

Acorel Technology - #TheATeam

"We create healthy data flows"

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We Create #HealthyDataFlows

"In this session with SAP Event Mesh"

#HealthyDataFlows

The 8 challenges that organizations encounter when it comes to IT in general

- 1. Business Agility
- 3. Operational Stability
- 5. Consistent Processes
- 7. Security

- 2. Implementation Done Right
- 4. Right Data at the Right Time
- 6. Reference Architecture
- 8. Innovation

These challenges are known for causing:

#UnHealthyDataFlows

Challenges

Cure The Unhealthy Data Flows

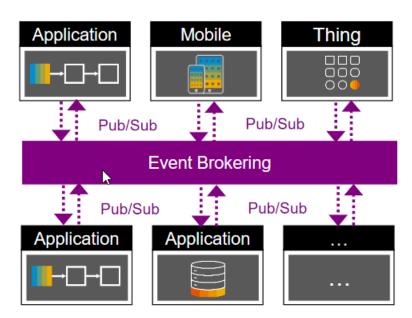
- Reduce amount of Point to Point Interfaces
- Reliability
- Processing Time
- Events



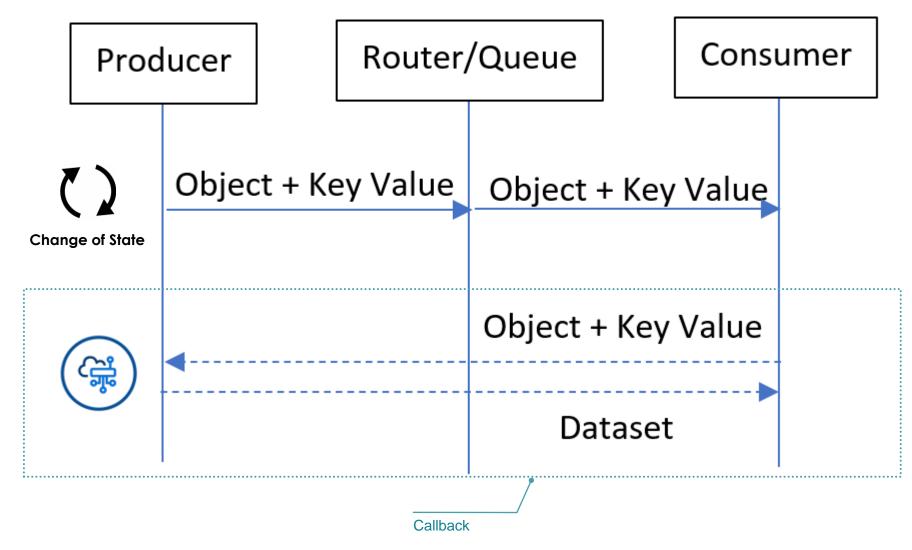
Solution

Cure The Unhealthy Data Flows

- Reference Architecture
- Event Mesh Together With SAP CPI
- Decouple Data from Source Systems and Applications
- (Near) Realtime Data Flows
- Reliability



General Concept

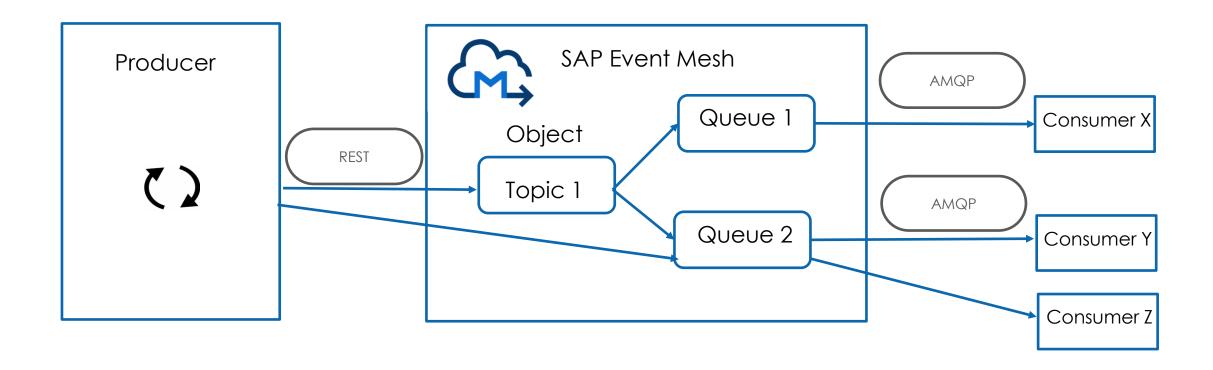


SAP Event Mesh in theory

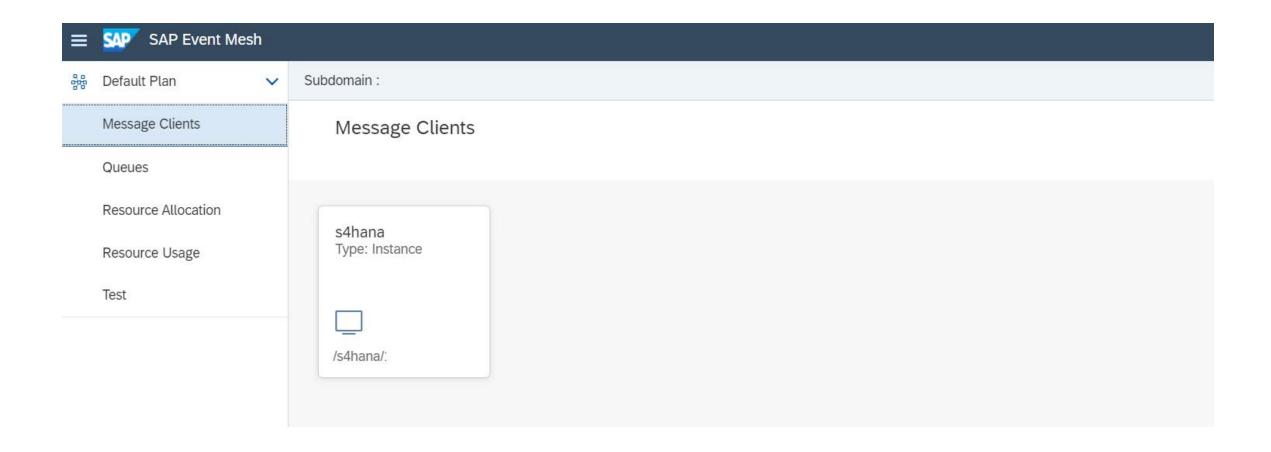
Important options

- Queue's and topics
- Webhook
- Testing
- Monitoring of resources

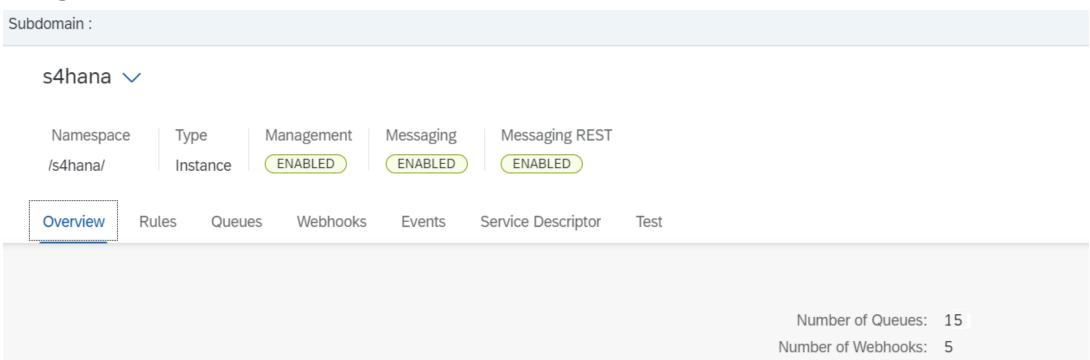
SAP Event Mesh Queue's and topics



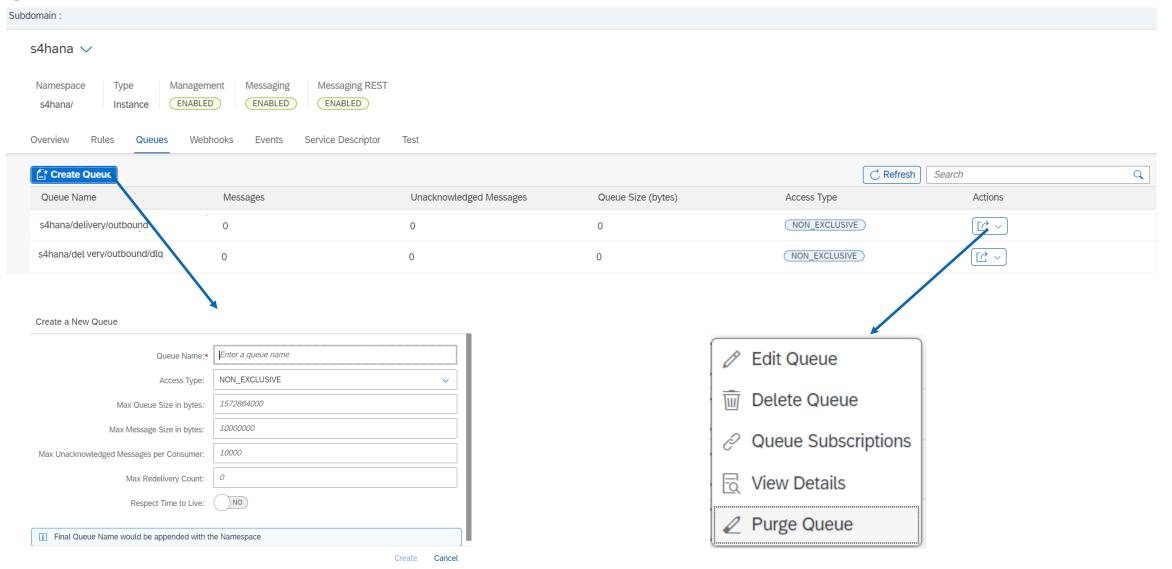
Message Clients



Message Clients details



Queues



Edit/Add Queue definition

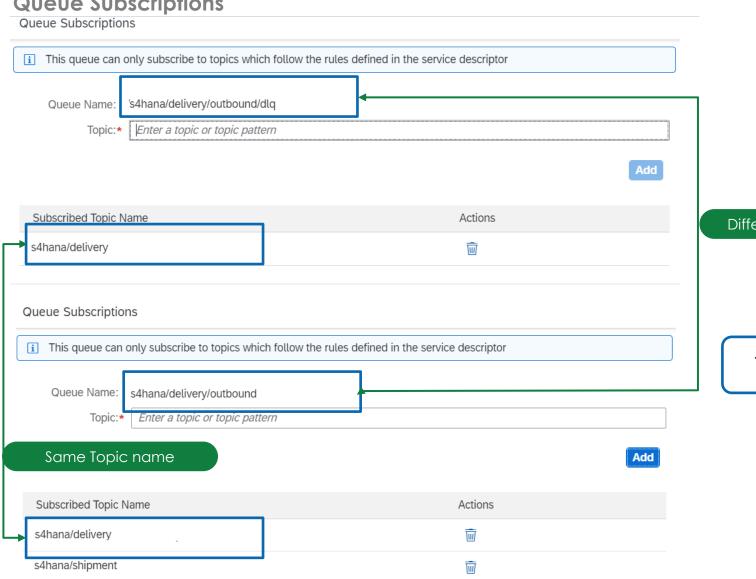
Edit Queue	Queue Name:	s4hana/delivery/outbound
	Access Type:	EXCLUSIVE
1	Max Queue Size in bytes:	1572864000
Ma	ax Message Size in bytes:	10000000
Max Unacknowledged Messages per Consumer:		10000
	Max Redelivery Count:	3
Respect Time to Live in seconds:		YES
	Max Time to Live:	0
	Dead Message Queue:	s4hana/delivery/outbound/dlq ~

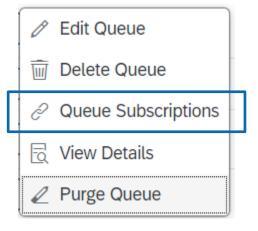
Save

Cancel

✓ Edit Queue
 ✓ Delete Queue
 ✓ Queue Subscriptions
 ✓ View Details
 ✓ Purge Queue

Queue Subscriptions





Different Queue name

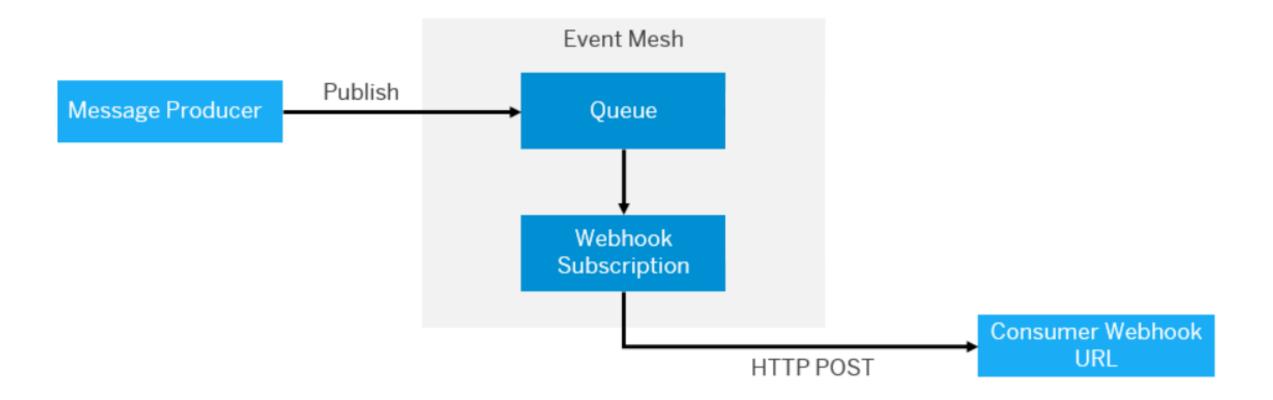


SAP Event Mesh in theory

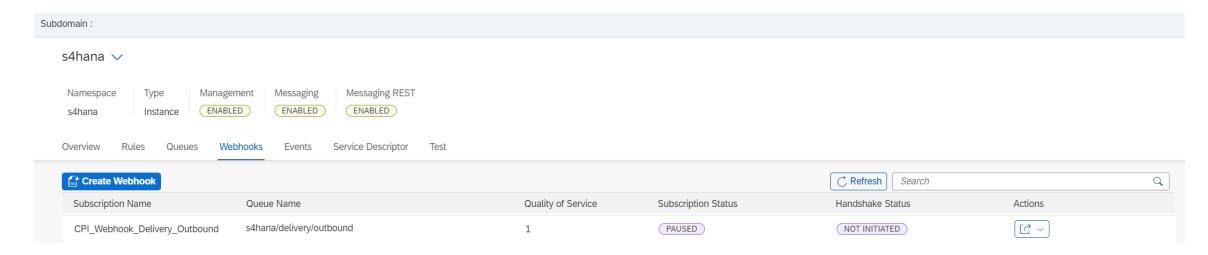
Important options

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SAP Event Mesh Webhook

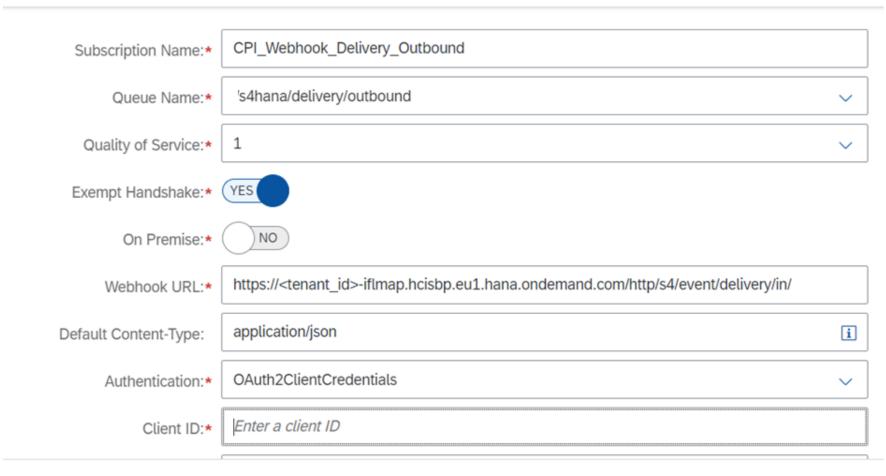


Webhook



Webhook

Create New Webhook Subscription



SAP Event Mesh in theory

Important options

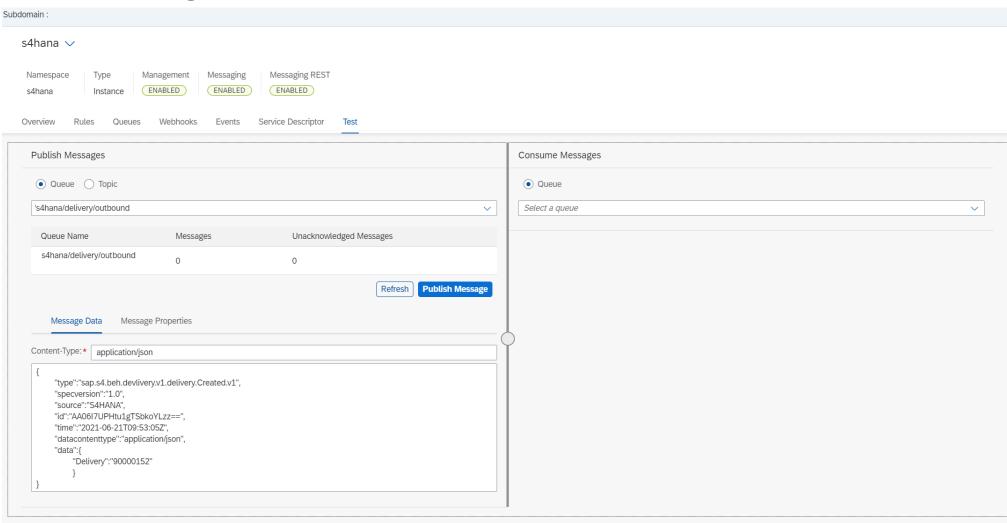
- Queue's and topics
- Webhook
- Testing
- Monitoring of resources

Sample Message

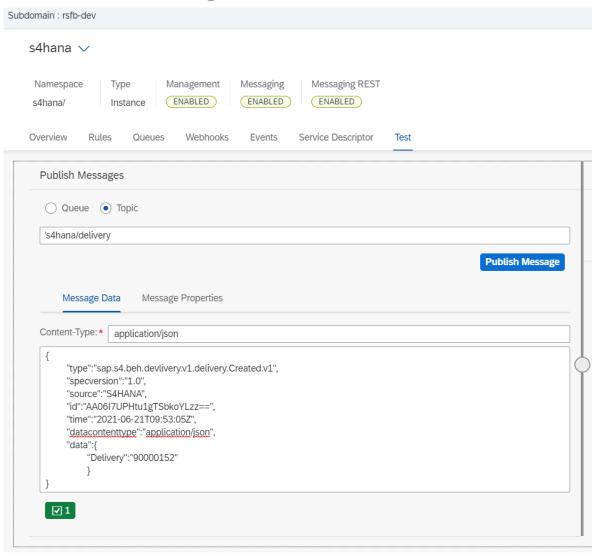
Sample message

```
object ▶ data ▶
▼ object {7}
      type: sap.s4.beh.devlivery.v1.delivery.Created.v1
                                                           Object
      specversion: 1.0
      source: S4HANA
          : AA06I7UPHtu1gTSbkoYLzz==
      time: 2021-06-21T09:53:05Z
      datacontenttype : application/json
      data {1}
         Delivery: 90000152
                                    Key value
```

Test Publish Message - Queue



Test Publish Message - Queue



Before Test



After Test



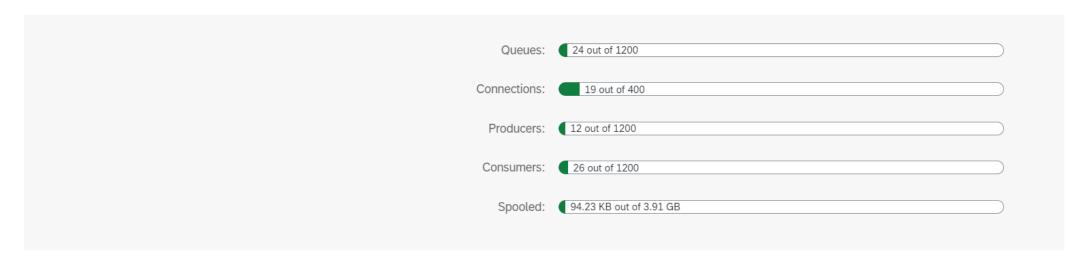
SAP Event Mesh in theory

Important options

- Queue's and topics
- Webhook
- Testing
- Monitoring of resources

SAP Event Mesh in theory

Monitor Resources



Resource Units Allocation



			Search	Q
Message Client	Allocated Resource Units	Resource	Limit	
s4hana	50	Queues	150	
		Queue Subscriptions	750	
		Connections	50	
		Consumers	150	
		Producers	150	
		Webhooks*	50	

Systems

Event Enabled Backend Systems

- SAP ECC With Event Enablement AddOn
- S/4HANA Enterprise Events
- SAP SuccessFactors
- SAP Marketing Cloud

Results

Healthy Data Flows

- Business Agility
- Efficient Development and Data
- Lower Running Costs



General Concept



Loose coupling

Fault tolerance

Scalable, Reliable and Resilient



Duplicated events

Error handling, Monitoring and troubleshooting

Not always compatible

Not all objects / applications

Thank you!



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If you have a problem, if no one else can help and if you can find them... maybe you can hire The A-Team

- Acorel Technology





#TheATeam
#HealthyDataFlows