# Getting & Using CICS Integration Analytics

What, Why, and How July 2020



# Today's Presenter





Russ Teubner CEO & Co-founder





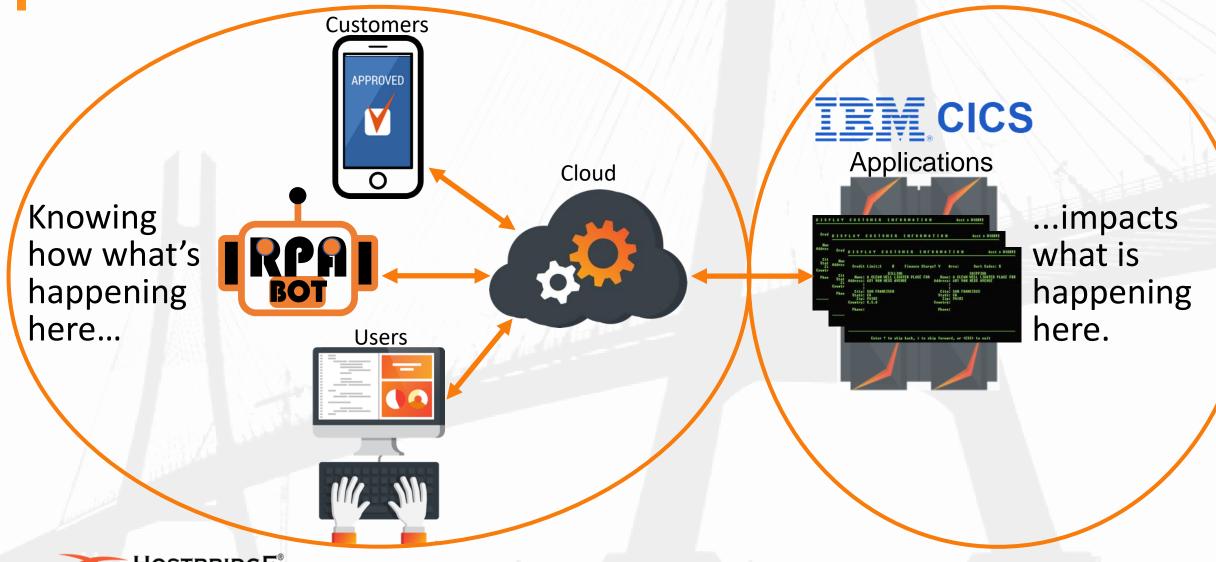
Software and expertise to make CICS apps available as callable services via APIs:

- No screen-scraping
- No host application changes
- High-performance, high-fidelity integrations
- Implemented using JavaScript (State of the Art)
- Complimentary to Z/OS Connect EE
- 100% zIIP Enabled

Proud sponsor of Virtual CICS User Group!

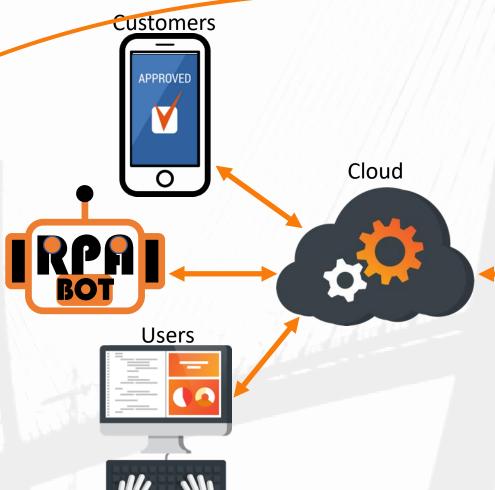


#### What are Integration Analytics?



# What are Integration Analytics?

Knowing how what's happening here...





**Applications** 



...impacts what is happening here.



# Integration Analytics

#### End-to-end transaction tracking.

See and understand (with precision) the interaction to know how off-host activity drives mainframe workload.

Why?



# Why Integration Analytics?

Mainframes are participants in hybrid IT strategies.

Not all distributed apps are "good citizens" in their mainframe interactions.

Integration analytics let you:

- Identify the offenders to optimize or remediate
- Develop new, high-performing integrations



# Use Case #1: Auto Insurer



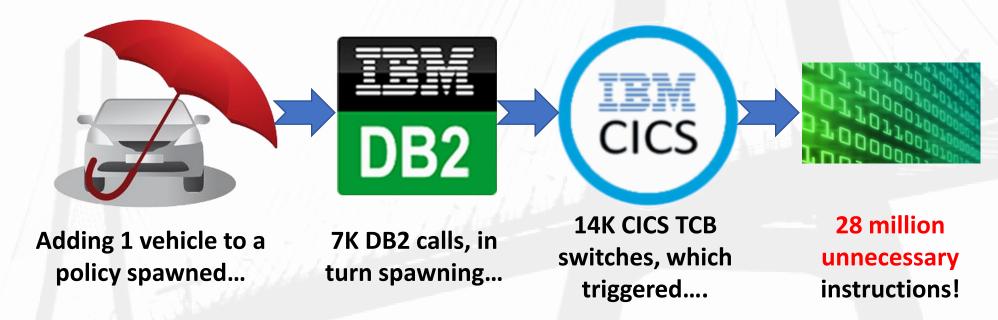
3<sup>rd</sup> party core CICS business applications:

- Routine business process adding a vehicle to a policy was spawning lots of mainframe activity
- Activity was hard to forecast, difficult to manage, and consuming cycles at an unexpected rate



#### Use Case #1: Auto Insurer

What integration analytics revealed:



Insurer used the findings to get ISV to change the application!



#### Use Case #2: Public Sector

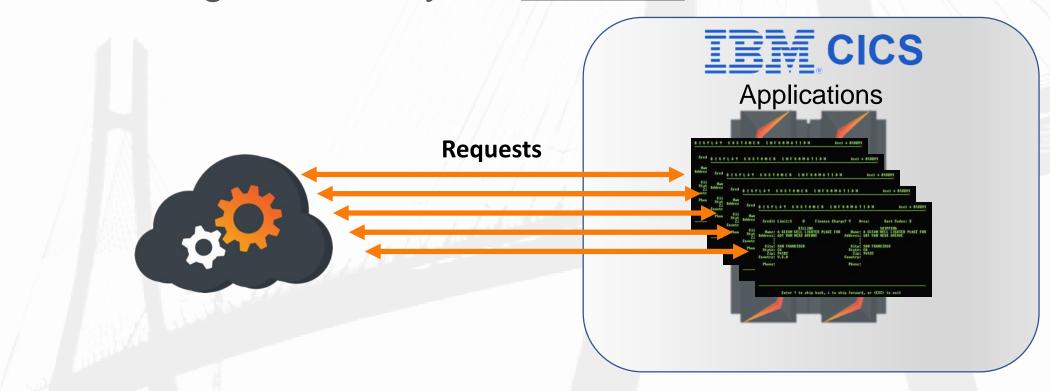
Unexplained spikes in CICS workload:

- Increased processing costs
- Performance bottleneck
- Prevented other workload from processing in time



# Use Case #2: Public Sector

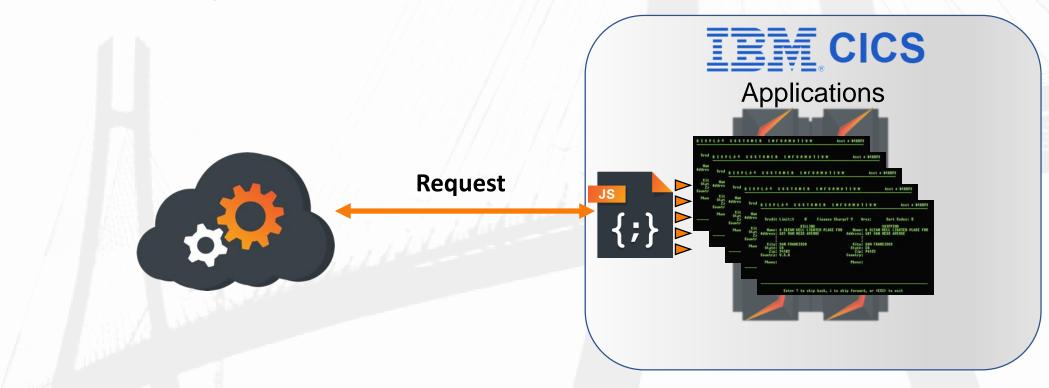
What integration analytics <u>revealed</u>:





#### Use Case #2: Public Sector

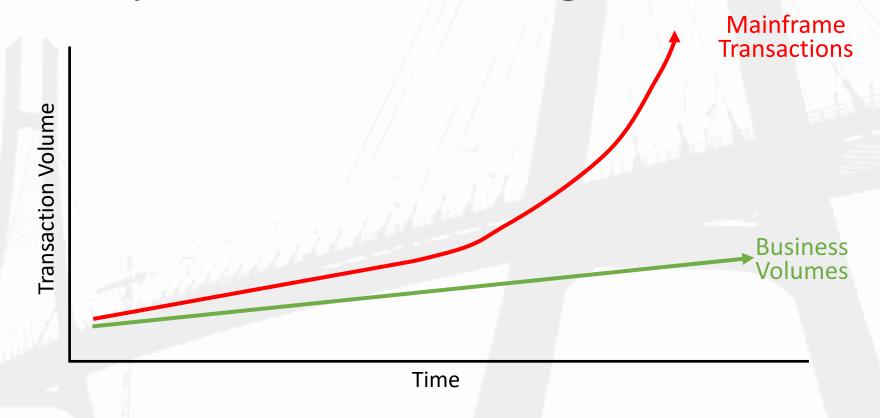
What integration analytics recommended:





# Use Case #3: Global Tech Supply Chain

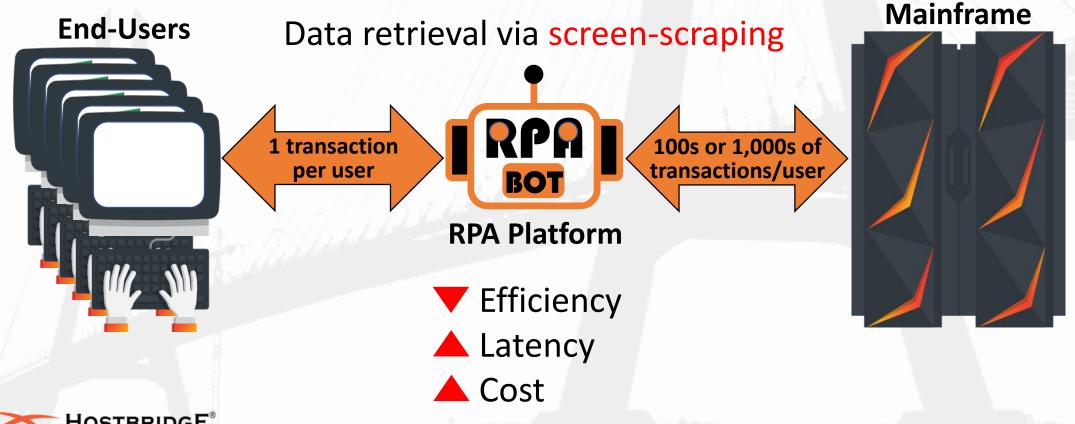
Called in by client who was seeing this:





## Use Case #3: Global Tech Supply Chain

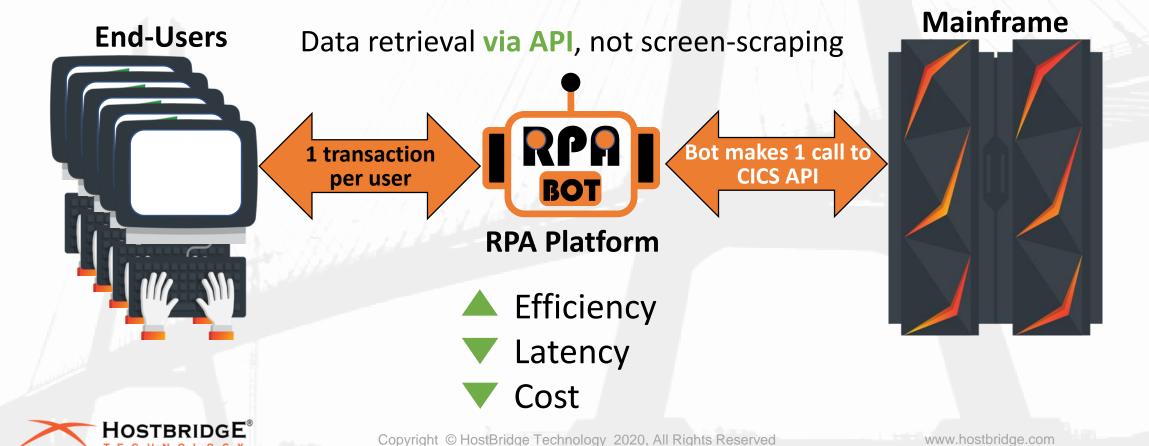
#### What integration analytics <u>revealed</u>:





## Use Case #3: Global Tech Supply Chain

#### What integration analytics recommended:



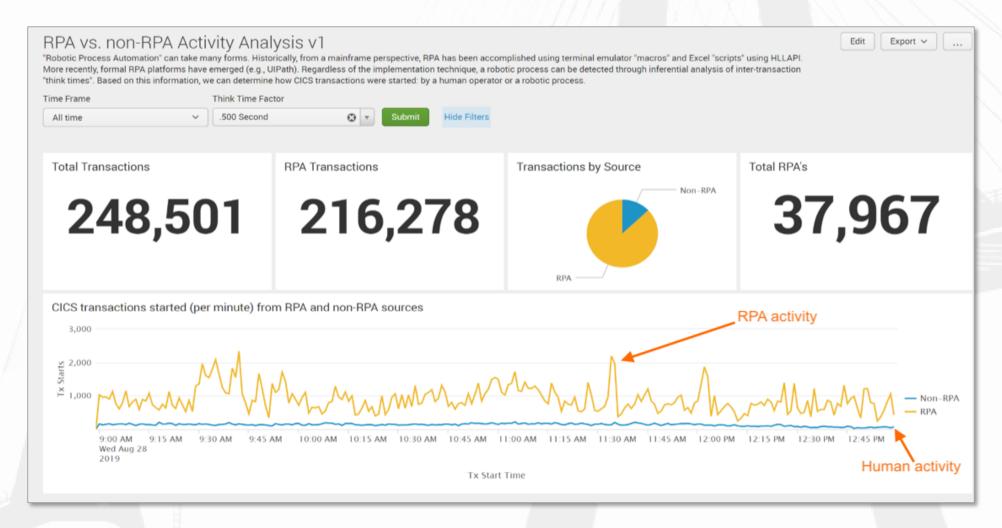
## **Enabling Integration Analytics**

- Foundation: SMF 110 records
- Value Add: HostBridge Transaction Analytics Connector
  - Runs inside CICS
  - Leverages CICS Transaction Tracking infrastructure
  - Extracts origin data/metadata from external requests
  - Annotates SMF 110 records with additional "origin data"
- We deliver dashboards that perform analysis via Splunk

# HostBridge is a splunk>partner+

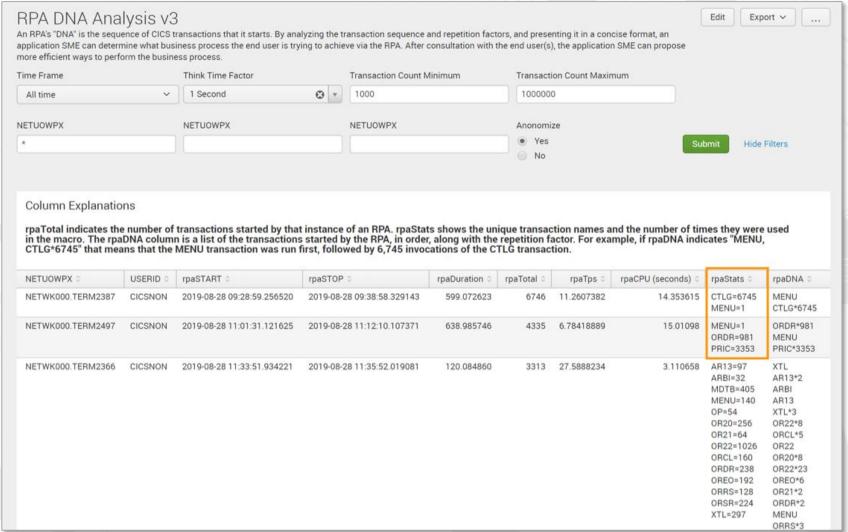


#### Dashboard example





#### Dashboard example (cont.)





#### Dashboard example (cont.)

Someone has written a process that runs this sequence just to determine if "the mainframe is up"!

			USERID	TOKEN	rpaDuration	rpaTotal	rpaTps	USRCPUT_tot	USRCPUT_max	USRCPUT_max	
rpaSTART \$	rpaSTOP ‡	distribApp \$	<b>\$</b>	<b>\$</b>	\$	•	\$	\$	\$	(RPA Reqnum) 🕏	rpaDNA ‡
2020-06-16 11:13:55.093998	2020-06-16 11:13:55.139394			3AF4D835	0.045396	4	88.11	4818	1276	1	F400+ENTER(#) CLEAR PF9 ENTER
2020-06-16 11:13:56.572552	2020-06-16 11:13:56.653828			A3F74735	0.081276	4	49.22	38837	34284	2	F400+ENTER CLEAR(#) PF9 ENTER
2020-06-16 11:13:59.471974	2020-06-16 11:13:59.560782			6820A835	0.088808	4	45.04	38914	34389	2	F400+ENTER CLEAR(#) PF9 DELETE_SESSION
2020-06-16 11:14:00.976331	2020-06-16 11:14:01.061396			D6CE8CB5	0.085065	4	47.02	38933	35028	2	F400+ENTER CLEAR(#) PF9 ENTER

Someone has written a process, running on a server, that logons to CICS, transitions to a screen, and presses the Enter key 200 times!

HB Base Request Chains Meeting Criteria											
rpaSTART \$	rpaSTOP \$	distribApp \$	USERID \$	TOKEN	rpaDuration	rpaTotal ▼	rpaTps	USRCPUT_tot	USRCPUT_max	USRCPUT_max (RPA Reqnum) \$	rpaDNA \$
2020-06-16 11:29:07.511427	2020-06-16 11:29:09.972990			60C6DE35	2.461563	204	82.87	277282	37532	2	F400+ENTER CLEAR(#) PF9 ENTER*200 DELETE_SESSION



## Do you need Integration Analytics?

#### YES, if you have:

- Unexplained spikes in performance or workload
- No or limited visibility into what is driving CICS workload
- A need to identify inefficient applications/practices
- High/unexplained volume from screen-based apps
- It's been a long time since you looked "under the covers!"

Complete, end-to-end view of hybrid apps that include CICS.



### Dip your toe into the Integration Analytics pool...

#### Send us some SMF 110 records!

- 1-2 hours of production data will do just fine
- We perform analysis and present dashboards to you via a web meeting

#### Onsite Option (if you have Splunk):

- HTAC available for installation/demo on your system
- We provide remote support to perform analysis and use dashboards

#### Ongoing:

Services for dashboard building, analysis, and optimization consulting



#### Specific to RPA







https://www.hostbridge.com/mainframe-rpa-resources/



#### Discussion & Questions

#### Learn more:

https://www.hostbridge.com/an-integration-analytics-primer/

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