PowerApps & Flow
Real-world use cases
Stephanie Donahue, Owner/President

- Over 19 years of experience in the IT industry
- Focus
  - Deployment Planning
  - Information Architecture
  - Governance
  - User Adoption

- http://www.stephkdonahue.com
- http://www.paitgroup.com/blog
- @StephKDonahue
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Microsoft Flow

Getting started
SharePoint Designer or Flow?
Microsoft Flow helps **non-developers** work smarter by automating workflows across apps and services.

- Get notifications
- Copy files
- Collect data
- Automate approvals
What makes up a Flow?

Example: Notification Flow

Trigger – the event that kicks off the flow:
- Manually
- On a schedule
- On an event in the cloud

Actions – what the flow does
*Uses data from the trigger*
Feeling a little bored from repetitive work?

The problem statement:

- Reports come in to an admin every morning through email with an attachment

- The admin has to collect all of the reports, consolidate them into a single email and send them back out to management
The ‘Modern’ Email enabled library
Tips & Tricks

• Flows can run from modern or classic views, but the flow button won’t show in the ribbon on classic

• Email signatures with a graphic will also add that graphic to the library with your attachment

• Add other owners to create a “team flow”

• Browse the templates to help you get started

We still need to keep our exec happy

The problem statement:

- Execs were receiving a report in their inbox
- Yes...they could go to SharePoint
  - Sometimes you need a transition period using email
  - Execs aren’t always in the office
Notification Option #1

“Classic” Alerts

• Improved Email Alert Summaries

“Modern” Alerts

• Part of the Flow
• Sends for each doc
Notification Option #2

Mobile Flows
Tips & Tricks

• The Flow app has to be installed on the mobile device (and logged in) to receive alerts

• Use the “buttons” options!

• Demo to your users with Apowersoft
Tips & Tricks

• Look for third party integrations

• Goodbye Word Automation Services, Hello Muhimbi

Recent Flow Updates

• Manage the lifecycle of flows (import/export)

• Convert flows to Azure Logic Apps to expand functionality

• Flow integration with OneDrive for Business

• MS Ignite – Send for Review & more, coming soon!

# Flow – It’s the Real Deal!

<table>
<thead>
<tr>
<th>Today</th>
<th>SharePoint Designer</th>
<th>Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple connections to &gt;150 data sources</td>
<td>SQL, SP, ODBC &amp; WSDL only</td>
<td>ALWAYS</td>
</tr>
<tr>
<td>Out of box templates</td>
<td>&lt;5</td>
<td>100s</td>
</tr>
<tr>
<td>Workflow &amp; approval history</td>
<td>&lt;365 days</td>
<td>Perpetual</td>
</tr>
<tr>
<td>Approvals over mobile + mobile notifications</td>
<td>NEVER</td>
<td>iOS, Android, Windows Phone + in Outlook. History coming imminently.</td>
</tr>
<tr>
<td>Loops, Do Until, Switch-case, parallels, variables</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>On-premises support</td>
<td>Native</td>
<td>Gateway support</td>
</tr>
<tr>
<td>Extended field types (people, choice, MMS, lookup)</td>
<td>Yes</td>
<td>People, choice, lookup – Yes new, MMS – coming soon</td>
</tr>
<tr>
<td>Send email as user or system</td>
<td>System only</td>
<td>Yes</td>
</tr>
<tr>
<td>Attachments</td>
<td>Yes</td>
<td>Yes (new)</td>
</tr>
</tbody>
</table>
Flow Summary

• Flow replaces Email enabled libraries in SharePoint Online – think of solutions like e-Signature, automated reports and scanning solutions

• Use your mobile app for notifications, approvals, AND building flows

• Look for third party integrations to replace functionality like Word Automation Services
“Business software is hard”

- Everyone who ever built, bought, or used it
Easy Authoring

Truly WYSIWYG – full control over user experience, use it as you build it

Create app logic with familiar Excel-like expressions

Mash up data from multiple sources right at the app level
Overwhelmed tracking paperwork?

The problem statement:

• Every organization still has forms on paper and in Excel and Word

• Attachments lost in a sea of email

• No one knows the status

• No dashboards or analytics available
Vacation Request Demo
I had issues using the Edge browser to create the PowerApp from SharePoint (Use IE or Chrome).

Use the On-premises Data Gateway for Flow and PowerApps for on-premises servers.

- Not included with Office Business and E1 skus.
Recent PowerApps Updates

• Q3 Updates: https://powerapps.microsoft.com/en-us/blog/q3-2017-update/

• Choice, People Picker fields working

• PowerApps integration with Teams, Power BI

• Build offline capable apps (test in Airplane mode!)
  • Forms for workers in the field, maybe in the plant
New: Custom forms for lists

Coming in October

Every list form is now customizable with PowerApps

Point-and-click rule builder for easy formatting and actions

Leverage over 160 apps and services directly in your list
PowerApps Summary

• User PowerApps instead of InfoPath (when possible)
• Creating a PowerApp is considered a “view” in SharePoint
• Use PowerApps for easy access to simple mobile forms
• Generate simple approval flows for mobile/email approvals
Advanced Functionality, Management & Licensing
Admin Site Overview

- **Environment administration**
  - Lifecycle and management for all resources (currently Flow only)
    - View, delete/suspend, and add as co-owner all resources in a given environment
  - Manages roles and role membership
  - View license and quota consumption

- **Data Loss Prevention**
  - Set policies for classification of services
Advanced Functionality – Scaling & Geo-regulations

- Environment is a space to store your organization’s flows, apps, and business data.
- Used to separate flows and apps that have different roles, security requirements, or target audiences – Common Data Service can be Geo Located!
- Move solutions across environments using packages (brand new!)
Advanced Functionality – Data Loss Prevention

- To prevent data loss, as an admin, you can set up policies that classify services into two data groups.
- Any Flow or PowerApp that uses services from the Business data only and No business data allowed groups will be blocked.
- Policies can be applied to the entire tenant or specific environments.
Advanced Functionality – Data Loss Prevention
Mix and Match! Only DLP Admins need Plan 2
Flow runs

Accruing at the tenant level
The flow runs usage quota is summed across all users up to the tenant
For example, if you have 1,000 users with Flow for Office 365 and 200 users with Flow Plan 2, the tenant can have:

\[1000 \times 2000 + 15000 \times 200 = 5M \text{ flow runs / month}\]

Purchasing additional runs
The tenant can purchase in additional chunks of 50k runs / month
Licensing - Powerapps

For Office 365 and Dynamics 365

- Included
- in select Office 365 and Dynamics 365 plans

PowerApps for Office 365 and Dynamics 365

- Sign in
- Create and run custom business apps
- Extend the capabilities of Office 365 and Dynamics 365
- Automate your workflows with Microsoft Flow

For business users

- $7
- per user per month

PowerApps Plan 1

- Trial
- Everything included with PowerApps for Office 365 and Dynamics 365
- Use apps that connect to an even wider range of data sources, with premium connectors
- Use apps built on the Common Data Service

For app makers and admins

- $40
- per user per month

PowerApps Plan 2

- Trial
- Everything included with PowerApps Plan 1
- Model your data using the Common Data Service
- Create and manage instances of the Common Data Service
- Enterprise-grade administration of environments and user policies
How do we learn more?

• Flow.Microsoft.com & Powerapps.Microsoft.com
  > Learn > Guided Learning

• YouTube
  • Laura Rogers: Power Hour (@wonderlaura)
  • Audrie Gordon (@ArtsyPowerApper)

• Twitter
  • #PowerApps
  • #MicrosoftFlow
• Look for specific business needs when implementing PowerApps and Flow
• Use policies to control your Intellectual Property
• Keep looking for future enhancements!
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Thank you.

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