

Microsoft Dynamics & Power

USER DAY **2023**

Do more with less



INTEGRATING WITH NAV & BC (AND EVERYTHING ELSE)

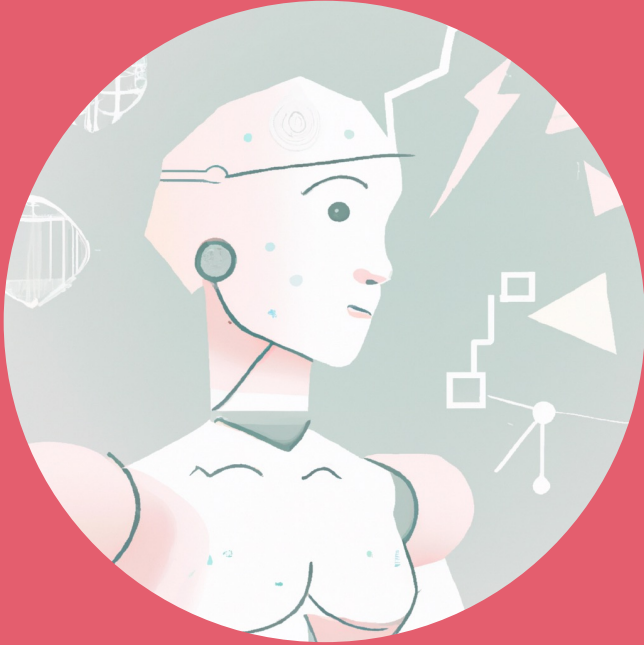
AGENDA

What is Power Automate
and when should we use it?

What is AIS and when
should we use it?

Monitoring your integrations





**“WE WANT TO LOG ALL
EMAILS SENT TO
'COMMENTS@EMAIL.COM'
TO SHAREPOINT”**



Read Email

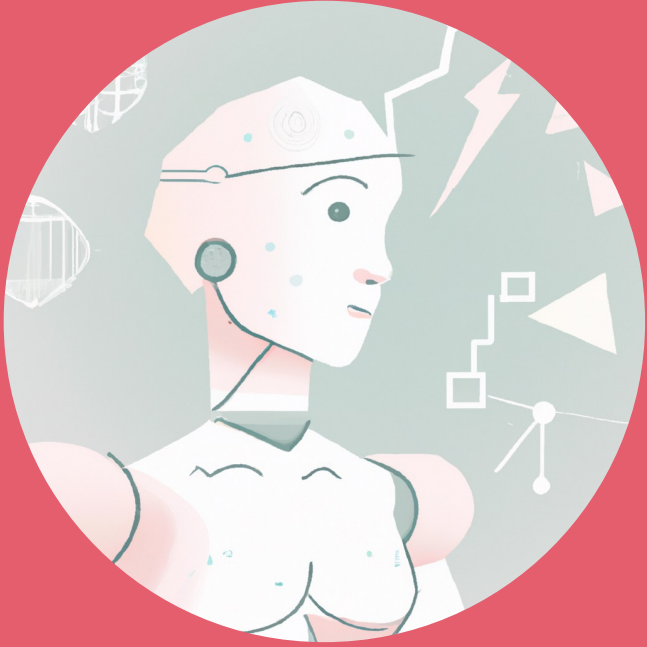
Add Entry to
SharePoint





Power
Automate





**"WE WANT TO SEND AN
EMAIL TO A CUSTOMER
WHEN THEIR ORDER IS
ON ITS WAY"**



Listen for
new
shipments
in the
warehouse





Listen for
new
shipments
in the
warehouse

Get
Customer
Details
from CRM

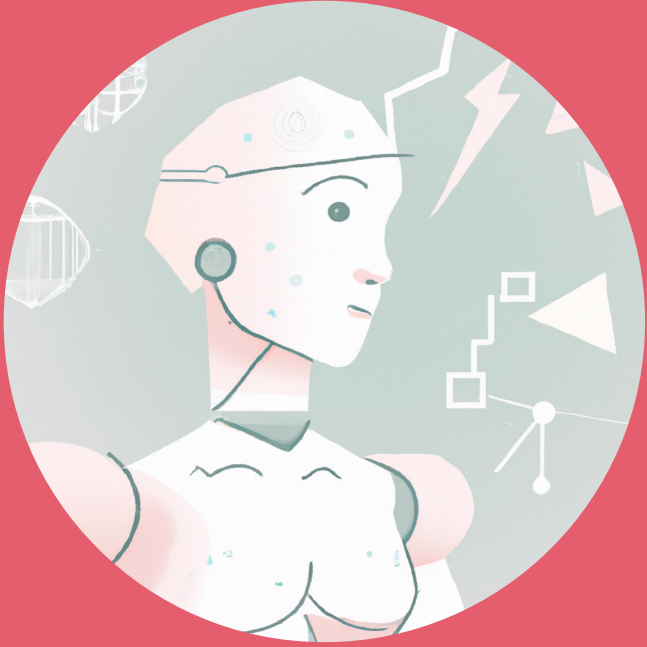
Send Email





Power
Automate





**“ACTUALLY, CAN WE
ALSO SEND AN SMS?”**



Listen for
new
shipments
in the
warehouse

Get
Customer
Details
from CRM

Send Email





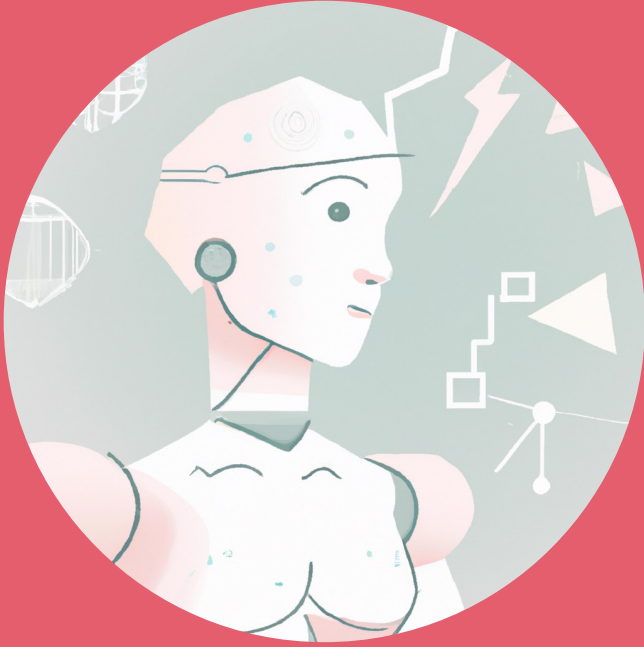
Listen for
new
shipments
in the
warehouse

Get
Customer
Details
from CRM

Send Email

Send SMS





**“NO...ONLY SOME OF
THEM!”**



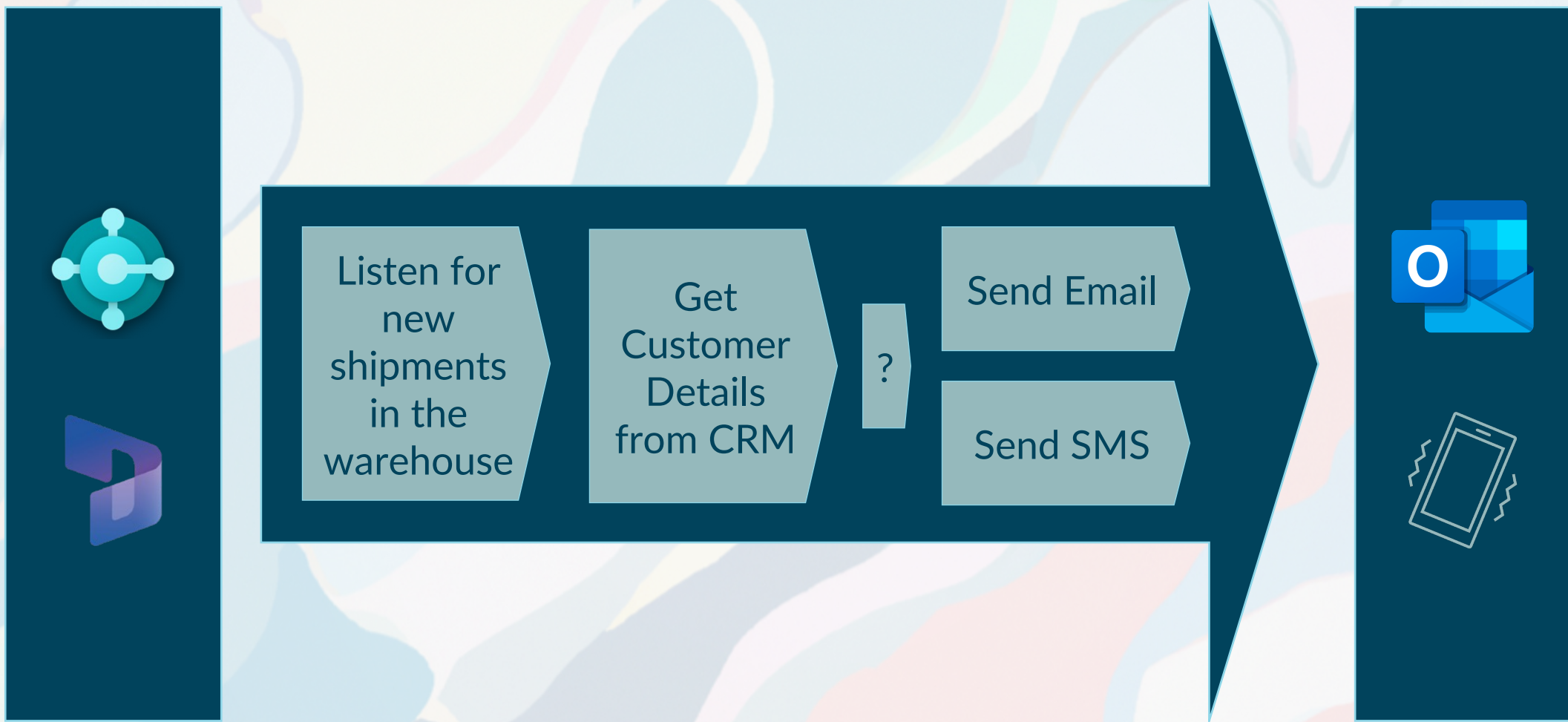
Listen for
new
shipments
in the
warehouse

Get
Customer
Details
from CRM

Send Email

Send SMS







Power
Automate



MICROSOFT POWER AUTOMATE



Connect
systems
together

Apply Logic

No code
required

100s of
Standard
Connectors

Logic is
independent
of systems

Outsource
workload to
cloud

POWER AUTOMATE IN BC

Contoso Electronics Dynamics 365 Business Central

Environment: Sandbox2

Customer Card

10000 · Adatum Corporation

Home New Document Prices & Discounts Customer Navigate Report Actions Related Reports Automate Fewer options

Release Reopen Contact Apply Template Merge With... Send Email Power Automate

General

No.	10000	Blocked	Invoice
Name	Adatum Corporation	Total Sales	233,972.94
Balance (LCY)	106,662.89	Costs (LCY)	26,121.00
Balance (LCY) As Vendor	0.00	Status	
Balance Due (LCY)	106,662.89	Workflow Routing Parameter	
Credit Limit (LCY)	0.00	Customer Type	B2B-SMALL

Address & Contact

Address	Station Road, 21	Phone No.	
		Mobile Phone No.	

10000 · Adatum Corporation

Home

New Document

Prices & Discounts

Customer

Navigate

Report

Actions ▾

Related ▾

Reports ▾

Automate ▾

Fewer options

Release

Reopen

Contact

Apply Template

Merge With...

Send Email

Power Automate >

General

Show more

No.	10000	...	Blocked	Invoice	▾
Name	Adatum Corporation			Total Sales	233,972.94
Balance (LCY)	106,662.89			Costs (LCY)	26,121.00
Balance (LCY) As Vendor	0.00			Status	
Balance Due (LCY)	106,662.89			Workflow Routing Parameter
Credit Limit (LCY)	0.00			Customer Type	B2B-SMALL

Address & Contact

Show more

Address		Phone No.	
Address	Station Road, 21	Mobile Phone No.	
Address			



Customer Card



✓ Saved



Create a flow



+ Create from blank

Filtered templates ▾

Search templates ...



Block the selected customer in Dynamics
365 Business Central

By Microsoft

Instant

195

Address

Station Road, 21

Mobile Phone No.

Customer Card

✓ Saved

Create a flow

Block the selected customer in Dynamics 365 Business Central

Flow type: Instant

Blocks new transactions relating to the selected customer. The user invoking the flow must select the category of transactions to block, and may provide a reason for this action. An e-mail notification will be sent to the recipient(s) specified by the creator of the flow.

Flow name

Block the selected customer in Dynamics 365 Business Central

Sign in *

This flow uses the following apps. A green check means you're ready to go.

Dynamics 365 Business Central

Office 365 Outlook

Next

Cancel

Address

Station Road, 21

Mobile Phone No.



Customer Card



✓ Saved



Create a flow



Block the selected customer in Dynamics 365 Business Central

Flow type: Instant

Blocks new transactions relating to the selected customer. The user invoking the flow must select the category of transactions to block, and may provide a reason for this action. An e-mail notification will be sent to the recipient(s) specified by the creator of the flow.

Set up your flow

* Recipient(s) to notify

MA MOD Administrator X



Edit in advanced mode



Back

Create flow

Cancel

Address

Station Road, 21


Mobile Phone No.

 Customer Card



✓ Saved  

10000 · Adatum Corporation

- [Home](#) | [New Document](#) | [Prices & Discounts](#) | [Customer](#) | [Navigate](#) | [Report](#) | [Actions](#) ▾ | [Related](#) ▾ | [Reports](#) ▾ | [Automate](#) ▾ | [Fewer options](#) 

-  Release |  Reopen |  Contact |  Apply Template |  Merge With... |  Send Email 

General

No. 10000

Name Adatum

Balance (LCY)

Balance (LCY) As Vendor

Balance Due (LCY)

Credit Limit (LCY) 0.00

Customer Type B2B-SMALL

ice ▾

233,972.94

26,121.00

...


Address & Contact

Address

Address Station Road, 21

Phone No.

Mobile Phone No.

 **Workflow added successfully!**

You'll be able to run this workflow from the Automate menu.

Want to make changes?

[Manage your workflow in Power Automate](#)

OK

←

Customer Card

+

✓ Saved

10000 · Adatum Corporation

- Home
- New Document
- Prices & Discounts
- Customer
- Navigate
- Report
- Actions ▾
- Related ▾
- Reports ▾
- Automate ▾
- Fewer options
- i

- Release
- Reopen
- Contact
- Apply Template
- Power Automate
-

Block the selected customer in Dynamics 365 Business Central

General

No.	<input type="text" value="10000"/>	...	Blocked	<input type="text" value="Invoice"/>	
Name	<input type="text" value="Adatum Corporation"/>			Total Sales	233,972.94
Balance (LCY)	106,662.89			Costs (LCY)	26,121.00
Balance (LCY) As Vendor	0.00			Status	
Balance Due (LCY)	106,662.89			Workflow Routing Parameter
Credit Limit (LCY)	0.00			Customer Type	<input type="text" value="B2B-SMALL"/>

Blocks new transactions relating to the selected customer. The user invoking the flow must select the category of transaction and provide a reason for this action. An e-mail notification will be sent to the recipient(s) specified by the creator of the flow.

Address & Contact

Address		Phone No.	<input type="text"/>
Address	<input type="text" value="Station Road, 21"/>	Mobile Phone No.	<input type="text"/>
Address	<input type="text"/>		<input type="text"/>

Customer Card

10000 · Adatum Corporation

Home

New Document

Prices & Discounts

Customer

Navigate

Report

Actions

Related

Reports

AI

Release

Reopen

Contact

Apply Template

Merge With...

Send Email

General

No.10000

BlockedInvoice

NameAdatum Corporation

Total Sales

Balance (LCY)106,662.89

Costs (LCY)

Balance (LCY) As Vendor0.00

Status

Balance Due (LCY)106,662.89

Workflow Routing Parameter

Credit Limit (LCY)0.00

Customer TypeB2B-SMALL

Address & Contact

AddressStation Road, 21

Phone No.

Mobile Phone No.

Run flow

365 Business Central

Owner: MOD Administrator

Blocks new transactions relating to the selected customer. The user invoking the flow must select the category of transactions to block, and may provi ...

See more

Blocked Status *

Select an option

Reason

Give a reason why this customer has been blocked

This flow uses Dynamics 365 Business Central, and Office 365 Outlook.

Review connections and actions

Run flow

Cancel

Customer Card

10000 · Adatum Corporation

Home

New Document

Prices & Discounts

Customer

Navigate

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Actions

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Reports

AI

Release

Reopen

Contact

Apply Template

Merge With...

Send Email

General

No.10000

BlockedInvoice

NameAdatum Corporation

Total Sales

Balance (LCY)106,662.89

Costs (LCY)

Balance (LCY) As Vendor0.00

Status

Balance Due (LCY)106,662.89

Workflow Routing Parameter

Credit Limit (LCY)0.00

Customer TypeB2B-SMALL

Address & Contact

AddressStation Road, 21

Phone No.

Mobile Phone No.

Run flow

365 Business Central

Owner: MOD Administrator

Blocks new transactions relating to the selected customer. The user invoking the flow must select the category of transactions to block, and may provide a reason for blocking.

See more

Blocked Status*

All

Reason

They haven't paid any invoices for ages!

This flow uses Dynamics 365 Business Central, and Office 365 Outlook.

[Review connections and actions](#)

Run flow

Cancel

Customer Card

10000 · Adatum Corporation

Home

New Document

Prices & Discounts

Customer

Navigate

Report

Actions

Related

Reports

AI

Release

Reopen

Contact

Apply Template

Merge With...

Send Email

General

No.10000

BlockedInvoice

NameAdatum Corporation

Total Sales

Balance (LCY)106,662.89

Costs (LCY)

Balance (LCY) As Vendor0.00

Status

Balance Due (LCY)106,662.89

Workflow Routing Parameter

Credit Limit (LCY)0.00

Customer TypeB2B-SMALL

Address & Contact

AddressStation Road, 21

Phone No.

Mobile Phone No.

Run flow

Your flow run successfully started. To monitor it, go to the [Flow Runs Page](#).

Done

Block the selected customer in Dynamics 365 Business Central

Ran at 17/05/2023 11:30:45

Resubmit

Cancel

Edit

Your flow ran successfully.

For a selected record (V3)

0s

Get record (V3)

1s

Update record (V3)

1s

Send an email (V2)

1s

Block the selected customer in Dynamics 365 Business Central

Undo Redo Comments Save Flow checker Test

For a selected record (V3)

Environment name (optional)
The Business Central environment where this flow can be run (leave it em

Company name (optional)
The Business Central company where this flow can be run (leave it empty

Page or table (optional)
TABLE18

Blocked Status

Select an option

Drop-down list of options

Ship

Invoice

All

Enter another option

Reason

Give a reason why this customer has been blocked

+ Add an input

Get record (V3)

Update record (V3)

Block the selected customer in Dynamics 365 Business Central

Undo

Redo

Comments

Save

Flow checker

Test

For a selected record (V3)

Get record (V3)

* Environment

Environment N... x

* Company

Company Id x

* API category

v2.0

* Table name

customers

* Row id

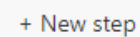
System Id x

Update record (V3)

Send an email (V2)

+ New step


Save

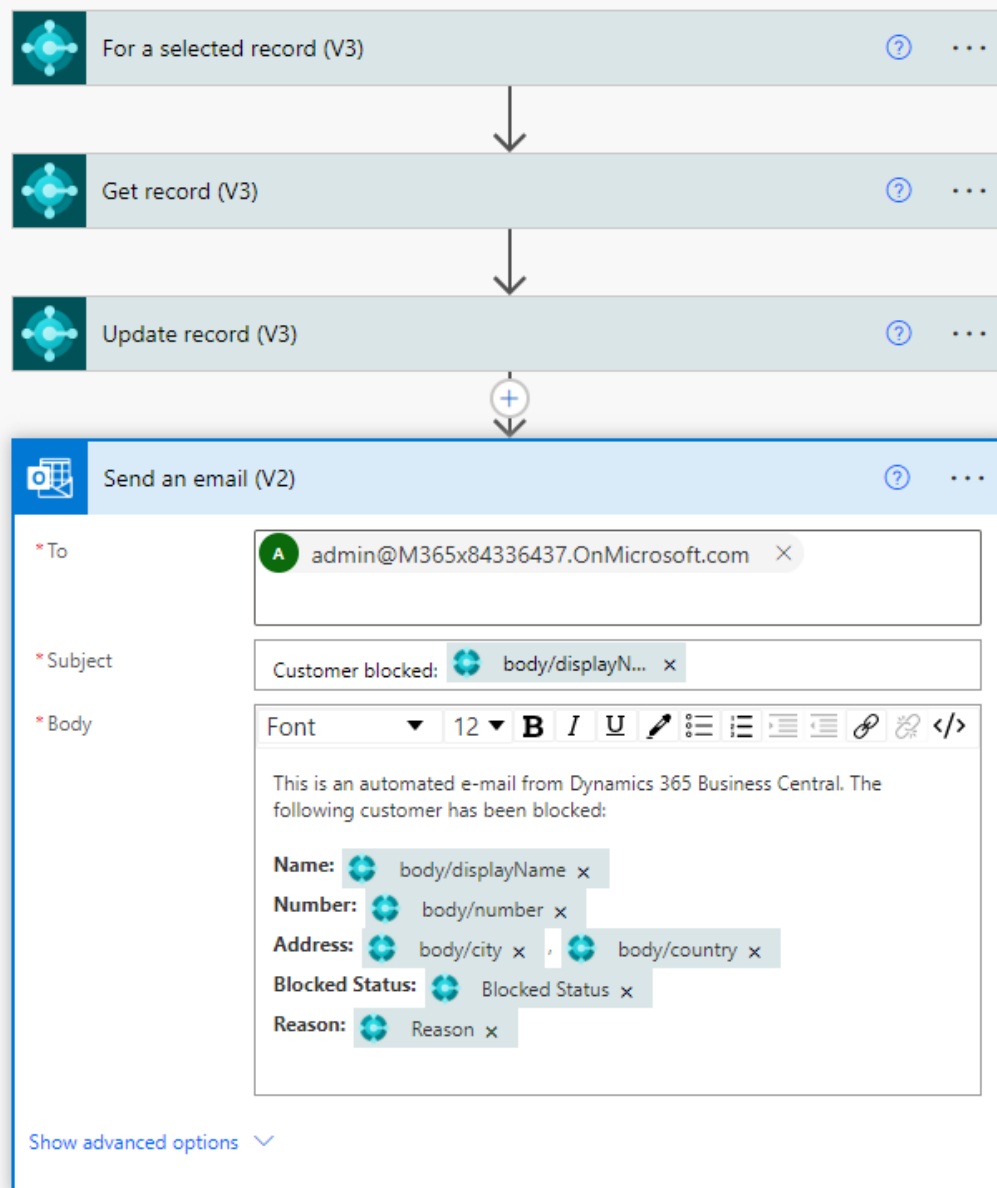


Save




Ask a chatbot


 Ask a chatbot





← Block the selected customer in Dynamics 365 Business Central

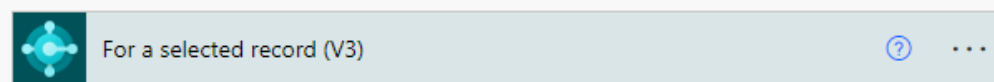
 Undo Redo

Comments

 Save

 Flow checker

 Test



Block the selected customer in Dynamics 365 Business Central

Undo

Redo

Comments

Save

Flow checker

Test

For a selected record (V3)

Get record (V3)

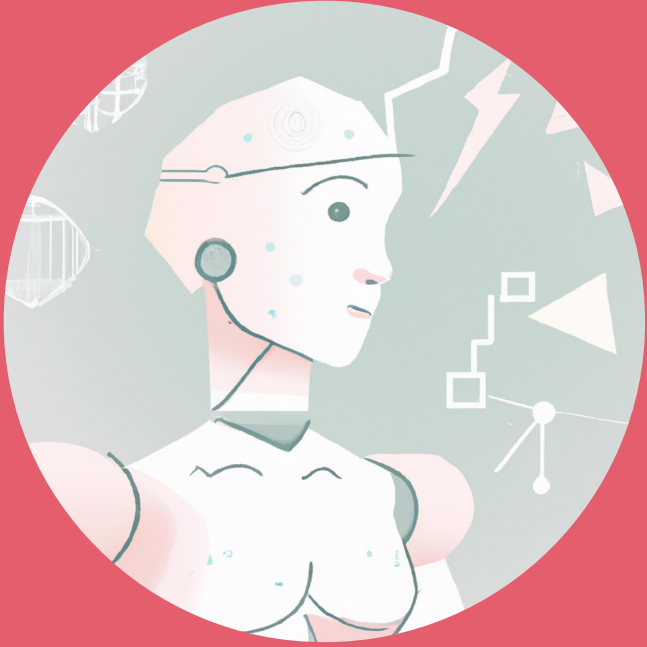
Start and wait for an approval

Update record (V3)

Send an email (V2)

+ New step

Save



**"WE NEED TO SEND OUR
ORDERS TO THE
WAREHOUSE SYSTEM"**



Look for
new
Orders in
the Order
system

Convert
data to
Warehouse
System
Format

Send data
to
Warehouse
System





Logic
Apps



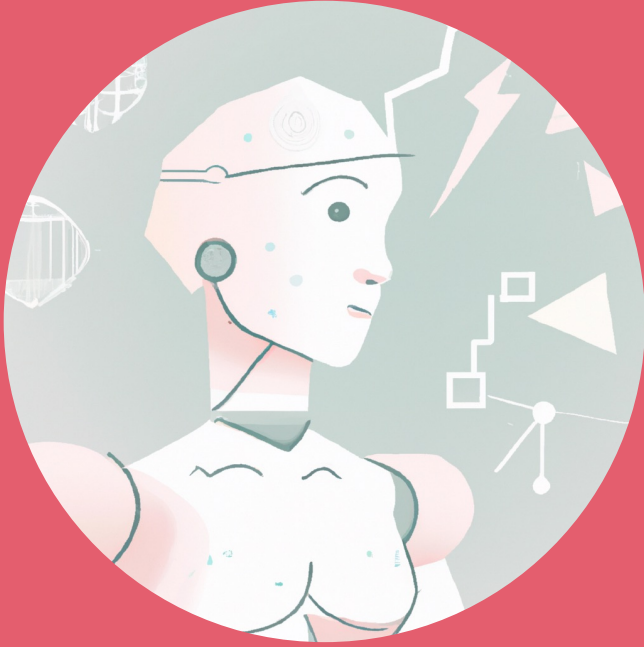
AZURE LOGIC APPS



Big brother
of Power
Automate

Better for
large
workloads

Billed on
consumption,
not flat fee



**“THAT’S GREAT, BUT
OUR WAREHOUSE HAS A
DODGY INTERNET
CONNECTION”**

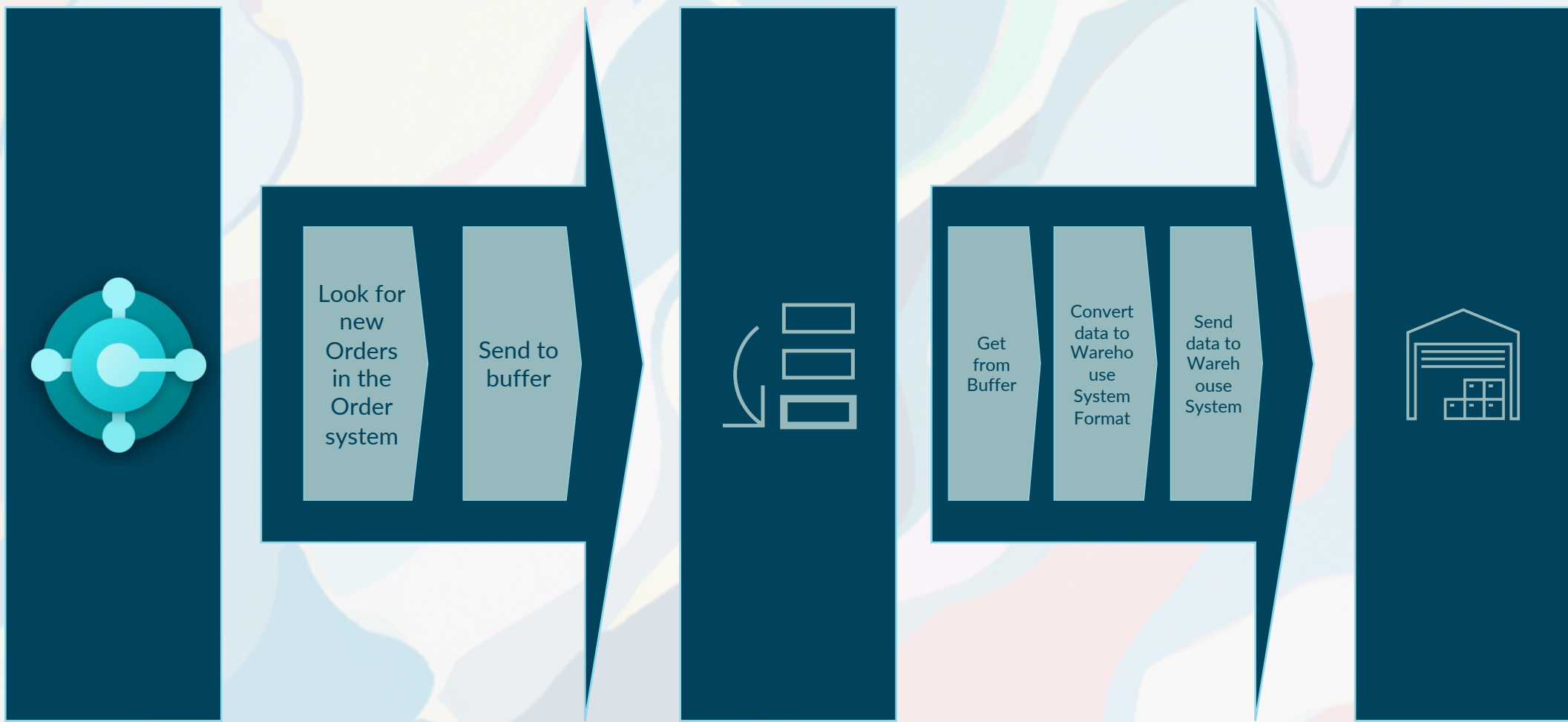


Look for
new
Orders in
the Order
system

Convert
data to
Warehouse
System
Format

Send data
to
Warehouse
System







Logic
Apps

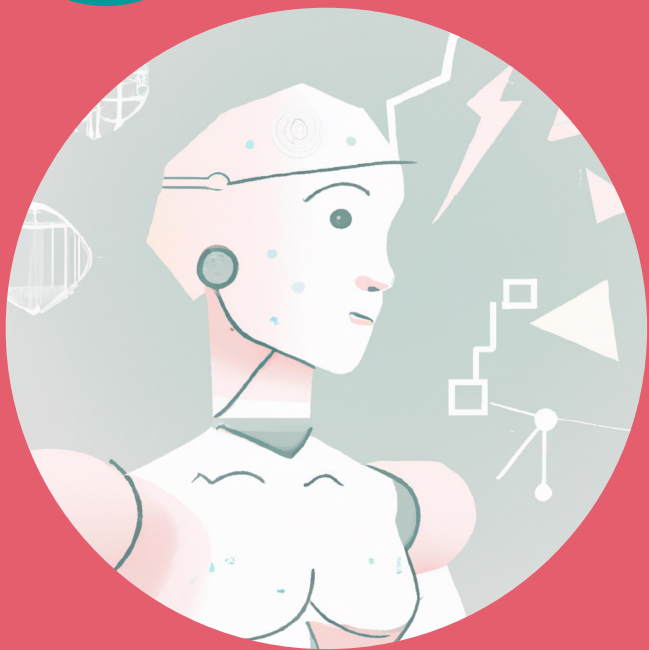


Service
Bus

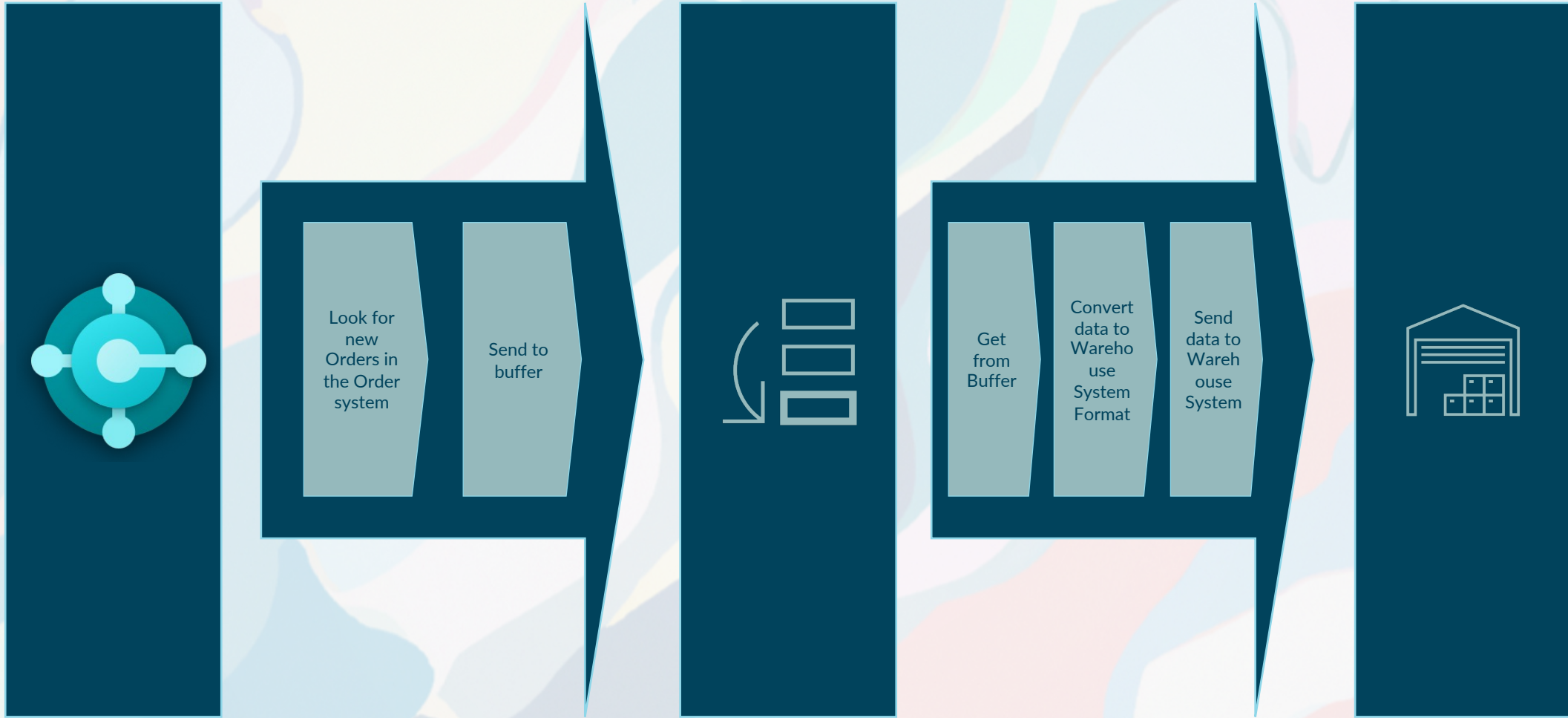


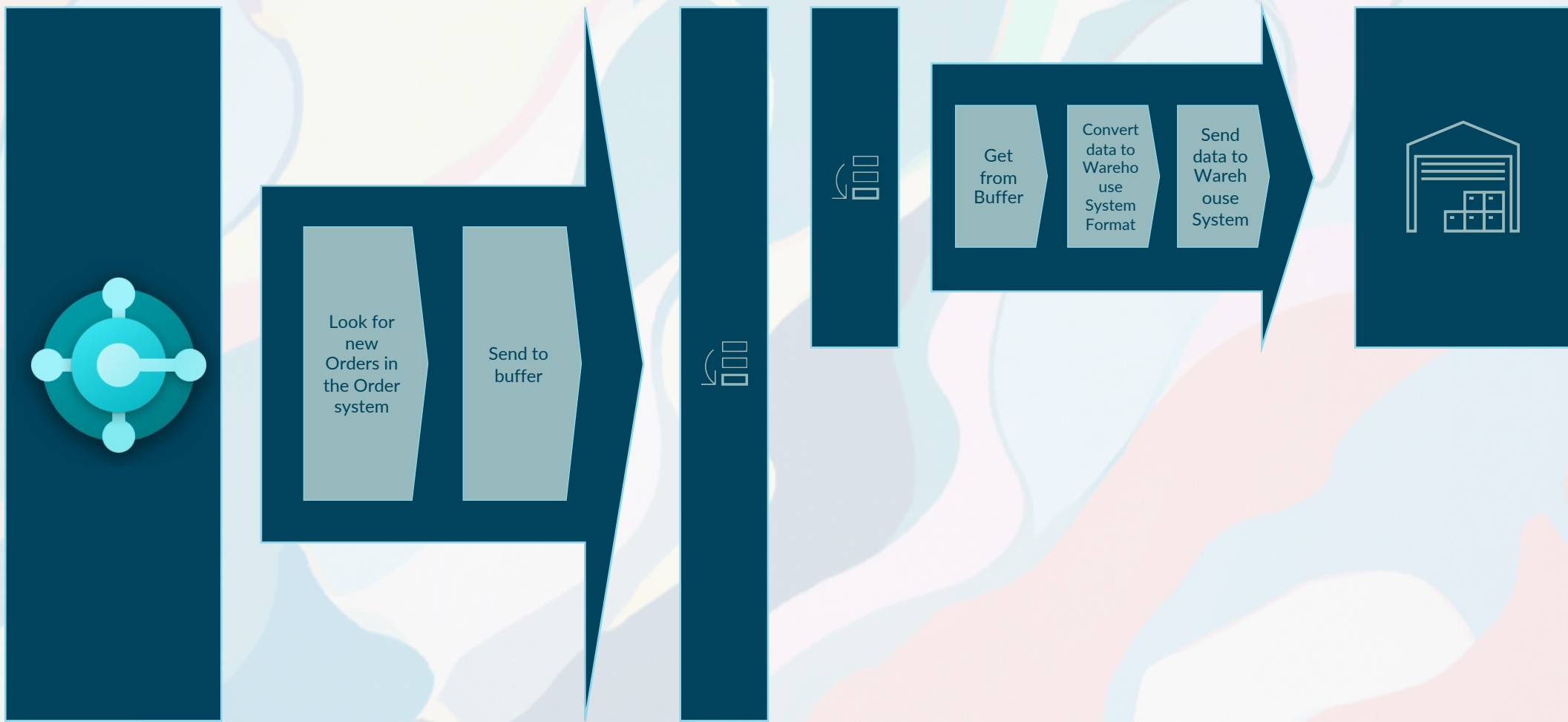
Logic
Apps

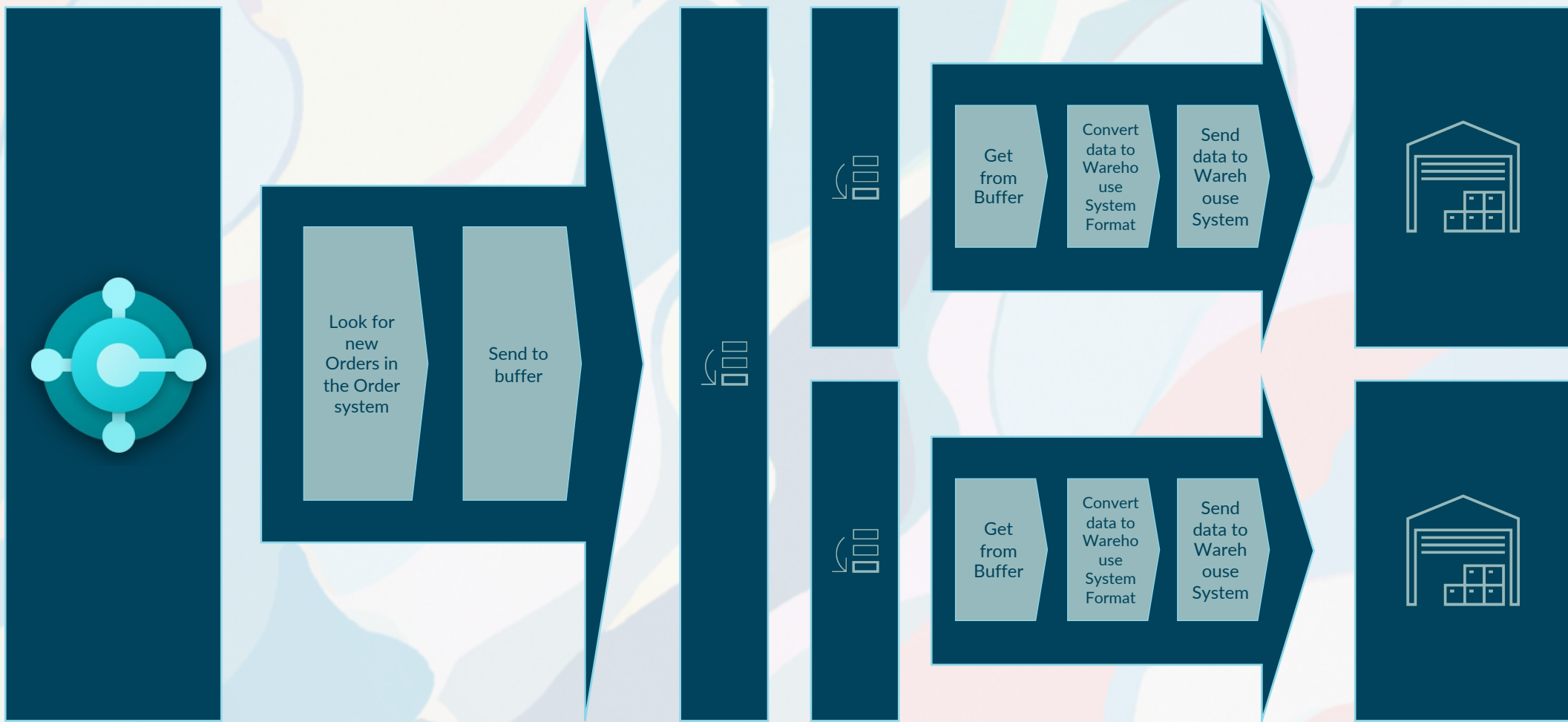


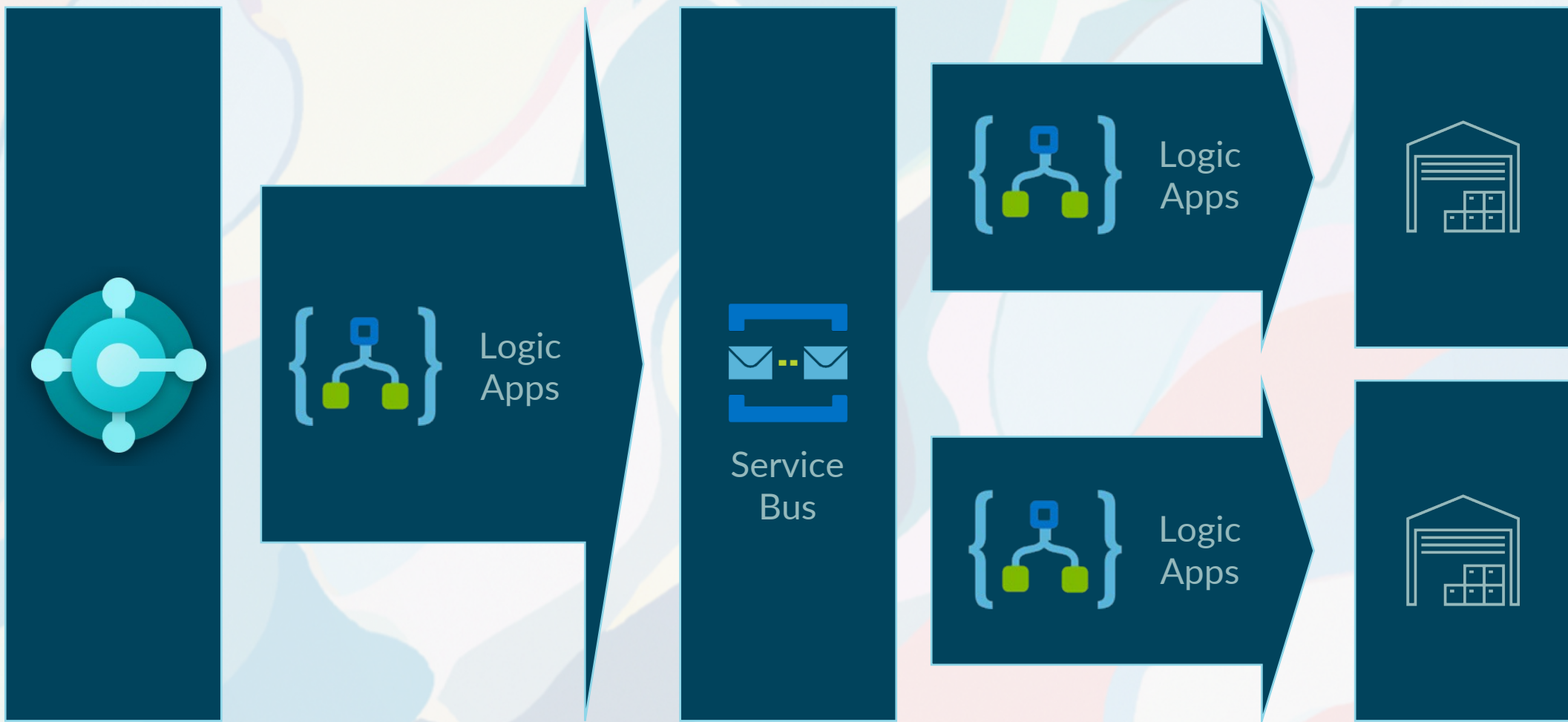


***"ACTUALLY, WE HAVE
TWO DIFFERENT
WAREHOUSES
DEPENDING ON WHERE
WE'RE SHIPPING TO"***









AZURE SERVICE BUS

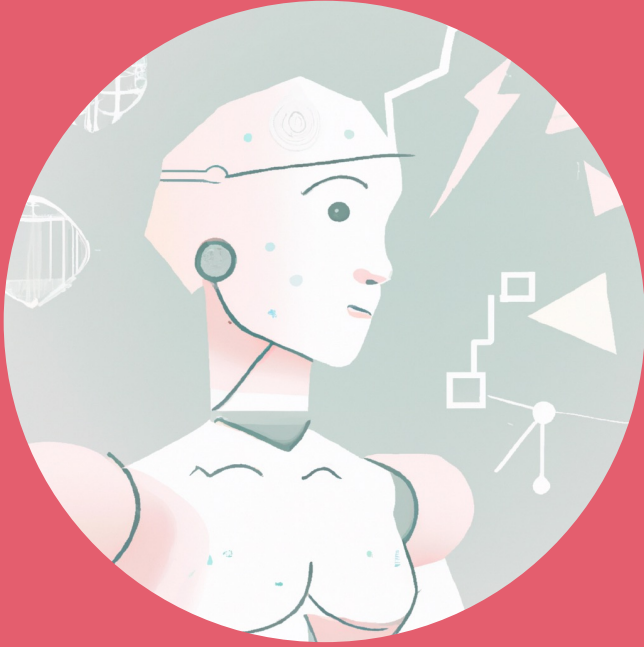


A simple
queueing
system

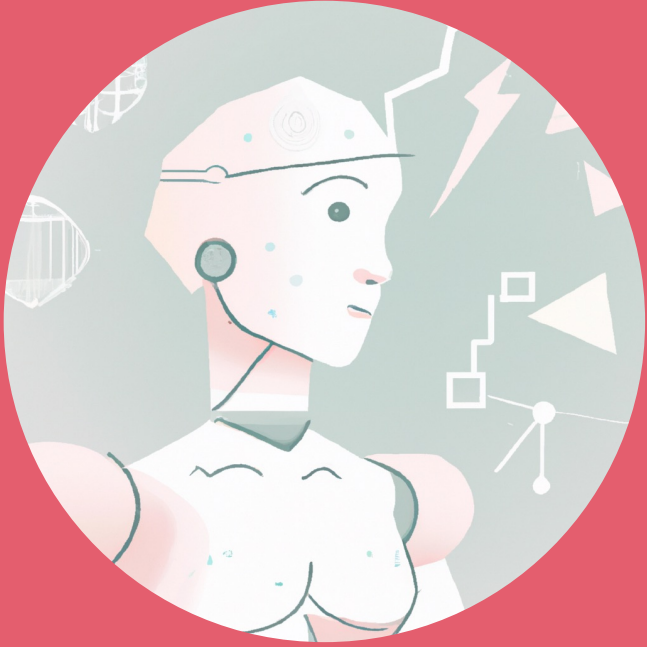
Acts as a
buffer

Can
control
workloads

Can
distribute
to
multiple
systems



**"WE WANT OUR
CUSTOMERS' SYSTEMS
TO SEND THEIR
ORDERS TO OUR
SYSTEM"**



**“...BUT WE’RE PLANNING
ON REPLACING IT NEXT
YEAR”**



Call our APIs
from their
Systems

External
APIs

Translate to
our Order
system API
format





Help them
understand
our APIs

Authenticate
them

Control
how often
they send
data

External
APIs





Call our APIs
from their
Systems

External
APIs

Translate to
our Order
system API
format





Call our APIs
from their
Systems

External
APIs

Translate to
our Order
system API
format





API
Management



API
Management



API
Management



AZURE API MANAGEMENT



Define APIs
independent of
underlying
systems

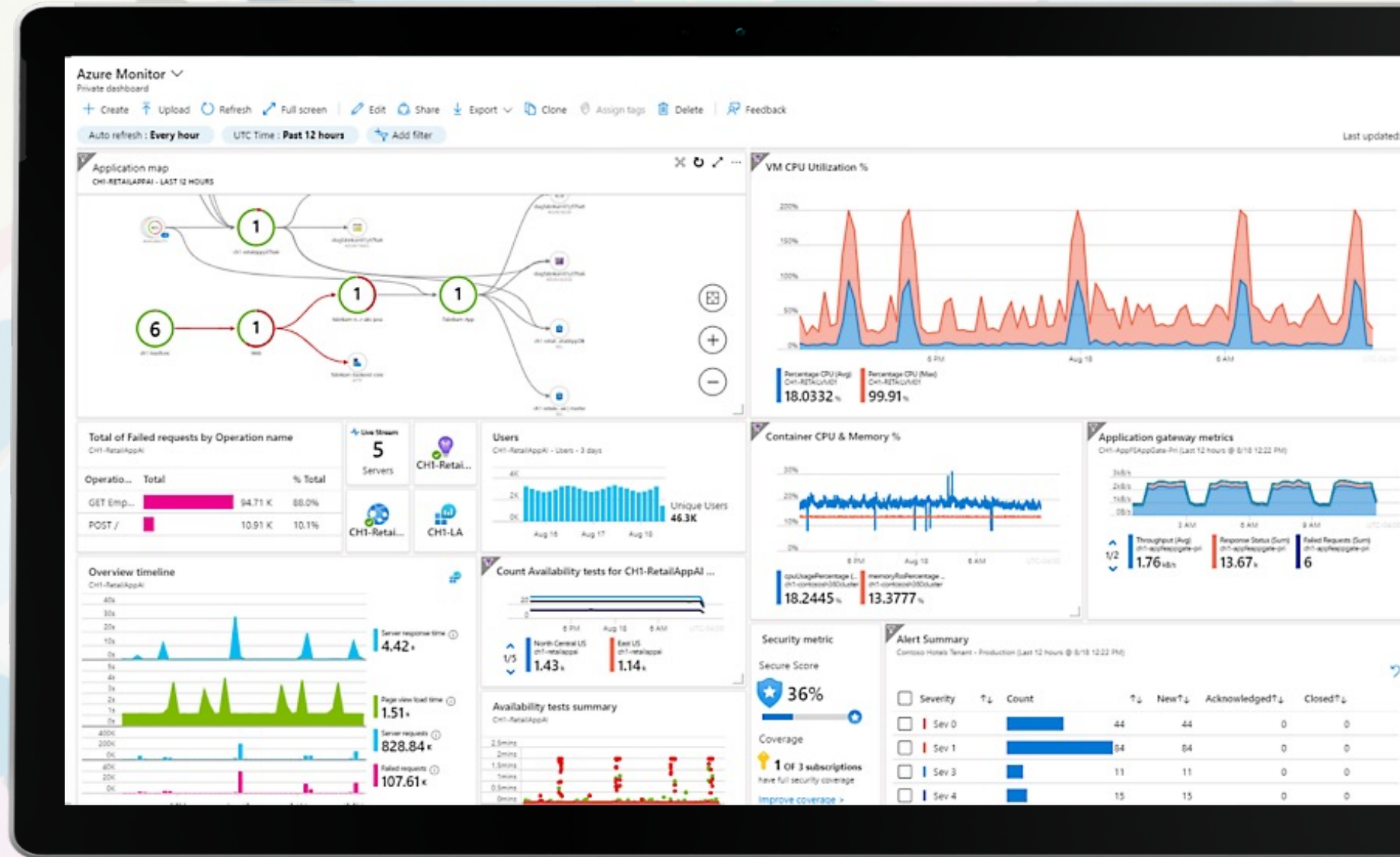
Control Access

Control Call
Rate

Provide API
Developer
Documentation

MONITORING

AZURE MONITOR



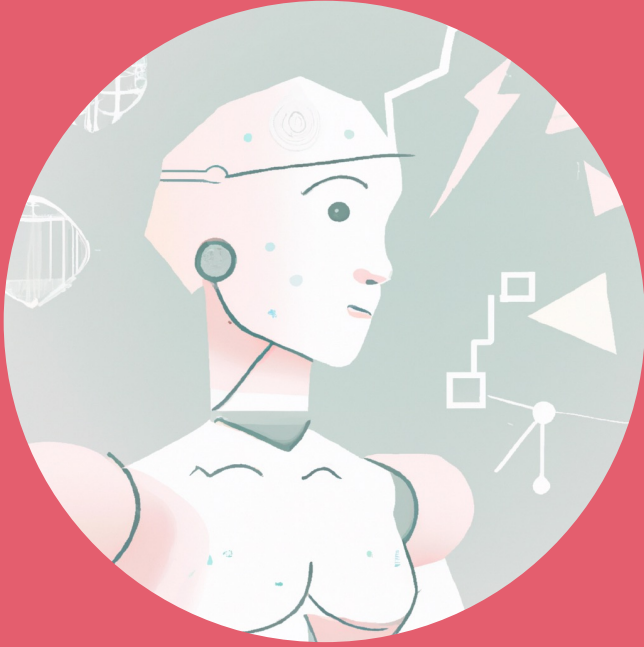
AZURE MONITOR



Part of Azure
toolset

Great at birds
eye view of
Azure
Services

Not Easy to
Configure for
Detail



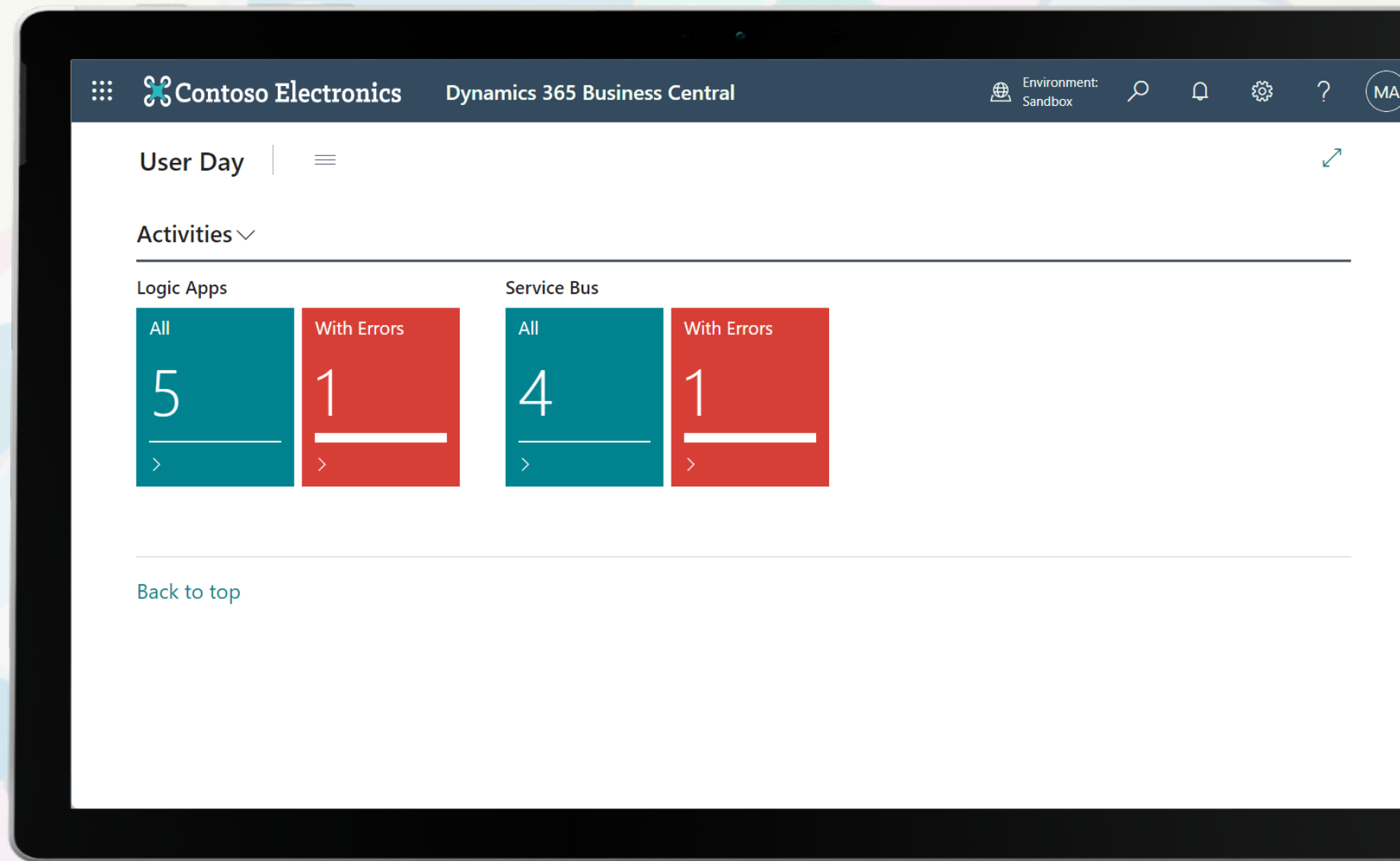
**"I NEED TO KNOW IF AN
ORDER GOES MISSING"**

ENHANCED AIS MONITOR



Azure Logic
Apps

Azure
Service Bus



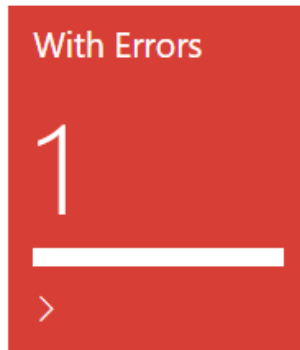


User Day

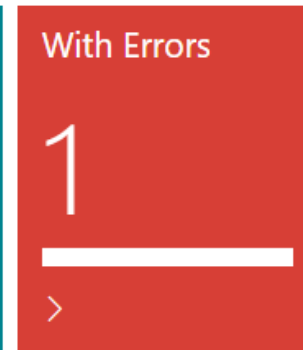


Activities

Logic Apps



Service Bus





[Back to top](#)





All



 Search

 Edit List

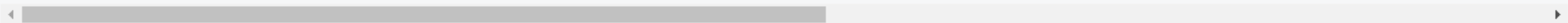
 Delete

 Refresh

More options



Workflow Name ↑	Resource Type	Kind	Is Disa...	State
→ i-sy-dl-handler	⋮ Logic App Standard	Stateful	<input type="checkbox"/>	Healthy
o-asy-product-bc-mes-p005	Logic App Standard	Stateful	<input type="checkbox"/>	Healthy
o-asy-product-bc-mgt-p005	Logic App Standard	Stateful	<input type="checkbox"/>	Healthy
o-asy-product-bc-wms1-p005	Logic App Standard	Stateful	<input type="checkbox"/>	Healthy
o-asy-product-bc-wms2-p005	Logic App Standard	Stateful	<input type="checkbox"/>	Healthy





Edit - Workflow Run List



Search



Edit List



Refresh



Load More



Workflow



Filter

Client Tracking ID

	Workflow Name		Start Time	End Time	Status	Error Code	Error Message
→	o-asy-product-bc-mgt-p005	⋮	17/05/2023 07:11	17/05/2023 07:11	FAILED	ActionFailed	An action fai
	o-asy-product-bc-mgt-p005		17/05/2023 07:08	17/05/2023 07:08	FAILED	ActionFailed	An action fai
	o-asy-product-bc-mgt-p005		15/05/2023 21:34	15/05/2023 21:34	FAILED	ActionFailed	An action fai
	o-asy-product-bc-mgt-p005		15/05/2023 21:34	15/05/2023 21:34	SUCCEEDED		
	o-asy-product-bc-mgt-p005		15/05/2023 21:32	15/05/2023 21:32	FAILED	ActionFailed	An action fai

Close



View - Workflow Run Action List



Search

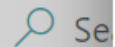


Action Name ↑	Start Time	End Time	Status	Code
Complete_the_message_in_a_topic_su...	17/05/2023 07:11	17/05/2023 07:11	Skipped	ActionSkipped
Compose_-_RequestBody	17/05/2023 07:11	17/05/2023 07:11	Skipped	ActionSkipped
HTTP_-_POST	17/05/2023 07:11	17/05/2023 07:11	Skipped	ActionSkipped
Initialize_variable_-_Content	17/05/2023 07:11	17/05/2023 07:11	Succeeded	NotSpecified
Invoke_a_workflow_in_this_workflow_...	17/05/2023 07:11	17/05/2023 07:11	Skipped	ActionSkipped
Invoke_a_workflow_in_this_workflow_...	17/05/2023 07:11	17/05/2023 07:11	Succeeded	OK
Parse_JSON_-_Content	17/05/2023 07:11	17/05/2023 07:11	Failed	ValidationFailed
<u>Scope</u>	⋮ 17/05/2023 07:11	17/05/2023 07:11	Failed	ActionFailed

Close



View - Workflow Run Action List



Se

Action M

Compl

Compo

HTTP_

Initializ

Invoke

Invoke

Parse

Scope

View - Workflow Run Action - 08585173029795469856075801106CU00 · Parse_JS...



Manage  Explain That Page

General

ActionName Parse_JSON_-_Content

Status Failed

StartTime 17/05/2023 07:11

Code ValidationFailed

EndTime 17/05/2023 07:11

Input

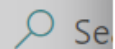


Preview ▾

Close



View - Workflow Run Action List



Se

Action M

Comple

Comple

HTTP_

Initializ

Invoke

Invoke

Parse

Scope

View - Workflow Run Action - 08585173029795469856075801106CU00 · Parse_JS...

[Manage](#) [? Explain That](#) [Page](#)

Input



Preview ▾

```
{
  "content": "{\r\n    \"operation_type\": \"Amend\",\r\n    \"no\": \"100517LARGE\",\r\n    \"style_description\": \"APL DOG BAG \",\r\n    \"variant_framework_code\": \"\",\r\n    \"brand\": \"\",\r\n    \"barcode_no\": null,\r\n    \"gross_weight\": 0,\r\n    \"qty_per_uom\": 1,\r\n    \"length\": 0,\r\n    \"width\": 0,\r\n    \"height\": 0,\r\n    \"volume\": 0,\r\n    \"vendor_no\": \"\",\r\n    \"variant_description\": \"Large\",\r\n    \"whse_pkg_inst\": \"\",\r\n    \"us_commodity_code\": \"\",\r\n    \"base_uom\": \"EACH\",\r\n    \"country_of_origin\": \"\",\r\n    \"shipping_conditions\": \"\",\r\n    \"unit_price\": 0\r\n  }",
  "schema": {
    "type": "object",
    "properties": {
      "base_uom": {
```

Close



View Workflow Run Action List



Se

Action M

Compl

Compo

HTTP_

Initializ

Invoke

Invoke

Parse

Scope

View - Workflow Run Action - 08585173029795469856075801106CU00 · Parse_JS...

[Manage](#) [? Explain That](#) [Page](#)

Output



Preview ▾

```
{
  "errors": [
    {
      "message": "Required properties are missing from object: itemNo.",
      "lineNumber": 0,
      "linePosition": 0,
      "path": "",
      "value": [
        "itemNo"
      ],
      "schemaId": "#",
      "errorType": "required",
      "childErrors": []
    }
  ]
}
```

Close



All



Search



New



Edit List



Delete



Refresh

More options



Topic/Queue ↑

Subscription ↑

Total Message
CountActive Message
CountErrored Message
CountAuto
Defer→ product

⋮ MAGENTO

1

0

1



product

MES

0

0

0



product

WMS1

0

0

0



product

WMS2

0

0

0

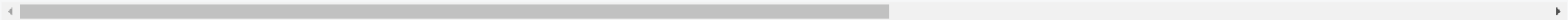


View - Message List



- Search
- Properties
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- Resubmit Selected
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- Export & Delete Selected
- Refresh
-
-

Sequence Number	Message ID	Topic	Subscription	State	Enq
<u>15</u> :	6655658483724cdc8065b31397024ed2	product	MAGENTO	Deferred	17/



Close



Edit - JSON Editor

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```
1 {  
2   "Subscription": "MAGENTO",  
3   "ClientTrackingId": "100517LARGE",  
4   "Postman-Token": "31938343-2484-460c-b2cd-b93cb71f336c",  
5   "X-ARR-LOG-ID": "1968368d-8673-4c47-ac8e-6a916c1a63f5",  
6   "CLIENT-IP": "10.0.32.12:56730",  
7   "X-SITE-DEPLOYMENT-ID": "apimwebappFUayR2DPzEx3TqqMTfH1zdyUxbYDkymWuYwhCIYz",  
8   "WAS-DEFAULT-HOSTNAME": "apimwebappfuayr2dpzex3tqqmtfh1zdyuxbydkymwuywhciyz.azurewebsites.net",  
9   "X-Forwarded-Proto": "https",  
10  "X-AppService-Proto": "https",  
11  "X-ARR-SSL": "2048|256|CN=Microsoft Azure TLS Issuing CA 06,O=Microsoft Corporation,C=US|CN=*.azure-api.net,O  
    =Microsoft Corporation,L=Redmond,S=WA,C=US",  
12  "X-Forwarded-TlsVersion": 1.2,  
13  "X-Forwarded-For": "185.23.254.203:50568,185.23.254.203",  
14  "X-Original-URL": "/bc/product",
```

Ln: 1 Col: 1

Close



Edit - JSON Editor



Manage

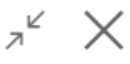
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```
1 {  
2   "operation_type": "Amend",  
3   "no": "100517LARGE",  
4   "style_description": "APL DOG BAG ",  
5   "variant_framework_code": "",  
6   "brand": "",  
7   "barcode_no": null,  
8   "gross_weight": 0,  
9   "qty_per_uom": 1,  
10  "length": 0,  
11  "width": 0,  
12  "height": 0,  
13  "volume": 0,  
14  "vendor_no": "",  
15  "variant_description": "Large",
```

Ln: 1 Col: 1

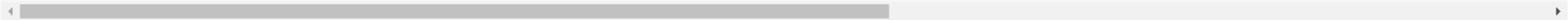
Close

View - Message List



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-
-

Sequence Number	Message ID	Topic	Subscription	State	Enq
<u>15</u> :	6655658483724cdc8065b31397024ed2	product	MAGENTO	Deferred	17/



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