

TECH375

Open Telemetry Tracing in CICS

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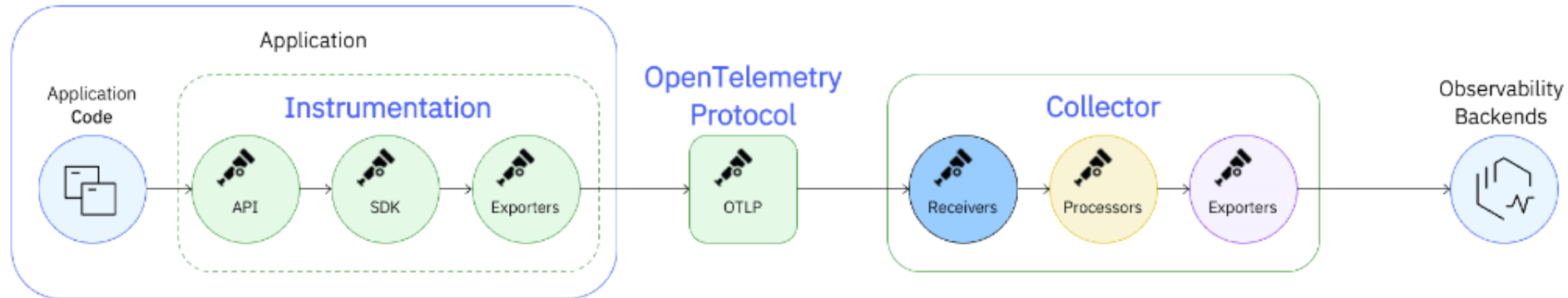
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Agenda

- What is Open Telemetry? A brief introduction
- Why implement Open Telemetry (OTel)?
- Open Telemetry trace for CICS
- Updates available in Open Beta

What is open telemetry?



Open telemetry is a vendor-agnostic observability framework that assists in generating processing and distributing telemetry data such as metrics, logs and traces.

Note : Open Telemetry trace is NOT related to CICS trace

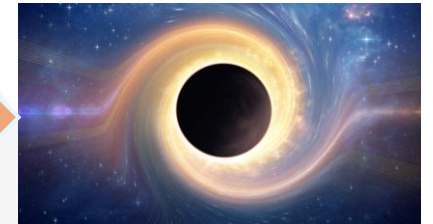
Why OpenTelemetry?

- OpenTelemetry is acknowledged as a cost-effective open framework & protocol for instrumenting cross-platform applications.
- It enables observation of system state (the monitoring aspect).
- It allows the detection of problems (failures and non-optimal operations).
- It helps to identify problem location quickly and with the minimum of fuss (cross-platform/cross-application logging).
- It enables the isolation of where a problem is (the trace aspect).
- There is no proprietary lock-in.
- It's open

Why Open Telemetry tracing?

- To isolate the location of a problem, in order to fix it or decide which team should fix it, it is necessary to see how requests move through a distributed application.
- This may involve complex flows between both distributed products and products on z/OS.
- Currently, there is no way to see the request flow when a distributed transaction goes to z/OS, as Open Telemetry data are not generated on the platform.
 - *The z/OS platform is like a black hole, data goes into it, but nothing comes out ...*
- The goal is to make CICS participate in the global OTel trace framework as an equal contributor with the same capability as distributed products.

OTel data



A Journey

I travelled to a conference

Journey to conference

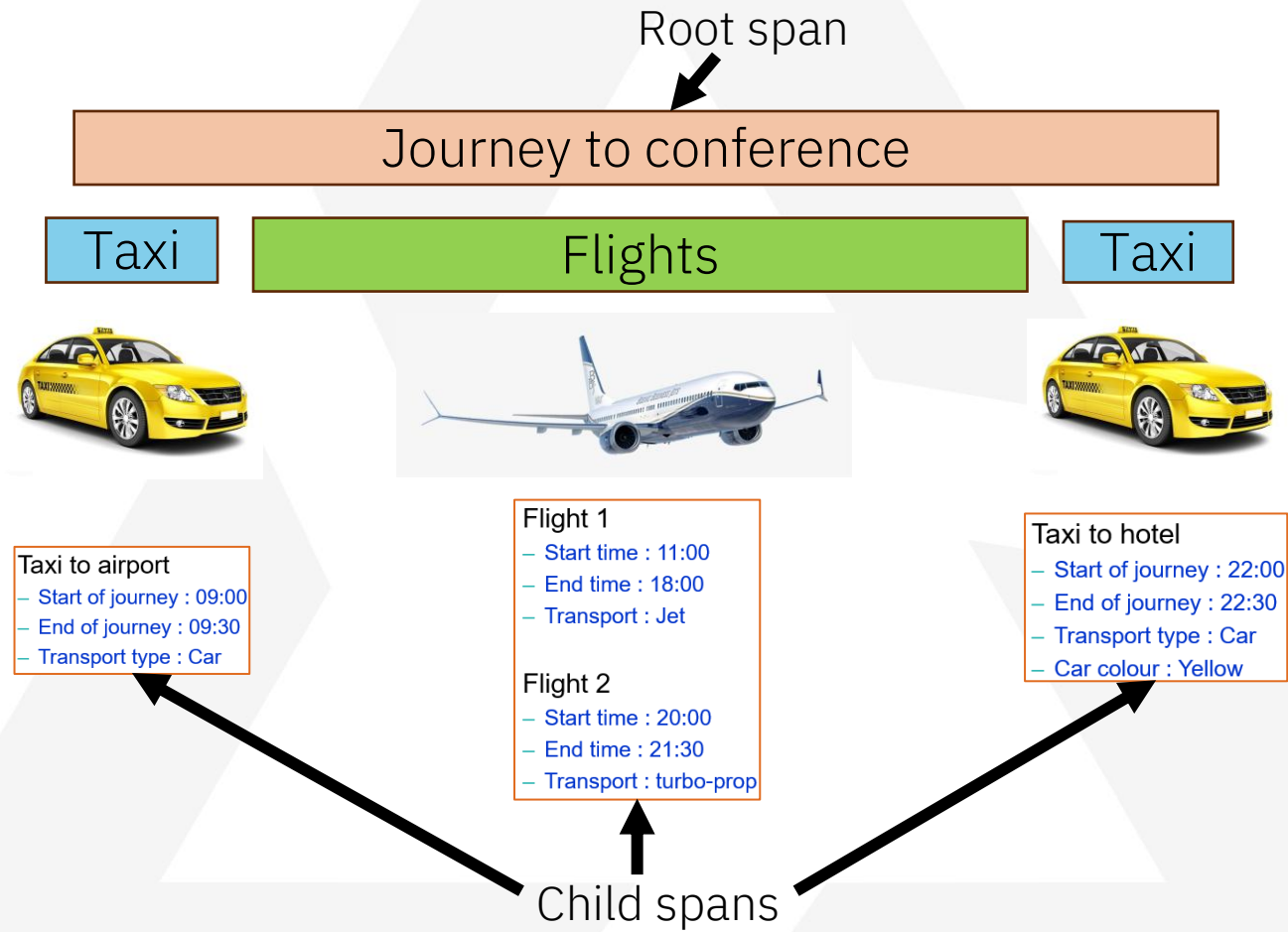
How did I get there?



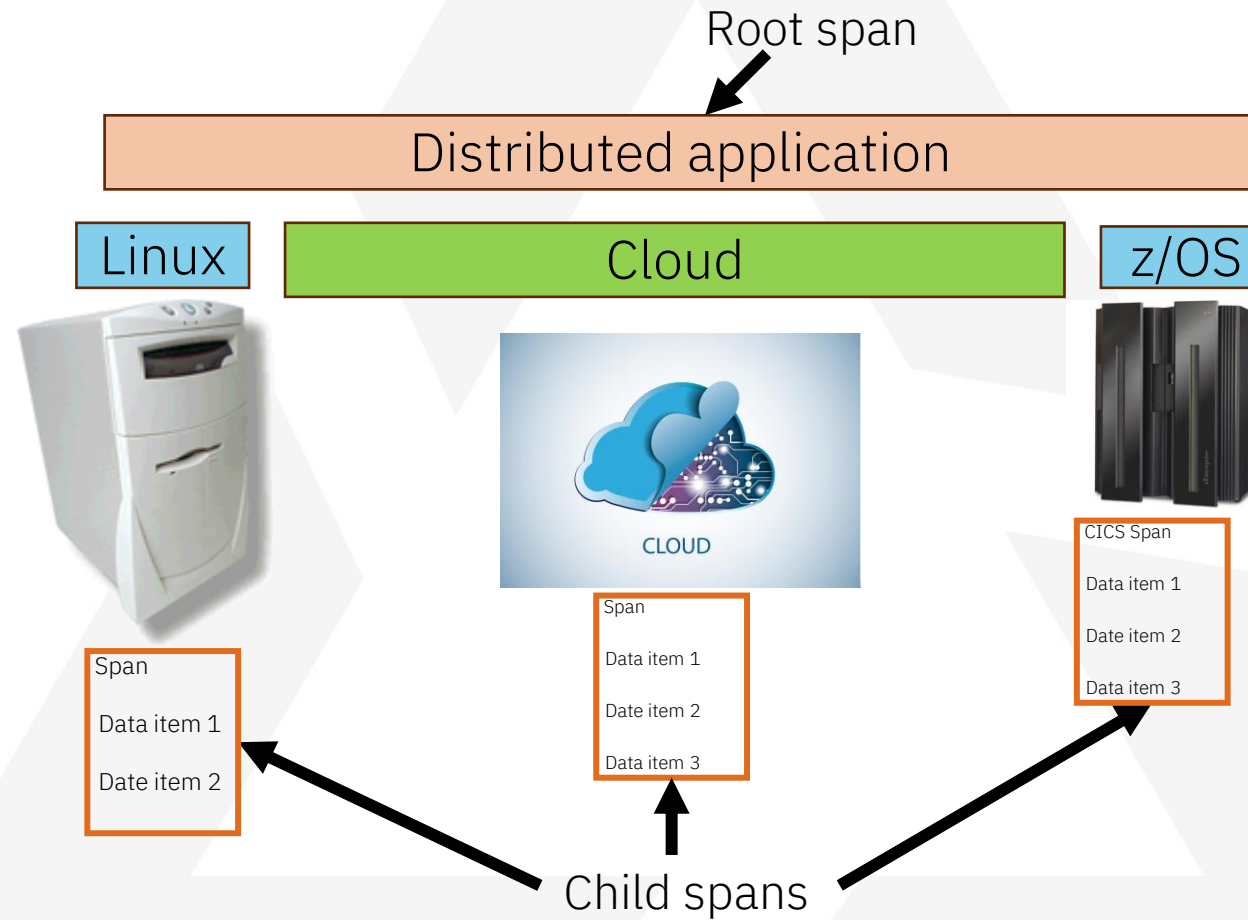
How did I get there?



How did I get there?

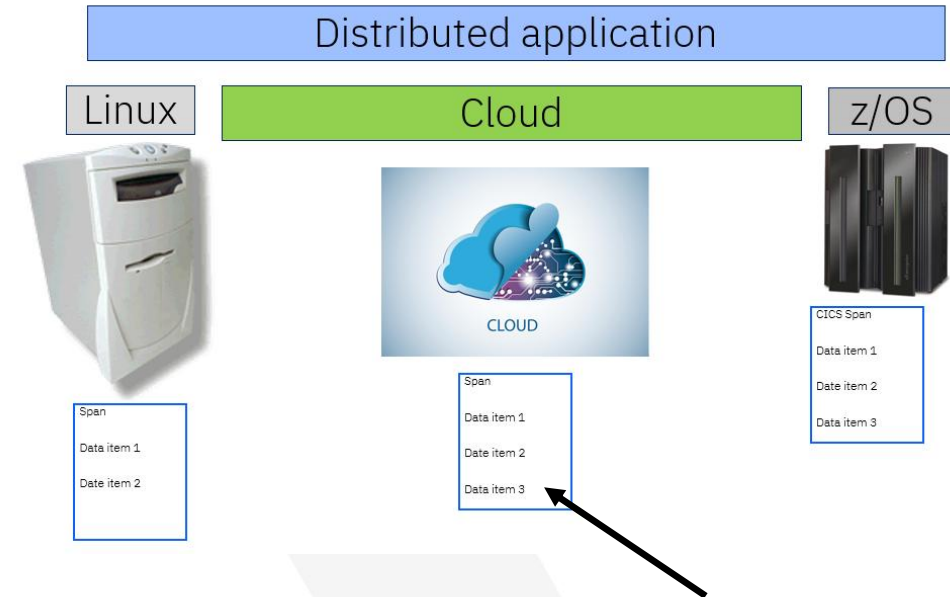


How did the application get there?



What do spans give you?

- Spans aim to provide a way to identify **where** a problem is in a distributed application.
 - Help to identify which team needs to be called in to resolve it?
- Spans should reduce the “**time to innocence**” when a problem arises in a complex distributed application.



This figure looks odd

What do spans not give you?

Span data will not generally be sufficient to diagnose the root cause of a problem in most cases

CICS Span

Data item 1

Date item 2

Data item 3

Conventional diagnostic tools are still needed to diagnose root cause.

In general spans indicate **WHERE** but not **WHAT** a problem is



```
TCP QR DS 0005 DSSR EXIT WAIT_OLDW/OK
TCP QR XM 0801 XMSR ENTRY INQUIRE_MXT
TCP QR XM 0802 XMSR EXIT INQUIRE_MXT/OK
TCP QR AP FCE2 ZFRE ENTRY FREEMAIN
TCP QR AP FCE3 ZFRE EXIT FREEMAIN/OK
TCP QR AP 4D00 CQCQ ENTRY MERGE_CIB_QUEUEUES
TCP QR AP 4D01 CQCQ EXIT MERGE_CIB_QUEUEUES/OK
TCP QR AP 4D00 CQCQ ENTRY GET_CIB
TCP QR AP 4D01 CQCQ EXIT GET_CIB/EXCEPTION
TCP QR DS 0004 DSSR ENTRY WAIT_OLDW
TCP QR DS 0005 DSSR EXIT WAIT_OLDW/OK
TCP QR XM 0801 XMSR ENTRY INQUIRE_MXT
TCP QR XM 0802 XMSR EXIT INQUIRE_MXT/OK
TCP QR AP FD14 ZRAC EVENT RECV_ANY
TCP QR AP FCE0 ZGET ENTRY GETMAIN
TCP QR AP FCE1 ZGET EXIT GETMAIN/OK
TCP QR AP FC90 VIO EVENT TCTTE(2AE72670)
TCP QR SM 0C01 SMMG ENTRY GETMAIN
TCP QR SM 0C02 SMMG EXIT GETMAIN/OK
TCP QR AP FD11 ZATT ENTRY ATTACH
```

3B,0
RPL BUFFERLIST LUC 2AE72670,T193
2AE9A030

CIB_QUEUE_EMPTY,00000000,00000000
TCP_NORM,00042540,CSTP,NO,IDLE,DFHZDSP

3B,0
2AE72670,T193,ZSDX
RPL 2AE72670,T193
2AE9A030
IYCWT193,0020,RECEIVE,DATA,RQE1,OIC,BB,CD
100,2AE72670,NO,TERMINAL
2AE3C6E0
2AE72670,T193

Open Telemetry Trace context

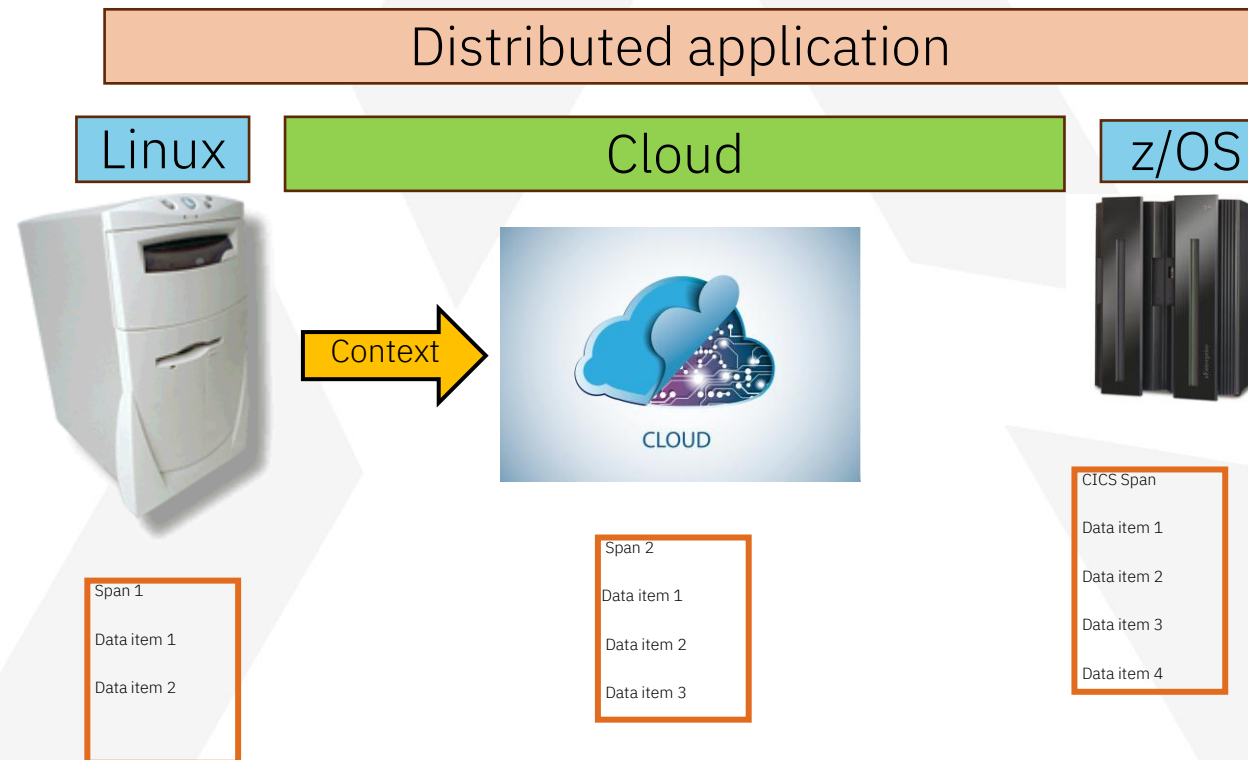
How are the spans connected?



The common factor is me.

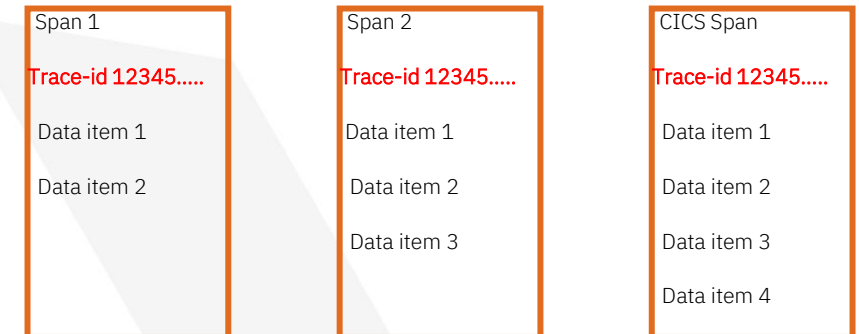
I travelled on all these forms of transportation.

What is the common factor here?



Trace Context

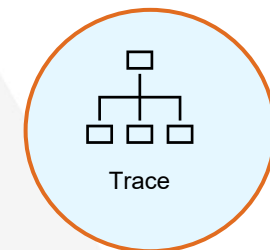
- Context contains what is known as the **traceparent**
 - this identifies the incoming request in a tracing system
 - it is 55 bytes long and contains various fields, one of which is the **trace-id**
 - the trace-id
 - this is the ID of the whole trace “forest” and is used uniquely to identify a distributed trace through a system
 - it is 32 bytes long in printable format
 - it never changes during distribution between systems
 - The trace-id is used by the collector to identify spans which belong to the same trace



<https://www.w3.org/TR/trace-context/>

What are OTel Spans and traces?

- Spans are blocks of data giving information about what is happening
 - Spans can contain whatever a product decides to include along with some mandatory standard items
- **Traces** in OpenTelemetry are defined implicitly by their **Spans**. In particular, a **Trace** can be thought of as a graph of **Spans**, where the edges between **Spans** are defined as parent/child relationship.
- Traces allow visibility of the full “path” a request takes in an application

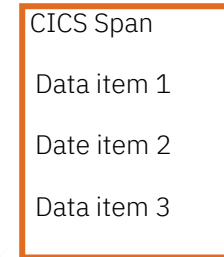


Open Telemetry tracing for CICS



Support for OTel trace

- To participate in Open Telemetry trace, CICS needs to :-
 - Be capable of receiving and propagating open telemetry trace context data
 - Be capable of generating and issuing spans



An Open Telemetry span

- Spans contain information about the implementation of an application
 - Mandatory data
 - Start time
 - End time
 - Type of span
 - A trace ID (all child spans contain the traceid of the root span)
 - Product specific content
 - Attributes chosen by the system/product issuing the span

<https://opentelemetry.io/docs/specs/otel/trace/api/#span>

What an OTel span emitted by CICS will contain?

- Spans must contain certain “mandatory” items

- Spans will contain CICS specific items

Mandatory

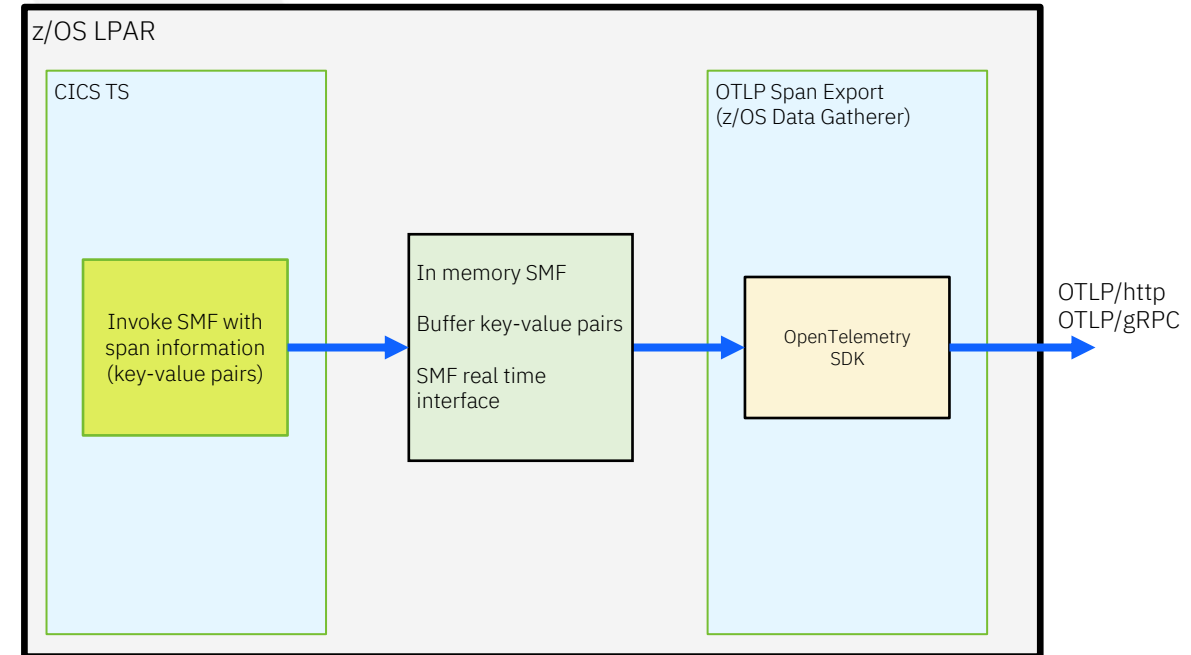
```
Name          IYQQZZ12
Trace id       a4f670833a00d3580b8603d174271d94
Span id        e13d0b43d2869074
Trace flags    01
Parent id      072e5544d0143e25
Span kind      SERVER
Start time     2026-06-10 12:52:51.209458162 +0000 UTC
End time       2026-06-10 12:52:51.337895675 +0000 UTC
```

Product
dependant

```
Client Port    10226
Client address 10.1.2.80
Facility Type  IPIC
Program name   PROGA1
Region ID      IYQQZZ12
System         cics
Task ID        01554
Transaction ID TRA1
```

Where do the spans go?

- Span data are emitted by CICS
 - Emission is at end of task
- Written to SMF using the real time interface
 - New record type 1159 for CICS OTel output
- Read out of SMF by an “emitter” service
 - APAR OA66345 for z/OS 3.1 or 3.2
- Exported via OTLP/http or OTLP/gRPC



Span data

- Most span data are collected at transaction attach time in CICS
 - Stored in a control block for each task
- Span data are completed at task termination time
 - End time, abend code etc.
- Emitted to SMF using the usual CICS SVC call
 - CICS already uses SMF for monitoring records (110 records)
 - OTEL data uses a new SMF type 1159 record
 - Each z/OS product has a unique record type for it's OTEL data

Scenarios where CICS supports OTEL tracing?

- Protocols over which OTel data into and out of a CICS region are supported.
 - HTTP
 - SOAP
 - REST
 - DPL over IPIC and MRO
 - Function shipping over IPIC and MRO
 - JCICS
 - MQ
 - Db2
 - More being worked on

Trace context propagation

- To get an OTel trace, the context needs to be propagated
 - For inbound HTTP requests, there is an architected header which will be added by client systems
 - For CICS-to-CICS propagation over protocols like IPIC and MRO, CICS will use a container or a TIOA to pass the data

CICS Configuration for OTel

CICS configuration requirements

- Two things need configuration in CICS for OTel
 - Trace context propagation
 - Allows CICS to pass trace context to downstream systems
 - Span data emission
 - Enables CICS to participate in data emission so that CICS spans form part of a complete OTel trace

OTel tracing configurations in CICS

– Region level

- SIT parameter OTELTRACE=(YES|NO)
- Default to NO
- With NO - tasks in CICS region do not participate OTEL tracing, regardless of the transaction setting. This provides for a predictable upgrade experience.
- With YES – non-system tasks in the CICS region are eligible to participate OTEL tracing subject to transaction setting.
- The region level setting can be inquired and changed via a new SPI:
 - INQUIRE OTEL TRACE
 - SET OTEL TRACE(NOOTELTRACE|OTELTRACE)
 - Setting from OTELTRACE to NOOTELTRACE, any accumulated span data for tasks already completed are written immediately to SMF; any active task span data will not be accumulated.

OTel tracing configurations in CICS

– Transaction level

OTELPROP

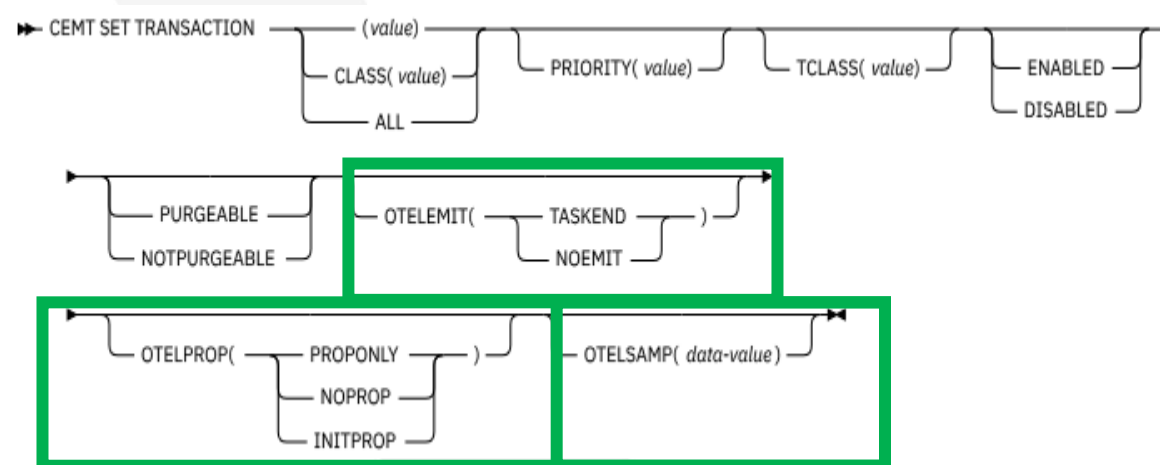
- Controls propagation of OTel trace context
 - Noprop** – OTel trace context is not propagated
 - Proponly** – OTel trace context is propagated (Default)
 - INITPROP** – CICS initiates OTel trace context for this transaction if no context is received **beta**

OTELEMIT

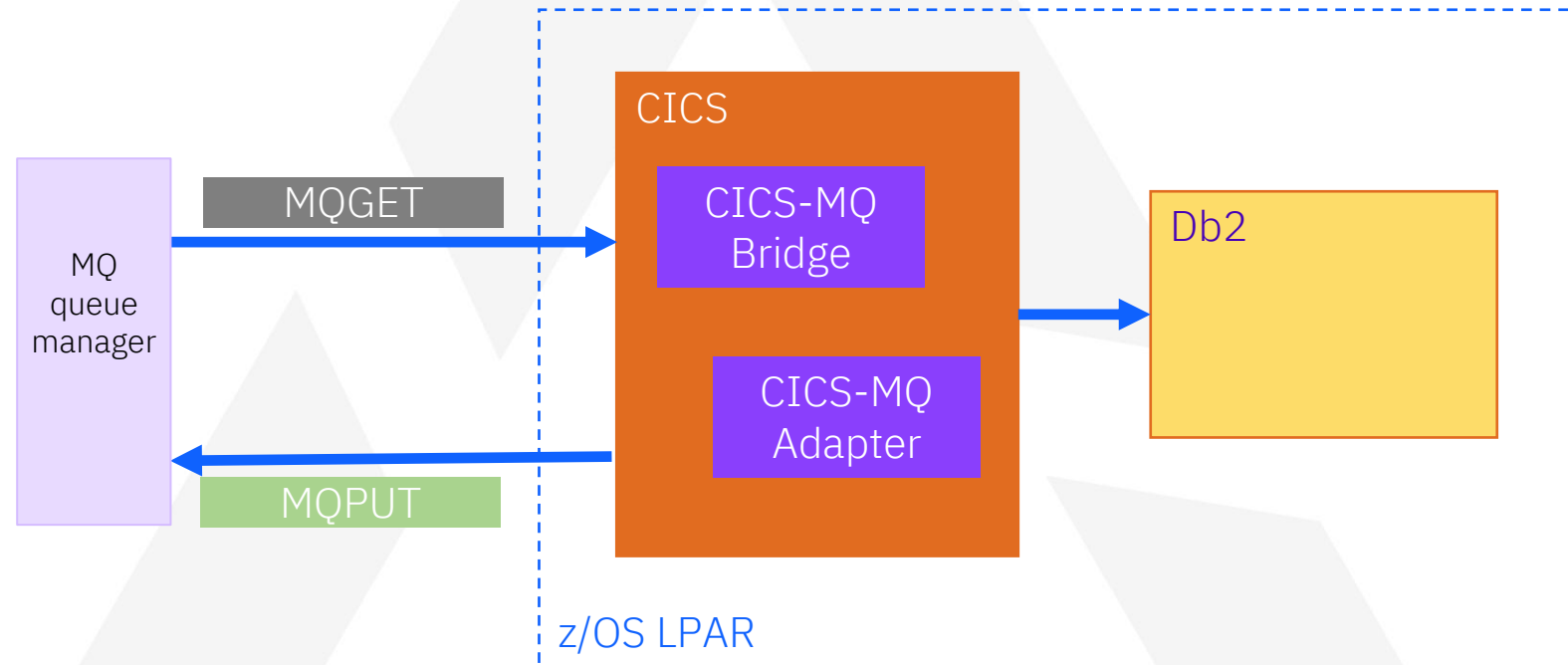
- Controls whether CICS is to emit span data
- Can be set to Noemit or Taskend
 - Noemit** – CICS will not emit span data to SMF
 - Taskend** – CICS will emit span data to SMF at end of task (Default)

OTELSAMP **beta**

- Set the sampling probability percentage (0-100) for OTel trace context initiation when **OTELPROP** is set to **INITPROP**



OTel Tracing – CICS, MQ and Db2 scenario



OTel Tracing – CICS, MQ and Db2 scenario

Service & Operation		
✓	QL2C	MQPUT HEJEN.TEST.BRIDGE.APPLQ1
✓	QL2C	MQGET HEJEN.TEST.BRIDGE.APPLQ1
✓	IYCWZCAB	CICS transaction OTBP
	Db2z	Db2z.span
✓	QL2C	MQPUT1 HEJEN.TEST.REPLYQ1
	QL2C	MQGET HEJEN.TEST.REPLYQ1

QL2C	MQPUT HEJEN.TEST.BRIDGE.APPLQ1	617µs	
✓	QL2C	MQGET HEJEN.TEST.BRIDGE.APPLQ1	304µs
MQGET HEJEN.TEST.BRIDGE.APPLQ1			
Tags			
mainframe.lpar.name		MV2C	
messaging.client.id		E0E253F0FCFB0001	
messaging.destination.name		HEJEN.TEST.BRIDGE.APPLQ1	
messaging.destination.type		queue	
messaging.ibmmq.application.cics_task_id		0000078	
messaging.ibmmq.application.cics_trans_id		OTBP	
messaging.ibmmq.application.completion_code		MQCC_OK	
messaging.ibmmq.application.external_transaction_id		E0E253F0F8DFA674	
messaging.ibmmq.application.name		IYCWZCAB	
messaging.ibmmq.application.pid		111	
messaging.ibmmq.application.qmgr_transaction_id		00000000022EA994	
messaging.ibmmq.application.reason_code		MQRC_NONE	
messaging.ibmmq.application.transaction_type		CICS	
messaging.ibmmq.application.type		CICS	
messaging.ibmmq.application.user_id		HEJEN	
messaging.ibmmq.consumer.no_child_spans		true	
messaging.ibmmq.destination.resolved_name		HEJEN.TEST.BRIDGE.APPLQ1	

OTel Tracing – CICS, MQ and Db2 scenario

The screenshot displays the OpenTelemetry tracing interface for a CICS transaction OTBP. The left sidebar shows a tree view of the service and operation hierarchy. The main panel shows a detailed view of the selected operation, including its duration and a list of tags.

Service & Operation

- QL2C MQPUT HEJEN.TEST.BRIDGE.APPLQ1
 - QL2C MQGET HEJEN.TEST.BRIDGE.APPLQ1
 - IYCWZCAB CICS transaction OTBP
 - Db2z Db2z.span
 - QL2C MQPUT1 HEJEN.TEST.REPLYQ1
 - QL2C MQGET HEJEN.TEST.REPLYQ1

Operation Details:

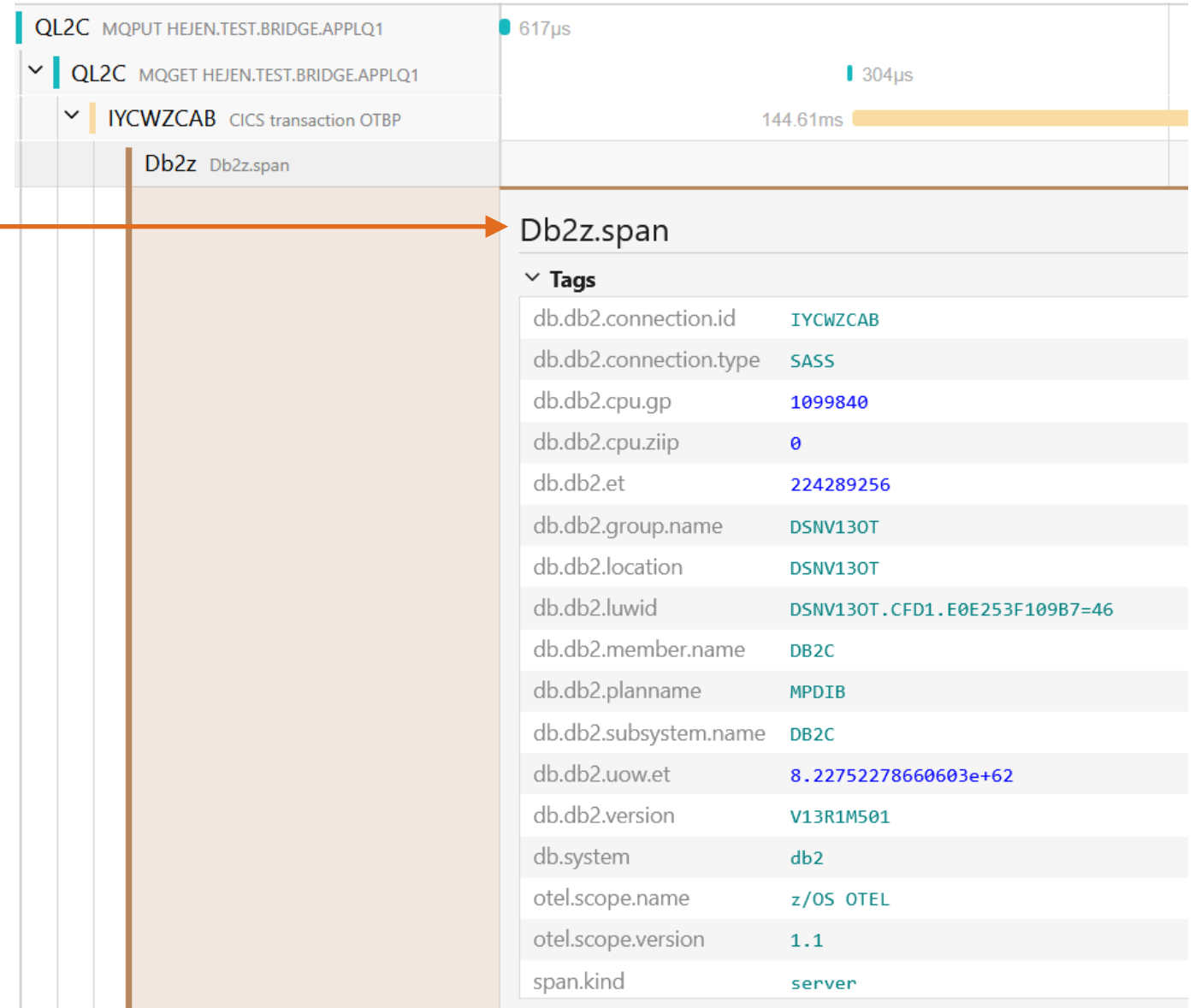
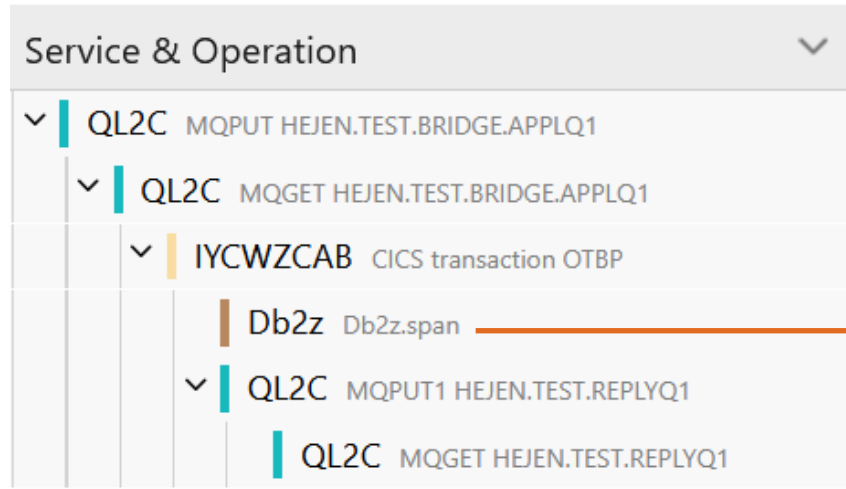
- QL2C MQPUT HEJEN.TEST.BRIDGE.APPLQ1 (617µs)
- QL2C MQGET HEJEN.TEST.BRIDGE.APPLQ1 (304µs)
- IYCWZCAB CICS transaction OTBP (144.61ms)

CICS transaction OTBP

Tags

otel.scope.name	z/OS OTEL
otel.scope.version	1.1
span.kind	server
tps.program.name	DFHMQBP0
tps.regionid	IYCWZCAB
tps.system	cics
tps.task.id	00078
tps.transaction.id	OTBP

OTel Tracing – CICS, MQ and Db2 scenario



OTel Tracing – CICS, MQ and Db2 scenario

Service & Operation

- QL2C MQPUT HEJEN.TEST.BRIDGE.APPLQ1
 - QL2C MQGET HEJEN.TEST.BRIDGE.APPLQ1
 - IYCWZCAB CICS transaction OTBP
 - Db2z Db2z.span
 - QL2C MQPUT1 HEJEN.TEST.REPLYQ1
 - QL2C MQGET HEJEN.TEST.REPLYQ1

QL2C MQPUT HEJEN.TEST.BRIDGE.APPLQ1

617µs

QL2C MQGET HEJEN.TEST.BRIDGE.APPLQ1

304µs

IYCWZCAB CICS transaction OTBP

144.61ms

Db2z Db2z.span

QL2C MQPUT1 HEJEN.TEST.REPLYQ1

MQPUT1 HEJEN.TEST.REPLYQ1

Tags

mainframe.lpar.name	MV2C
messaging.client.id	E0E253F0FCFB0001
messaging.destination.name	HEJEN.TEST.REPLYQ1
messaging.destination.type	queue
messaging.ibmmq.application.cics_task_id	0000078
messaging.ibmmq.application.cics_trans_id	OTBP
messaging.ibmmq.application.completion_code	MQCC_OK
messaging.ibmmq.application.external_transaction_id	E0E253F12027CC73
messaging.ibmmq.application.name	IYCWZCAB
messaging.ibmmq.application.pid	111
messaging.ibmmq.application.qmgr_transaction_id	00000000022EAB8F
messaging.ibmmq.application.reason_code	MQRC_NONE
messaging.ibmmq.application.transaction_type	CICS
messaging.ibmmq.application.type	CICS
messaging.ibmmq.application.user_id	HEJEN
messaging.ibmmq.destination.resolved_name	HEJEN.TEST.REPLYQ1
messaging.ibmmq.destination.resolved_qmgr_name	QL2C

The logo for SHARE (Sustainable Housing and Affordable Rental Equity) features the word "SHARE" in a bold, black, sans-serif font. The letter "A" is replaced by a stylized triangle composed of three smaller triangles: a green one on the left, a blue one on the right, and an orange one at the top.

Service & Operation

✓ **Banking_Insurance_Front** queue:///INSURANCE.CLAIM.IN publish (17.36ms)

✓ **QL2C** MQPUT INSURANCE.CLAIM.IN (613.84µs)

✓ MQGET INSURANCE.CLAIM.IN (47.8µs)

✓ **BANK1TOR** CICS transaction ICLM (204.76ms)

✓ **BANK1AOR** CICS transaction INSA (202.96ms)

DB2C Db2 unit of work (202.05ms)

✓ **Banking_Insurance_Front** POST (105.73ms)

Insurance Fraud check (103.39ms)

✓ POST (75.12ms)

Insurance payment processing (73.46ms)

✓ HTTP POST undefined (59.47ms)

✓ tls.connect (18.03ms)

tcp.connect (7.29ms)

dns.lookup (5.13ms)

✓ **ZOS-CONNECT-1** POST /payments (26.41ms)

Request mapping (1.32ms)

✓ **ZOS-CONNECT-1** POST /payments (26.41ms)

Request mapping (1.32ms)

✓ z/OS Asset processing (16.66ms)

Invoke CICS (15.84ms)

✓ **BANK1TOR** CICS transaction BPAY (15.28ms)

✓ **BANK1AOR** CICS transaction FPAY (14.9ms)

✓ **Banking_Insurance_Front** POST (3.85ms)

Reward Points Update (999.56µs)

mongodb.update (1.86ms)

mongodb.update (642.96µs)

ZOS-CONNECT-1 Response mapping (6.09ms)

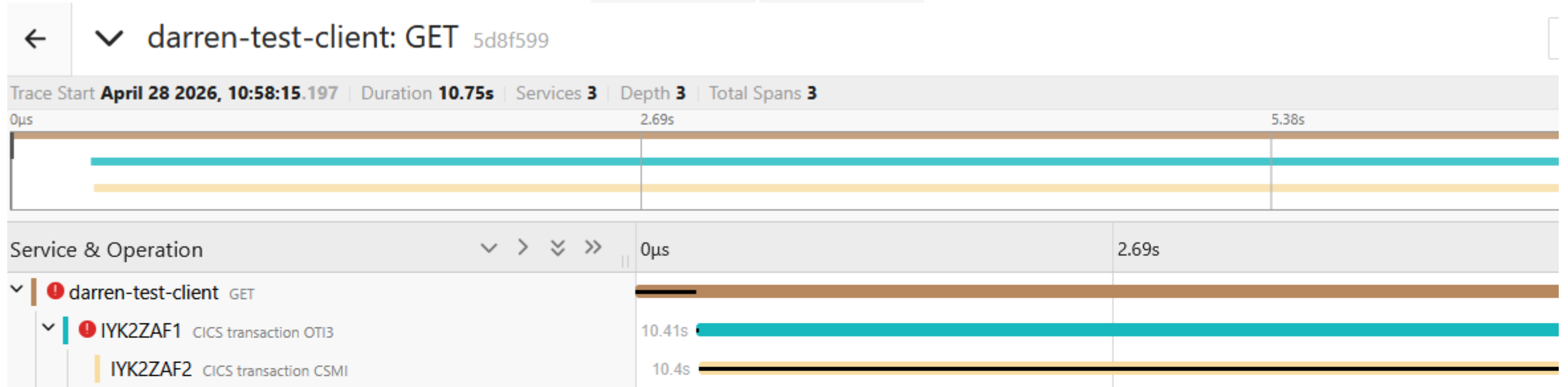
✓ **Banking_Insurance_Front** POST (1.97ms)

mongodb.update (735.29µs)

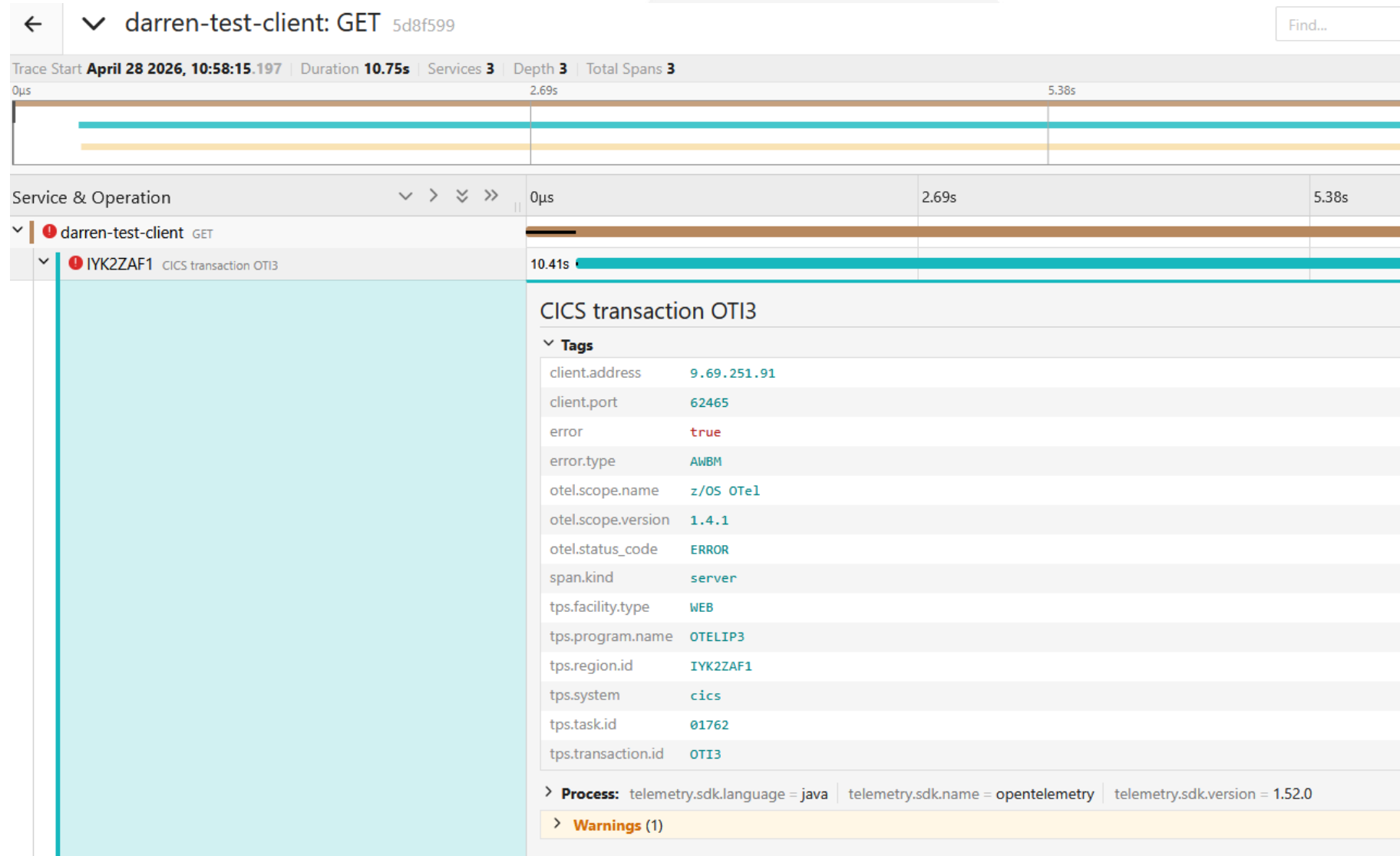
✓ **QL2C** MQPUT1 INSURANCE.CLAIM.REPLYQ (144.99µs)

MQGET INSURANCE.CLAIM.REPLYQ (46.64µs)

OTel Tracing showing an error in the application



OTel Tracing showing an error in the application



Beta enhancements

- Support for EXEC CICS RETURN TRANSID
- Support for DTP over MRO
- Long-running transactions that accept different requests with different OpenTelemetry contexts can now manage trace spans programmatically.
 - Exit programs use new XPI functions [START_SPAN](#) and [END_SPAN](#).
 - Application programs use new API commands [OTEL STARTSPAN](#), [OTEL EXTRACT](#), and [OTEL ENDSPAN](#).

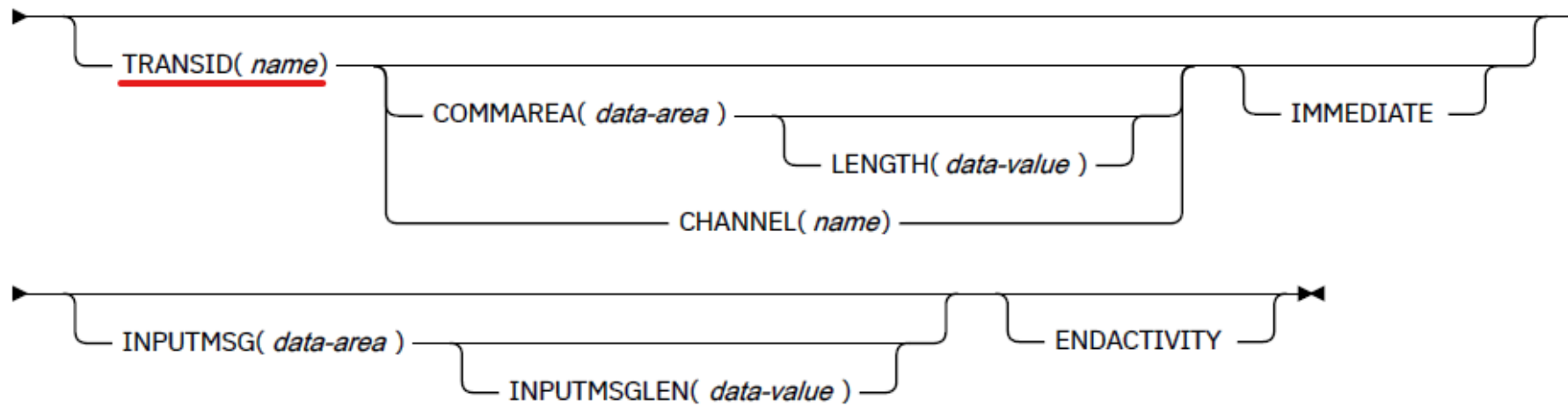
EXEC CICS RETURN TRANSID

❖ EXEC CICS RETURN.

- Most common usage, return control to the next higher logical level.
- Within same task boundary, it generally has minimal impact on OTel.
- But, this API provides many variations and options beyond this basic usage.

RETURN

➡ RETURN ➡



EXEC CICS RETURN TRANSID

❖ EXEC CICS RETURN **TRANSID**

- The task returns control to CICS.
- CICS starts a **new task** – TRANSID on the terminal (of calling task)
- Pseudo conversation between tasks – passing data from one task to the EC RETURN task(inputmsg, commarea, channel)

No behavioural changes, OTel context propagation has been added.

- ❖ From calling task to newly started EC RETURN TRANSID task
- ❖ Propagated to remote region if connection is MRO or IPIC

Distributed Transaction Processing (DTP) Optimizations

- OTel is supported for DTP over MRO
 - A check is made that both CICS regions contain the DTP support before the OTel data are sent
 - When the OTel trace context is sent, it is only included on the first communication between the connected CICS regions
 - Subsequent communications are unchanged to minimize performance impact

New OTEL APIs/XPIs

For some long running tasks or CSKL listeners, we may want to propagate OTel context into CICS task and trace them.

- Long running tasks may need to change OTel context, potentially multiple times during the task lifetime
- The rest of propagation will happen seamlessly using the existing CICS OTel propagation.
- APIs and XPIs are standard ways of providing functions to user programs.

APIs:

- **STARTSPAN:** Start a new OTel context on the issuing task.
- **ENDSPAN:** Explicitly end the existing OTel context for the issuing task.

XPIs:

- **START_SPAN:** Sets the trace parent information as OTel context to the current task.
- **END_SPAN:** Explicitly terminates the current OpenTelemetry trace.

Program logic using OTEL APIs

1. Accept a request;
2. Process the request, find out what to do next.
3. * (New logic) extract OTel context from the request, start a new OTel trace on the current task

```
exec cics otel startspan
    traceid(newoteltrid) parentid(newotelpaid)
    traceflags(newflag) version(newversion)
    resp(response) resp2(respons2)
end-exec.
```
4. Start a new CICS task or link to a CICS program;
5. Send response back to client.
6. * (New logic) End current task's OTel trace

```
exec cics otel endspan
    resp(response) resp2(respons2)
end-exec.
```
7. Wait for next request.

An Important Point

- It is acceptable for OTel data to be lost in some circumstances.
 - The SMF buffer could wrap leading to data overwrite
 - The SMF address space could fail completely. The real time interface means that all the data are in memory, so are lost if the address space fails.
- OTel data are not business critical. There is no recovery process for lost data.



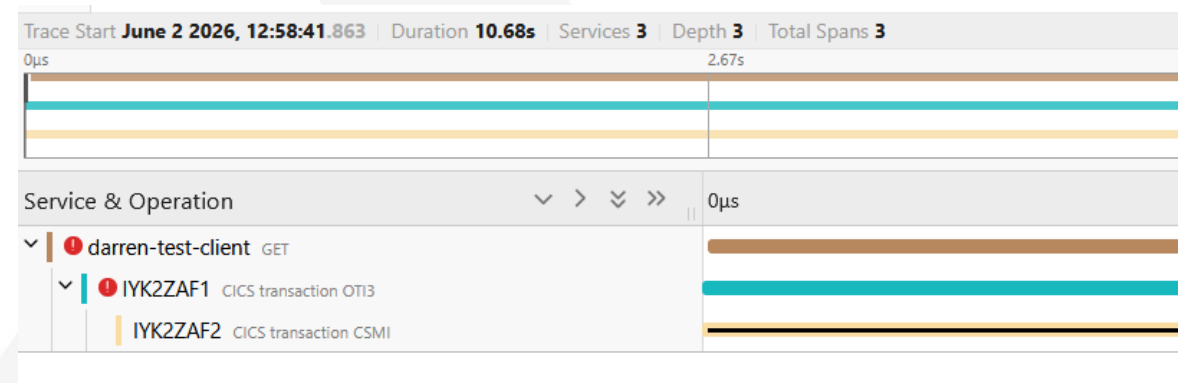
Other Important Points

- The work in CICS (CPU required) to generate spans is not large
 - Fractional change in application performance will depend on the complexity of the application
- Writing to SMF is similar to what is already done for CICS monitoring records
 - Span data records are buffered for better performance



Summary

- Open telemetry is useful in scenarios where you have distributed applications
 - It helps quickly to identify where a problem is occurring
 - An SRE or non-z/OS expert can easily extract valuable data from an OTel trace
 - Enables the right product experts to be assigned to find a resolution of the problem
 - It is an open standard
 - No application changes required



More information

- CICS TS 6.3 documentation
 - <https://www.ibm.com/docs/en/cics-ts/6.x?topic=fundamentals-cics-opentelemetry>
- Open Telemetry specifications
<https://opentelemetry.io/docs/specs/otel/>
- IBM statement of direction concerning Open Telemetry (Published 3rd June 2025)
<https://www.ibm.com/docs/en/announcements/statement-direction-zos-middleware-products-support-opentelemetry>
- MQ for z/OS 9.4.3 documentation
<https://www.ibm.com/docs/en/ibm-mq/9.4.x?topic=tracing-opentelemetry-mq-zos>
- Db2 v13 details
<https://www.ibm.com/docs/en/db2-for-zos/13.0.0?topic=recovery-opentelemetry-tracing-in-db2>

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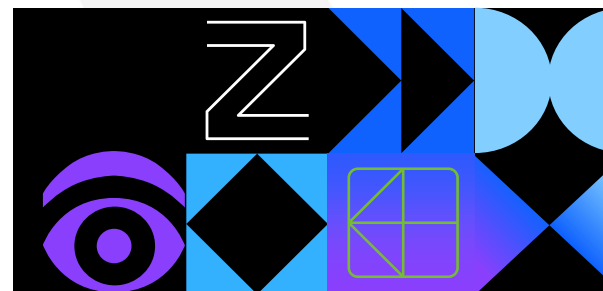
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