RECORD 0X80E00253
EVENT INFO STATUS
INSTEAD OF ERROR

TRANSACTIS – FIRMWARE 2018.4.1.18

Updates			
Référence	Titre	Révision	
[0]	Initial improvement request	V0.0	26/04/2022

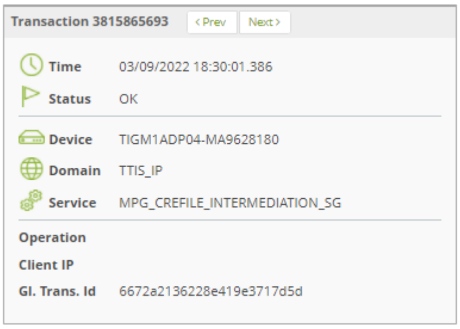
Summary

I. Our Observation

1 DPOD probes

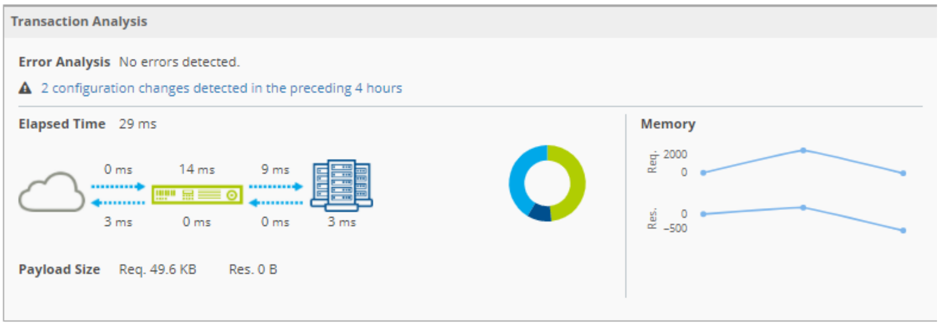
Sometimes due to resources capability failure, or IPL, IMS defined as the backend side on a the Multi-Protocol Gateway (MPG), the response body is empty. IMS throws an event, identified by the appliance as a message code of this kind:
0x80e00253: ConsumeReqSts reqsts(rsmFlg=0x0,ret=8,rsn=40)

The appliance considers it as an **information** event instead of an Error event.
As a result, no error is detected on the appliance and no possibility for a rollback in case of a MQSeries Handler on the frontside of the MPG.



Transaction 3815865693

Time 03/09/2022 18:30:01.386
Status OK
Device TIGM1ADP04-MA9628180
Domain TTIS_IP
Service MPG_CREFILE_INTERMEDIATION_SG
Operation
Client IP
Gl. Trans. Id 6672a2136228e419e3717d5d



Transaction Analysis

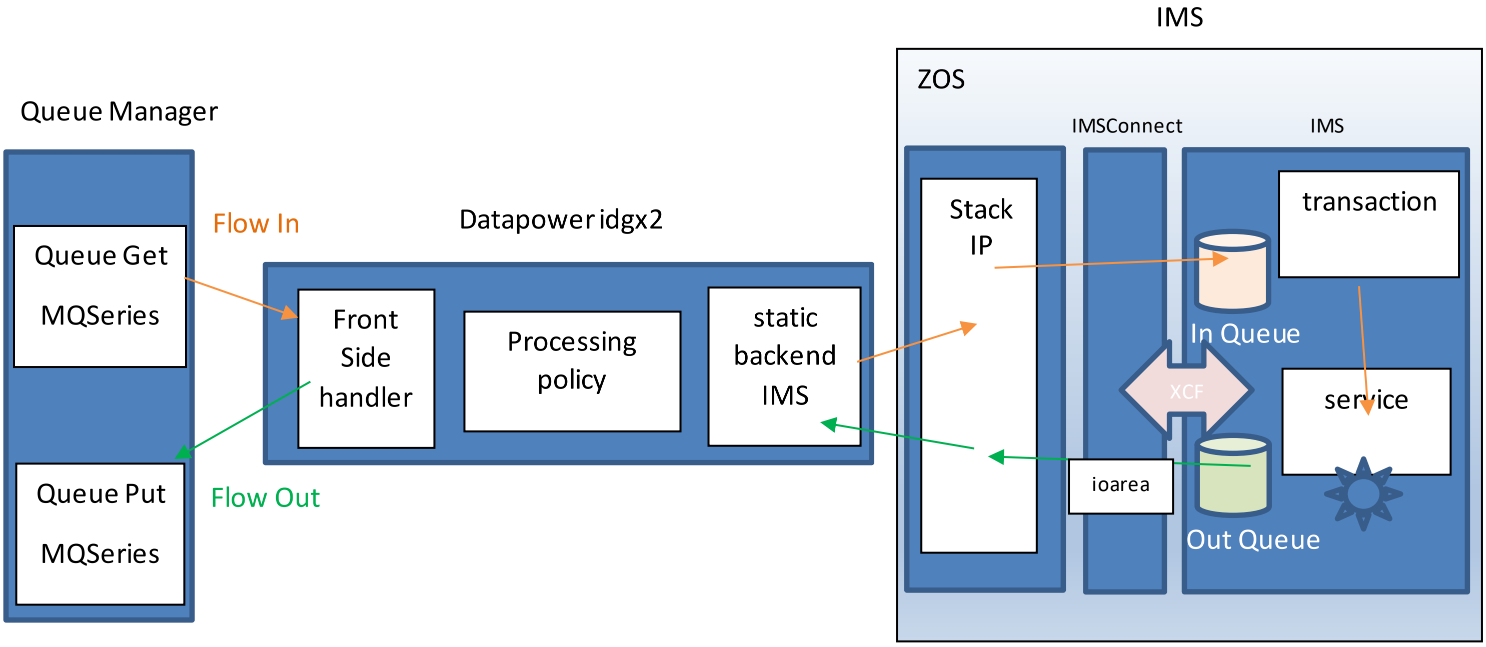
Error Analysis No errors detected.
⚠ 2 configuration changes detected in the preceding 4 hours

Elapsed Time 29 ms

Payload Size Req. 49.6 KB Res. 0 B

Category	Severity	Time	Direction	Object Type	Object Name	Client IP	Message Code	Message
mpgw	info	03/09 18:30:01.412	response	mpgw	MPG_name		0x80e000b4	rule (POLICY_INTERMEDIATION_SG_OUT): sel
ims	info	03/09 18:30:01.412		mpgw	MPG_name		0x80e00253	ConsumeReqSts reqsts(rsmFlg=0x0,ret=8,rsn
mpgw	info	03/09 18:30:01.409		mpgw	MPG_name		0x80e0012d	Using Backside Server: dpims://IMSCON_TTIS
memory-report	debug	03/09 18:30:01.409		mpgw	MPG_name		0x80e0068e	Request Finished: memory used 605616

2 Multi-Protocol Gateway definition



II. Workaround

3 General Principe:

In order to retrieve the original message (get on MQSeries queue In) in case of an event 0x80e00253 that can occur, the policy rules loaded on the MPG is composed of 3 rules:

a) Client To Server: where the incoming message is stored into a variable

b) Server To Client: the response length is analyzed and:

  - If equals to 0, the output is the stored message, with parameters are persistent, no expiry
  - Else output is the IMS response (= OK) with parameters are non-persistent, and expiry 10ms.

c) Error: the output is the stored message with parameters are persistent, no expiry

Also, on MQSeries, the Queue_In has BOQNAME = Queue_Out, and BOTHRESH = 1.

In case of a problem to establish the connection from the datapower with IMS for example, a DFS message is sent and as a result the message is automatically rollbacked and posted into the Queue_Out.

4 Important note: why IMS is answering with an OK or KO message?

On the appliance, an IMSConnect object can not be defined with a setup as a SEND_ONLY (IRM_F4=S)

All flows to IMS are SEND_RECEIVE_INTERACTION due to IMS Exit identifier IRM_F4 value is hard-coded to 0x40 (= blank) by default with no possibility of changes.

As a result, our development on IMS side **must return** an applicative OK or KO message.

⇨ See IBM TS008833833 ticket, new idea **DPGWY-I-364.**

5 Additional note: Why if OK the message is not persistent with expiry?

The OK message is not to be considered and must be suppressed by an automatic mean as the MQSeries message expiration.

At a reverse, all KO messages or original message must be treated apart from the real-time processing with IMS.

A ZOS Batch is consuming all remaining messages into the Queue_Out.

III. EXPORT OF OUR MPG

See MPG_IPCE_CRE_SG.zip

MPG_IPCE_CRE_SG.zip

IV. OUR ENHANCEMENT REQUEST

The event 0x80e00253: ConsumeReqSts reqsts(rsmFlg=0x0,ret=8,rsn=40) must be considered by the appliance **as an Error** instead of an information.

In that case, it will lead the appliance to apply the Error rule and potentially rollback the transaction. Finally, the original message will be rollbacked into the BackOut Queue.

Currently, the empty responses are processed by the “Server To Client” rule as if it is a normal flow.