Cloud-based business-to-business workflows

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GLOBAL INTEGRATION BOOTCAMP

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Who am I?

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Who am I?

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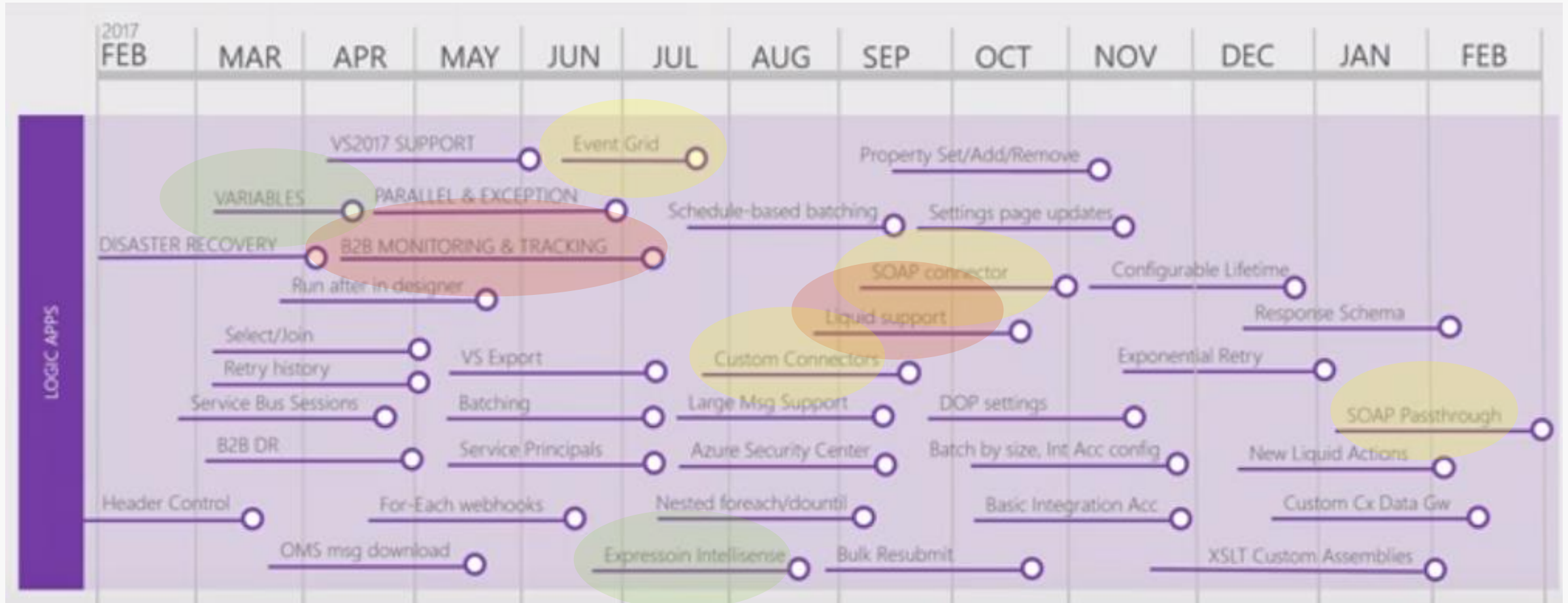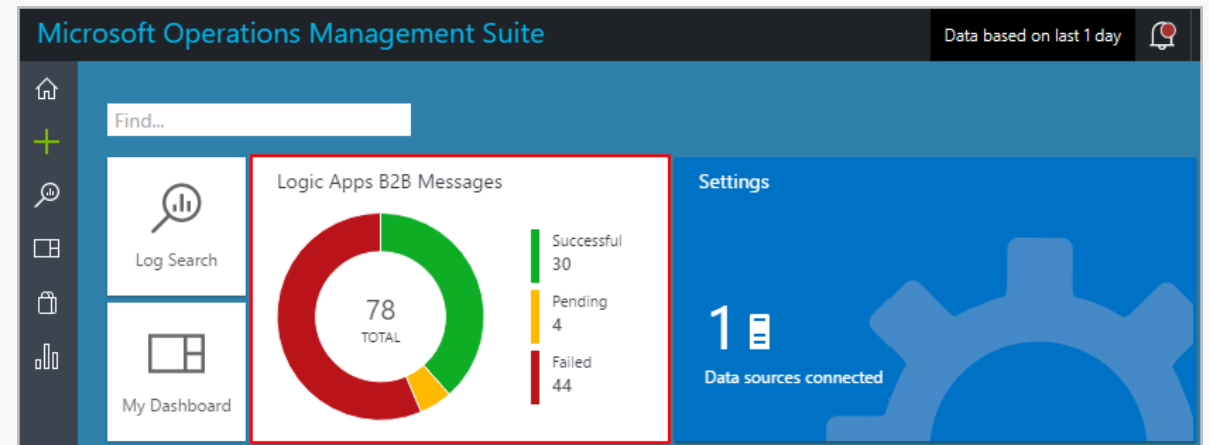
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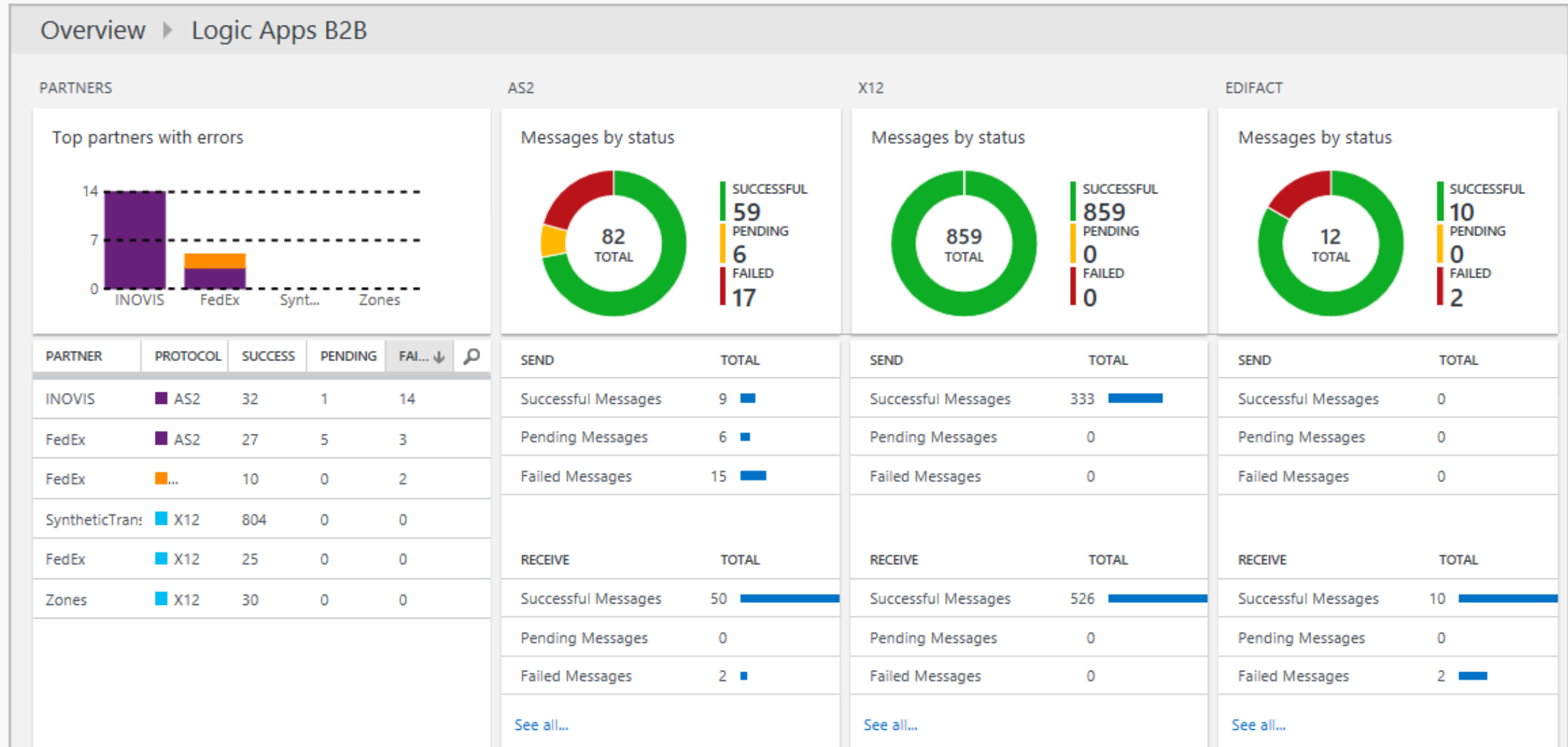# Logic Apps growing fast...

New capabilities…

B2B Monitoring & Tracking

- Can track **AS2, X12, and EDIFACT messages** with Azure Log Analytics in the Operations Management Suite (**OMS**).

- You can use these web-based tracking capabilities for tracking messages:

  - ✓ Message count and status
  - ✓ Acknowledgments status
  - ✓ Correlate messages with acknowledgments
  - ✓ Detailed error descriptions for failures
  - ✓ Search capabilities

- Requirements:

  - ✓ Logic Apps with **Diagnostics Logging**
  - ✓ Integration Account with **Diagnostics and Logging**
 - ✓ Publish **diagnostics data to Log Analytics** in OMS

B2B Monitoring & Tracking

Overview ▶ Logic Apps B2B

PARTNERS

Top partners with errors

PARTNER	PROTOCOL	SUCCESS	PENDING	FAI... ↓
INOVIS	■ AS2	32	1	14
FedEx	■ AS2	27	5	3
FedEx	■ ...	10	0	2
SyntheticTrans	■ X12	804	0	0
FedEx	■ X12	25	0	0
Zones	■ X12	30	0	0

AS2

Messages by status

82 TOTAL — SUCCESSFUL 59, PENDING 6, FAILED 17

SEND	TOTAL
Successful Messages	9
Pending Messages	6
Failed Messages	15

RECEIVE	TOTAL
Successful Messages	50
Pending Messages	0
Failed Messages	2

See all...

X12

Messages by status

859 TOTAL — SUCCESSFUL 859, PENDING 0, FAILED 0

SEND	TOTAL
Successful Messages	333
Pending Messages	0
Failed Messages	0

RECEIVE	TOTAL
Successful Messages	526
Pending Messages	0
Failed Messages	0

See all...

EDIFACT

Messages by status

12 TOTAL — SUCCESSFUL 10, PENDING 0, FAILED 2

SEND	TOTAL
Successful Messages	0
Pending Messages	0
Failed Messages	0

RECEIVE	TOTAL
Successful Messages	10
Pending Messages	0
Failed Messages	2

See all...

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Liquid support

- New **Liquid connector** to transform data using **Liquid Template Lenguage**
  https://shopify.github.io/liquid/

- **Require an Integration Account** and we can add our transform maps written in Liquid
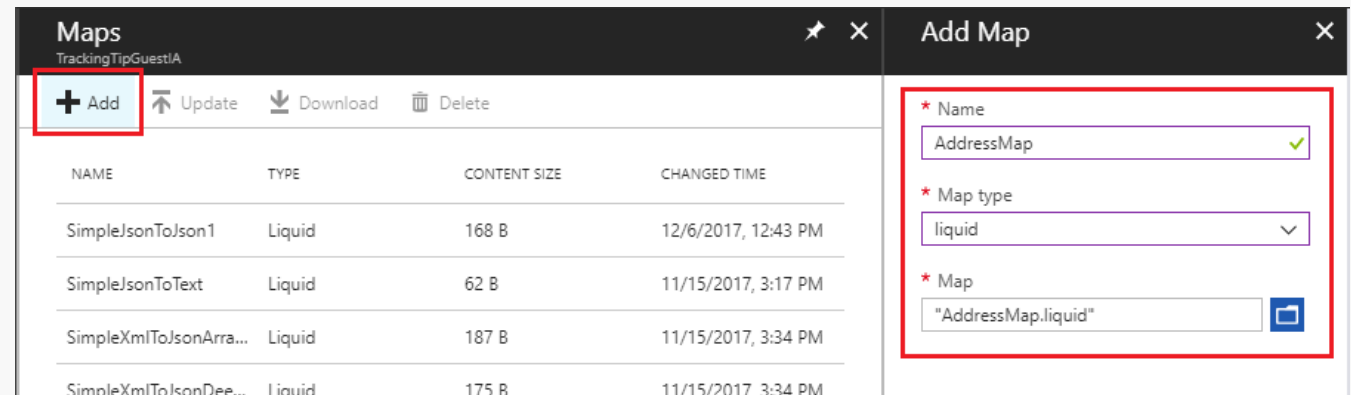
- 4 actions
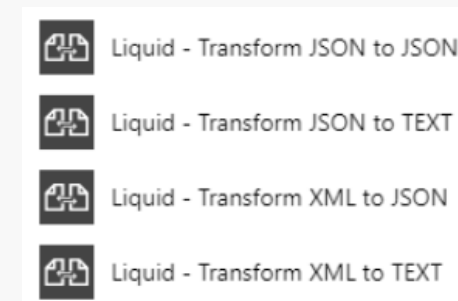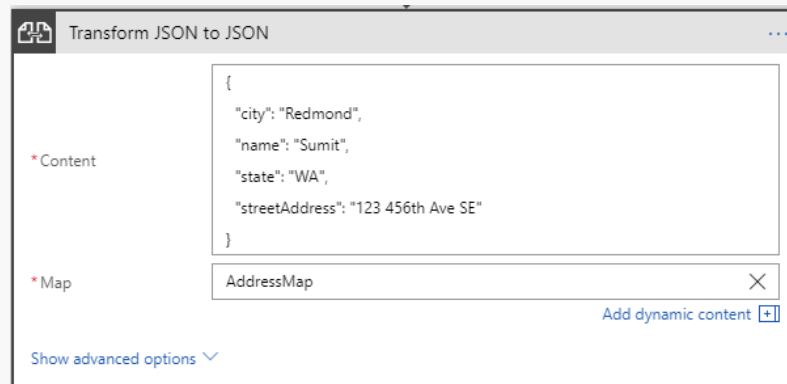
Liquid support

```
{
{% assign my_array = "zebra, octopus, giraffe, Sally Snake" | Split: ", " %}

{% assign sort_my_array = (my_array | Sort ) %}

"Animals": [
    {% for animal in sort_my_array %}
    {
        "Name": "{{animal}}"
    },
    {% endfor %}
]       }
```

```
{
    "First" : "{{ content['ns0:X12_00401_850'].ST.ST01 }}"
}
```

```
{
    {% assign my_variable = content.a %}

    {% if my_variable == 2 %}
        "Result" : "{{ my_variable }}"
    {% elsif my_variable > 2 %}
        "Result" : "{{ my_variable | Plus: 2 }}"
    {% endif %}
}
```
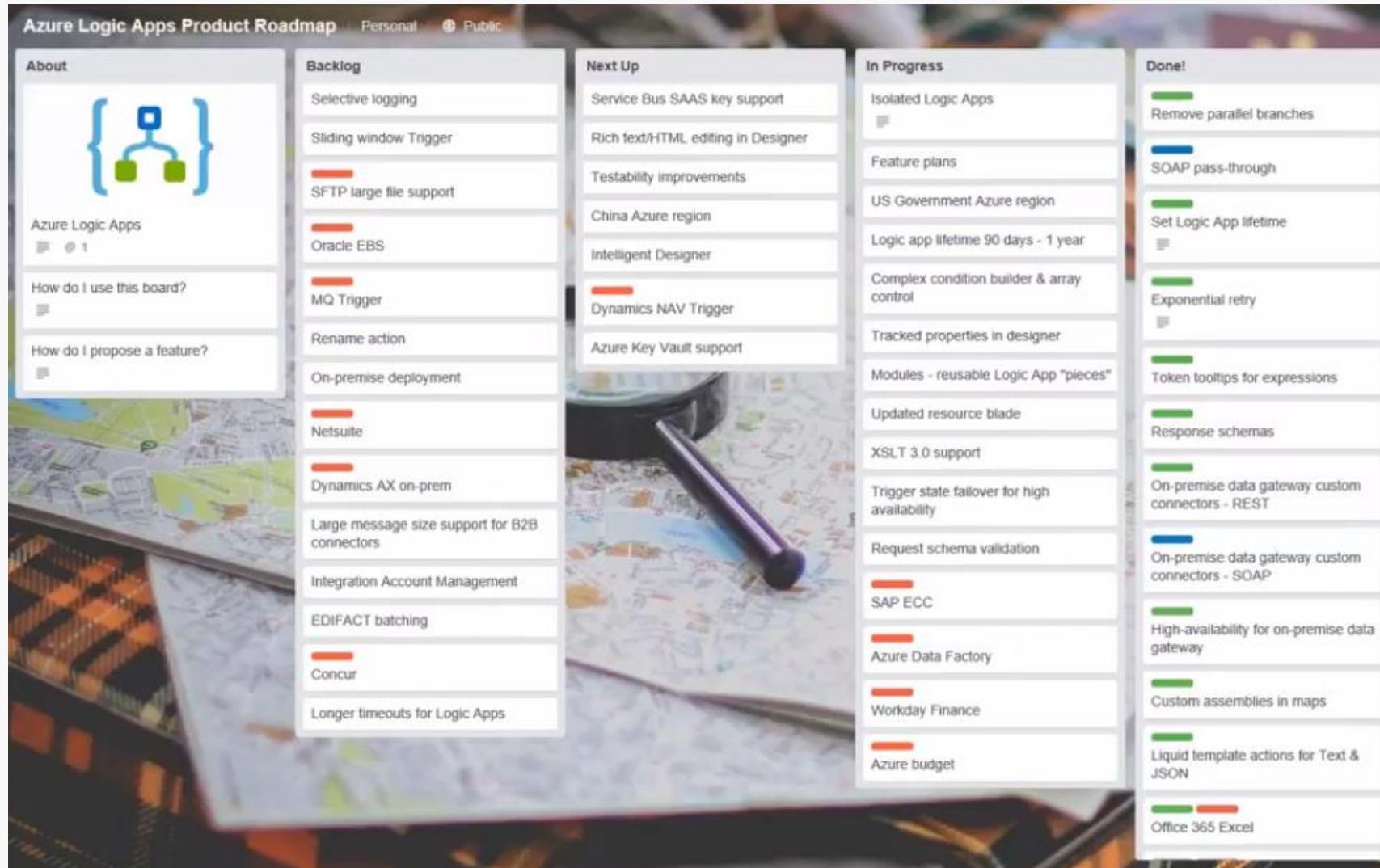
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New connectors...

Planner	GoToMeeting	Workday HCM	Parserr
Microsoft Teams	Microsoft To-Do	Pitney Bowes Data Validation	Calendly
Microsoft Forms	Plumsail	D&B Optimizer	Teamwork
Bing Maps	Documents	Docparser	JotForm
Bing Search	Forms	iAuditor SafetyCulture	Freshservice
Azure Tables	SP	Enadoc	Pitney Bowes
Event Grid	InfoBip	Derdack Signl4	AWeber
Azure Log Analytics	Kintone	Tago	Cognito Forms
Azure SQL Data Warehouse	Cognitive Services	Metatask	Team Work
Microsoft StaffHub	Content Moderator	Teradata - write operations	PostreSQL
MySQL (R/W)	Custom Vision	Azure Security Center Trigger	
ServiceNow (East US 2)	QnA Maker	Log Analytics Data Collector	
Amazon Redshift	Azure Kusto	ServiceNow	
DocFusion 365	Azure Container instances	Date Time actions	
Azure Active Directory	Microsoft Kaizala	Azure Event Grid Publish	
Computer Vision API	Marketo	O365 Groups	
Outlook Customer Manager	Outlook - webhook trigger	Adobe Sign	
Nexmo	SQL - dynamic schema for store procs	Skype for Business	
Paylocity	Blob - create block blob	LinkedIn	
Benchmark Email	Azure File Storage	Apache Impala	
SQL Trigger	ARM Invoke and Service Principal	FlowForma	
Office365 Excel	Azure Application Insights	Bizzy	
PostreSQL[RW]	Video Indexer	Adobe Creative Cloud	

Don't stop…

Azure Logic Apps Product Roadmap — Personal — Public

About

Azure Logic Apps

How do I use this board?

How do I propose a feature?

Backlog
- Selective logging
- Sliding window Trigger
- SFTP large file support
- Oracle EBS
- MQ Trigger
- Rename action
- On-premise deployment
- Netsuite
- Dynamics AX on-prem
- Large message size support for B2B connectors
- Integration Account Management
- EDIFACT batching
- Concur
- Longer timeouts for Logic Apps

Next Up
- Service Bus SAAS key support
- Rich text/HTML editing in Designer
- Testability improvements
- China Azure region
- Intelligent Designer
- Dynamics NAV Trigger
- Azure Key Vault support

In Progress
- Isolated Logic Apps
- Feature plans
- US Government Azure region
- Logic app lifetime 90 days - 1 year
- Complex condition builder & array control
- Tracked properties in designer
- Modules - reusable Logic App "pieces"
- Updated resource blade
- XSLT 3.0 support
- Trigger state failover for high availability
- Request schema validation
- SAP ECC
- Azure Data Factory
- Workday Finance
- Azure budget

Done!
- Remove parallel branches
- SOAP pass-through
- Set Logic App lifetime
- Exponential retry
- Token tooltips for expressions
- Response schemas
- On-premise data gateway custom connectors - REST
- On-premise data gateway custom connectors - SOAP
- High-availability for on-premise data gateway
- Custom assemblies in maps
- Liquid template actions for Text & JSON
- Office 365 Excel

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B2B workflows with Logic Apps...

Tools

Integration Account

- ✓ Part of the Logic Apps **Enterprise Integration Pack** (EIP)
- ✓ Secure, manageable and scalable **container** for the integration artifacts.
- ✓ Maps, schemas, partners, agreements and certificates.
- ✓ Reference them **across all your Logic Apps.**
- ✓ Creation of B2B processes with Logic Apps **quick and easy**.

Visual Studio

- ✓ Azure Logic Apps Tools **for Visual Studio 2017**
- ✓ Microsoft Azure Logic Apps Enterprise Integration Tools **for Visual Studio 2015 2.0**

Logic Apps B2B

- ✓ **Monitor and manage your business to business (B2B)** Logic Apps across AS2, X12 and EDIFACT protocols.

Trigger

- ✓ Action or Event
- ✓ First step of the B2B workflow
- ✓ Several options
- ✓ Example ... a simple button

Engines

✓ **State machine**: Manages the flow
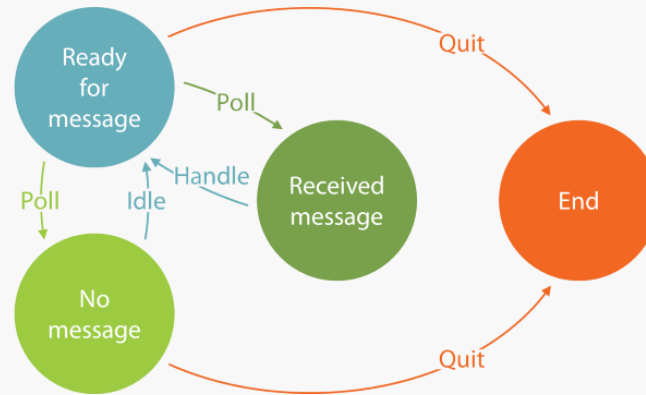
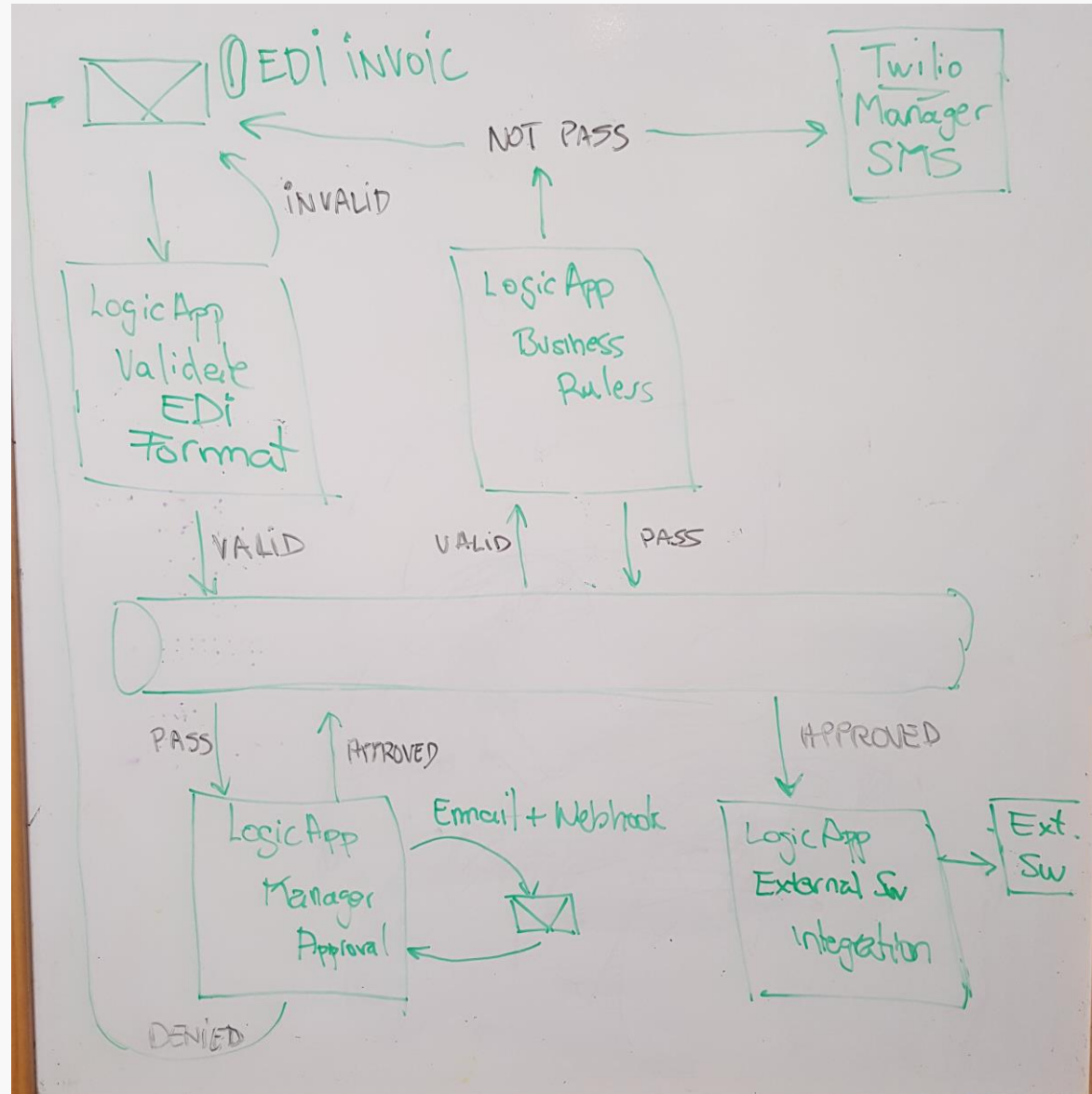✓ Several options:
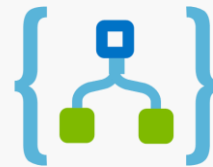
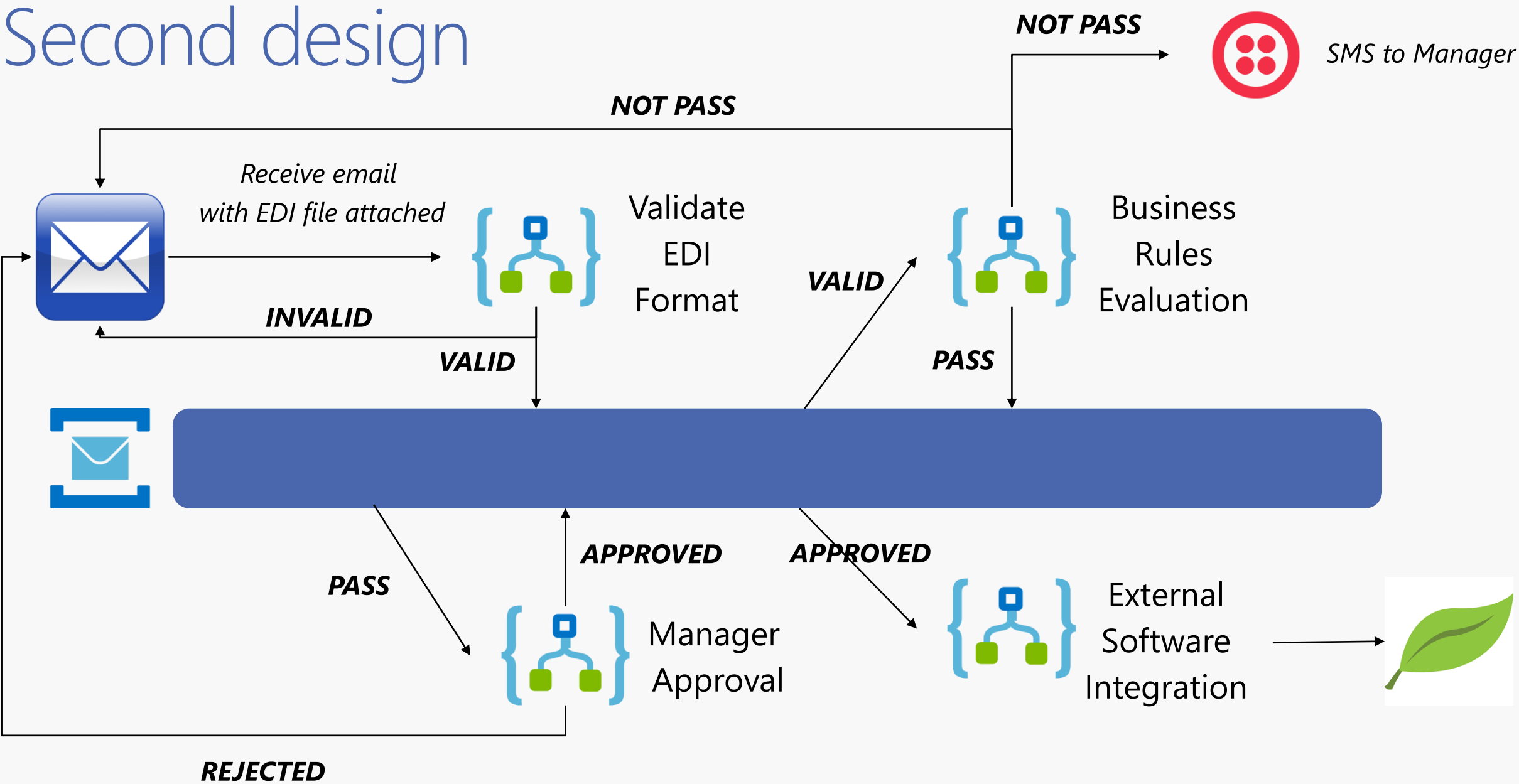✓ **Business Rules Engine**: ¿Liquid?

Connectors

✓ Allows communication with External Systems

SaaS

- apiFigures
- Asana
- Azure API Management
- Azure App Services
- Azure Automation
- Azure Cognitive Face API
- Azure Cognitive LUIS
- Azure Cognitive Text Analytics
- Azure Data Lake Store
- Azure Document DB
- Azure Functions
- Azure Machine Learning
- Azure Resource Manager
- Azure Service Bus
- Azure SQL
- Azure Storage Blob
- Azure Storage Queues
- Basecamp
- Bing Search

Protocols / Native

- HTTP, HTTPS
- HTTP Webhook
- FTP, SFTP
- SMTP
- RSS
- Compose, Query, Parse JSON
- Wait
- Terminate
- Workflow

- BitBucket
- Bitly
- Blogger
- Box
- Buffer
- Campfire
- Chatter
- Common Data Service
- Disqus
- DocuSign
- Dropbox
- Dynamics AX Online
- Dynamics CRM Online
- Dynamics CRM Service Bus
- Dynamics Financials
- Dynamics Operations
- Easy Redmine
- Eventbrite
- Facebook
- Freshdesk

Hybrid

- BizTalk Server
- File System
- IBM DB2
- Informix
- SharePoint Server
- SQL Server
- SAP
- Websphere MQ

- GitHub
- Gmail
- Google Calendar
- Google Contacts
- Google Drive
- Google Sheets
- Google Tasks
- GoTo Meeting
- GoTo Training
- GoTo Webinar
- Harvest
- HelloSign
- Infusionsoft
- JIRA
- Insightly
- Instagram
- Instapaper
- MailChimp
- Mandrill
- Medium

- Microsoft Project Online
- Microsoft Translator
- MSN Weather
- Office 365
- Office 365 Users
- Office 365 Video
- OneDrive
- OneDrive for Business
- OneNote
- Outlook.com
- Outlook Tasks
- PagerDuty
- Pinterest
- Pipedrive
- Power BI
- Project Online
- Redmine
- Salesforce

Azure Services and Power Apps Connectors

- API / WebApp
- Azure DocumentDB
- Azure ML
- Azure Blob Storage
- Resource Manager
- Azure Queues
- Cognitive Svc
- Common Data Service
- Event Hubs
- Nested LogicApp
- Power BI
- Service Bus
- SQL Azure

- Salesforce Chatter
- SendGrid
- SharePoint Online
- Slack
- SmartSheet
- SparkPost
- Stripe
- Survey Monkey
- Todoist
- Trello
- Twilio
- Twitter
- UserVoice
- VS Team Services
- Wordpress
- Wunderlist
- Yammer
- YouTube

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Demo

First design

Second design

NOT PASS SMS to Manager

NOT PASS

Receive email with EDI file attached → Validate EDI Format

VALID → Business Rules Evaluation

INVALID

VALID

PASS

NOT PASS

PASS

APPROVED **APPROVED**

Manager Approval

External Software Integration

REJECTED

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Thanks and enjoy!