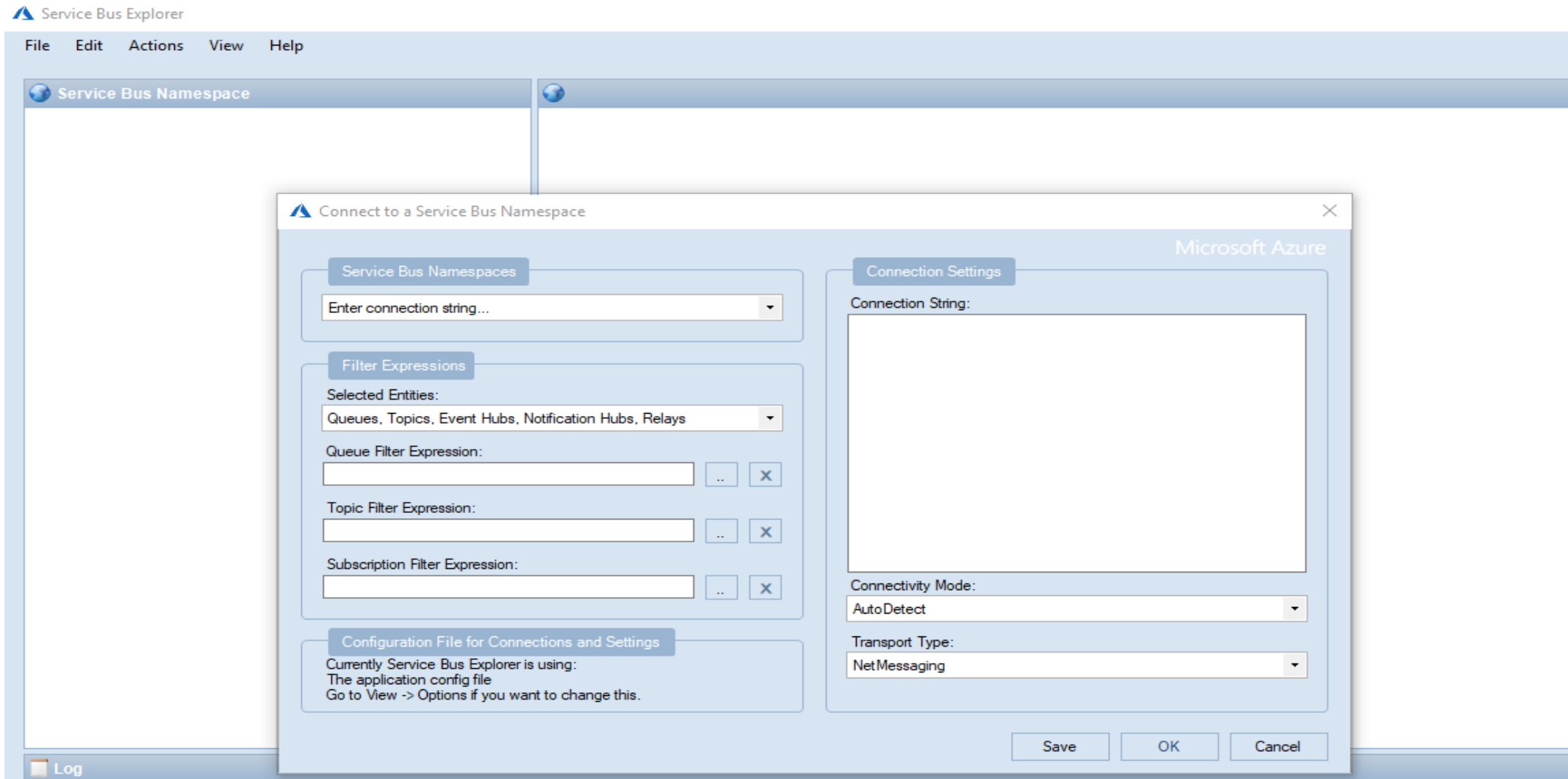


SBE Introduction


Once you have downloaded Paolos Service Bus Explorer from his github, start ServiceBusExplorer.exe, press file in the top right and press connect. In the drop down menu at the top, select enter connection string.



Log

<15:38:31> The file C:\Users\oskar\Desktop\Service Bu Explorer\ServiceBusExplorer-4.1.112\ServiceBusExplorer.exe.Config is used for the configuration settings.

You can connect to your service bus by navigating to the portal in your browser, enter your Service Bus Resource, navigate to share access policies and press the default policy. Copy the connectionstring from the right menu and enter that string into the “Connection String” box in your SBE and press ok.

 **sbsupplier - Shared access policies**
Service Bus Namespace

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Shared access policies

Geo-Recovery

Migrate to premium

Encryption

Properties

Locks

Export template

Entities

Queues

Topics

+ Add

Policy	Claims
RootManageSharedAccessKey	Manage, Send, Listen

You are now able to manager your service bus from the SBE. Start off by creating a queue by right clicking Queues and select create queue. In this window you can create a queue with configurations unmanageable from the portal. If you're unfamiliar with these configurations, refer to the Microsoft doc. Especially when configuring "Queue settings" .

Service Bus Explorer

File Edit Actions View Help

Microsoft Azure

Service Bus Namespace

sb://sbsupplier.servicebus.windows.net/

- Queues
- Topics
- Event Hubs
- Notification Hubs
- Relays

Create Queue

Description | Authorization Rules

Path

Relative URI:

MainQueue

Auto Delete On Idle

Days: 555 Hours: 5 Minutes: 5 Seconds: 5 Millisecs: 5

Duplicate Detection History Time Window

Days: 0 Hours: 0 Minutes: 10 Seconds: 0 Millisecs: 0

Default Message Time To Live

Days: 5 Hours: 5 Minutes: 5 Seconds: 5 Millisecs: 0

Queue Properties

Max Queue Size In GB: 1 GB

Max Delivery Count: 15

User Description:

Forward To:

Forward Dead Lettered Messages To:

Lock Duration

Days: 0 Hours: 0 Minutes: 0 Seconds: 30 Millisecs: 0

Queue Settings

- ☐ Enable Batched Operations
- ☐ Enable Dead Lettering On Message Expiration
- ☐ Enable Partitioning
- ☐ Enable Express
- ☐ Requires Duplicate Detection
- ☐ Requires Session
- ☐ Enforce Message Ordering

Queue Information

Name	Value
------	-------

Create Cancel

Log

```
<15:38:31> The file C:\Users\oskar\Desktop\Service Bu Explorer\ServiceBusExplorer-4.1.112\ServiceBusExplorer.exe.Config is used for the configuration settings.
<15:41:34> The application is now connected to the sb://sbsupplier.servicebus.windows.net/ service bus namespace.
<15:41:34> MessagingFactory successfully created
```

You can now try sending messages to your queue from inside the SBE by right clicking your new queue and press “message”. This can be really useful to test and debug your service bus queues, topic subscriptions and filters.

Service Bus Explorer

Service Bus Namespace: sb://sbsupplier.servicebus.windows.net

- Queues
 - mainqueue (0, 0)
- Topics
- Event Hubs
- Notification Hubs
- Relays

Send messages to mainqueue

Test Queue: mainqueue

Message | Sender | Graph

Message | Files | Generator

Message Text

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <purchaseOrder xmlns="http://tempuri.org/1"
3   <shipTo country="US">
4     <id>8395401a-3e2e-40b8-a038-8577c1280c
5     <name>Jan Olofsson</name>
6     <street>Storgatan</street>
7     <city>TestStaden</city>
8     <state>V?stratest</state>
9     <zip>42364</zip>
10   </shipTo>
11   <billTo country="US">
12     <id>01ebb230-a171-4eec-9393-a58428ce5
13   </billTo>
14 </purchaseOrder>
```

Message Properties

Key	Type	Value

Message Format

XML

Select Files | Clear Files | Open | Start | Close

Log

```
1:43> [3] messages
1:27> [4] messages
1:19> The filter e
1:39> The filter e
1:03> The filter e
      Parameter na
1:43> The filter e
1:59> The filter e
1:34> The filter e
1:47> The queue ma
1:47> [4] messages
```

Enter your queue, press “messages” and select “peek” to look at the message you sent. Here you can select a message to take a look at the payload and the message metadata. Some metadata has been generated by default, in accordance to your queue configurations and settings.

View Queue: mainqueue

Description

Authorization Rules

Messages

Message List

	MessageId	Seq	Size	Label	EnqueuedTimeUtc	ExpiresAtUtc
▶	200007c5-a09...	8	1248	Service Bus Explorer	3/5/2020 15:43	12/31/9999 23:59

Message System Properties

▼ Misc

ContentType	
CorrelationId	
DeadLetterSource	
DeliveryCount	1
EnqueuedSequenceNumber	0
EnqueuedTimeUtc	3/5/2020 15:43
ExpiresAtUtc	12/31/9999 23:59
ForcePersistence	False
IsBodyConsumed	False

Message Text

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <purchaseOrder xmlns="http://tempuri.org/PurchaseOrderSchema.xsd"
3   <shipTo country="US">
4     <id>8395401a-3e2e-40b8-a038-8577c1280da1</id>
5     <name>Jan Olofsson</name>
6     <street>Storgatan</street>
7     <city>TestStaden</city>
8     <state>V?stratest</state>
9     <zip>42364</zip>
10  </shipTo>
11  <billTo country="US">
```

Message Custom Properties

Name	Value
------	-------

Purge

Purge DLQ

Messages

Deadletter

Transf DLQ

Refresh

Status

Delete

Update

Try to create a topic from your SBE by right clicking “topics” and select create topic, you will find some settings that differs from a queue. Explore these using the Microsoft docs. When you are done press create.

Create Topic

Description

Authorization Rules

Path

Relative URI:
MainTopic

Auto Delete On Idle

Days: 5Hours: 5Minutes: 4Seconds: 0Milliseconds: 0

Topic Properties

Max Queue Size In GB:

1 GB

User Description:

..

Default Message Time To Live

Days: 0Hours: 0Minutes: 10Seconds: 0Milliseconds: 0

Duplicate Detection History Time Window

Days: 0Hours: 0Minutes: 10Seconds: 0Milliseconds: 0

Topic Settings

☐ Enable Batched Operations

☐ Enable Filtering Messages Before Publishing

☐ Enable Partitioning

☐ Enable Express

☐ Requires Duplicate Detection

☐ Enforce Message Ordering

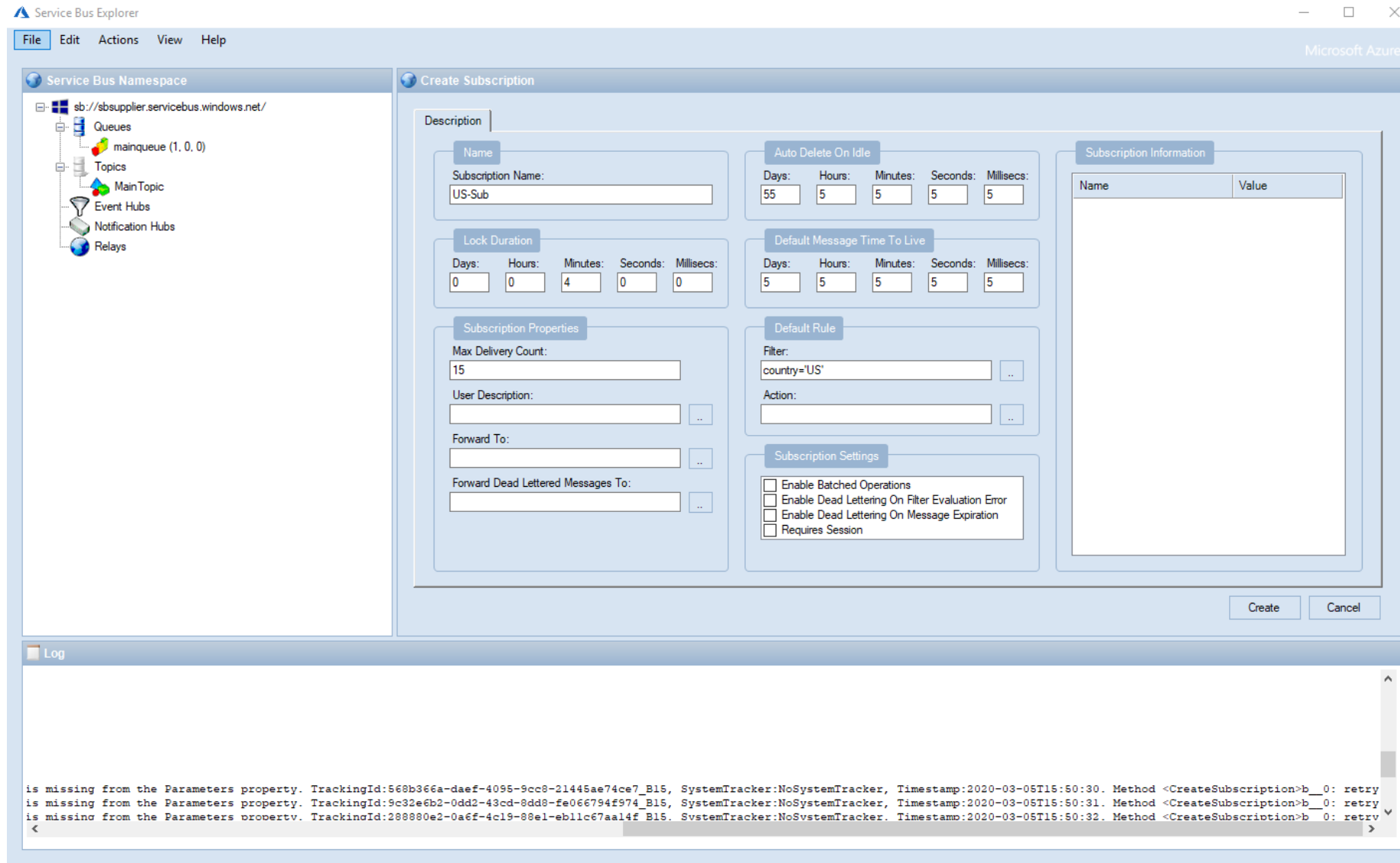
Topic Information

Name	Value
------	-------

Create

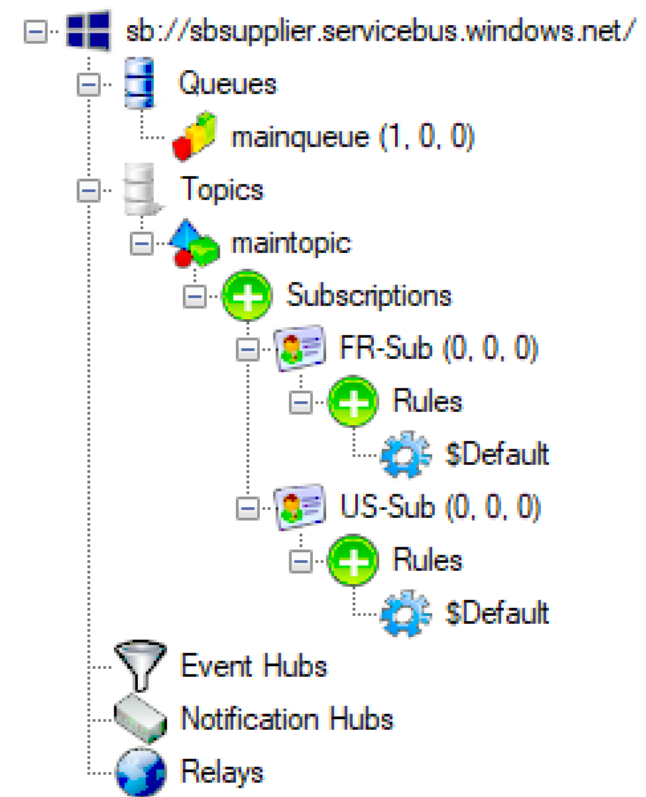
Cancel

To create a subscription to your Topic, right click “topic” and select add subscription. Create a subscription and read the Microsoft documentation to consider your settings and configurations. You can create your subscription with a default filter, allowing only messages that for fill that criteria to pass to the subscription. In this case we will split messages on a country property assigned in the meta data at a custom property, not the actual content payload. Create an additional subscription with the filter “country=FR”.

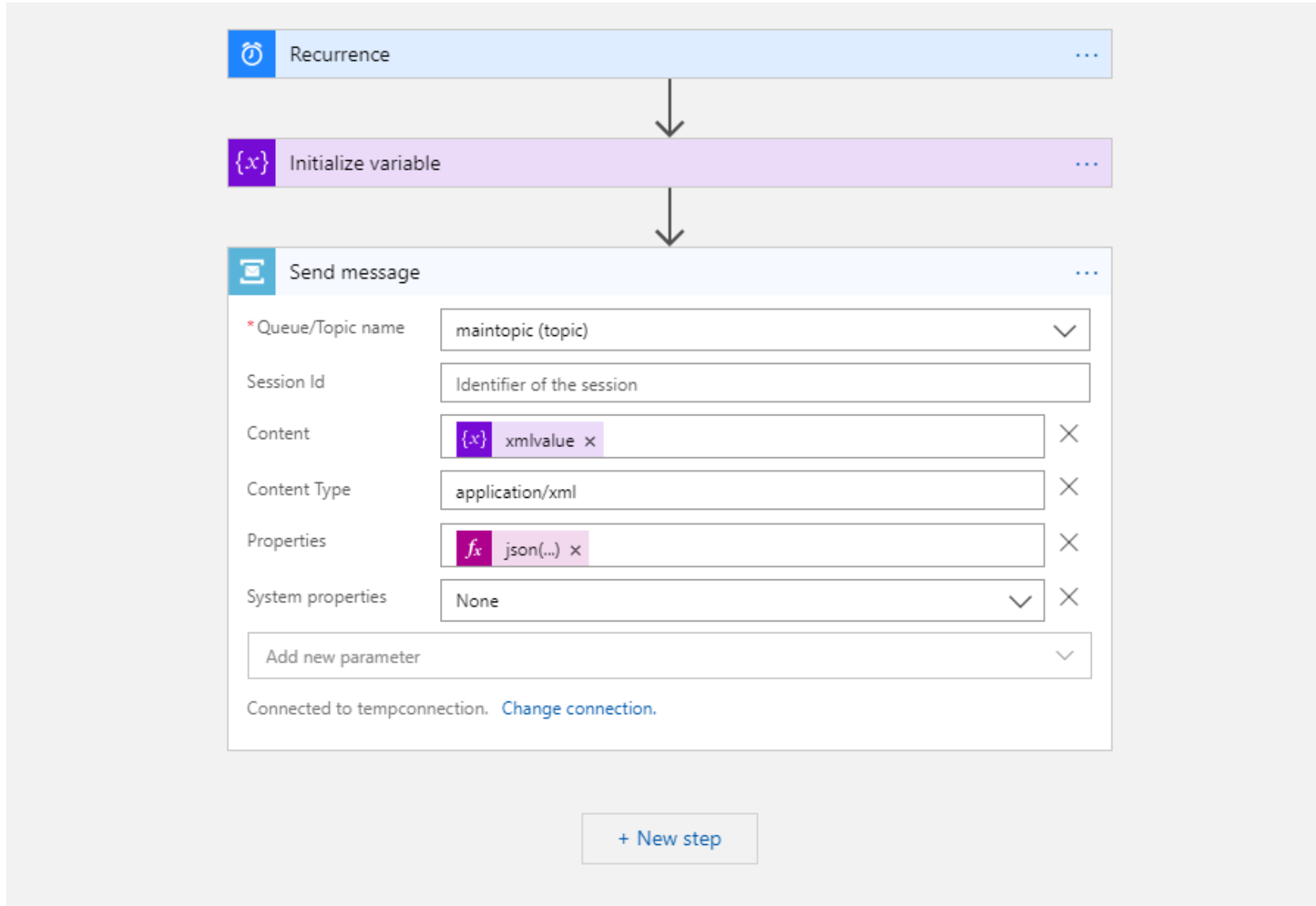


Your Topic, Subscriptions and filters should look something like this.

The current filters use xpath syntax which can include a number of logical operation and properties to base your filtering on. You can add additional filter files to your subscription and refer to them inside your \$Default file.



Create a new logic app according to the picture, make a variable with a xml or json format and supply that in the “Content” parameter of you service bus action. Add keyvalue pairs to the “Properties” parameter to provide your message with the data to filter your message across subscriptions. Run your logic app to send a message to your topic. You can also send messages to your topic in SBE.



Open your SBE and check the topic subscriptions. As you can see, the message has been filtered on the assigned valuepair property. Read the message in the subscription which filters the sent value, to verify the value of the property assigned in the logic app.

