

IMS, analytics, and data streaming Oh my!

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Agenda

Data, data and more data – who needs it?

Many options available - how to choose

Starter dashboard review

Summary and references

Data growth presents challenges



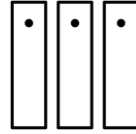
Data is voluminous

The volumes of data that are generated make it nearly impossible for humans to read, scan, or interpret all relevant data.



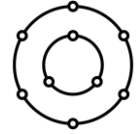
Data is costly

Data collection can require significant CPU and storage to collect and analyze data.



Data is siloed

Single-component data generation only gives one puzzle piece at a time resulting in manual data correlation.

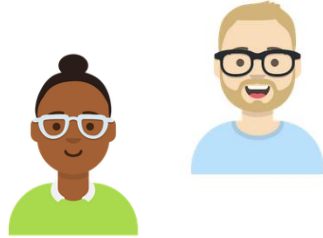


Data is noisy

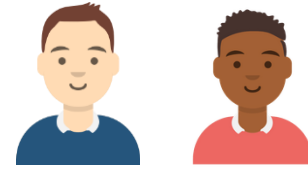
Significant data generation is often too detailed resulting in data that is inconsequential.

User needs for IBM Z data

We leverage **observability solutions** and look to ensure that our applications are healthy. We rely on data that follows the **application flow from start to finish**.



Site Reliability Engineers and (non IBM Z) IT Operators



Mainframe Subject Matter Experts

Much of our day is spent using **z/OS tools** which may or may not be a green screen. We rely heavily on **detailed metric data**, logs, and system generated events or alerts.



Application owner

I typically like to see a **dashboard** that shows my **application is green**. Other **business metrics** may also be important to me.



DevOps Engineer

I need a way to look at the health of my application and be able to **debug issues** as needed. **API details and logs** are of critical importance to me.

I leverage a number of reports and dashboards to do my job. **Interactive solutions** that let me **forecast** my workload are important. **Summarized data** is sufficient for what I need to do.



Capacity Planner

I need to be able to quickly see that the entire IT infrastructure is **healthy** and to quickly **pin point any hot spots**.

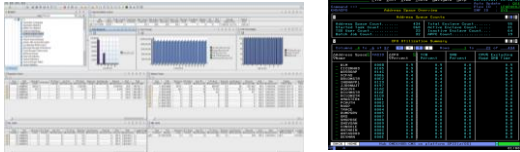


IT Operations Manager

User data needs and systems of engagement



Mainframe Subject Matter Experts



Site Reliability Engineers and (non IBM Z) IT Operators



DevOps Engineer



Application owner



Capacity Planner



IT Operations Manager



How do I get the right IMS-related data to platforms users want?

What data do you want to send? (Or what data do your users need?)

Do you need data in real-time or can you wait for post-processing (log switch and reporting?)

Are the bulk of your transactions coming in through IMS Connect?

Do you want to send data directly to your analytics platform or prefer to go through SMF?

Can you use the logger exit in IMS?

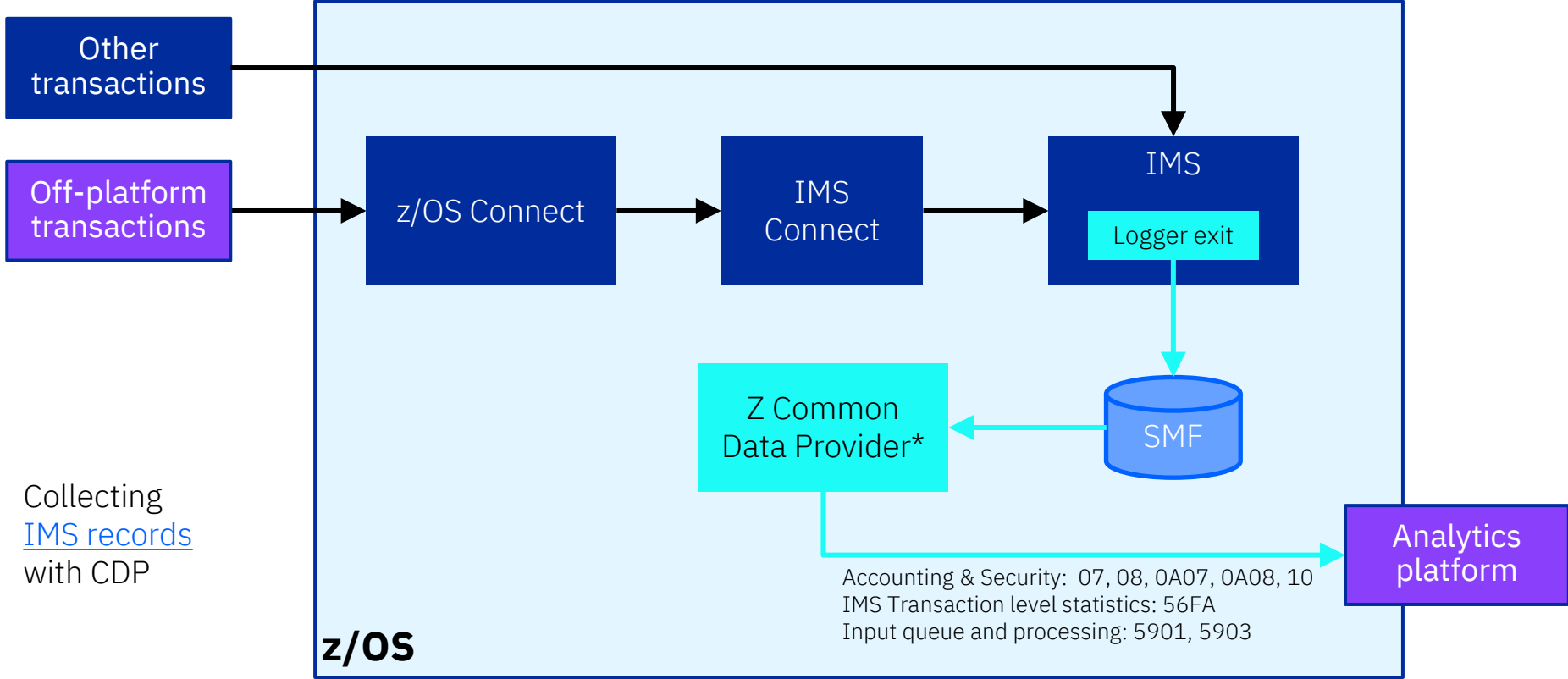
What products do you have

- For IMS and z/OS?
- For analytics?



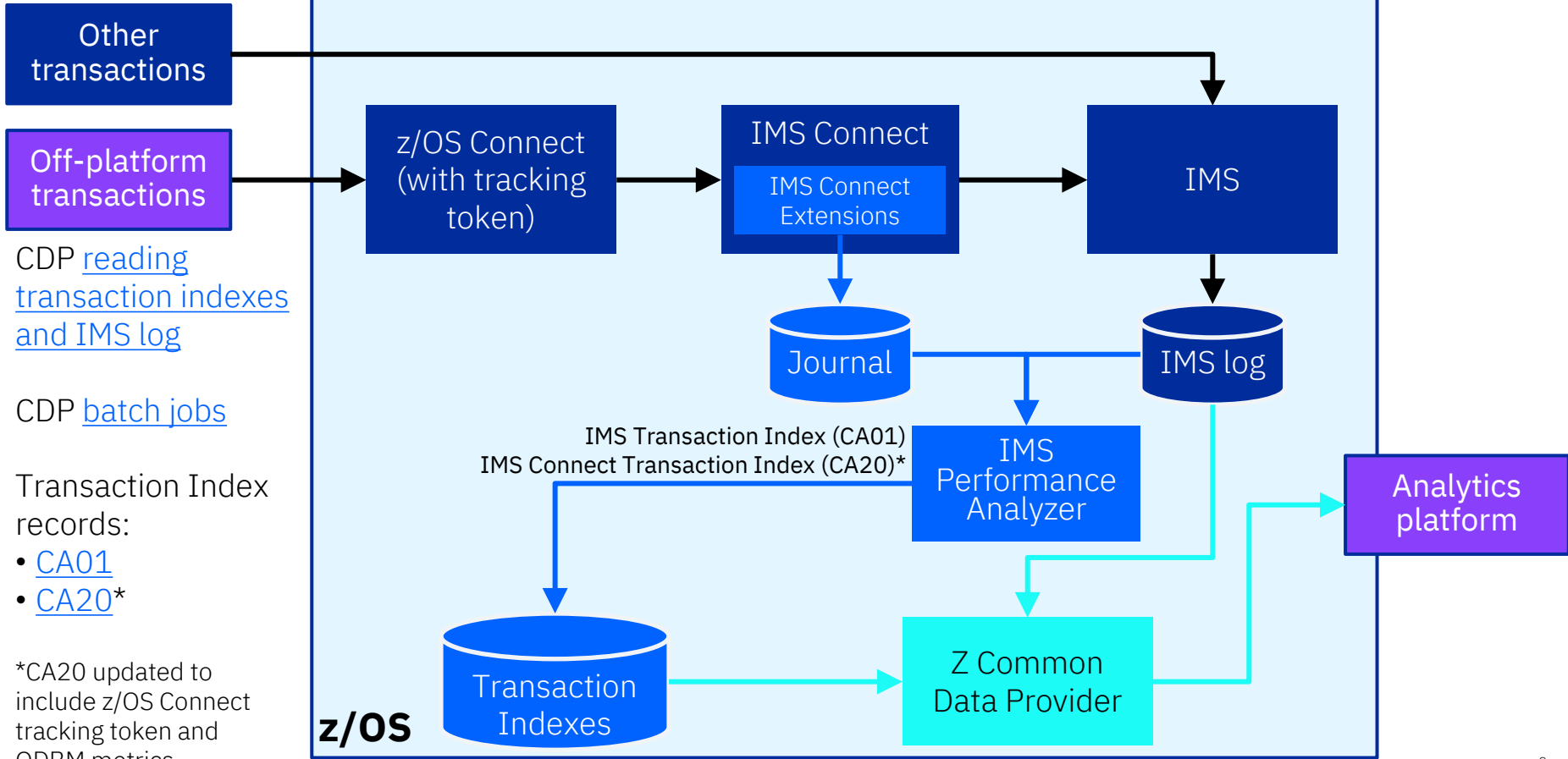
Solutions available

Real-time: Using the IMS logger exit and SMF

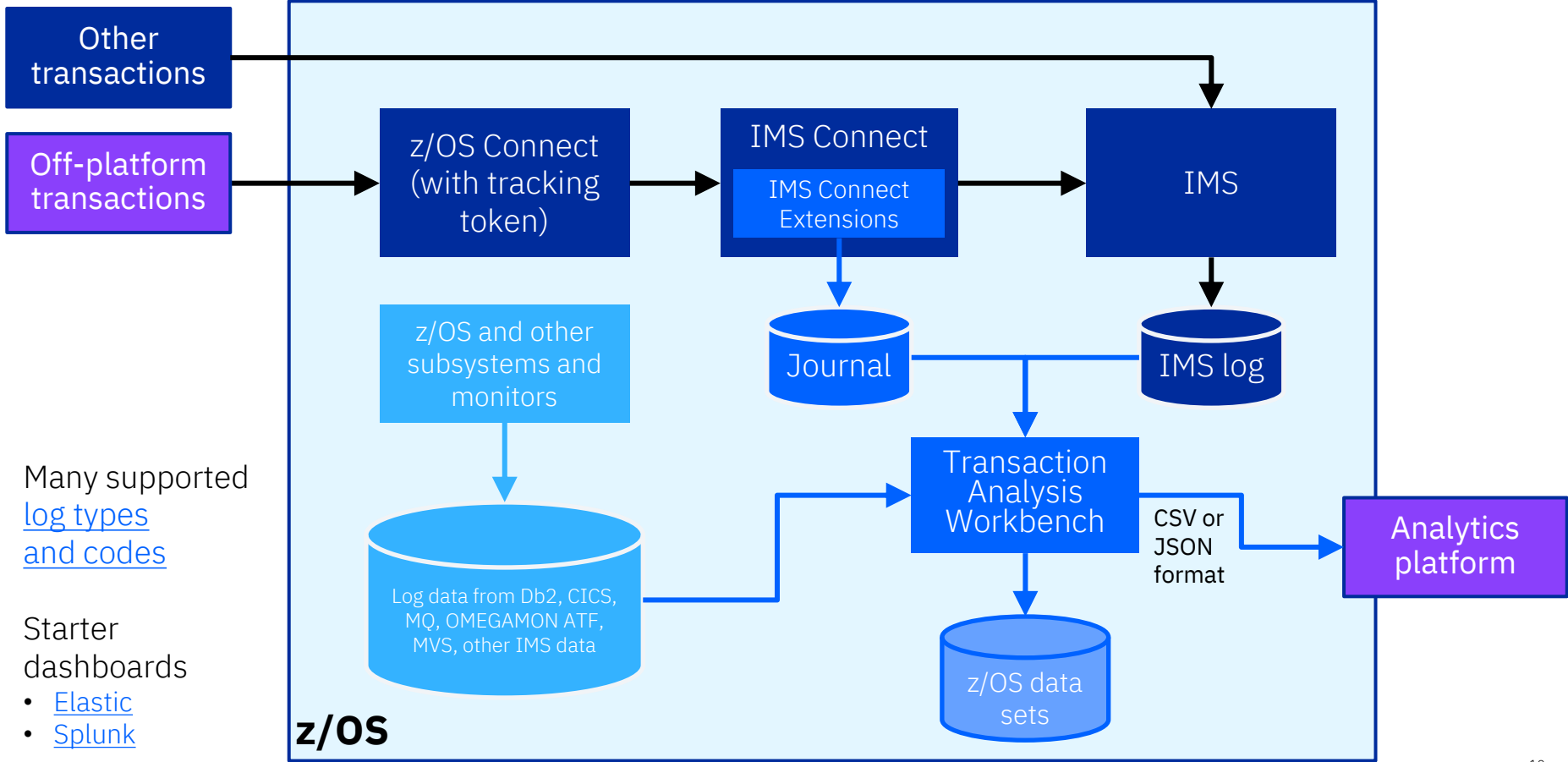


* IBM Z [Common Data Provider](#) is a component in several IBM products

Post-processing: Sending transaction summary records



Post-processing: Sending IMS and non-IMS log data

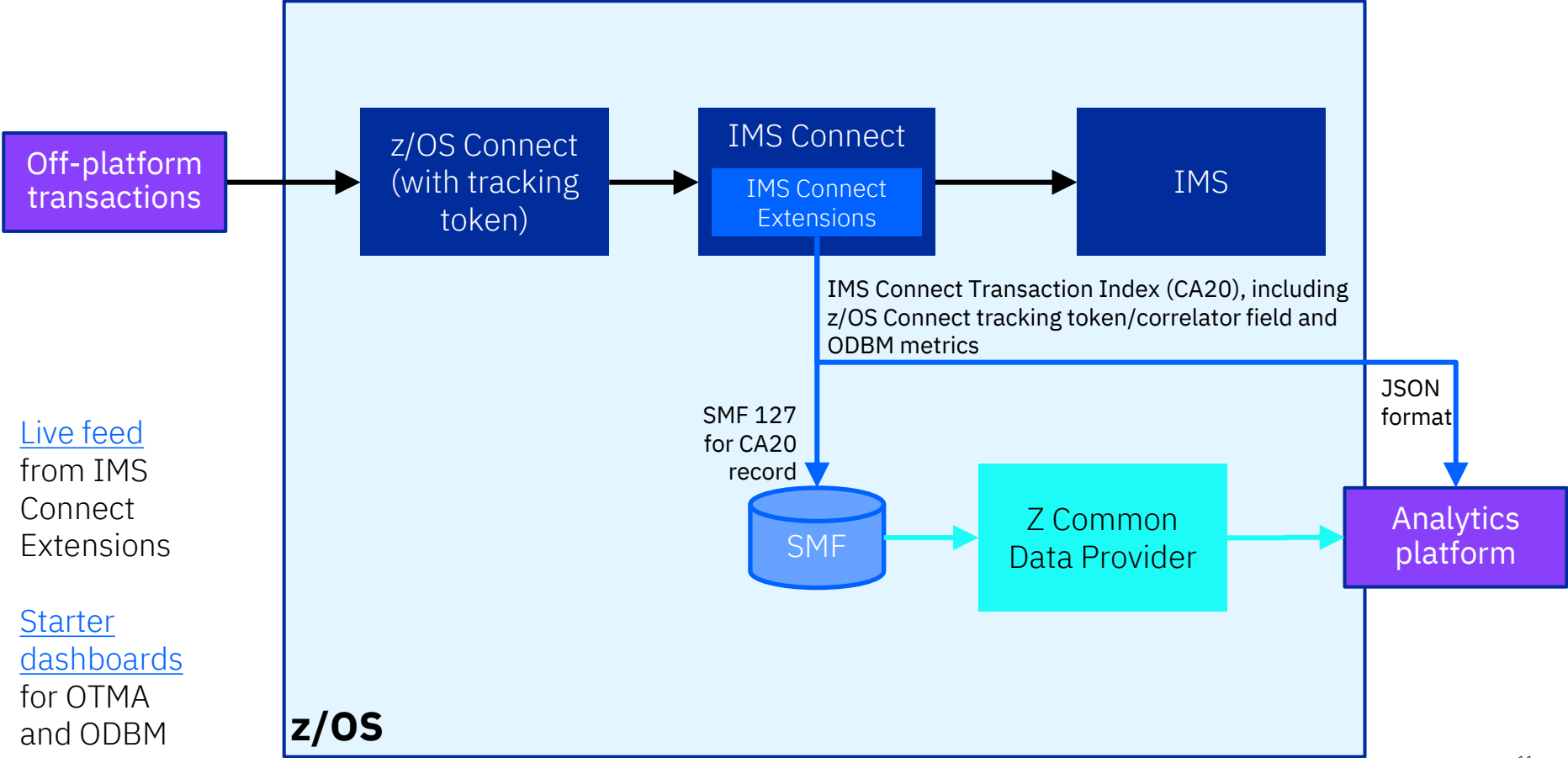


Many supported [log types and codes](#)

Starter dashboards

- [Elastic](#)
- [Splunk](#)

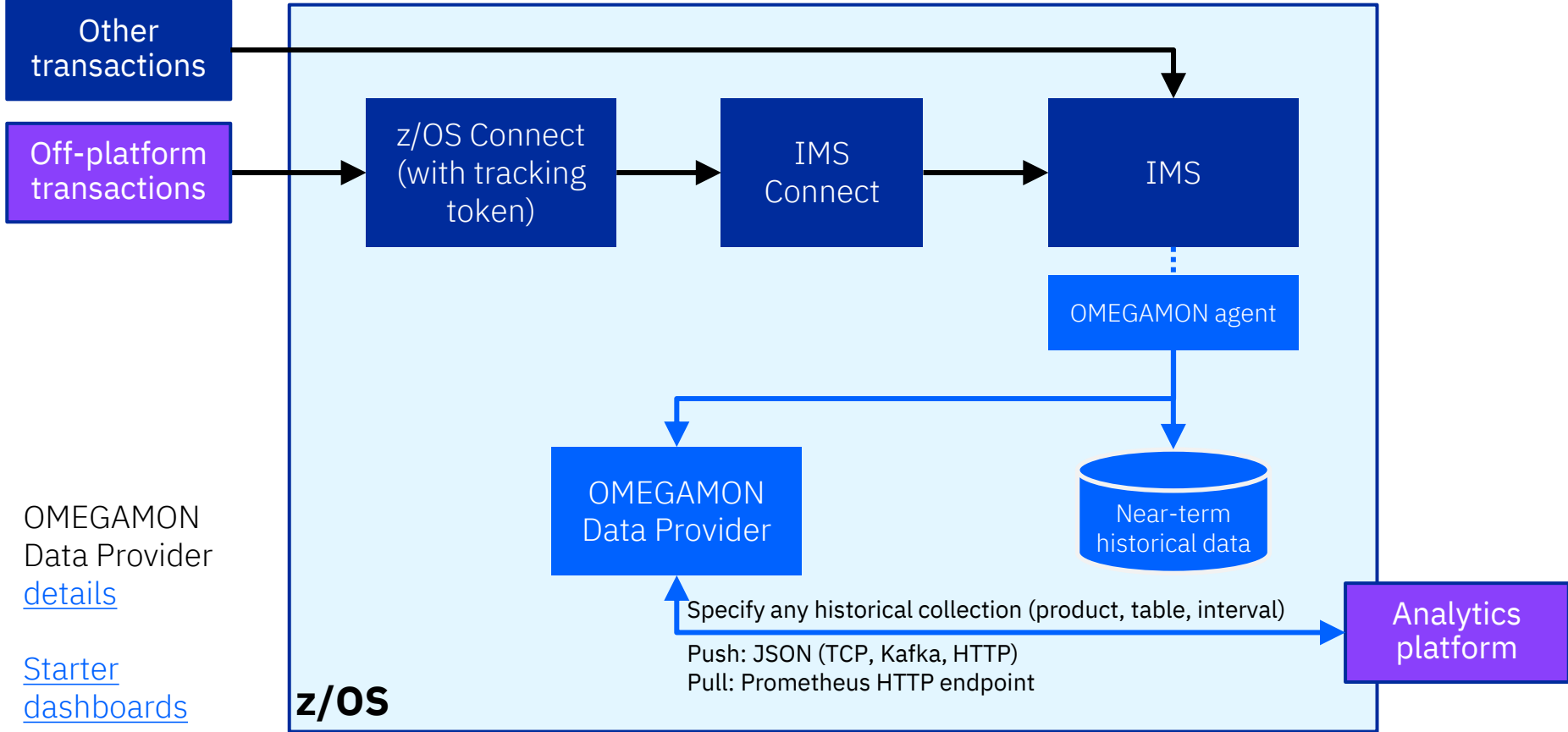
Real-time: Sending IMS Connect transaction summary records



[Live feed](#)
from IMS
Connect
Extensions

[Starter
dashboards](#)
for OTMA
and ODBM

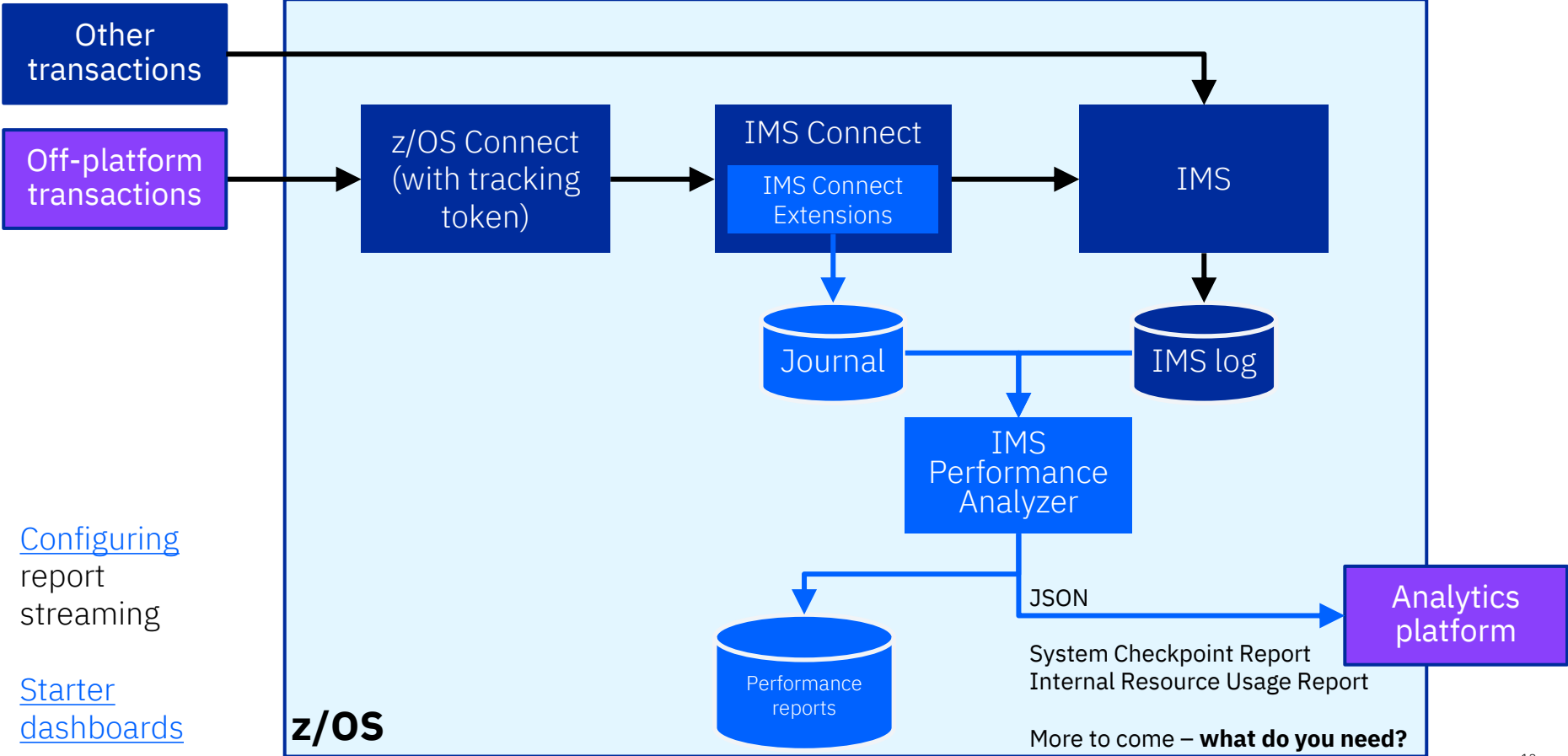
Real-time: Sending performance monitoring data



[OMEGAMON Data Provider details](#)

[Starter dashboards](#)

Post-processing: Sending performance report data



[Configuring report streaming](#)

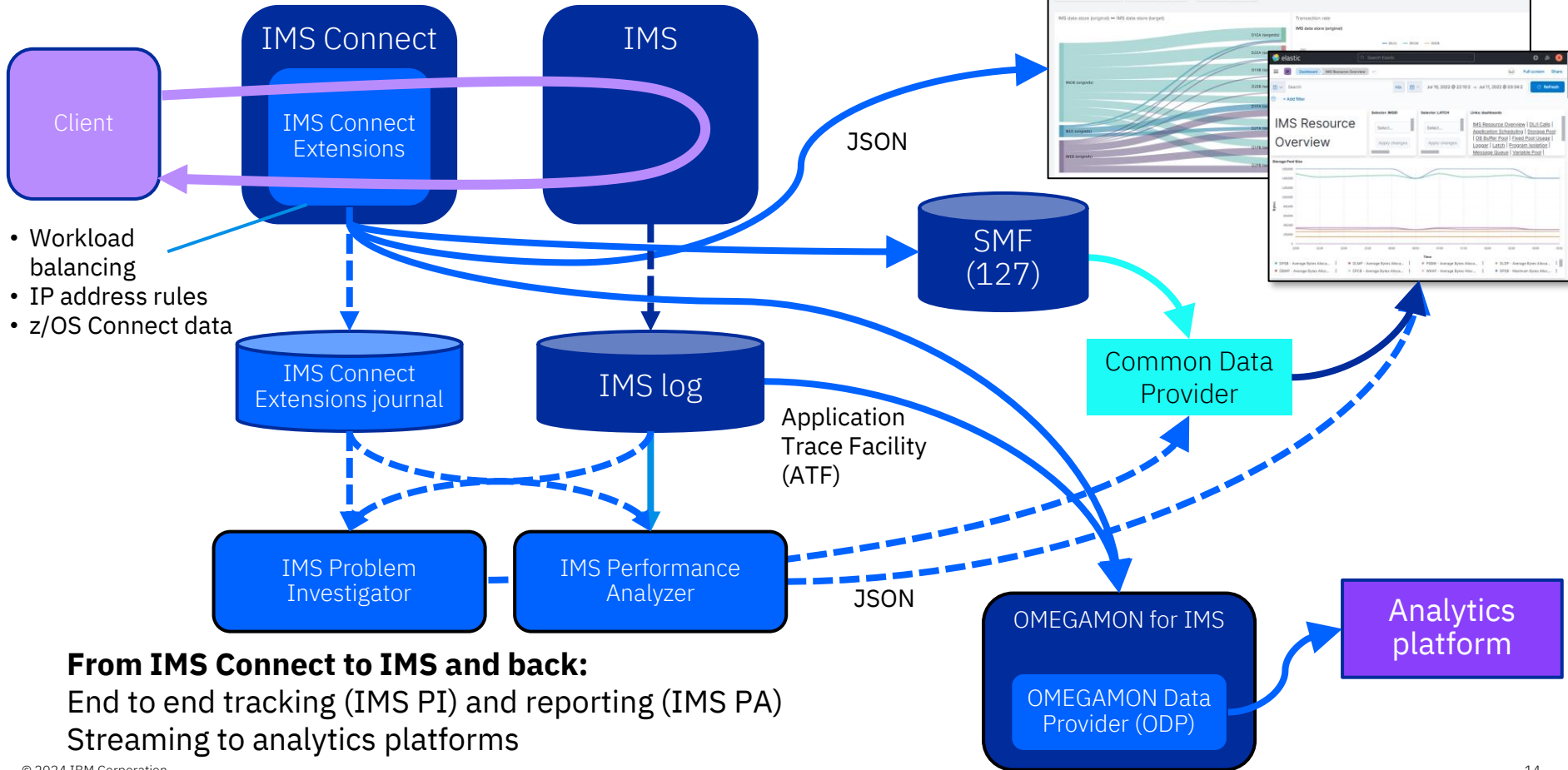
[Starter dashboards](#)

z/OS

System Checkpoint Report
Internal Resource Usage Report

More to come – **what do you need?**

Today's view of IBM IMS performance tools



- Workload balancing
- IP address rules
- z/OS Connect data

From IMS Connect to IMS and back:
 End to end tracking (IMS PI) and reporting (IMS PA)
 Streaming to analytics platforms

Walkthrough the starter dashboards:

ibm.biz/IMSDashboards

ibm.biz/CEXSplunk

ibm.biz/ODBMSplunk

(case sensitive)

Summary

IMS is 55+ years old

- No need to manage it like you did in 1970's
- Modernize
- Make important data available to modern interfaces your users expect

Understand your end users' needs

Understand what platforms and tools the rest of your organization or company is using

Choose a solution that addresses both

Be the hero that includes metrics about your IMS systems and transactions

References

IMS Tools website

www.ibm.com/it-infrastructure/z/ims/tools

IBM Z Software Newsletter

<http://ibm.biz/zITSMNewsletterSubscribe>

IMS listserv

<http://imslistserv.bmc.com>

IMS Tools new functions

www.ibm.com/support/docview.wss?uid=swg22015506

IMS Tools support for IMS V15

www.ibm.com/support/docview.wss?uid=swg22009341

IMS Tools support for Managed ACBs

www.ibm.com/support/docview.wss?uid=ibm10731745

IMS Community

<https://community.ibm.com/community/user/ibmz-and-linuxone/groups/public?CommunityKey=eba3ada3-db89-4dca-9154-328195f5e560>

IMS Fundamentals videos:

https://mediacenter.ibm.com/playlist/dedicated/122579632/1_b56rpdpt/1_jy8lv5f5

IMS Tools Videos on IBM MediaCenter

ibm.biz/ims-tools-mediacenter

IMS new functions

<https://www.ibm.com/docs/en/ims/15.4.0?topic=enhancements-ims-enhancement-ptfs>

IMS Tools support for Data Set Encryption

www.ibm.com/support/pages/ibm-ims-tools-and-data-set-encryption-support

IMS Tools Product Documentation

www.ibm.com/support/docview.wss?uid=swg27020942

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