [Microsoft policy](#).

In the **General availability** column, the feature will be delivered within the month listed. The delivery date can be any day within that month. Released features show the full date, including the date of release.

This check mark (✓) shows which features have been released for public preview or early access and for public preview, early access, and general availability.

Power BI Embedded

Embed stunning, fully interactive reports and visuals into your applications.

Feature	Enabled for	Public preview	General availability
Power BI Embedded Gen2	Admins, makers, marketers, or analysts, automatically	Jan 2021	Apr 2021

Power BI Premium

Helping organizations unify self-service and enterprise BI at scale.

Feature	Enabled for	Public preview	General availability
View permissions for dataflows	Admins, makers, marketers, or analysts, automatically	May 2021	
Workspace level refresh for datasets and dataflows	Admins, makers, marketers, or analysts, automatically	May 2021	
Deployment pipelines - dataflows support	Admins, makers, marketers, or analysts, automatically	May 2021	
Azure Data Lake Storage workspace level attach (general availability)	Admins, makers, marketers, or analysts, automatically	-	May 2021
OLS permissions for dataflow entities	Admins, makers, marketers, or analysts, automatically	-	May 2021
Paginated report visual for Power BI reports	Users by admins, makers, or analysts	-	May 2021
ODBC connectivity support for paginated reports	Admins, makers, marketers, or analysts, automatically	Feb 2021	May 2021
Power BI Report Server May release	Users by admins, makers, or analysts	-	May 2021
Advanced network isolation (general availability)	Users by admins, makers, or analysts	May 2021	Jun 2021
Performance Accelerator for Azure Synapse Analytics	Admins, makers, marketers, or analysts, automatically	-	Aug 2021



Feature	Enabled for	Public preview	General availability
Power BI Report Server September release	Users by admins, makers, or analysts	-	Sep 2021

Power BI Pro

In order to build a data culture, everyone needs to be able to discover and collaborate on insights.

Feature	Enabled for	Public preview	General availability
Data lineage, impact, and API enhancements	Admins, makers, marketers, or analysts, automatically	Apr 2021	-
Sharing links for Power BI reports	Users, automatically	Jun 2021	
Background validation for dataflows	Admins, makers, marketers, or analysts, automatically	-	Apr 2021
Smart narratives (general availability)	Admins, makers, marketers, or analysts, automatically	✓ Sep 22, 2020	May 2021
Anomaly detection (general availability)	Admins, makers, marketers, or analysts, automatically	✓ Nov 16, 2020	May 2021
Quick create	Users, automatically	✓ Dec 31, 2020	Jun 2021

Description of **Enabled for** column values:

- **Users, automatically:** These features include changes to the user experience and are enabled automatically.

- **Admins, makers, marketers, or analysts, automatically:** These features are meant to be used by administrators, makers, marketers, or business analysts and are enabled automatically.
- **Users by admins, makers, or analysts:** These features must be enabled or configured by the administrators, makers, or business analysts to be available for their users.

For a list of the countries or regions where Dynamics 365 business applications are available, go to the [International availability guide](#). For more information about geographic areas and datacenters (regions), go to the [Dynamics 365 and Microsoft Power Platform availability page](#).

Power BI Premium

Overview

With each release, Microsoft Power BI Premium continues to deliver features that help organizations accelerate the delivery of insights at scale, meeting the most demanding needs of an enterprise. These investments will span the following areas:

- **Flexible licensing models:** With this release, organizations can choose between per user and per capacity licensing options.
- **Microsoft-owned resource management:** Organizations don't have to worry about workload spikes and capacity utilization that can impact the speed of work.
- **Autoscale and pay-as-you-go (PAYG) pricing:** You'll have the ability to scale beyond resource capacity without experiencing drops in performance.
- Advanced self-service data prep.
- **Interactive experiences over big data** in big data sources, such as Azure Synapse Analytics.
- **Operational reporting and distribution** to distribute pixel perfect reports to millions of users.
- Advanced security.

Azure Data Lake Storage workspace level attach (general availability)

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	May 2021

Feature details

Azure Data Lake Storage can now be attached at a workspace level (in addition to a tenant level) in the Power BI service. This makes it possible for creators and admins to attach Data Lake Storage and control and to assign permissions for individual workspaces. Instead of being limited to one Data Lake Storage account for the entire tenant, you can now have multiple accounts within a tenant. If required, large organizations can now use multiple Data Lake Storage accounts for different needs and purposes.

Workspace level refresh for datasets and dataflows

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	May 2021	-

Feature details

When scheduling refresh in a workspace, you will be able to include all datasets and dataflows. Power BI will handle all the functional dependencies and ensure that refresh is orchestrated in the correct sequence. This will reduce the amount of time needed for scheduling individual artifacts, ensure orchestration is frictionless, and minimize errors.

View permissions for dataflows

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	May 2021	-

Feature details

Currently, only owners of dataflows are able to view the dataflows in the Power BI Service. This new feature allows dataflow owners to grant view permissions to other users. Users with view permissions will be able to browse the entities contained within a dataflow.

OLS permissions for dataflow entities

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	May 2021

Feature details

Currently, if users want to share entities within a dataflow, they have to share the entire dataflow with all the entities it contains. This new feature enables users to give permissions for specific entities without sharing the entire dataflow.

Deployment pipelines - dataflows support

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	May 2021	-

Feature details

Dataflows is an essential part of the Power BI data pipeline. In this feature, we'll add additional capabilities for managing dataflows, including:

1. detecting changes that are made to a dataflow and highlighting those changes in the pipeline **compare** feature.
2. deploying new and updated dataflows across the lifecycle stages (dev/test/prod).
3. maintaining the relationship of dataflows with datasets across deployments and pipeline stages.

Advanced network isolation (general availability)

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	May 2021	Jun 2021

Feature details

The support of Azure private links and Azure networking service tags is now in general availability.

Paginated report visual for Power BI reports

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	-	May 2021

Feature details

The paginated report visual will be available in Power BI Desktop and the Power BI service. Similar to a subreport in paginated reports, the paginated report visual will be connected to the other visuals in your report, and you will be able to interact with the visual in the same ways you interact with other visuals. Additionally, you will be able to export and print the paginated report directly from the Power BI report canvas.

ODBC connectivity support for paginated reports

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Feb 2021	May 2021

Feature details

Power BI paginated reports will be able to connect through the on-premises data gateway to any data source with an ODBC option. This will allow customers to migrate their existing reports from SQL Server Reporting Services to the Power BI service. All customers will have a wider range of data connectivity options for their company's data sources.

Power BI Report Server May release

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	-	May 2021

Feature details

Power BI Report Server provides customers with the flexibility to deploy reporting on-premises, which is necessary for customers who are unable to use the cloud service due to compliance or policy reasons. While the Power BI Report Server isn't a substitute for the breadth of capabilities in the Power BI service, we continue to enhance Power BI Report Server based on customer feedback. In this release, we'll continue to bring more of the Power BI Desktop reporting capabilities to Power BI Report Server. These include reporting, modeling, and analytics capabilities of Power BI reports.

Power BI Report Server September release

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	-	Sep 2021

Feature details

Power BI Report Server provides customers with the flexibility to deploy reporting on-premises, which is necessary for customers who are unable to use the cloud service due to compliance or policy reasons. While the Power BI Report Server isn't a substitute for the breadth of capabilities in the Power BI service, we continue to enhance Power BI Report Server based on customer feedback. In this release, we'll continue to bring more of the Power BI Desktop reporting capabilities to Power BI Report Server. These include reporting, modeling, and analytics capabilities of Power BI reports.

Performance Accelerator for Azure Synapse Analytics

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Aug 2021

Feature details

Microsoft Azure Synapse Analytics will automatically create and manage materialized views for larger Power BI Premium datasets in DirectQuery mode. The materialized views will be based on usage and query patterns. They will be automatically maintained as a self-learning, self-optimizing system. Power BI queries to Azure Synapse in DirectQuery mode will automatically

use these materialized views. This feature will provide enhanced performance and user concurrency.

Power BI Pro

Overview

In order to build a data culture, everyone needs to be able to discover and collaborate on insights. Whether that is authors creating reports using the free Power BI Desktop tool, consumers exploring data in the Power BI service or mobile applications, or users in Office using data to make better decisions, Power BI will continue to evolve to make it easier than ever to work with data. To help organizations foster that data culture, we'll invest in the following:

- Instantly familiar experiences and AI infused insights:** Power BI will continue to advance the state-of-the-art leveraging AI and ML to help everyone easily discover insights. We'll also continue to make authoring Power BI content easier than ever through new Quick Create experiences while continuing to evolve our advanced capabilities like small multiples and composite models.
- Amazing consumer experiences:** Consumer experiences will continue to evolve as well both on the Power BI service as well as on the Power BI mobile applications. It will be easier than ever to discover and share Power BI reports with experiences familiar to those who use Microsoft Office.
- BI woven into the fabric of the organization:** Power BI will be deeply integrated in the tools users know and love. Power BI and Microsoft Teams will deepen our integration, with new experiences in the Power BI app, in Microsoft Teams channels, meetings, and chat. It'll be easier than ever to work with Power BI datasets no matter where users are, including in Microsoft Teams and in Microsoft Excel.

Background validation for dataflows

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Apr 2021

Feature details

When users are done authoring or making changes to a dataflow, they select **Save**. The save action is currently coupled with validation, and validating the dataflow can take a very long time.



Previously, users aren't able to leave the screen, and they have to wait until after validation completes to see their changes.

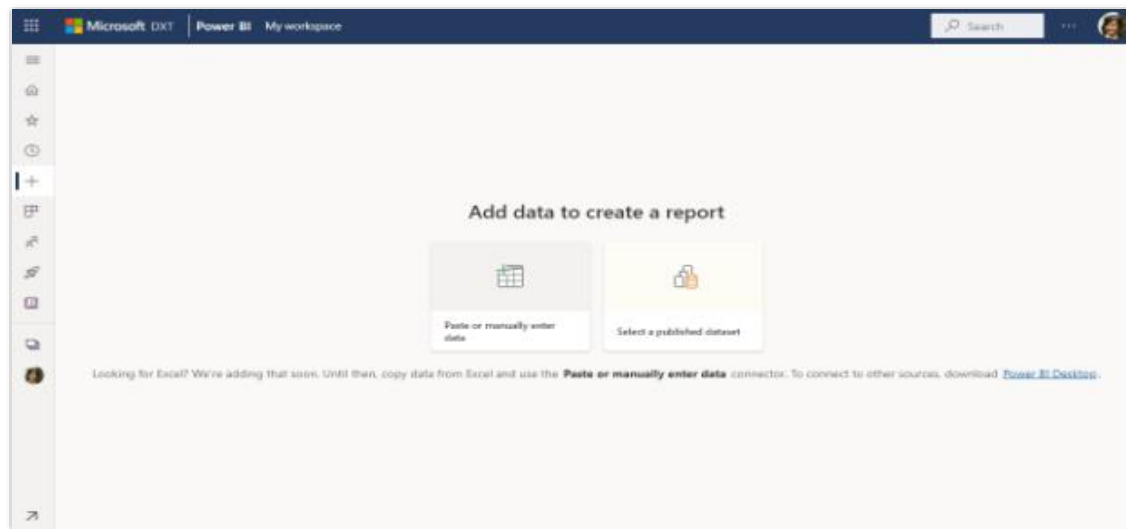
With this update, users can save a dataflow, leave the screen, and continue working. Validation now takes place in the background so users can save the dataflow without friction.

Quick create

Enabled for	Public preview	General availability
Users, automatically	✓ Dec 31, 2020	Jun 2021

Feature details

This feature will help new users get started using the Power BI service by providing a guided experience. Many new users don't have access to an analyst or to an experienced Power BI user. They don't know how to connect to data or create reports, dashboards, or apps, and perhaps their job won't ever require them to create content. This new guided experience will allow them to type or paste some data into Power BI and instantly get an autogenerated report that they can start slicing and dicing. This experience will be enabled in the Power BI service and Microsoft Teams.



Quick create

See also

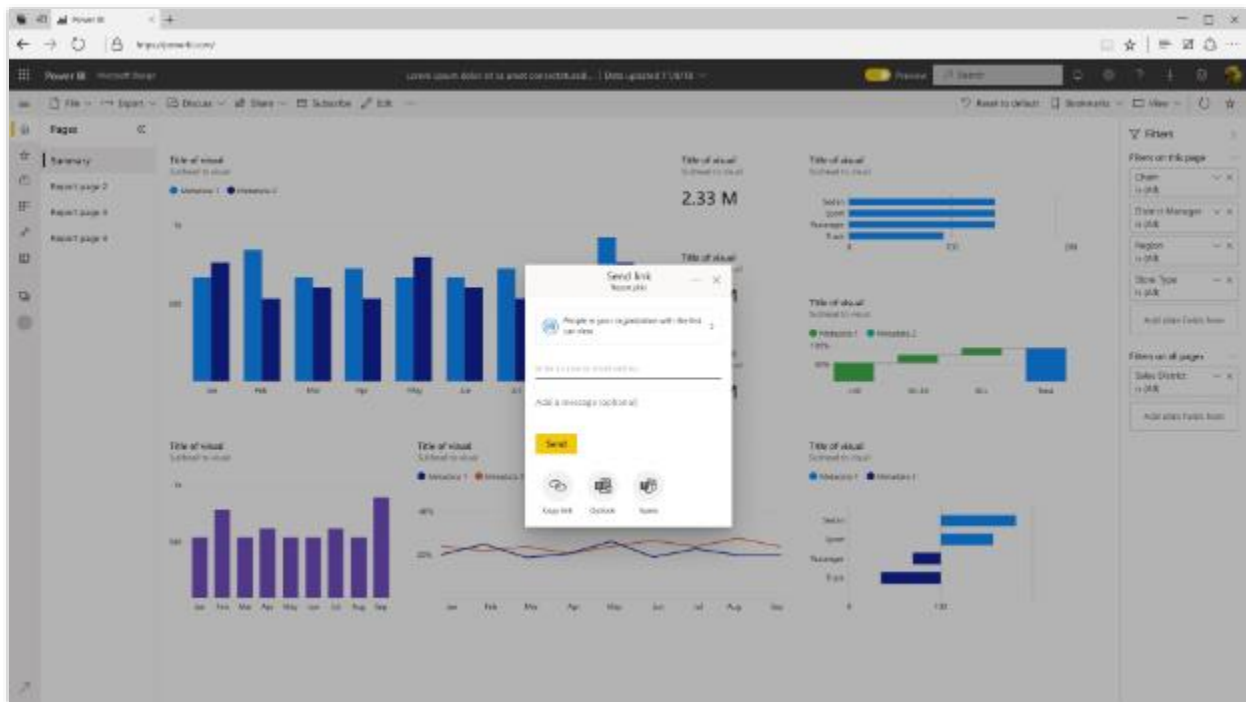
[Quickly create reports in the Power BI service preview](#) (blog)

Sharing links for Power BI reports

Enabled for	Public preview	General availability
Users, automatically	Jun 2021	-

Feature details

Sharing reports in Power BI will be as easy and familiar as sharing in Office. Users will be able to generate a link that gives view access to the report and dataset. This link can then be used by anyone in their organization with the necessary permissions. Giving access to reports and datasets will require reshare permissions. Viewing the shared content will require reshare permissions and for the content to either be shared from a Premium workspace or for the recipient to have a Power BI Pro license.



Sharing with a link

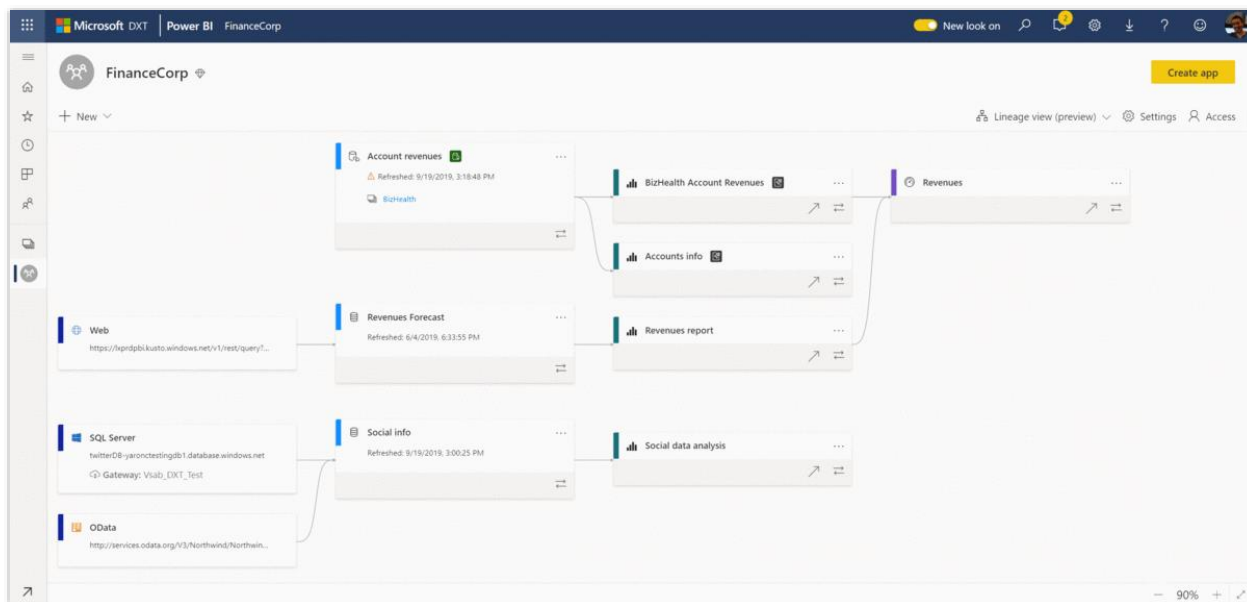
Data lineage, impact, and API enhancements

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Apr 2021	-

Feature details

BI professionals use Power BI to build projects that span numerous artifacts: data sources, dataflows, datasets, reports, and dashboards. Providing insights about the data lineage in these projects is an important component for shaping efficient work processes. Data lineage insights empower users to better manage existing dependencies, troubleshoot issues in projects, derive the potential impact of planned changes, and increase confidence in important business KPIs. Data lineage insights also help BI professionals understand exactly where their data comes from and assess usage of various artifacts.

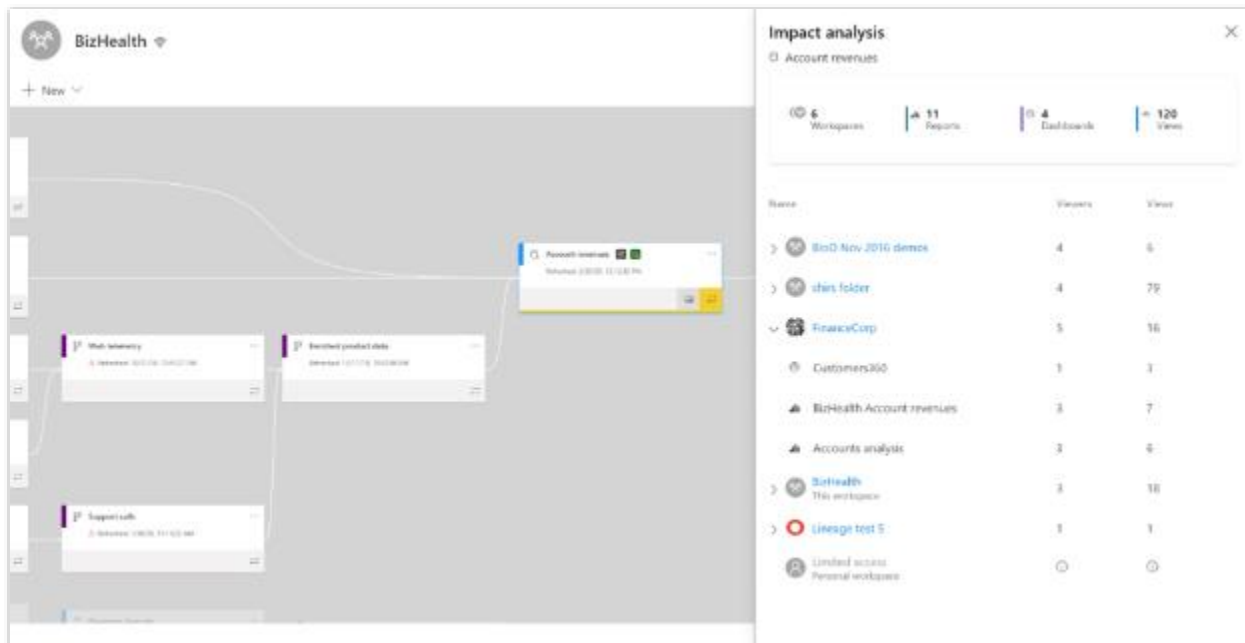
We have already introduced an experience for visualizing data lineage between different Power BI artifacts within a workspace. This experience includes APIs to extract lineage information and supports cross-workspace dependencies.



Data lineage

We have also added improvements to the data lineage view for better impact analysis, including:

- Providing impact analysis for datasets, both from the Power BI service and Power BI Desktop. This analysis can be used to evaluate the impact of planned changes and for troubleshooting.
- Providing impact analysis for connected data sources.
- Allowing users to act (such as notify contacts) based on the predicted impact.
- Providing in-place usage information for both impact analysis and data lineage.
- Providing Admin APIs to efficiently scan Power BI artifact metadata and lineage and an API that returns the list of workspaces that were changed since the last API call.
- Service principal authentication for Power BI read-only Admin APIs that allow you to perform read operations using Power BI Admin APIs without needing to sign in.



Impact analysis

Moving forward, we're investing further in capabilities and APIs, making it easier for professionals and admins to understand the relationships between artifacts and manage Power BI projects in their organization. Such capabilities include:

- Composite models in lineage view, allowing creators to view the connections and lineage of composite models and related artifacts.
- Admin APIs to efficiently scan Power BI artifact metadata and lineage. This new set of APIs will be used by administrators to view lineage information on all artifacts in Power BI. The administrator APIs support the use case of a large tenant with many artifacts and workspaces. With the metadata returned from the APIs, any customer or third-party tool can generate a catalog of Power BI artifacts with rich metadata and lineage cross tenant from the data-source to the dataflow and dataset then to the report and dashboard. Metadata returned will include properties that were not accessible with the existing APIs: description, sensitivity label-id, and endorsement label.
- An API that returns the list of workspaces that were changed since the last API call. With this API, customers can do incremental scans and save time and COGS for Premium workspaces.
- Service principal authentication for Power BI read-only APIs that allow administrators to perform read operations using Power BI admin APIs without needing to sign in. Service principal can replace master user and help customers build a more robust and secure solution when going to production.

Smart narratives (general availability)

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	✓ Sep 22, 2020	May 2021

Feature details

The Smart narrative visualization helps you quickly summarize visuals and reports by providing relevant out-of-the-box insights that are customizable. Using this feature, creators can add narratives to their report to address key takeaways, point out trends, edit the language, and format it to address specific audiences.

See also

[Create smart narratives summaries](#) (docs)

Anomaly detection (general availability)

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	✓ Nov 16, 2020	May 2021

Feature details

Creators will be able to enrich their charts with automatic anomaly detection for time series charts. When a user selects an anomaly, that selection will trigger a further analysis that explains the anomaly. These explanations can be customized by the report creator.

See also

[Anomaly detection](#) (docs)

Power BI Embedded

Overview

Power BI Embedded enables developers to offer world-class analytics without building it themselves. Developers can quickly and easily provide customer-facing reports, dashboards, and analytics in their own applications by using and branding Power BI as their own. Power BI Embedded reduces developer resource needs by automating the monitoring, management, and deployment of analytics, while getting full control of Power BI features and intelligent analytics.

Power BI Embedded Gen2

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Jan 2021	Apr 2021

Business value

- Consistent performance and reliability
- Simplified resource management, making it as hands-off as possible
- Consistent utilization analysis and cost-management

Feature details

Power BI Embedded has been available on a per capacity licensing model since launch. With this new generation of Power BI Embedded, we've made improvements to the underlying architecture, which will help customers increase their ROI, scale rapidly, and get up to 16X faster performance. Customers will also get visibility into utilization at the workspace level, enabling consistent utilization analysis and cost management.



Power Apps

Overview of Power Apps 2021 release wave 1

Microsoft Power Apps is the industry-leading low-code application development platform that underpins Dynamics 365 extensibility, Microsoft 365 customization, and standalone custom line of business applications for customers around the world. Power Apps dramatically lowers the cost, complexity, and time of software development through a range of powerful low-code development tools, a deep data platform in Microsoft Dataverse, and hundreds of connectors to common business data sources.

Use Power Apps [documentation](#) to get expert information and answers to address your needs, regardless of how you use Power Apps.

What's new and planned for Power Apps

This topic lists features that are planned to release from April 2021 through September 2021. Because this topic lists features that may not have released yet, **delivery timelines may change and projected functionality may not be released**. For more information, go to [Microsoft policy](#).

In the **General availability** column, the feature will be delivered within the month listed. The delivery date can be any day within that month. Released features show the full date, including the date of release.

This check mark (✓) shows which features have been released for public preview or early access and for public preview, early access, and general availability.

Sophisticated apps on a unified platform

Sophisticated apps on a unified platform.

Feature	Enabled for	Public preview	Early access*	General availability
Improved debugging capabilities with canvas app Monitor	Admins, makers, marketers, or analysts, automatically	-	-	Apr 2021

Feature	Enabled for	Public preview	Early access*	General availability
Async OnSave events	Admins, makers, marketers, or analysts, automatically	Feb 2021	-	Apr 2021
Duplicate detection Unified Interface experience	Users, automatically	-	Feb 2021	Apr 2021
Improved accessibility for business process flows in mobile	Users, automatically	-	Feb 2021	Apr 2021
Improved apps discovery and selection in Power Apps mobile	Users, automatically	-	Feb 2021	Apr 2021
Improved global relevance search experience in model-driven apps	Users, automatically	-	Feb 2021	Apr 2021
Improved navigation in model-driven apps	Users, automatically	-	Feb 2021	Apr 2021
Merging records has been updated and improved in Unified Interface	Users, automatically	-	Feb 2021	Apr 2021
Multi-line text controls expand in Quick View forms	Users, automatically	-	Feb 2021	Apr 2021
UX improvements to sub grids and form tabs in Dynamics 365 mobile app	Users, automatically	-	Feb 2021	Apr 2021
Search quick actions	Users, automatically	-	Feb 2021	Apr 2021

Feature	Enabled for	Public preview	Early access*	General availability
Export documents to PDF from a canvas app	Admins, makers, marketers, or analysts, automatically	Apr 2021	-	-
Model-driven app adds in-app notifications	Users by admins, makers, or analysts	Apr 2021	-	Jun 2021

* Some features are available to opt-in to some features as part of early access on February 1, 2021, including all mandatory changes that affect users. To learn more, go to [Early access FAQ](#).

Description of **Enabled for** column values:

- **Users, automatically:** These features include changes to the user experience and are enabled automatically.
- **Admins, makers, marketers, or analysts, automatically:** These features are meant to be used by administrators, makers, marketers, or business analysts and are enabled automatically.
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Sophisticated apps on a unified platform

Overview

Power Apps combines the flexibility of a blank canvas that can connect to any data source with the power of rich forms, views, and dashboards modeled over data in Microsoft Dataverse.

Improved apps discovery and selection in Power Apps mobile

Enabled for	Public preview	Early access	General availability
Users, automatically	-	Feb 2021	Apr 2021



Business value

Power Apps mobile apps list experience is modern and intuitive. The discovery of apps is easier, allowing users to quickly access their apps. Further, inline swipe gestures on the apps list make adding to favorites or pinning the apps much easier and faster for future use.

Feature details

Power Apps mobile has an enhanced apps list experience so that users can always get to their most relevant apps quickly and easily.

- Apps are neatly organized in relevant categories, such as favorites and recents. They are presented in a single view for higher discovery.
- More relevant apps, such as favorites, are presented front and center for quick selection.
- Newly introduced swipe gestures allow you to quickly pin an app to your home screen or add an app to your favorites without multiple clicks.
- The overall experience is intuitive.

Model-driven app adds in-app notifications

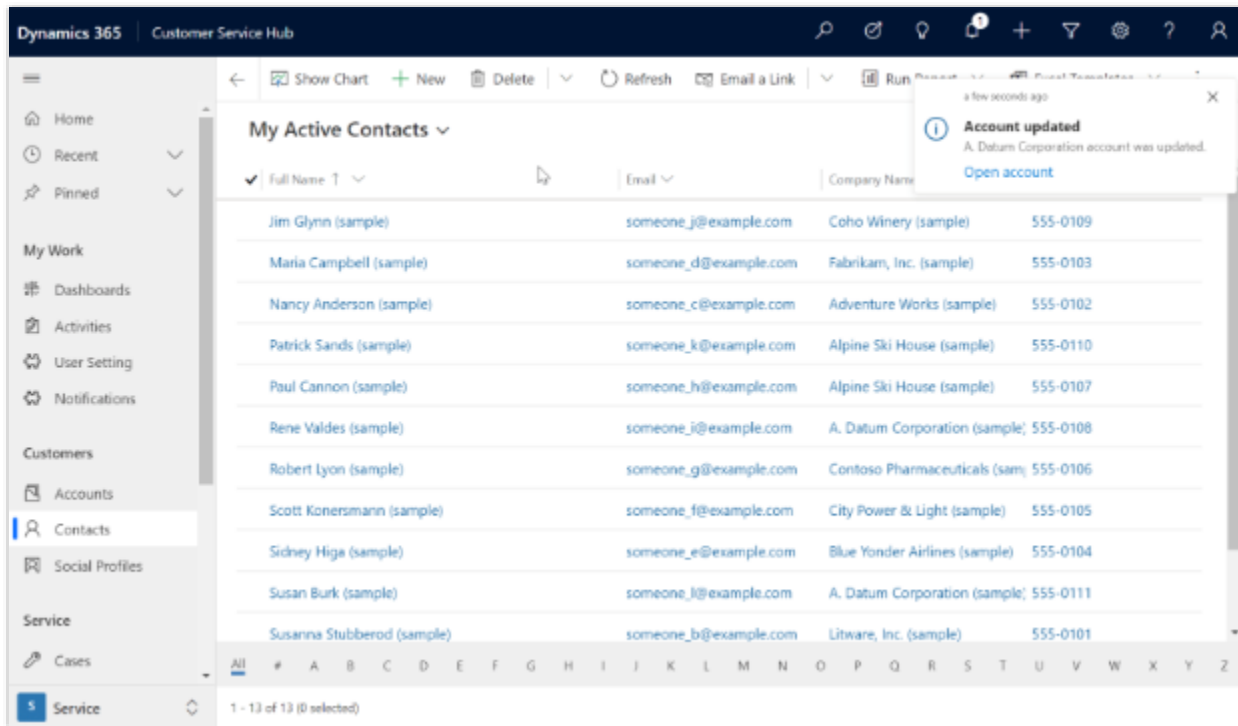
Enabled for	Public preview	Early access	General availability
Users by admins, makers, or analysts	Apr 2021	-	Jun 2021

Business value

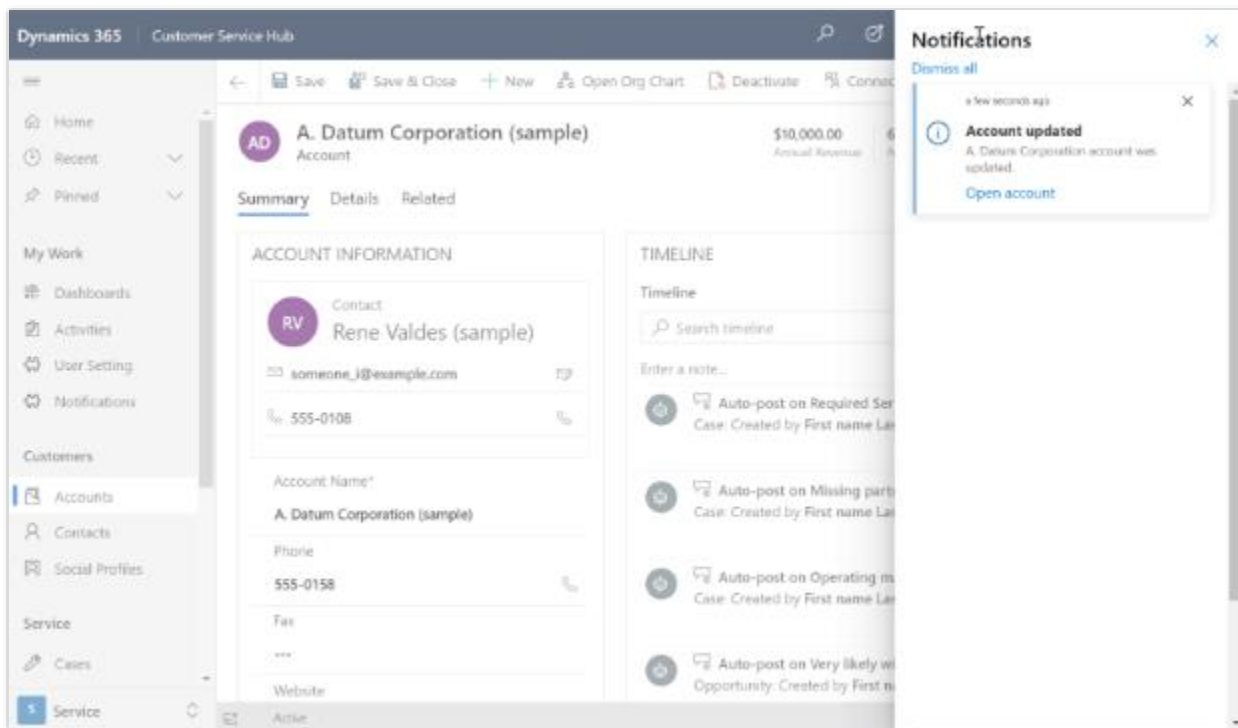
Users can be alerted to key items to address, which makes them more likely to be successful.

Feature details

Model-driven app in-app notifications are shown to users as a notification toast or notification center. Notifications are directed to a specific user and can be sent through external systems, Power Automate, or from within the system. An app maker needs to opt-in to this feature to make the notifications appear for users within the model-driven app.



Model-driven app in-app notification toast



Model-driven app in-app notification center

Async OnSave events

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	Feb 2021	-	Apr 2021

Business value

This provides additional save validation processes for promises and improves user experiences with standard timeout processing.

Feature details

This provides the ability to create Async OnSave events. Async OnSave events will now wait when they provide a promise, and there is also a new timeout if the promise does not resolve within 10 seconds. If it does not resolve within 10 seconds, the save operation will be blocked.

Multi-line text controls expand in Quick View forms

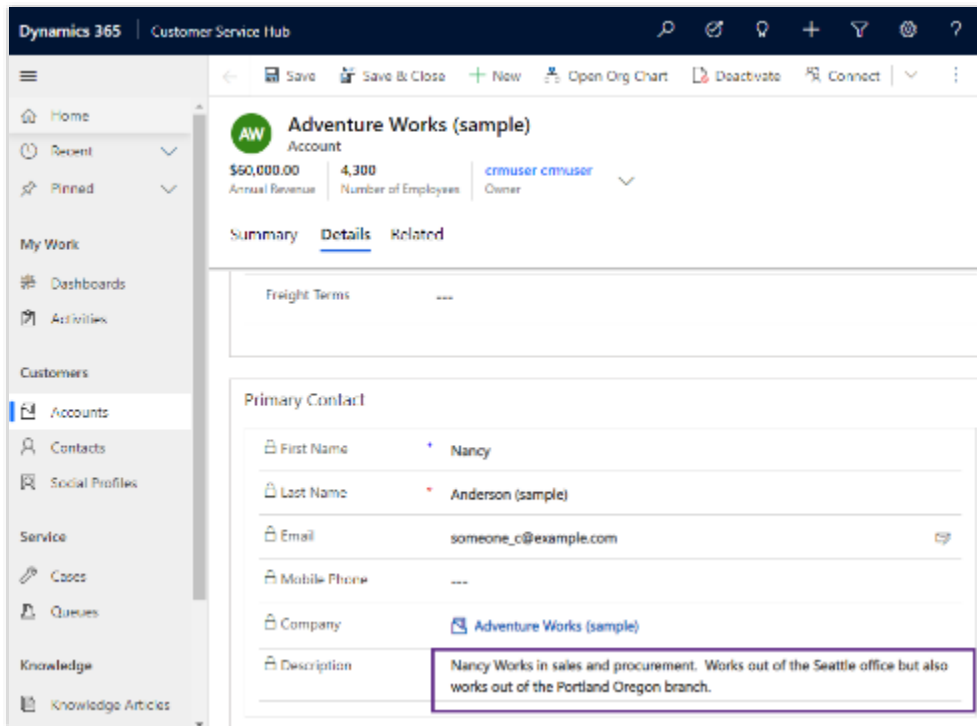
Enabled for	Public preview	Early access	General availability
Users, automatically	-	Feb 2021	Apr 2021

Business value

Users no longer have to click and scroll to see all of the information in a multi-line text field in Quick View forms, which reduces clicks and improves productivity.

Feature details

Users no longer have to click and scroll to view all of the content in a multi-line text field in a Quick View form. The fields will now automatically expand to show the full content when the Quick View form is loaded on a page. You no longer have to take additional steps to view and read information when using a Quick View form on a parent or main form.



Quick View form with multi-line text field.

Improved accessibility for business process flows in mobile

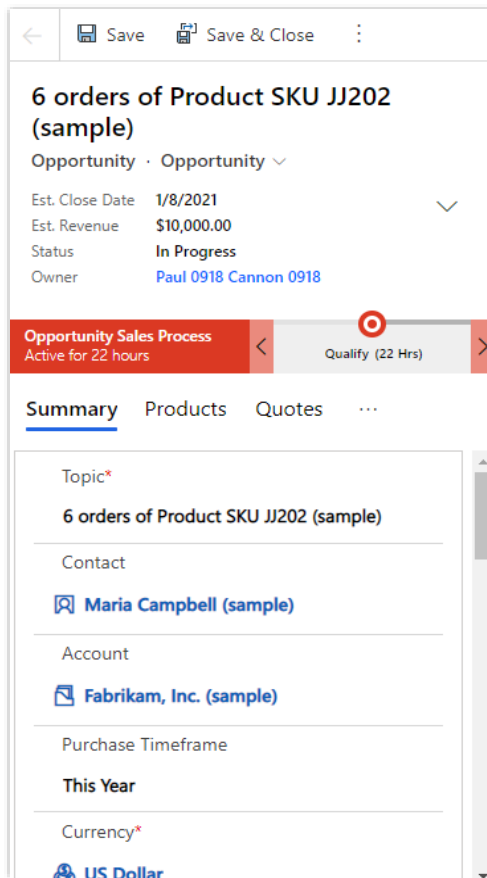
Enabled for	Public preview	Early access	General availability
Users, automatically	-	Feb 2021	Apr 2021

Business value

This change aligns with Microsoft's accessibility standards.

Feature details

You will now be able to view important information about your business process flow on mobile, including the name and time active. This change aligns with Microsoft's accessibility standards. Similar to the business process flows that you see on your desktop, this new design creates a seamless experience across devices and ensures you know which business process flow you are working with if you switch processes.



Business process flow information including its name and time active will now be displayed in mobile.

Search quick actions

Enabled for	Public preview	Early access	General availability
Users, automatically	-	Feb 2021	Apr 2021

Feature details

With improved search experience showing search results as you type, you can be more productive with quick actions available next to the result. Quick actions will give you one-click access to frequently used actions from the suggested results for your typed query. Call, assign, or share a contact quickly without a single click and without losing your context.

UX improvements to sub grids and form tabs in Dynamics 365 mobile app

Enabled for	Public preview	Early access	General availability
Users, automatically	-	Feb 2021	Apr 2021

Feature details

We've made improvements to the usability of how data is presented on a form for model-driven apps on Dynamics 365 mobile app running on iOS and Android.

- Sub grids have a prominent header that separates them from the rest of the sections on the form.
- Form tabs are more discoverable because you can scroll and span horizontally across the screen. When you select a tab, it adjusts the header just enough to reveal the next few tabs.
- Empty sub grids display the option to add a new record inline reducing the number of taps needed to add a record.
- The jump bar (ABC) has been removed from grids, and you can now have the option to **Search this View** at the top of the grid instead of a command.
- Commands on the sub grid are also updated to show up in a drawer from the bottom of the screen, consistent with the page-level commands.

Improved global relevance search experience in model-driven apps

Enabled for	Public preview	Early access	General availability
Users, automatically	-	Feb 2021	Apr 2021

Feature details

Enhancements to search include:

- Prominent and easily discoverable search bar in the header on all pages of a model-driven Power Apps
- Personalized zero query experience that contains a user's recent searches and recently accessed records

- Put Microsoft Dataverse at your fingertips. Suggested results displayed as you type including quick actions pertinent to each result
- Intelligent results for all English-language environments in public cloud, with synonym understanding, semantic parsing, abbreviations support and common world knowledge support.
- Redesigned results page with improved ranking and grouping for better readability

When relevance search is turned on all of these enhancements will be enabled by default to all users in their environment on mobile and web.

Export documents to PDF from a canvas app

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	Apr 2021	-	-

Business value

This feature addresses a long-time top ask from our community ideas forum. Users asked to allow apps to "print" custom-formatted reports and other outputs using a full set of information available to the app at the time a user is using it.

Feature details

Power Apps makers will now be able to use the Power Apps Studio to add documents to the layout of the app. Then, they'll be able to leverage the new commands to allow users to export those documents to PDF on demand from an app.

Improved debugging capabilities with canvas app Monitor

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	-	-	Apr 2021

Business value

Monitor allows makers greater collaboration and user published app debugging capabilities, which allows users to diagnose and troubleshoot applications more quickly.

Feature details

With improved capabilities to import/export log files, share diagnostic sessions, debugging user sessions on the published app, and inspecting the app state in real-time, makers can easily identify problem areas and fix them in their apps.

Improved navigation in model-driven apps

Enabled for	Public preview	Early access	General availability
Users, automatically	-	Feb 2021	Apr 2021

Business value

Enable users to be more productive in both single and multi-session model-driven apps.

Feature details

In 2021 release wave 1, navigation will be improved with the following capabilities:

- The page side pane will allow a page to be opened to the far side of the current page and stay open while the current page is open. This will allow an edit experience for the related data.
- App makers are able to override multi-session app navigation to allow click to open to a side pane, multi-session new session, or multi-session new page tab.

Duplicate detection Unified Interface experience

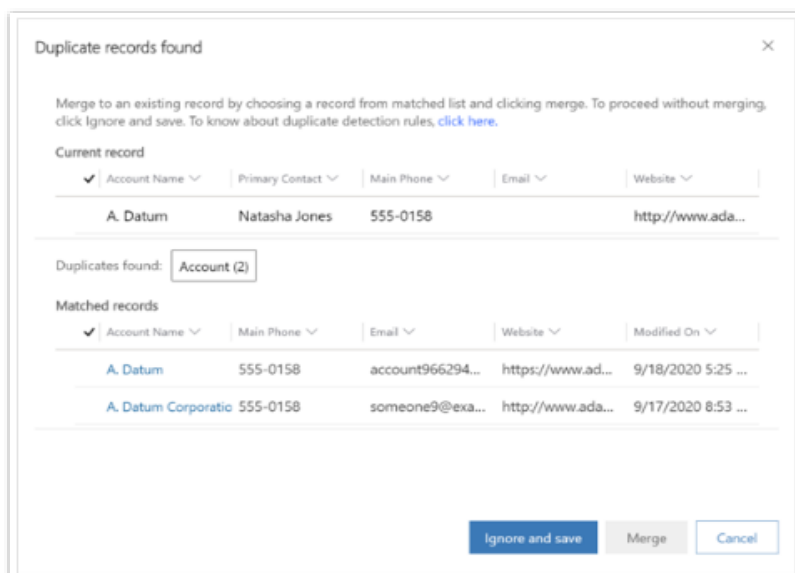
Enabled for	Public preview	Early access	General availability
Users, automatically	-	Feb 2021	Apr 2021

Business value

This new experience was introduced in October 2020, but it required admins to enable it. In April 2021, this will be the default user experience.

Feature details

Duplicates can happen when users create or edit records or when data is imported. Microsoft Dataverse helps you address potential issues by detecting duplicates for active records like accounts and contacts. The updated experience is designed as a Unified Interface dialog and is integrated seamlessly with merging records to help you manage your data integrity when duplicate records are found. With this new duplicate detection experience you can quickly find and manage records with easier access to merge the duplicates and keep the record you want. When you merge a record, any related or child records are also merged.



Duplicate detection dialog

Merging records has been updated and improved in Unified Interface

Enabled for	Public preview	Early access	General availability
Users, automatically	-	Feb 2021	Apr 2021

Business value

This new experience was introduced in October 2020, but it required admins to enable it. Coming in the April 2021 release, this feature will be the default user experience.

Feature details

Duplicate records can happen in your data when users create or edit records manually or import data in bulk. Now, when a duplicate record is detected, you can easily merge data and retain the record you want. You can also choose up to two records to merge from the view or list page and merge the data into a single record with the new Unified Interface merge record dialog experience. When you merge a record, any related or child records are also merged.

Merge contacts [X]

Choose data from the fields to combine the records into a single primary record. ⓘ

Merge records by choosing fields with data ⓘ View fields with conflicting data

Select Primary record [🔗] Maria Campbell [🔗] Maria Campbell (sample)

Select all fields in this section Select all fields in this section

Last Name Campbell Campbell (sample)

Job Title Volume Purchaser Purchasing Manager

Email someone_e@example.com someone_d@example.com

Preferred Method of Contact Phone Any

Address 1: Street 1 4567, Main Street 3747 Likins Avenue

Address 1: City Redmond Monroe

Address 1: ZIP/Postal Code 32452 37925

Address 1: Country/Region US U.S.

Select all fields in this section Select all fields in this section

Merge records

Power Apps portals

Overview of Power Apps portals 2021 release wave 1

Power Apps portals empowers organizations to extend data and business process to their internal and external users in a secure manner. It allows organizations to create multilingual, responsive, and branded portals.

Use Power Apps portals [documentation](#) to get detailed information about how portals can be used for a variety of use cases.

The 2021 release wave 1 provides significant improvements for portals developers of all skill levels, improving the low code toolset to reduce the time taken to build sophisticated websites, enabling support for familiar pro-developer tools for advanced developers, and allowing organizations to increase their reach by enabling new channels.

What's new and planned for Power Apps portals

This topic lists features that are planned to release from April 2021 through September 2021. Because this topic lists features that may not have released yet, **delivery timelines may change and projected functionality may not be released**. For more information, go to [Microsoft policy](#).

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Core Portal Platform

Core Portal Platform covers capabilities, such as portal CMS, Authentication, Authorization, and Search.

Feature	Enabled for	Public preview	General availability
Support for Microsoft Azure Analysis Services live connections and CustomData function	Users by admins, makers, or analysts	-	Apr 2021

Description of **Enabled for** column values:

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Core Portal Platform

Overview

Core Portal Platform enables all core portal capabilities (Content Management System (CMS), Authentication, Authorization, and Search) that allows makers to create sophisticated portals.

Support for Microsoft Azure Analysis Services live connections and CustomData function

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	-	Apr 2021

Feature details

As part of this feature, makers will be able to embed Power BI dashboards and reports utilizing live connection with Azure Analysis Services.

This feature also allows portal developers to use the **CustomData** Power BI function to send additional context for personalizing reports and dashboards for users.

Power Automate

Overview of Power Automate 2021 release wave 1

Microsoft Power Automate makes it possible to grow your business productivity by automating repetitive, time-consuming tasks. Power Automate provides a better way to get things done across your organization through digital and robotic process automation (RPA).

There are many areas that are being invested in for Power Automate as a part of 2021 release wave 1. First, Microsoft Teams, with more than 100 Million daily active users, is central to Microsoft's remote work strategy, and Power Automate is key to the Microsoft Teams extensibility strategy by providing automation for your collaboration scenarios. We will build more and easier entry points across the Microsoft Teams experience, such as in meetings/calendars and other types of conversations. It will also be possible for administrators to push solutions that contain flows across the teams in their organization.

We will continue our deeper integrations Dynamics 365, Power Apps, Power BI, and Microsoft Dataverse, and we're making it easier for profession developers and users to collaborate and deploy solutions on Microsoft Power Platform.

Power Automate Desktop was released to general availability in December 2020, and it enables makers to automate the diversity of applications on their desktops. Going forward, we will provide migration for existing Softomotive and UI flows customers, secure credential management, and much more.

Beyond Power Automate Desktop itself, we're building enterprise trust by providing what centers of excellence need in the cloud: centralized management, monitoring, and reporting that allows users to scale beyond the per-flow experience in the portal. These experiences will provide security, governance, and administration so administrators can extend their control over desktop flow artifacts in the Power Platform admin center and Center of Excellence toolkit.

Effective automation in any organization also relies heavily on AI to be reliable and scalable, so we are further investing in content intelligence – specifically, in forms understanding where we'll be adding better support for multiple layouts, extracting content from tables, working with checkboxes and radio buttons on forms and more languages.

Finally, there is a new component in Power Automate: process advisor. We'll provide users with the insights into their tasks, with a process map showing variations across different instances and analytics. With this knowledge customers will make more informed business decisions including optimizing their processes and receive recommendations on areas of automation.

What's new and planned for Power Automate

This topic lists features that are planned to release from April 2021 through September 2021. Because this topic lists features that may not have released yet, **delivery timelines may change and projected functionality may not be released**. For more information, go to [Microsoft policy](#).

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Cloud flows

Features for Power Automate cloud flows.

Feature	Enabled for	Public preview	Early access*	General availability
Use connection references to simplify application lifecycle management	Admins, makers, marketers, or analysts, automatically	-	-	Apr 2021
Trigger flows when a Microsoft Dataverse action is called	Admins, makers, marketers, or analysts, automatically	-	Jan 2021	Apr 2021
Improved onboarding experiences for new users	Admins, makers, marketers, or analysts, automatically	Mar 2021	-	Apr 2021
Search records in Microsoft Dataverse using relevance search	Admins, makers, marketers, or analysts, automatically	-	Feb 2021	Apr 2021

Feature	Enabled for	Public preview	Early access*	General availability
Improved licensing and usage visibility for Power Automate environments and tenants	Admins, makers, marketers, or analysts, automatically	Mar 2021	-	Apr 2021
Admin reports to show API usage for users and flows	Admins, makers, marketers, or analysts, automatically	Apr 2021	-	-
Create Finance and Operations workflows from cloud flows	Admins, makers, marketers, or analysts, automatically	Apr 2021	-	-
Governance capabilities to prevent data loss	Admins, makers, marketers, or analysts, automatically	Apr 2021	-	-
Manage solution-based flows	Admins, makers, marketers, or analysts, automatically	Apr 2021	-	-

Desktop flows

Features for desktop flows (RPA).

Feature	Enabled for	Public preview	Early access*	General availability
Support UI automation with Citrix	Admins, makers, marketers, or analysts, automatically	-	-	Sep 2021

Feature	Enabled for	Public preview	Early access*	General availability
Web automation to access cross-domain iFrames	Admins, makers, marketers, or analysts, automatically	-	-	Sep 2021

Process advisor

Process advisor is a process mining capability in Power Automate.

Feature	Enabled for	Public preview	Early access*	General availability
Edit and annotate process recordings	Admins, makers, marketers, or analysts, automatically	✓ Dec 10, 2020	-	May 2021
Invite colleagues to process recordings	Admins, makers, marketers, or analysts, automatically	✓ Dec 10, 2020	-	May 2021
Record repetitive, manual processes with Power Automate Desktop	Admins, makers, marketers, or analysts, automatically	✓ Dec 10, 2020	-	May 2021
View process maps and analytics for your processes	Admins, makers, marketers, or analysts, automatically	✓ Dec 10, 2020	-	May 2021

* Some features are available to opt-in to some features as part of early access on February 1, 2021, including all mandatory changes that affect users. To learn more, go to [Early access FAQ](#).

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Desktop flows

Overview

In 2021 release wave 1, there will be a number of different new capabilities for users of desktop flows (the flows that you build as part of the *Robotic Process Automation (RPA)* offering). Broadly, these cover increased support for applications and websites as well as working in heterogenous environments.

Web automation to access cross-domain iFrames

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	-	-	Sep 2021

Feature details

Currently, desktop flows cannot capture iFrames. With this feature, you will be able to capture iFrame elements, unblocking the scenario where your automation needs to work with iFrames on a webpage.

Support UI automation with Citrix

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	-	-	Sep 2021

Feature details

Today, you can automate Citrix systems using image recognition with desktop flows. Although image recognition is flexible and can work for any system, it is not as reliable as UI automation which leverages the UI elements using accessibility APIs.

In this release, we will improve our support for UI automation on Citrix environments by having a runtime inside the target Citrix environment. This runtime will be able to communicate with the Citrix session and thus directly access UI elements.

Cloud flows

Overview

In 2021 release wave 1, there are a number of different new capabilities for users of cloud flows (the flows that you build in the Power Automate portal which connect to 400+ services through connectors). This is our *Digital Process Automation* offering and covers:

- Flow creation
- Acquisition and retention
- Administration
- Lifecycle
- Integrations (Microsoft Dataverse, Dynamics 365, Azure, Microsoft 365, Microsoft Teams)

Improved onboarding experiences for new users

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	Mar 2021	-	Apr 2021

Feature details

This feature provides new experiences that make it easier for customers to onboard and get started creating flows in Power Automate.

Improved licensing and usage visibility for Power Automate environments and tenants

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	Mar 2021	-	Apr 2021

Feature details

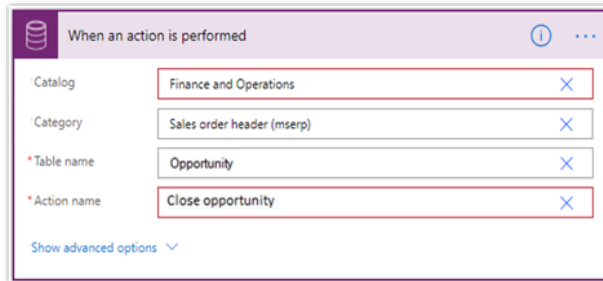
Power Automate will provide additional reporting and analytics to help customers better understand their usage against entitlement limits in their license. Visibility will be provided in the Power Platform admin center as well as within the flow analytics page.

Trigger flows when a Microsoft Dataverse action is called

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	-	Jan 2021	Apr 2021

Feature details

With this feature, you will be able to create flows that trigger when an action is performed in Microsoft Dataverse. This feature improves working with the common events model and even provides better integration with Dynamics 365 Finance and Operations.



An action related to an entity is performed.

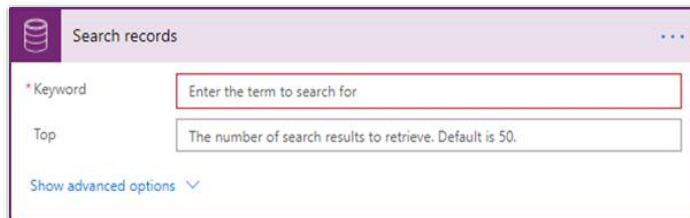
Search records in Microsoft Dataverse using relevance search

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	-	Feb 2021	Apr 2021

Feature details

With this feature, you can create cloud flows that include a Microsoft Dataverse action to search records using [relevance search](#), which is an AI-based fuzzy search that’s built on Azure Cognitive Search.

Apart from basic cross-entity search, this action provides support for matches based on [Lucene query syntax](#). This gives you capabilities like Boolean operators, wildcards, fuzzy search, proximity search, term boosting and regex matching.



Search records action with standard options

Create Finance and Operations workflows from cloud flows

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	Apr 2021	-	-

Feature details

Makers can create cloud flows that run Finance and Operations workflows, passing on the context of a Finance and Operations record. This feature allows makers to combine cloud flows with Finance and Operations workflows to leverage the strengths of each.

Governance capabilities to prevent data loss

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	Apr 2021	-	-

Feature details

Admins will have more governance capabilities for preventing data loss, including connector restrictions, connector action restrictions, endpoint filtering, and restrictions for sharing connections.

Use connection references to simplify application lifecycle management

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	-	-	Apr 2021

Feature details

Makers can use connection references in flows to share connections between flows. When a solution is imported, there will be a guided experience for providing new connections within the connection references, allowing the flows to run successfully after importation. The use of connection references will simplify application lifecycle management.

Admin reports to show API usage for users and flows

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	Apr 2021	-	-

Feature details

Administrators can use Power Platform admin center license reports to view the API usage of their flows and users. This feature helps administrators to determine when their flows and users are approaching usage limits. Admins can then use this information to allocate licenses.

Manage solution-based flows

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	Apr 2021	-	-

Feature details

Makers can create and manage solution-based flows in the **My flows** experience, along with flows that are not in solutions. Here, makers can quickly add any flow into a solution.

Process advisor

Overview

Process advisor is a process mining capability in Power Automate that reveals insights into how people work by providing rich visualizations where users can identify repetitive, time-consuming processes best suited for automation.

Record repetitive, manual processes with Power Automate Desktop

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	✔ Dec 10, 2020	-	May 2021

Feature details

With process advisor, users will be able to create a process and add a recording they make of that process on their desktop. They will ultimately be able to see this in the process-based process map with the associated analytics. Specifically, users will be able to:

- Create a new process.
- Create a recording to add to that process.
- Analyze that process to view the process map and analytics.

Invite colleagues to process recordings

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	✔ Dec 10, 2020	-	May 2021

Feature details

Users who create processes in process advisor can invite others to record their experiences running the task. This way, the process owner will be able to see different variations of the process.

Edit and annotate process recordings

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	✓ Dec 10, 2020	-	May 2021

Feature details

With this feature, users who create processes and those who record them can edit and annotate their recordings so that they can be normalized to a common set of steps to improve viewability on the process map. They will also be able to remove sensitive personal data in the edit experience.

View process maps and analytics for your processes

Enabled for	Public preview	Early access	General availability
Admins, makers, marketers, or analysts, automatically	✓ Dec 10, 2020	-	May 2021

Feature details

With this feature, users can view a map of their processes and also view a default set of analytics that are based on the recording and steps for that process.

Power Virtual Agents

Overview of Power Virtual Agents 2021 release wave 1

Power Virtual Agents enables anyone in your organization to create AI-powered bots that can chat with users about specific topics. They can answer routine questions, resolve common issues, or automate tasks that take up valuable customer or employee time.

The 2021 release wave 1 brings improvements in the authoring experience with list variables, topic suggestions from bot sessions, Adaptive Cards, and more. We're also building on our Power Automate integration with better error handling and new topic trigger management to improve your bot's triggering capabilities. Finally, we will acquire PCI and HITRUST certifications, and support for the government cloud.

Creating a bot is typically a complex and time-intensive process, requiring long content update cycles and a team of experts. Power Virtual Agents gives anyone in your organization the ability to create powerful custom bots using an easy, code-free graphical interface, without the need for AI experts, data scientists, or teams of developers. A bot can interact with users, ask for clarifying information, and ultimately answer a user's questions.

With deep integration with Power Automate and the Microsoft Bot Framework, authors can extend their bots to integrate with API back ends, which will enable the bots to handle additional topics, limited only by the author's imagination. You can deploy bots to many channels including websites, Microsoft Teams, and Facebook. As users interact with a bot, the author can see which topics are performing well, and which need improvement.

Use Power Virtual Agents [documentation](#) to get detailed information and answers to address your needs, from basic authoring tips all the way to complex bot configuration topics.

What's new and planned for Power Virtual Agents

This topic lists features that are planned to release from April 2021 through September 2021. Because this topic lists features that may not have released yet, **delivery timelines may change and projected functionality may not be released**. For more information, go to [Microsoft policy](#).

In the **General availability** column, the feature will be delivered within the month listed. The delivery date can be any day within that month. Released features show the full date, including the date of release.

This check mark (✓) shows which features have been released for public preview or early access and for public preview, early access, and general availability.



Bot configuration

Configure the bot to suit business needs.

Feature	Enabled for	Public preview	General availability
Acquire PCI and HITRUST certifications for Power Virtual Agents	Admins, makers, marketers, or analysts, automatically	-	Apr 2021
Better together with Portals	Users by admins, makers, or analysts	-	Apr 2021
Sharing bots with a security group	Users by admins, makers, or analysts	-	Apr 2021
Support for Government Cloud	Users by admins, makers, or analysts	-	Apr 2021

Core authoring

Use the Power Virtual Agents conversational editor to construct your dialogs, add variables or synonyms, and incorporate Power Automate flows that let connect to other systems.

Feature	Enabled for	Public preview	General availability
Add variable assignments and formula expressions in topic nodes	Users by admins, makers, or analysts	-	Apr 2021
Insert Adaptive Cards	Users by admins, makers, or analysts	-	Apr 2021
Understand and handle Power Automate flow integration	Admins, makers, marketers, or analysts, automatically	-	Apr 2021

Feature	Enabled for	Public preview	General availability
Use list variables	Users by admins, makers, or analysts	-	Apr 2021
Get guidance on topic trigger management	Admins, makers, marketers, or analysts, automatically	Feb 2021	Apr 2021
Use and see different versions of a topic	Admins, makers, marketers, or analysts, automatically	Mar 2021	May 2021

Enhanced natural language capabilities

AI and natural language capabilities enable the system to understand and parse complex user language.

Feature	Enabled for	Public preview	General availability
Intent triggering improvement from live traffic	Users by admins, makers, or analysts	Apr 2021	-
Get multi-turn topic suggestions from webpages	Users by admins, makers, or analysts	-	Apr 2021

Description of **Enabled for** column values:

- **Users, automatically:** These features include changes to the user experience and are enabled automatically.
- **Admins, makers, marketers, or analysts, automatically:** These features are meant to be used by administrators, makers, marketers, or business analysts and are enabled automatically.
- **Users by admins, makers, or analysts:** These features must be enabled or configured by the administrators, makers, or business analysts to be available for their users.



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Bot configuration

Overview

The bot can be configured to suit the individual needs of an organization and to provide further extensibility with other services and features. This includes authentication provider support, the use of Microsoft Bot Framework Skills to augment the bot's capabilities, integration with Microsoft Teams and Facebook channels, and more.

Sharing bots with a security group

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	-	Apr 2021

Feature details

In addition to being able to set the bot access rules for bot managers or everyone in the tenant, bot managers will be able to set a security group to control the access to their bot.

Support for Government Cloud

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	-	Apr 2021

Feature details

Use Power Virtual Agents to create chatbots that securely handle information for your government organization.

Acquire PCI and HITRUST certifications for Power Virtual Agents

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Apr 2021

Feature details

Use Power Virtual Agents to create chatbots that comply with Payment Card Industry (PCI) and Health Information Trust Alliance (HITRUST) standards and securely handle your organization's information.

Better together with Portals

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	-	Apr 2021

Feature details

In 2021 release wave 1, you can include Power Virtual Agents in templates, seamlessly create bots in Portals, and remove friction when transitioning to Power Virtual Agents to edit. Users will also get access to SSO and context sharing business model updates.

Core authoring

Overview

Creating a bot with Power Virtual Agents is easy to do with the no-code authoring canvas, and there are a number of ways you can manage how topics interact, how you want the conversation to flow, and what it should feel like.

It's also easy to test the bot without having to fully deploy the bot whenever you make a small change. There are also lesson topics that guide you through topic authoring from simple to complex scenarios, as well as default system topics, and you can choose what language you want your bot to use.

Insert Adaptive Cards

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	-	Apr 2021

Feature details

Easily author rich content without needing to write code by using [Microsoft Adaptive Cards](#) directly from within the authoring experience. Adaptive Cards will be displayed consistently wherever your customers are and tailored to their screen size and device capability, including images and videos.

Use list variables

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	-	Apr 2021

Feature details

Bot authors can use a list variable to take array outputs from Power Automate and Bot Framework Skills and present them as a list of choices in a bot question.

Understand and handle Power Automate flow integration

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Apr 2021

Feature details

Use the **Call an action** node to refresh and replace Power Automate flows directly in a conversation without removing or replacing the flow, and see changes made in Power Automate directly in the Power Virtual Agents authoring canvas.

For example, if you change the variable names, input, and output of a flow, the changes will be reflected directly in the authoring canvas. You'll also receive notifications about these changes from within Power Virtual Agents.

Get guidance on topic trigger management

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Feb 2021	Apr 2021

Feature details

Power Virtual Agents will proactively help and guide bot authors to identify problematic trigger phrases and adjust them. This will help to reduce cases where multiple topics may serve the similar (or the same) intent.

Use and see different versions of a topic

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Mar 2021	May 2021

Feature details

Power Virtual Agents will enable the bot author to go back to an earlier version of a topic, test that version of the topic, and publish it.

Add variable assignments and formula expressions in topic nodes

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	-	Apr 2021

Feature details

Directly assign static values to variables, and make string, date, and number operations on top of variables directly within Power Virtual Agents without needing to call an external Power Automate flow.

Enhanced natural language capabilities

Overview

You can go beyond basic authoring in Power Virtual Agents by taking advantage of a number of advanced features. These features enhance and improve upon the authoring experience by letting you:

- Expand the types of information the bot understands and can parse back.
- Use existing support content from webpages, such as FAQs, to quickly create a robust set of topics that can be used in a bot.

Get multi-turn topic suggestions from webpages

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	-	Apr 2021

Feature details

Today, you can point Power Virtual Agents at an FAQ webpage, and it will crawl the site and extract question and answer pairs to bring suggestions into the bot to help "seed" it with content quickly. So far, those suggestions have been single turn as a question and answer.

In 2021 release wave 1, Power Virtual Agents will add the ability to extract multi-turn topic suggestions, automatically generating more elaborate dialogs that are valuable for troubleshooting and other scenarios.

Intent triggering improvement from live traffic

Enabled for	Public preview	General availability
Users by admins, makers, or analysts	Apr 2021	-

Feature details

Every time a bot can't determine intent from the user utterance, it can ask the user which topic it meant to trigger. As users repeat this process, the bot automatically learns from the answers and improves its triggering performance.

Microsoft Dataverse

Overview of Microsoft Dataverse 2021 release wave 1

Microsoft Dataverse is a low-code data platform that allows you to easily build scalable and interconnected applications, automations, and agents using common data, security, and business logic.

Deliver services with agility

Quickly add business value with an extensible data platform that uses out-of-the-box common tables, extended attributes, semantic meanings, and an open ecosystem enabled by Common Data Model.

Increase scale and efficiency

Boost productivity and reduce costs by quickly developing applications, processes, and reusable data schemes. Repeatably build, validate, and deploy your applications using GitHub and Azure DevOps.

Make your data work smarter

Get accurate insights by adding low-code AI tools to your process automation. Identify and resolve duplicated and conflicting data with a managed data platform that includes built-in business logic and rules.

Rely on the security of a trusted platform

Protect your data with a robust security management infrastructure that provides critical security and compliance capabilities—advanced encryption, rich access control, and deep integration with Azure Active Directory.

AI Builder

Overview of AI Builder 2021 release wave 1

AI Builder is a Microsoft Power Platform capability that gives everyone in your organization, regardless of their technical expertise, the ability to add AI capabilities to the applications and business process flows they create and use. Using AI is made easier with the native integration of AI Builder in the Power Apps and Power Automate experiences.

2021 release wave 1 will introduce new AI functionalities in preview as well as improve the ones that you're already using.

What's new and planned for AI Builder

This topic lists features that are planned to release from April 2021 through September 2021. Because this topic lists features that may not have released yet, **delivery timelines may change and projected functionality may not be released**. For more information, go to [Microsoft policy](#).

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Form processing improvements

Form processing improvements for better accuracy and document coverage.

Feature	Enabled for	Public preview	General availability
Specify which pages to analyze	Admins, makers, marketers, or analysts, automatically	Apr 2021	
Explicitly tag tables in form processing	Admins, makers, marketers, or analysts, automatically	May 2021	

Feature	Enabled for	Public preview	General availability
Form processing typed fields	Admins, makers, marketers, or analysts, automatically	Jun 2021	

New AI Builder capabilities

AI Builder continues to add new features and capabilities that bring the power of AI to your organization in Microsoft Power Platform.

Feature	Enabled for	Public preview	General availability
AI Builder availability in new regions	Admins, makers, marketers, or analysts, automatically	-	Jun 2021
Form processing model compose (general availability)	Admins, makers, marketers, or analysts, automatically	-	Jun 2021
Invoice processing (general availability)	Admins, makers, marketers, or analysts, automatically	-	Jun 2021
Receipt processing (general availability)	Admins, makers, marketers, or analysts, automatically	-	Jun 2021
IDs processing (general availability)	Admins, makers, marketers, or analysts, automatically	-	Jun 2021
Signature detection in form processing	Admins, makers, marketers, or analysts, automatically	-	Sep 2021

Description of **Enabled for** column values:

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For a list of the countries or regions where Dynamics 365 business applications are available, go to the [International availability guide](#). For more information about geographic areas and datacenters (regions), go to the [Dynamics 365 and Microsoft Power Platform availability page](#).

Form processing improvements

Overview

AI Builder continues to make improvements and add features to form processing. Improved accuracy helps you get better results, and new features help you use form processing to extract data from additional form layouts.

Explicitly tag tables in form processing

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	May 2021	-

Feature details

With this new feature, if a table is not detected – or is detected incorrectly – you will be able to manually draw the table to teach the AI model how to recognize it. This will improve the accuracy of the table's data extraction and allow you to capture data from tables that weren't detected before.

Form processing typed fields

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Jun 2021	-

Feature details

We are adding the ability to define the field type. This will make consuming the extracted results easier, as it will help to normalize the results. The types that will be supported are:

- Text
- Text with no spaces
- Text alphanumeric
- Number
- Currency
- Date

Specify which pages to analyze

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Apr 2021	-

Feature details

This new capability allows you to specify the page range you want to process, which is helpful when extracting data from long documents or when the data that you want to extract is located on a specific page. This will also help improve process and cost optimization.

New AI Builder capabilities

Overview

AI Builder continues to add new features and capabilities that bring the power of AI to your organization in Microsoft Power Platform.

AI Builder availability in new regions

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Jun 2021

Feature details

AI Builder is available in environments that are created in Switzerland.

See also

[Feature availability by region](#) (docs)

Invoice processing (general availability)

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Jun 2021

Feature details

AI Builder invoice processing is being released for general availability. Features in general availability require [AI Builder capacity add-ons](#) to use.

See also

[Feature availability by region](#) (docs)

Receipt processing (general availability)

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Jun 2021

Feature details

AI Builder receipt processing prebuilt model is being released for general availability. Features in general availability require [AI Builder capacity add-ons](#) to use.

See also

[Feature availability by region](#) (docs)

Form processing model compose (general availability)

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Jun 2021

Feature details

Makers can add different document layouts to a form processing model. This allows you to build a unique model to process a broad range of document layouts and simplifies the data extraction automation. This functionality is being released as generally available and requires [AI Builder capacity add-ons](#) to use.

See also

[Overview of the form processing model](#) (docs)

IDs processing (general availability)

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Jun 2021

Feature details

AI Builder IDs processing ready to use solution, which supports reading content from international passports and driver licenses from the United States, is being released for general availability. Features in general availability require [AI Builder capacity add-ons](#) to use.

Signature detection in form processing

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Sep 2021

Feature details

This new capability will support training a form processing model to detect if a signature is present at a specific location in the document.

See also

[Overview of the form processing model](#) (docs)



Governance and administration

Overview of Microsoft Power Platform governance and administration 2021 release wave 1

Microsoft Power Platform offers a range of governance and administration capabilities that span the Microsoft Power Platform product offerings like Microsoft Power Apps, Microsoft Power Automate, and Microsoft Dataverse as well as Microsoft Dynamics 365 Sales, Service, and Marketing. These admin and governance capabilities are designed to help the administrators and IT professionals in the organization to help setup, secure, manage, govern, and monitor the use and adoption of Microsoft Power Platform and its components across the enterprise.

What's new and planned for Microsoft Power Platform governance and administration

This topic lists features that are planned to release from April 2021 through September 2021. Because this topic lists features that may not have released yet, **delivery timelines may change and projected functionality may not be released**. For more information, go to [Microsoft policy](#).

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This check mark (✓) shows which features have been released for public preview or early access and for public preview, early access, and general availability.

Automation and tooling for administrators

Rich tooling experiences such as PowerShell cmdlets and management connectors are available for administrators and IT professionals managing the Power Platform.

Feature	Enabled for	Public preview	General availability
Custom reporting with Bring Your Own Azure Data Lake for Power Apps and Power Automate	Admins, makers, marketers, or analysts, automatically	Apr 2021	

Feature	Enabled for	Public preview	General availability
Microsoft Power Platform tenant isolation support along with the ability to specify allow list of tenants	Admins, makers, marketers, or analysts, automatically	Apr 2021	-
User security configuration experiences in the Power Platform admin center	Admins, makers, marketers, or analysts, automatically	Apr 2021	
Tenant scope admin report for Power Apps usage	Admins, makers, marketers, or analysts, automatically	Apr 2021	
Tenant-level admin reports for flow usage	Admins, makers, marketers, or analysts, automatically	Apr 2021	
Email exfiltration blocking using SMTP headers for Microsoft 365 mail connectors	Admins, makers, marketers, or analysts, automatically	✓ Aug 1, 2020	Apr 2021

Description of **Enabled for** column values:

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Automation and tooling for administrators

Overview

Rich tooling experiences like PowerShell cmdlets and management connectors are available for administrators and IT professionals managing Microsoft Power Platform. This tooling is designed to provide additional management capabilities for use outside the out-of-the-box portal experiences and to allow for a fully automatable management experience.

Custom reporting with Bring Your Own Azure Data Lake for Power Apps and Power Automate

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Apr 2021	-

Business value

Bring Your Own Azure Data Lake allows you to slice and dice the data based on your unique requirements. You can build custom reports with Power BI, including views at the individual business unit level and detailed app level reports at the tenant and environment level. Having the data in your own lake also means the data can be stored for durations as required by your organization's data retention policies.

Feature details

You can opt in to export all your tenant data into your own Azure Data Lake Storage instance without having to write any code. You'll need to have the Azure Data Lake Storage set up prior to setting up a daily data export via the Power Platform admin center. Once set up, the data will be made available in a Common Data Model schema. The Common Data Model based metadata makes it possible for data and its meaning to be shared across applications and business processes, such as Microsoft Power Apps, Power BI, Dynamics 365, and Azure. The data will include the full inventory for all apps, connectors, and associated metadata that exist in the tenant as well as the usage telemetry, which will be comprised of data from the day the export starts.

After the first data export, there will be incremental daily updates. Once the data is in your data lake, you can, for example, leverage Power BI dataflow to connect to Azure Data Lake Storage and start building reports and dashboards.

Here are some sample scenarios that will light up in your own lake:

- Tenant-level metrics across apps and flows for different business units
- Environment with the most apps and flows with app and flow names ranked in order of usage
- Custom and standard connectors creation and usage trend with filters for location, and business units
- Business unit specific trends. (For example, a report that lists all marketing department employees using a specific app or flow and a list of all apps or flows used by specific users)
- Business units with the most apps and flows along with details of the app and flow
- Trends and details per business unit on connector usage
- App and flow usage based on business units to answer questions like: How many users in the eastern zone marketing are using a particular app or flow?
- List of users per business unit with the most apps and flows filtered by sessions or runs
- List of app and flows with owners who no longer work in any of the business units

Microsoft Power Platform tenant isolation support along with the ability to specify allow list of tenants

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Apr 2021	-

Business value

Admins can manage data exfiltration or infiltration risks for Azure AD based connectors in their tenant by turning on tenant isolation for Microsoft Power Platform connections. This would disallow connections from your tenant to external tenants and also block other tenants to establish Microsoft Power Platform connections to your tenant. For legitimate business use cases where such cross-tenant connections are required to be enabled through Microsoft Power Platform, admins can specify an explicit allow list of tenants along with specifying the direction of allowing cross-tenant connections (inbound from external tenant, outbound from your tenant, or both).



Feature details

Enable/disable tenant isolation using self-serve capability through the Power Platform admin center:

When tenant isolation is turned on, all Azure AD based connectors can no longer be used to create cross-tenant connections from/to your tenant. Previously, customers had to create a support ticket to enable tenant isolation. Now, we're allowing you to manage your tenant's tenant isolation settings directly through the Power Platform admin center.

Choose an allowed list of tenants that are exempt from tenant isolation: This is a new capability within tenant isolation to allow legitimate business scenarios to continue connecting to explicitly identified tenants, even as everything else is disallowed. Wildcard * also is supported if all tenants need to be enabled in an inbound or outbound direction instead of identifying specific tenants.

User security configuration experiences in the Power Platform admin center

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Apr 2021	-

Business value

Admins will be able to scale their security management by managing roles for groups of users in environments with a Microsoft Dataverse database using modern and intuitive experiences in the Power Platform admin center.

Feature details

The following environment and user security configuration experiences will be lit up in the Power Platform admin center through a modern and intuitive UI for environments with a Microsoft Dataverse database:

- Admins can create and manage Dataverse Group Teams end-to-end, through a modern, simple, and coherent experience in the Power Platform admin center.
- Extending today's ability to associate an Azure Active Directory Group to an environment, admins can also assign roles to the Group they associate to an environment, so that as users in the group get provisioned to the environment, they will automatically inherit their group's roles and have instant access to the environment's resources and data based on the roles assigned. Admins no longer need to wait for users to first get provisioned and then assign roles for one user at a time. To add users to an environment, admins no longer need to add

them one at a time. Now, they can add an entire group in one go through a Dataverse Group Team creation experience.

- Extending today's security roles management experience, admins can not only assign individual users/owner teams/access teams to a role, but they can also assign Azure AD Groups (wrapped by Dataverse Group Teams) to a role.
- When managing roles for a user, admins can easily differentiate between roles they directly assigned to a user versus roles they inherited through a Dataverse Group Team membership.
- Admins can access an entry point from the Power Platform admin center to create and manage application users and their roles in an environment.

Tenant scope admin report for Power Apps usage

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Apr 2021	-

Business value

Microsoft Power Platform service admins will be able to understand usage with metrics like Monthly Active Users (MAU), the kind of engagement with return users, and also the list of apps in use and not in use at the tenant level to drive the right investments. For example, by making it possible to quickly gain insights into usage and inventory metrics, you could direct more resources into heavily used apps.

Feature details

Microsoft Power Platform service admins, Dynamics 365 admins, and Microsoft 365 global admins will be able to opt-in to out of the box tenant level reports for Power Apps with options to drilldown to the environment level.

Usage reports will provide insights into MAU, sessions, new and return users, and a list of apps in use with filters for app type, connector tier, country, device platform, and player version.

Maker Activity/Inventory reports will provide details like total apps, active apps, apps created the last 30 days, environments with apps, total makers, app creation trend, maker trend and inventory list of all apps with the owner, published dates, environment it belongs to, last launched date, and the type of app (canvas or model-driven). There will be filters for app type, connector tier, and country.

Tenant Hygiene reports will allow you to determine the list of apps not in use with the ability to filter by flow type, connector tier, and country.

Tenant-level admin reports for flow usage

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Apr 2021	-

Business value

Microsoft Power Platform service admins will be able to understand the usage of flows in use to drive the right investments. For example, by making it possible to quickly gain insights into usage and inventory metrics, you could direct more resources into important or heavily-used flows.

Feature details

Microsoft Power Platform service admins, Dynamics 365 admins, and Microsoft 365 global admins will be able to opt into the default tenant-level reports for cloud and desktop flows. There will also be an option to view data at the environment level.

Usage reports for cloud flows will provide insights into total runs and trends, successful and failed runs and trends, the number of makers, a list of all flows with type, owner, successful and failed runs, total actions, last run date, and the flow environment. You will be able to filter this through attributes like flow type, flow state, and connector tier.

Maker activity/inventory reports will provide details like total flows, number of flows created in the last 30 days, number of actions in the last 30 days, total environments with flows, total makers, flow creation trends, list of flows with flow name, type, owner, and published date. You will be able to filter this with specific flow types, flow state, and connector tier.

Tenant Hygiene reports will allow you to determine the list of cloud flows that are not in use, with the ability to filter by flow type, connector tier, and country/region.

Email exfiltration blocking using SMTP headers for Microsoft 365 mail connectors

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	✓ Aug 1, 2020	Apr 2021

Business value

Admins can safely allow Microsoft 365 mail connectors to be used within Microsoft Power Platform and ensure that these cannot be leverage to exfiltrate emails to external domains by setting up Exchange mail rules.

Feature details

Admins can set up Exchange mail flow rules to monitor or block emails sent by Power Automate and/or Power Apps using the Microsoft 365 Outlook connector. The SMTP header sent by Microsoft Power Platform will include *Microsoft Power Automate* or *Microsoft Power Apps* with the header type: "*x-ms-mail-application*".

Further, in order to identify the operation ID, a reserved word *Forward* or *Reply* or *Send* is inserted with the header type: "*x-ms-mail-operation-type*".

In addition, for admins to exempt specific apps or flows or environments from exfiltration blocking rules where they facilitate legitimate business use cases, admins can leverage the app or flow ID and environment ID value that will be added to the SMTP headers published by Microsoft Power Platform.

See also

[Email exfiltration controls for connectors](#) (docs)

Pro development

Overview of Microsoft Power Platform pro development 2021 release wave 1

Microsoft Power Platform offers a rich spectrum of extensibility points and tooling capabilities providing the professional developer a great experience for extending the platform. The intent of the pro developer investments is to not only help ensure a no-cliffs experience for the citizen developer but also to make sure the developer can fully leverage all application development skills of the enterprise on Microsoft Power Platform. The upcoming investments range from additional feature enhancements to the Power Apps CLI, Microsoft Power Platform Build Tools and GitHub Actions, as well as continued investments in deeper integration with Azure services, such as Azure API Management.

ISV experiences

Overview of Microsoft Power Platform ISV experiences 2021 release wave 1

Microsoft Power Platform enables ISVs to build deep vertical and horizontal business applications leveraging a range of Microsoft Power Platform capabilities. ISV apps can easily be extended across the full stack either through Azure services or custom code, which enables creating unique user experiences. Improvements in this area includes additional enhancements to the ISV Studio and additional application management capabilities.

What's new and planned for Microsoft Power Platform ISV experiences

This topic lists features that are planned to release from April 2021 through September 2021. Because this topic lists features that may not have released yet, **delivery timelines may change and projected functionality may not be released**. For more information, go to [Microsoft policy](#).

In the **General availability** column, the feature will be delivered within the month listed. The delivery date can be any day within that month. Released features show the full date, including the date of release.

This check mark (✓) shows which features have been released for public preview or early access and for public preview, early access, and general availability.

ISV Studio

ISV Studio is the experience designed to allow Independent Software Vendors (ISV) to monitor and manage the applications deployed by customers from AppSource.

Feature	Enabled for	Public preview	General availability
App usage analytics	Users, automatically	✓ Oct 18, 2020	Apr 2021
Installation errors	Users, automatically	✓ Nov 3, 2020	Apr 2021

Description of **Enabled for** column values:

- **Users, automatically:** These features include changes to the user experience and are enabled automatically.

- **Admins, makers, marketers, or analysts, automatically:** These features are meant to be used by administrators, makers, marketers, or business analysts and are enabled automatically.
- **Users by admins, makers, or analysts:** These features must be enabled or configured by the administrators, makers, or business analysts to be available for their users.

For a list of the countries or regions where Dynamics 365 business applications are available, go to the [International availability guide](#). For more information about geographic areas and datacenters (regions), go to the [Dynamics 365 and Microsoft Power Platform availability page](#).

ISV Studio

Overview

ISV Studio is designed to become the go-to Microsoft Power Platform destination for Independent Software Vendors (ISVs) to monitor and manage their applications. ISV Studio provides a consolidated cross-tenant view of all the applications an ISV is distributing to customers.

App usage analytics

Enabled for	Public preview	General availability
Users, automatically	✓ Oct 18, 2020	Apr 2021

Business value

ISVs will be given a metric to measure the success of their apps.

Feature details

ISVs will now be able to see the daily, weekly, and monthly active users of their published apps. The usage is calculated based on the component usage within a solution. For the first release of this feature, the two components being used are **Microsoft Dataverse Entity** and **App Module**.

An ISV will also be able to filter the usage by component name, component type, package name, and solution name.

Installation errors

Enabled for	Public preview	General availability
Users, automatically	✓ Nov 3, 2020	Apr 2021

Business value

ISVs will be allowed to make fixes and improvements to their apps by seeing their customers' installation errors.

Feature details

An ISV will see a detailed list of all the errors their customers are facing when trying to install their apps. These errors are also categorized by geo, environment, error type (system/platform), package, and version.

Data integration

Overview of data integration 2021 release wave 1

The data integration team's vision is to democratize data for business users so it is seamless to extract, transform, and load data into Microsoft Dataverse and Azure Data Lake Storage from any data source and to allow other Microsoft products to leverage this data.

We are investing in a few key pillars:

- Microsoft Power Platform dataflows. Power Query is the industry leading smart data prep tool and evolves by infusing AI/ML into data transformations and by extending dataflows to all of Microsoft Power Platform. In 2021 release wave 1, we are enabling the dataflows experience in Dataverse in Teams so that customers can easily populate data and build better applications.
- Gateway and Azure Virtual Network (VNet) connectivity in Microsoft Power Platform will allow enterprises to scale out their cloud to cloud integrations without leveraging the Gateway, removing complexity and administration effort in building a true, democratized data platform.
- Enhanced data integration by enabling analytics on Dataverse data through Export to Data Lake in Common Data Model form, Office data integration to enable new insights, new and enhanced connectors, improvements in connectivity platform, extending dual-write for more entities, improving Data Export Service, and enhancing Gateway for enterprises and Robotics Process Automation (RPA).
- End-to-end diagnostics so that customers can better diagnose and fix issues in queries or Gateway.
- Common Data Model establishes industry wide structure and semantics of underlying data so that customers can then reason about that data through various business application solutions, analytics, and machine learning (ML) algorithms.

What's new and planned for data integration

This topic lists features that are planned to release from April 2021 through September 2021. Because this topic lists features that may not have released yet, **delivery timelines may change and projected functionality may not be released**. For more information, go to [Microsoft policy](#).

In the **General availability** column, the feature will be delivered within the month listed. The delivery date can be any day within that month. Released features show the full date, including the date of release.

This check mark (✓) shows which features have been released for public preview or early access and for public preview, early access, and general availability.

Feature	Enabled for	Public preview	General availability
Automation for adding a gateway member to a cluster	Admins, makers, marketers, or analysts, automatically	Sep 2021	-
Enrichment through integration with Azure Maps	Admins, makers, marketers, or analysts, automatically	Sep 2021	
Export gateway and data source details to Excel	Admins, makers, marketers, or analysts, automatically	Sep 2021	
Export output data to multiple formats and destinations	Admins, makers, marketers, or analysts, automatically	Sep 2021	-
Gateway diagnostics	Admins, makers, marketers, or analysts, automatically	Sep 2021	
Improved error management	Admins, makers, marketers, or analysts, automatically	Sep 2021	-
Personal custom function library	Admins, makers, marketers, or analysts, automatically	Sep 2021	-
Reuse and share queries across Power Query clients with templates	Admins, makers, marketers, or analysts, automatically	Sep 2021	
Security improvements for gateway and data source management	Admins, makers, marketers, or analysts, automatically	Sep 2021	

Feature	Enabled for	Public preview	General availability
Visual data prep (Diagram view) for authoring within Power Query Desktop	Admins, makers, marketers, or analysts, automatically	Sep 2021	-
Data source management enhancements	Admins, makers, marketers, or analysts, automatically	-	Sep 2021
Email alerts	Admins, makers, marketers, or analysts, automatically	-	Sep 2021
Help tab in Power Query ribbon in Power Query Desktop	Users, automatically	-	Sep 2021
Improved error messages	Admins, makers, marketers, or analysts, automatically	-	Sep 2021
In-product links to documentation in Power Query Desktop	Users, automatically	-	Sep 2021

Description of **Enabled for** column values:

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Automation for adding a gateway member to a cluster

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Sep 2021	-

Feature details

We released a command prompt install of a gateway, which helps automate installation of a gateway cluster with one gateway member. (Adding a gateway member to an existing cluster is still manual.) With this new feature, customers will be able to automate addition of gateway members to an existing gateway cluster.

Enrichment through integration with Azure Maps

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Sep 2021	-

Feature details

We'll simplify the experience for citizen data analysts to perform geo-based enrichments (for example, geocoding and reverse geocoding) in the Power Query Editor through a tighter integration with Azure Maps APIs.

Export gateway and data source details to Excel

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Sep 2021	-

Feature details

With these features, customers will be able to export gateway and data source properties to Excel for further analysis or auditing purposes.

Export output data to multiple formats and destinations

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Sep 2021	-

Feature details

Today, we provide the ability for citizen data analysts to push prepared data to Microsoft Dataverse or Azure Data Lake Storage. This feature will allow customers to export the prepared output data from their queries and dataflows into multiple formats (for example, Excel and CSV) and destinations beyond Microsoft Dataverse and Azure Data Lake Storage so that they can be easily consumed to make business decisions.

Gateway diagnostics

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Sep 2021	-

Feature details

We've been working on centralizing gateway diagnostics on the admin center by providing visibility into system and query diagnostics. In 2021 release wave 1, we'll enhance this experience along with providing proactive recommendations and email alerts.

Improved error management

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Sep 2021	-

Feature details

We want makers to be more successful when authoring and running dataflows, so we're improving the experience for surfacing errors to increase awareness. This includes quick ways to navigate to the query and automatically fix the issue when possible.

Personal custom function library

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Sep 2021	-

Feature details

We'll give makers the ability to tailor their Power Query experience by always having easy access to relevant custom functions directly in the UI rather than having to copy and paste from other sources.

Reuse and share queries across Power Query clients with templates

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Sep 2021	-

Feature details

In previous waves, we'd added support to create Power Query templates from queries in Microsoft Excel and Microsoft Power Platform dataflows. Building on top of that paradigm, we're supporting full template mobility across web and desktop Power Query clients so queries created in any client can easily be exported, shared, and imported seamlessly.

Security improvements for gateway and data source management

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Sep 2021	-

Feature details

We plan to add additional security roles to gateways and data sources that will provide you flexibility and control. For instance, these roles will help differentiate users having access to who can create data sources from users who can administer (recover, update, and so on) the gateway.

Visual data prep (Diagram view) for authoring within Power Query Desktop

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	Sep 2021	-

Feature details

We'll enable **Visual data prep (Diagram View)** within Power Query Desktop. This will provide a fully interactive interface to easily create your queries and visualize your data preparation process. We want to simplify the experience for citizen data analysts to get started, speed up the data preparation process, and help quickly understand the queries, both the "big picture view" on how the queries are related and the "detailed view" around specific data preparation steps in a query.

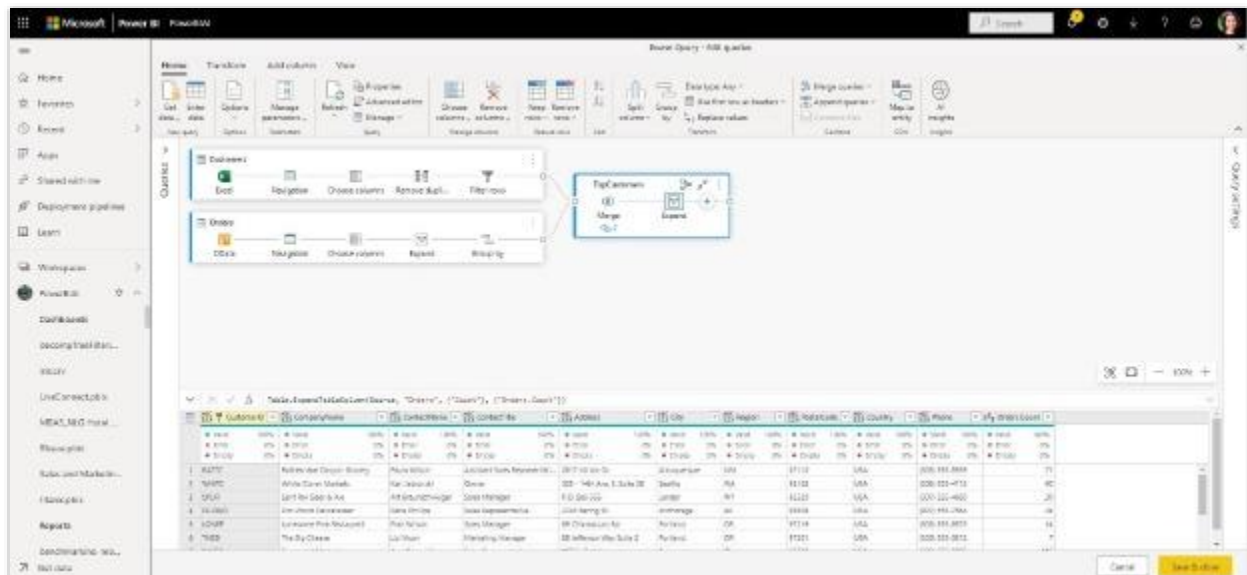


Diagram view

Data source management enhancements

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Sep 2021



Feature details

We've been working on centralizing gateway and data source management in the admin center. In 2021 release wave 1, We'll continue this effort by enhancing data source management for Power BI and embedding this experience in Power BI. In addition, we'll support the following:

- Visibility of the username for the data source so customers don't have to maintain this information offline for updating passwords, and so on.
- Visibility of service principal as gateway/data source users and installers in the management experience.
- New data source field called **Data source description**.
- Ability to export gateway and data source information to Excel.
- Support for groups for gateway installers.
- New gateway fields like **Installed date** and **Last used date**.

Email Alerts

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Sep 2021

Feature details

These enhancements will provide an option to let gateway admins set up email alerts to notify for various criteria, such as updating to a newer version of the gateway, performance bottlenecks, and so on.

Help tab in Power Query ribbon in Power Query Desktop

Enabled for	Public preview	General availability
Users, automatically	-	Sep 2021

Feature details

Similar to many other Microsoft experiences, we're adding a **Help** tab to the Power Query ribbon with three main sections:



- **Help** to access product help and to send feedback.
- **Community** to access the blog and forums or to submit an idea.
- **Resources** to access templates and other references.

Improved error messages

Enabled for	Public preview	General availability
Admins, makers, marketers, or analysts, automatically	-	Sep 2021

Feature details

We'll continue to improve error messages for gateways to make them more actionable, so you can self diagnose and get to the root of most issues.

In-product links to documentation in Power Query Desktop

Enabled for	Public preview	General availability
Users, automatically	-	Sep 2021

Feature details

To assist users in various areas of the product experience, we're adding **Learn more** links to key areas of the Power Query user interface to direct users to relevant public documentation so they may benefit from easily accessible help.

Got feedback?

Share your feedback on a community forum for [Dynamics 365](#) or [Power Platform](#). We'll use your feedback to make improvements. To find out about updates to these release notes, follow us on Twitter [@MSFTDynamics365](#).

