

Setting Up Azure Service Bus for Datum360 Services

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Revision: A

Revision History

Issue	Summary of changes
A	Initial submission for review

A	12JAN22	Internal review	MF	12JAN22	EF	12JAN22	TP	
Issue	Issue Date	Reason for Issue	Author	Date	Checked	Date	Approved	Date

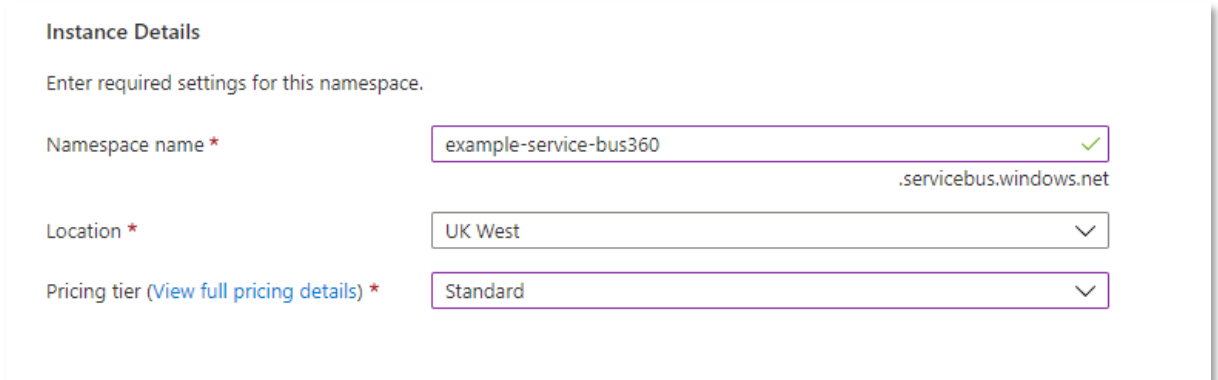
	Setting Up Azure Service Bus for Datum360 Services	D360-XXXX-XXX-XXXX Issue Date: 12 Jan 22 Revision: A
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1 Setting Up Azure Service Bus for Datum360

- 1.1.1 Create a service bus in Azure, The pricing tier must be set to **standard**. Not setting the pricing tier as standard will mean there is no access to topic creation.



Instance Details

Enter required settings for this namespace.

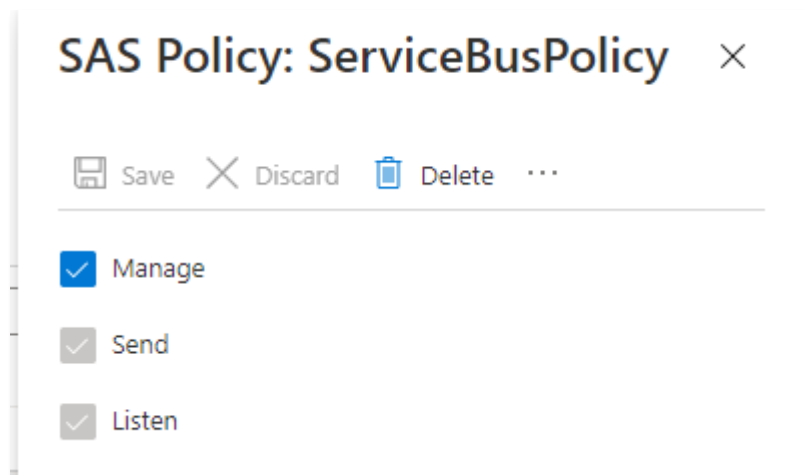
Namespace name * ✓
.servicebus.windows.net

Location * ▼

Pricing tier (View full pricing details) * ▼

Fig 1. Pricing Tier Set as Standard

- 1.1.2 After the service bus is created, a **shared access policy** needs to be created to manage the service bus.
- 1.1.3 The name can be anything, however it must have claims set for: Manage, Send, Listen.



SAS Policy: ServiceBusPolicy ×

Save Discard Delete ...

☒ Manage

☐ Send

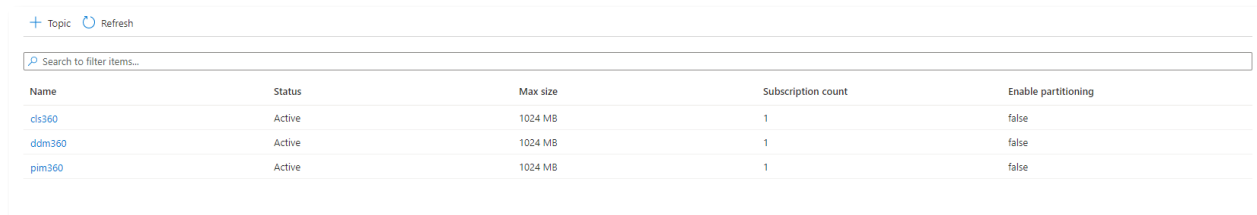
☐ Listen

Fig 2. Shared Access Policy Example

- 1.1.4 After the shared access policy has been created, it will have a **Primary Connection String** that begins with "Endpoint=". The value of this string should be provided to Datum360 so that Datum360 services can be registered with the new service bus.
- 1.1.5 Three topics must now be created for the service bus:

- a. pim360,
- b. cls360
- c. ddm360.

1.1.6 These topics are where the messages for the respective services will go to. The default topic settings can be used.



The screenshot shows the Azure Service Bus Topics page. At the top, there are buttons for '+ Topic' and 'Refresh'. Below is a search bar labeled 'Search to filter items...'. The main content is a table with the following columns: Name, Status, Max size, Subscription count, and Enable partitioning. The table lists three topics: cls360, ddm360, and pim360, all with a status of 'Active', a max size of '1024 MB', a subscription count of '1', and 'Enable partitioning' set to 'false'.

Name	Status	Max size	Subscription count	Enable partitioning
cls360	Active	1024 MB	1	false
ddm360	Active	1024 MB	1	false
pim360	Active	1024 MB	1	false

Fig 3. Example Topics

1.1.7 A subscription per topic is required to be created. This subscription will be used to receive messages.

Create subscription ...

Service Bus

Name * ⓘ

example-subscription ✓

Max delivery count * ⓘ

10 ✓

Auto-delete after idle for ⓘ

Days

14

Hours

0

Minutes

0

Seconds

0

☐ Never auto-delete☐ Forward messages to queue/topic ⓘ

MESSAGE SESSIONS

Service bus sessions allow ordered handling of unbounded sequences of related messages. With sessions enabled a subscription can guarantee first-in-first-out delivery of messages. [Learn more.](#)

☐ Enable sessions

MESSAGE TIME TO LIVE AND DEAD-LETTERING

Message time to live (default) ⓘ

Days

14

Hours

0

Minutes

0

Seconds

0

☐ Enable dead lettering on message expiration☐ Move messages that cause filter evaluation exceptions to the dead-letter subqueue

MESSAGE LOCK DURATION

Lock duration ⓘ

Days

0

Hours

0

Minutes

0

Seconds

30

Fig 4. Subscription Example

- 1.1.8 The Max delivery count is a required setting, it holds the number of times delivery can be attempted, for instance if the application collects the message, and then abandons it or fails to mark it as completed it, the message can be collected again up to the number of times of this parameter. It can be a value from 1 to 2000.
- 1.1.9 Once the subscriptions have been created and the Datum360 services have been connected to the service bus, messages received when a change is made in CLS360, PIM360 or DDM360 can be seen.

