

# [SAP ODP] Dataflow real time metrics monitoring (SAP first)

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## Issue

ADF dataflow will support connector specific stage real time metrics monitoring, now SAP connector have already achieved it.

For customers who are using ADF dataflow with SAP connector, they may find SAP to stage will show status, start time, duration, rows copied in monitoring page, and updated every 30 seconds if metrics changed.

Sap to stage is a sap specific stage before sap data load into spark. Previously we don't have any connector specific stage real time metrics, and there will be a long time for customer not seeing any metrics updated even though backend is still processing.



Now connector specific stage real time metrics will show as below (SAP as example):


## source1 diagnostics

Source transformation Status  Succeeded Total columns 355

### Stream information

#### spark real time

|  |                       |
|--|-----------------------|
| Rows calculated  | 1,645,062             |
| Total partition  | 27                    |
| Stage time   | 2m 30s                |
| Last update (CST)  | 1/30/2023, 5:46:58 PM |
| Skewness  | -4.8113               |
| Kurtosis  | 24.1111               |

SAP to stage duration  18m 40s

File system init duration  40s

### SAP to stage

#### connector specific stage real time metrics

|             |                       |
|-------------|-----------------------|
| Status      | Succeeded             |
| Start time  | 1/30/2023, 5:23:21 PM |
| Duration    | 18m 38s               |
| Rows copied | 1,645,062             |

- **Case 1:** Row copied under sap to stage not same with rows calculated.
- **Case 2:** Not all connectors support connector specific stage real time metrics monitoring, sap achieved first, others only show duration after completed. E.g., SQL DW pre-sql, post-sql, table operations sql; File store file system initialize.
- **Case 3:** Metrics updated every 30s, not real time.

## Root Cause

Dataflow connector specific stage real time monitoring improvement is still on going.

- **Case 1:** Sap to stage rows copied should be accurate and will further investigate the metrics accurate issue.
- **Case 2:** Other connector specific stage real time metrics is in plan, but different connector will have both common and special real time metrics. E.g., common metrics: status, start time, duration, sap special metrics: rows copied

- **Case 3:** By design. To avoid frequently fetch metrics but without updated. So we set interval time as 30s, should be enough for customer to get nearly updated real time metrics.

## Additional Information:

- Icm Reference: N/A
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