

1.Создаем заявку и получаем отправленное сообщение

```
312 L
313 GO
314
315 EXEC [dbo].[GetReport]
316 @CustomerID = 600,
317 @BeginDate = '20100101',
318 @EndDate = '20230101'
319
320
321 SELECT CAST(message_body AS XML),*
322 FROM dbo.TargetQueueWWI;
323
324 SELECT CAST(message_body AS XML),*
325 FROM dbo.InitiatorQueueWWI;
326
327
328 --Формируем отчет и отправляем в очередь инициатора
329
```

Results Messages

SentRequestMessage

<RequestMessage><Sales.Customers CustomerID="60...

Отправленное сообщение помещено в очередьTargetReportQueueWWI

```
320
321 SELECT CAST(message_body AS XML),*
322 FROM dbo.TargetReportQueueWWI;
323
324 SELECT CAST(
325 FROM dbo.InitiatorReportQueueWWI;
326
327
328 --Формируем отчет и отправляем в очередь инициатора
329
```

Results Messages

(No column name)	status	priority	queuing_order	conversation_group_id	conversation_handle	message_sequence_number
<RequestMessage><Sales.Customers CustomerID="60...	1	5	1	2E713E0C-6DB9-EE11-92A3-10BF489CAE2D	2F713E0C-6DB9-EE11-92A3-10BF489CAE2D	0

(No column name) status priority queuing\_order conversation\_group\_id conversation\_handle message\_sequence\_number service\_name service\_id service\_contract\_name service\_contract\_id messa

Убедимся по системе состояний контрактов, что диалог открыт (в двух направлениях)

90 %

Results Messages

	conversation_handle	is_initiator	local_service	far_service	contract	state_desc
1	82C087D4-68B9-EE11-92A3-10BF489CAE2D	1	//WWI/Report/InitiatorService	//WWI/Report/TargetService	//WWI/Report/Contract	STARTED_OUTBOUND
2	0AD5A6DC-68B9-EE11-92A3-10BF489CAE2D	1	//WWI/Report/InitiatorService	//WWI/Report/TargetService	//WWI/Report/Contract	STARTED_OUTBOUND
3	1632C211-6AB9-EE11-92A3-10BF489CAE2D	1	//WWI/Report/InitiatorService	//WWI/Report/TargetService	//WWI/Report/Contract	STARTED_OUTBOUND
4	11027834-6AB9-EE11-92A3-10BF489CAE2D	0	//WWI/Report/TargetService	//WWI/Report/InitiatorService	//WWI/Report/Contract	CLOSED
5	2C713E0C-6DB9-EE11-92A3-10BF489CAE2D	1	//WWI/Report/InitiatorService	//WWI/Report/TargetService	//WWI/Report/Contract	CONVERSING
6	2F713E0C-6DB9-EE11-92A3-10BF489CAE2D	0	//WWI/Report/TargetService	//WWI/Report/InitiatorService	//WWI/Report/Contract	CONVERSING

2.Проведем процедуру Создания отчета. По результату выполнения видим Ответное сообщение

331  
332 --EXEC [dbo].[CreateReport]  
333  
334 --GO  
335  
336 --EXEC[dbo].[SaveReport]  
337  
338 SELECT \*

%

Results Messages

(No column name)  
<RequestMessage><Sales.Customers CustomerID="60...

CustomerID	CustomerID	EndDate
600	2010-01-01	2023-01-01

SentReplyMessage  
<Report><WideWorldImporters.Sales.Orders Custome...

В инициатор пришло ответное сообщение и системное закрытие диалога

Results

Messages

Client Statistics

ontract_name	service_contract_id	message_type_name	message_type_id	validation	message_body	message_enqueue_time	
1	port/Contract	65537	//WWW/Report/ReplyMessage	65539	X	0x3C005200650070006F00720074003E003C005700690064...	2024-01-22 21:32:59.770
2	port/Contract	65537	http://schemas.microsoft.com/SQL/ServiceBroker/E...	2	E	NULL	2024-01-22 21:32:59.773

<

>

status	priority	queuing_order	conversation_group_id	conversation_handle	message_sequence_number	service_name	service_id	service_contract_name	service_contract_id	message_type_name	me
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По системе состояний контрактов также видим, что инициатор закрыл диалог,

```

18 SELECT conversation_handle, is_initiator, s.name as 'local service',
19 far_service, sc.name 'contract', ce.state desc
20 FROM sys.conversation_endpoints ce
21 LEFT JOIN sys.services s
22 ON ce.service_id = s.service_id
23 LEFT JOIN sys.service_contracts sc
24 ON ce.service_contract_id = sc.service_contract_id
25 ORDER BY conversation_handle;
26
27 ALTER TABLE Sales.Invoices
28 ADD InvoiceConfirmedForProcessing DATETIME;
29

```

conversation_handle	is_initiator	local service	far_service	contract	state_desc
82C087D4-68B9-EE11-92A3-10BF489CAE2D	1	//WWI/Report/InitiatorService	//WWI/Report/TargetService	//WWI/Report/Contract	STARTED_OUTBOUND
0AD5A6DC-68B9-EE11-92A3-10BF489CAE2D	1	//WWI/Report/InitiatorService	//WWI/Report/TargetService	//WWI/Report/Contract	STARTED_OUTBOUND
1632C211-6AB9-EE11-92A3-10BF489CAE2D	1	//WWI/Report/InitiatorService	//WWI/Report/TargetService	//WWI/Report/Contract	STARTED_OUTBOUND
11027834-6AB9-EE11-92A3-10BF489CAE2D	0	//WWI/Report/TargetService	//WWI/Report/InitiatorService	//WWI/Report/Contract	CLOSED
2C713E0C-6DB9-EE11-92A3-10BF489CAE2D	1	//WWI/Report/InitiatorService	//WWI/Report/TargetService	//WWI/Report/Contract	DISCONNECTED_INBOUND
2F713E0C-6DB9-EE11-92A3-10BF489CAE2D	0	//WWI/Report/TargetService	//WWI/Report/InitiatorService	//WWI/Report/Contract	CLOSED

//WWI/Report/InitiatorService

Убедимся, что в таблице Report пока отсутствует наша запись с ID=600

xml_data2.xml	SQLQuery7.sql - DE...TFUHS64\Mila (72))	70-AlterQueue.sql.
1	<Report>	
2	<WideworldImporters.Sales.Orders CustomerID="599" Count="107" />	
3	</Report>	

3 Запускаем процедуру сохранения SaveReport и одновременно проверяем таблицы очередей. Они пустые и в таблице Отчетов появилась вторая строка

```

335 --EXEC[dbo].[SaveReport]
336
337
338 SELECT *
339
340 FROM dbo.InitiatorReportQueueWMI;
341
342 SELECT *
343
344 FROM dbo.TargetReportQueueWMI;
345
346 Select
347 *
348 From Reports
349 -- все заработало!!!!!!!!!!!!!!

```

0 %

Results Messages Client Statistics

ReceivedRepliedMessage

1 <Report><WideWorldImporters.Sales.Orders.Custome...

status	priority	queuing_order	conversation_group_id	conversation_handle	message_sequence_number	service_name	service_id	service_contract_name	service_contract_id	message_type_name	me

< >

status	priority	queuing_order	conversation_group_id	conversation_handle	message_sequence_number	service_name	service_id	service_contract_name	service_contract_id	message_type_name	me

< >

id	xml_data
1	<Report><WideWorldImporters.Sales.Orders.Custome...
2	<Report><WideWorldImporters.Sales.Orders.Custome...

При этом Target тоже закрыт и он пропадет через некоторое время.

90 %

Results Messages Client Statistics

	conversation_handle	is_initiator	local service	far_service	contract	state_desc
1	82C087D4-68B9-EE11-92A3-10BF489CAE2D	1	//WWW/Report/InitiatorService	//WWW/Report/TargetService	//WWW/Report/Contract	STARTED_OUTBOUND
2	0AD5A6DC-68B9-EE11-92A3-10BF489CAE2D	1	//WWW/Report/InitiatorService	//WWW/Report/TargetService	//WWW/Report/Contract	STARTED_OUTBOUND
3	1632C211-6AB9-EE11-92A3-10BF489CAE2D	1	//WWW/Report/InitiatorService	//WWW/Report/TargetService	//WWW/Report/Contract	STARTED_OUTBOUND
4	11027834-6AB9-EE11-92A3-10BF489CAE2D	0	//WWW/Report/TargetService	//WWW/Report/InitiatorService	//WWW/Report/Contract	CLOSED
5	2F713E0C-6DB9-EE11-92A3-10BF489CAE2D	0	//WWW/Report/TargetService	//WWW/Report/InitiatorService	//WWW/Report/Contract	CLOSED