Unisys Unified View (U.V)

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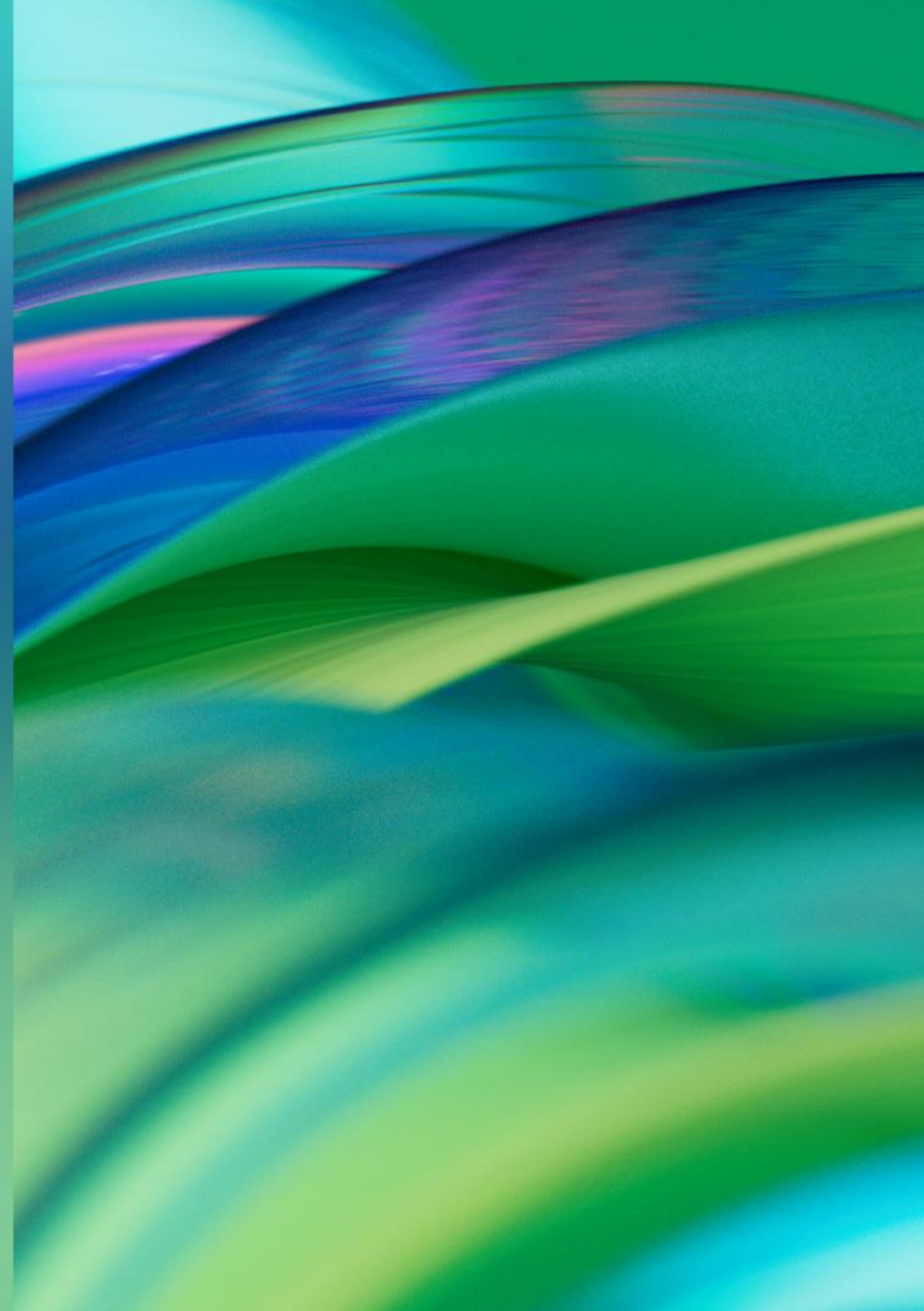
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Unified View

Unified View

Background

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Unisys & Sightline

- Sightline Systems is a key partner who has been providing performance management and capacity planning for our ClearPath Forward™ systems for over 30 years.

- Historically our joint investment and development activities have been mainly around our OS 2200 and MCP products.

- The OS 2200 and MCP environments today now encompass multiple systems and technologies and to reflect this our focus with Sightline has been on providing a single Unified View of the Unisys ecosystem.

- Our most recent investment and development work has been to include ePortal and Data Exchange into the Unified View
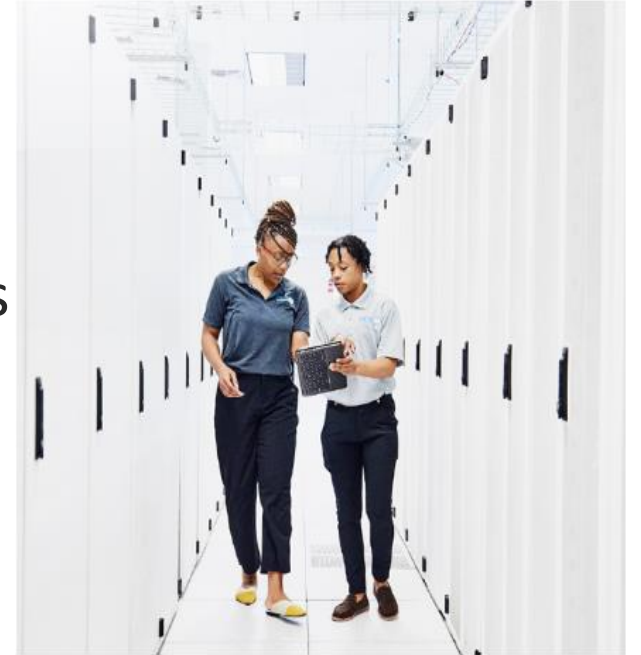
Unified View

- The U.V is an integrated platform which monitors I.T. infrastructure and presents the data on a clear, user friendly, easy to use and informative single view

- Powered by Sightline's Enterprise Data Manager (EDM), the U.V is focused on the Unisys ecosystem and can be easily expanded to include other I.T. infrastructure

- The U.V approach provides visibility into metrics of concern from every discrete area of the included systems, while permitting the individual systems to perform their specialized functions efficiently and effectively

Unified View

Objective and Technology

02

Unified View Objective

- Recognising that Systems of Record (ClearPath Forward) are at the heart of your business processes, the objective is:

  ➢ To provide the ability to monitor, correlate, plan and alert on how well your systems are functioning from the core to the periphery

    - This includes:
      - o Core Processing - ClearPath Metrics
      - o Transactional interfaces (e.g. ePortal)
      - o Data publishing (e.g. Data Exchange)
      - o Open Systems Processing (Windows / Linux Metrics)
      - o Logs and other performance data

  ➢ To record and analyse current and prior data through a single pane of glass and a centralised data management system

    - Leveraging already installed Sightline agents and EDM

See everything clearly with Unified View

From the Core out
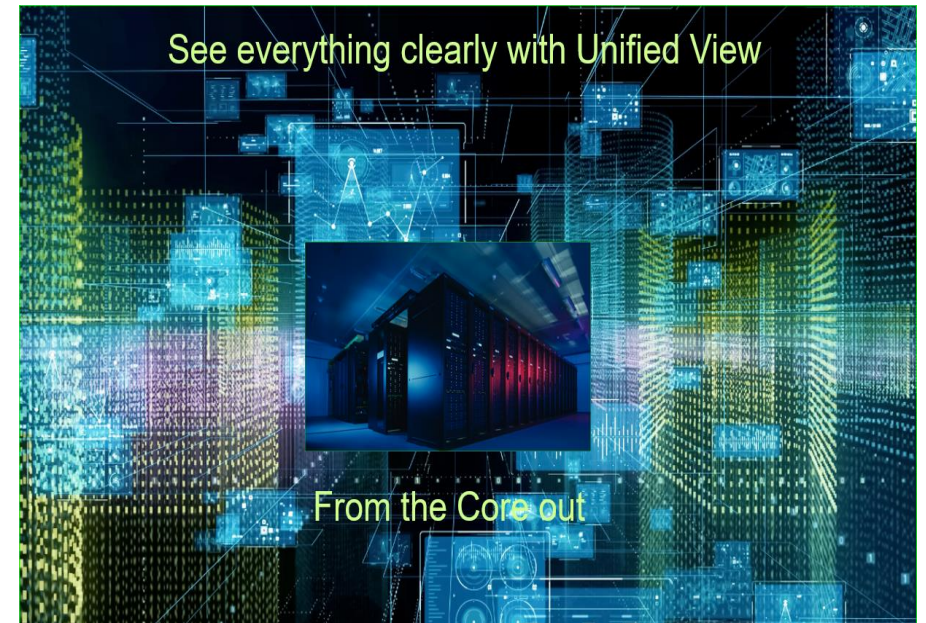
U.V Objective and Technology

Real Time, Seamless Monitoring

- Live Data Collection & Processing Power
- Collect Data from Virtually Any Source
- Automate Monitoring Activities
- Custom Dashboards to Show Status

Smart Analytics & Custom Alerts

- Machine Learning Correlates Visual Data
- Analyze & Optimize Production Efficiency
- Improves Visibility While Decreasing Costs
- Anomaly Alerts Notify the Correct Users of Any Potential Problems

Forecasting & Root Cause Analysis

- Predictive Forecasting to Make Informed Decisions for the Future Based on Past Performance Quantitative Data
- In the Event of Issues, Root Cause Analysis Limits Downtime & Predicts Upcoming Errors
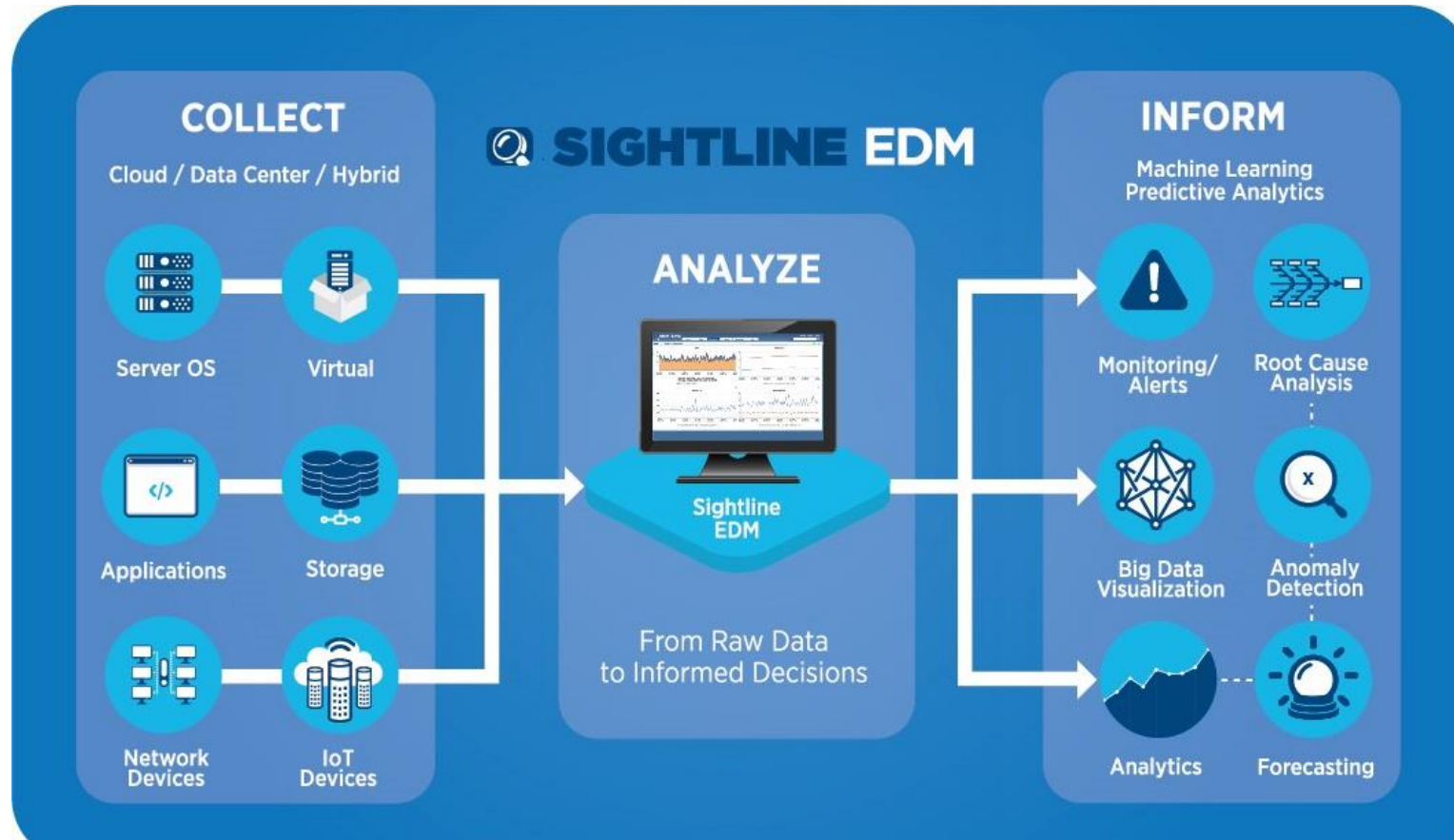
Single Pane of Glass View

- Performance data from all systems in common dashboard
- Easily view data from different systems
- Create reports showing end-to-end performance and capacity

Sightline Enterprise Data Manager

Power Agents available for all major operating systems including Unisys ClearPath OS2200, MCP, ePortal & Data Exchange Systems as well as IBM zSeries, AIX, HP-UX, Solaris, VMS, Stratus VOS, Linux, and Windows

Unified View

Data Exchange

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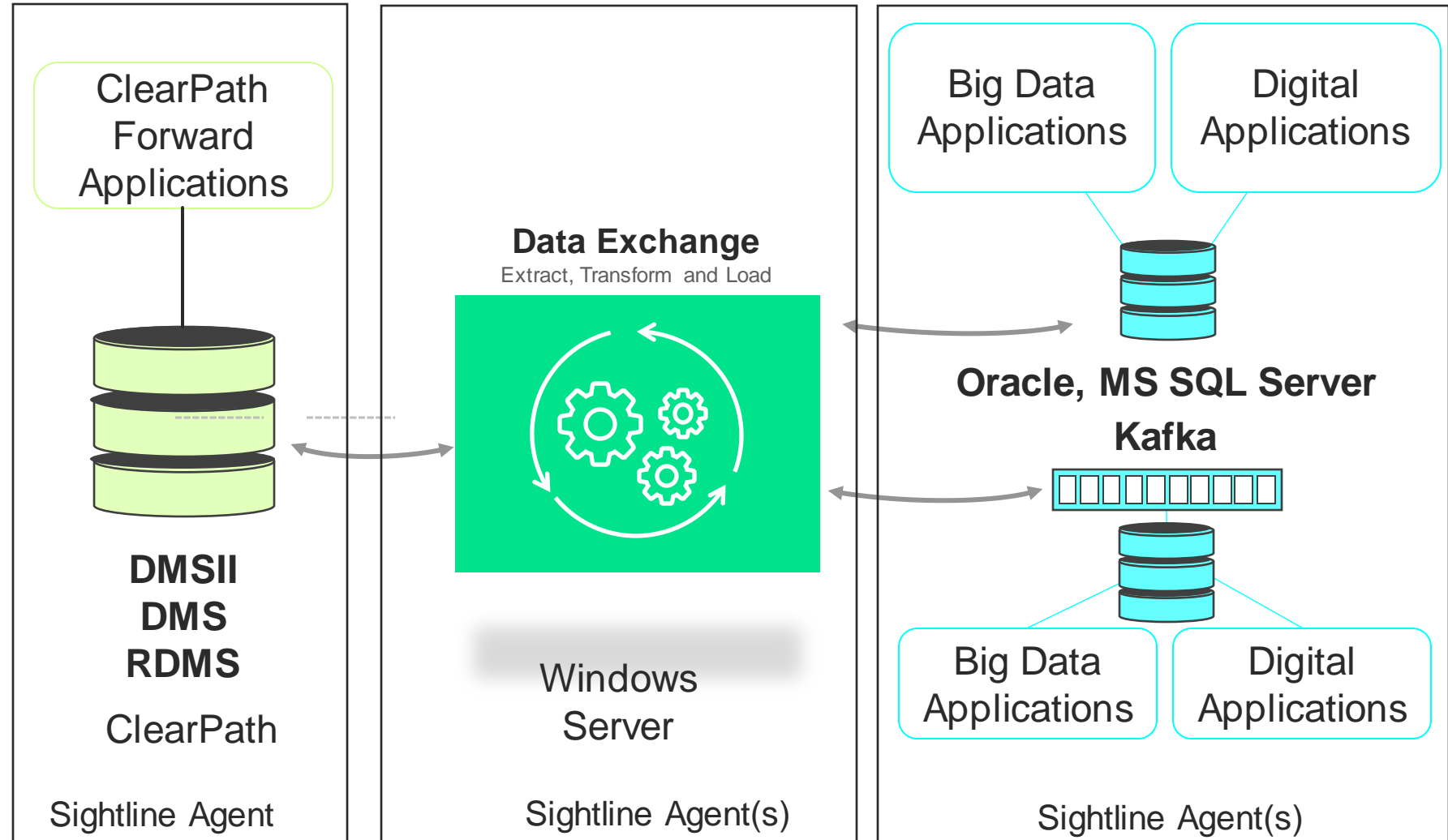# Data Exchange Environment

Bulk Data Transfer (BDT)
- Moving all the data
- Elapsed Time sensitive
- Performed periodically

Changed Data Transfer (CDT)
- Move only changed data
- Saves multiple BDTs
- Near real-time

**Data transformations**
- Restructure data
- Transform values

ClearPath Forward Applications

DMSII DMS RDMS

ClearPath

Sightline Agent

Data Exchange
Extract, Transform and Load

Windows Server

Sightline Agent(s)

Big Data Applications

Digital Applications

Oracle, MS SQL Server

Kafka

Big Data Applications

Digital Applications

Sightline Agent(s)

U.V Functionality

- U.V Captures five groups of Data Exchange Performance Data:
  - Runtime Service Reader Group
    - ✓ **Monitors data coming into Data Exchange from ClearPath (and SQL Server for MCP)**
  - Runtime Service Processor Group
    - ✓ **Monitors performance of transforming the data**
  - Runtime Service Committers Group
    - ➤ **Monitors performance of writing to the Target Database / Kafka**
  - Runtime Service TrackDB
    - ✓ **Monitors the tracking database performance**
  - Runtime Service Functions
    - ✓ **Monitors User Defined Function (UDF) performance**

Combining Data
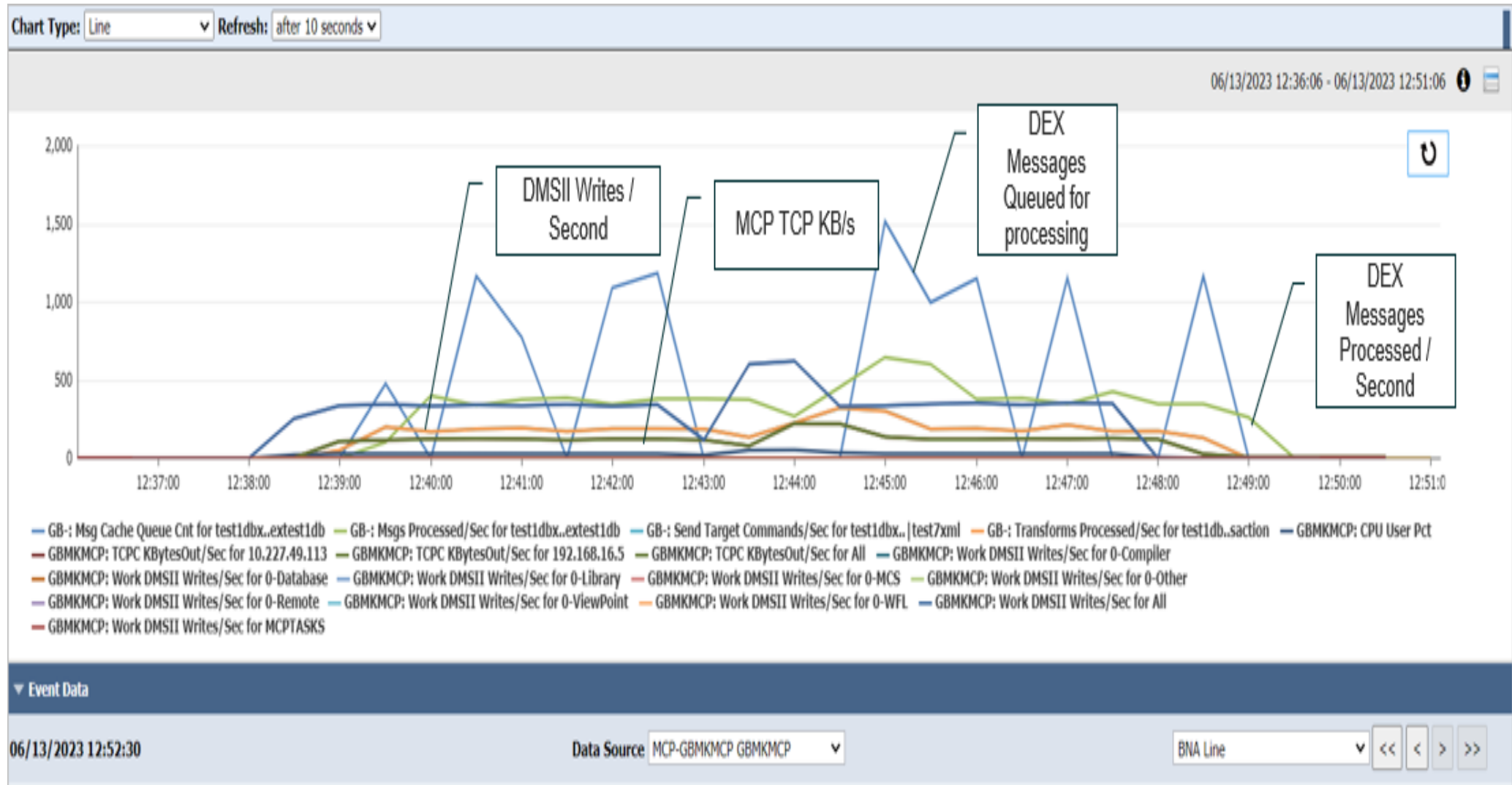
Configuration Changes
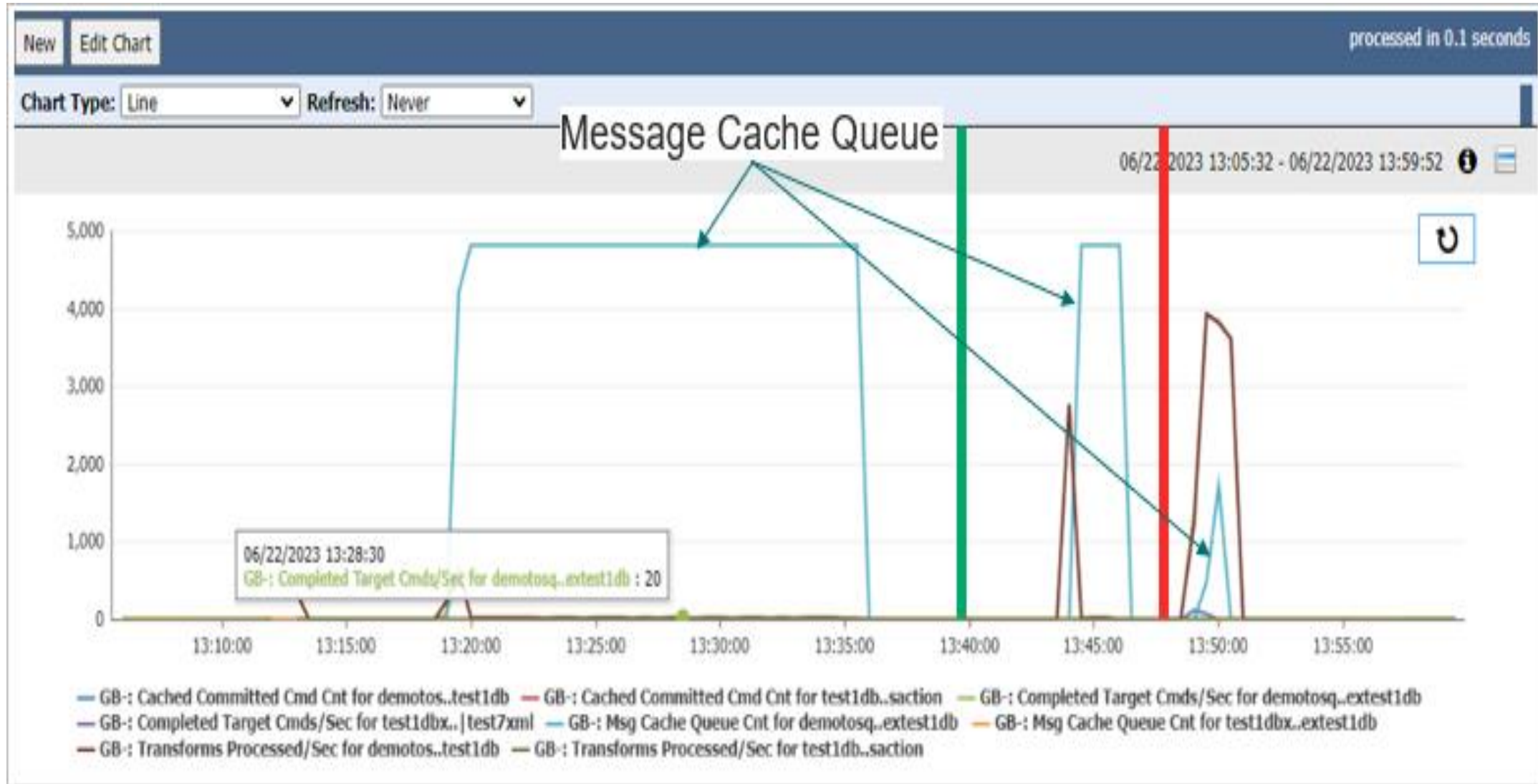
Performance SLA Alert

Delete Selected   Delete All

	Status	Alert Duration	Start Time	Last Time ▼	Alert Type	Data Source Name	Metric Name	Message
☐	🔴	1 minutes	09/19/2023 18:07:30	09/19/2023 18:08:00	User Value	Windows System	Avg Near Real Time/Milliseconds for trantosq..extest1db	Avg Near Real Time/Milliseconds for trantosq..extest1db 1055.718 >= 1000.000
☐	🔴	3 minutes	09/19/2023 18:05:00	09/19/2023 18:08:00	User Value	Windows System	Msgs Processed/Sec for tran1tox..extest1db	Msgs Processed/Sec for tran1tox..extest1db 36.366 >= 15.000

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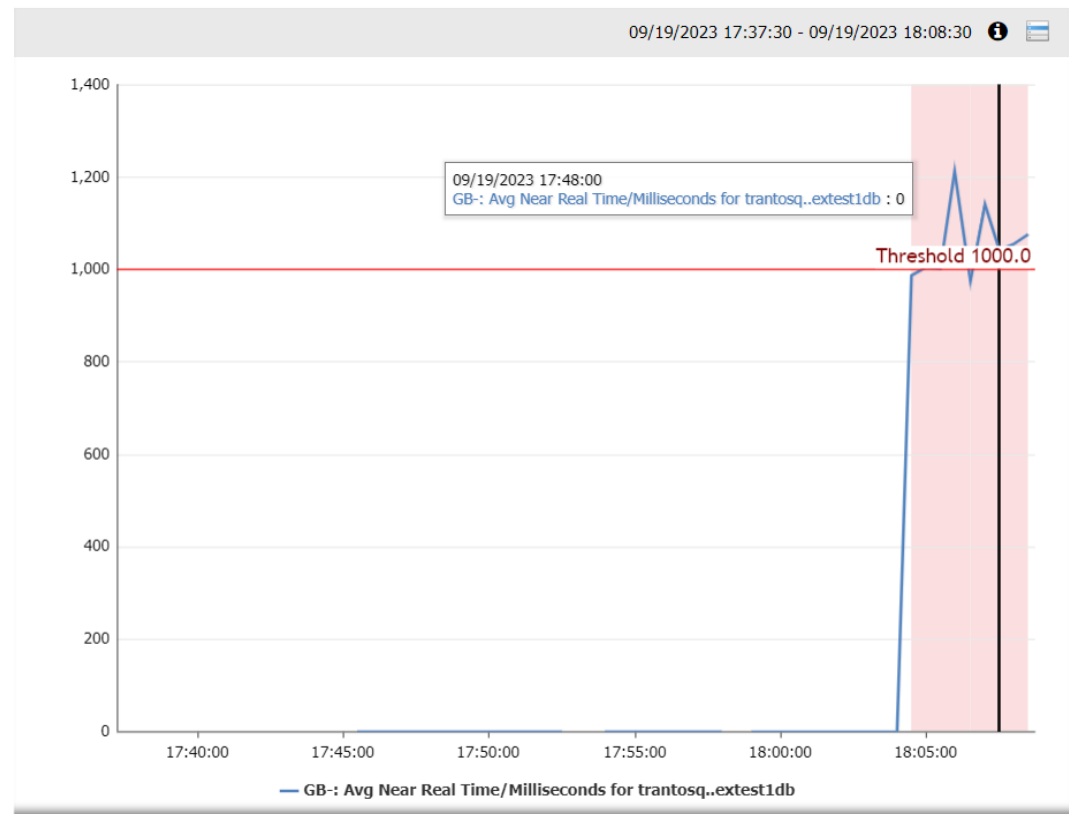
Correlating – ClearPath and Data Exchange Performance
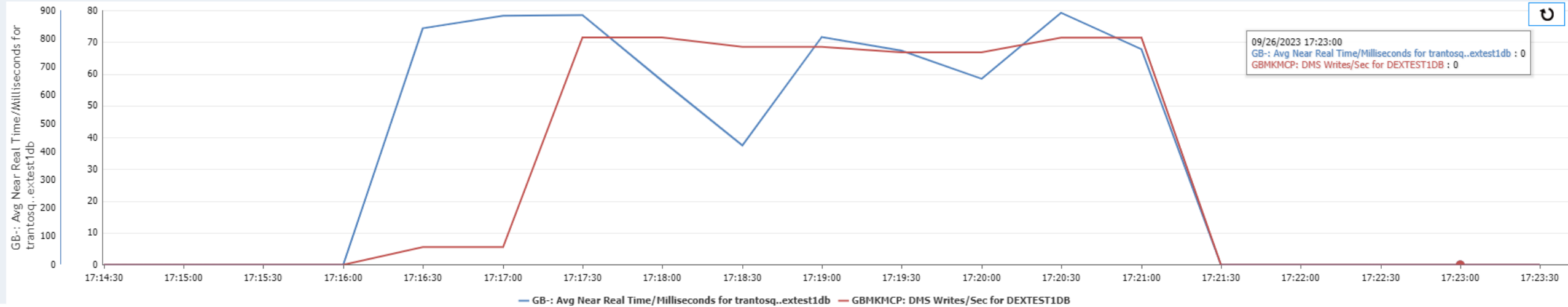
Unified View

ePortal

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ePortal Integration Scenarios

Information Sources

- T27 Terminal Screens
- UTS Terminal Screens
- MCP SDF Forms
- OS 2200 DPS Forms
- MCP COBOL/COMS
- OS 2200 COBOL/TIP
  AB Suite/EAE ISPECs
- Open DTP Views
- Open API (REST)
- Avro (Kafka)

ePortal

- Asset Capture
- Orchestration
- Presentation-Generation
- Deployment
- Management

Multi-Tiered Solution

- Web Services (RESTful, SOAP)
- Responsive Web/Mobile Web
- Outbound Services

ePortal Software Stack – Multiple Components
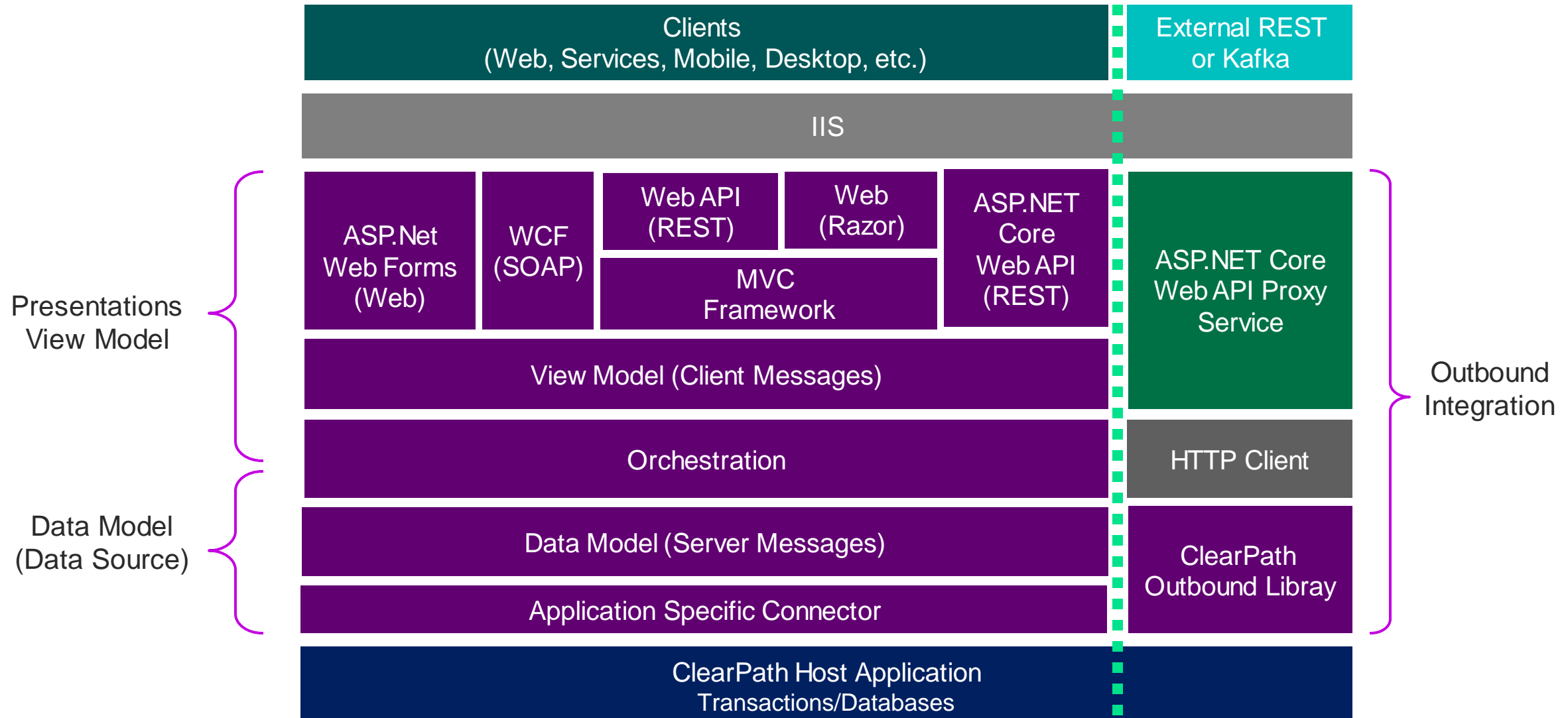
Sightline EDM Chart

ePortal Messages / Second
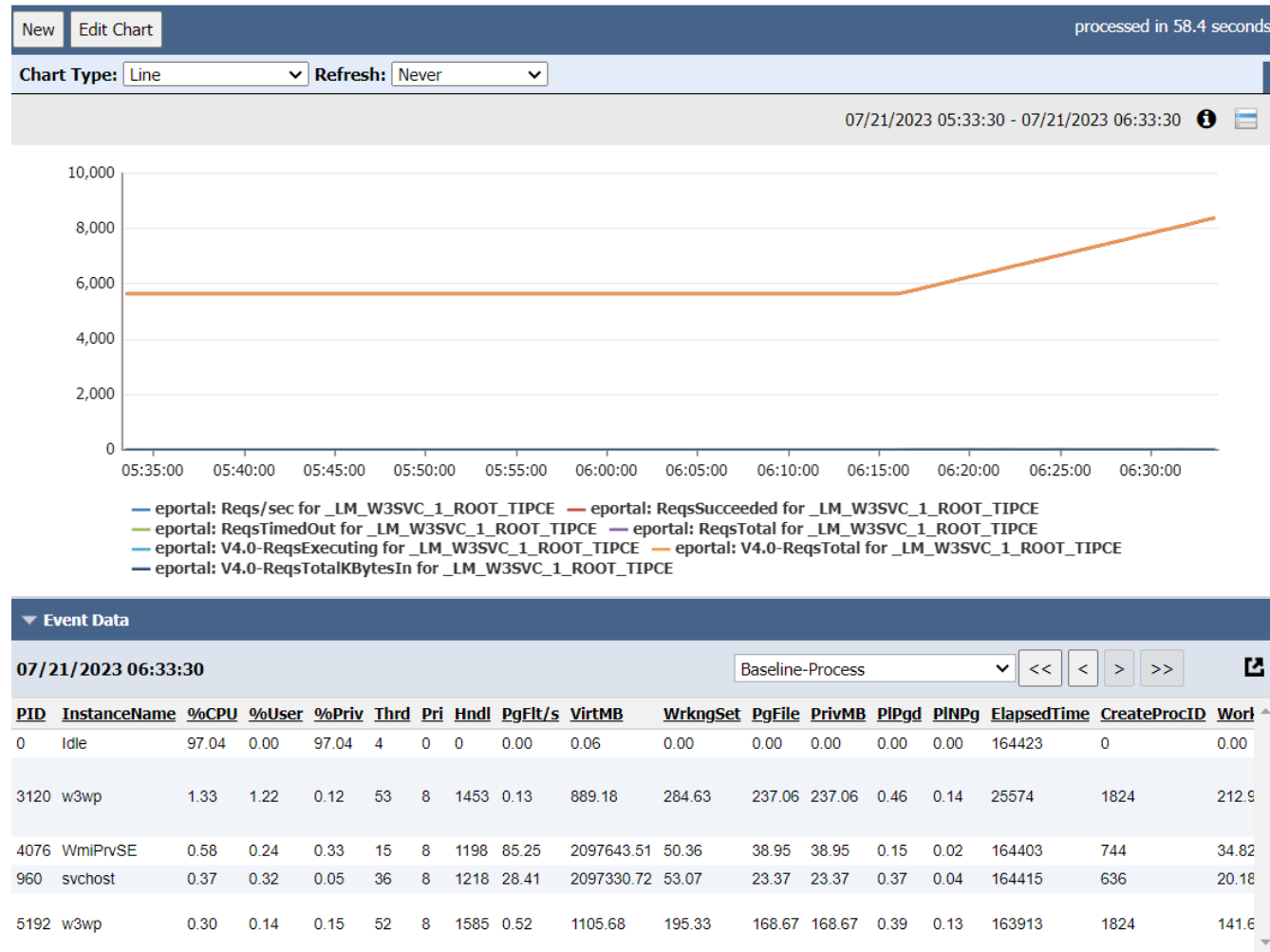
ePortal - Correlation

Unified View

Summary

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Summary

- One single pane of glass

- Real Time and Historic Data

- Ability to Collect and Display data from the entire estate

- Ability to Correlate data from the entire estate

- Ability to Alert using data from the entire estate

- Ability to Expand the view as the estate expands

- Improved simplified visualization & oversight of the entire estate

- Improved management of the entire estate
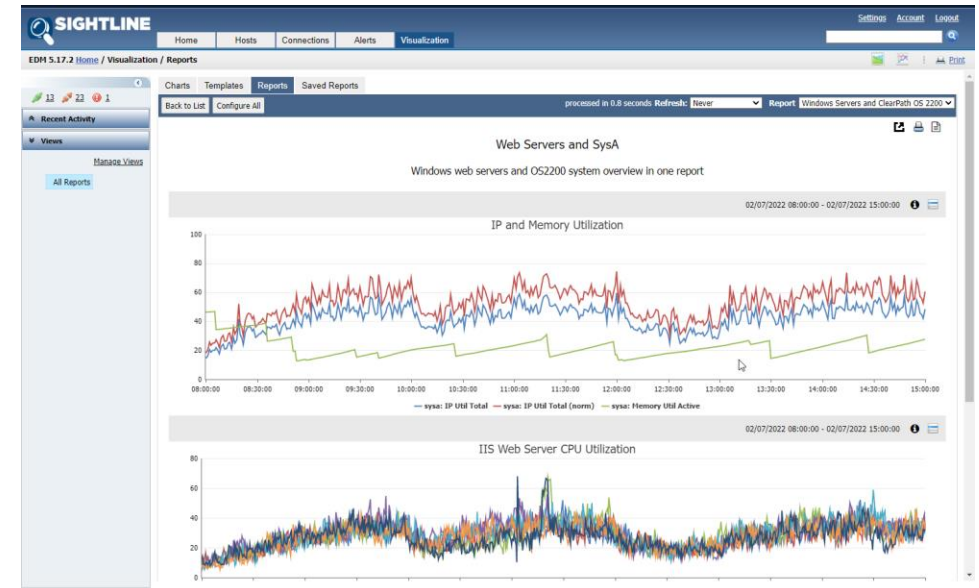
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Your Questions Please

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Thank you

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