

# OpsDataStore and AppDynamics: Ensuring Application Performance

Critical business applications provide the primary way your company interacts with your customers, prospects, suppliers, partners, and employees. As fundamental business processes transform to software interactions – the criticality of application performance increases.

## The Performance Imperative

Performance, defined as end user experience or response time, requires that application owners to understand performance at every point of the software and hardware stack. All business transactions need appropriate allocation of the underlying IT infrastructure to execute in a timely fashion. When applications have to wait on a resource to complete the transaction, response time and throughput (the amount of work accomplished) suffer. To fully optimize performance of your applications you need the following:

- Full insight into the performance of a business application across the Application/Dev-Ops life-cycle. This is “table stakes” and is addressed by AppDynamics-instrumented applications.
- Holistically visualize and analyze the performance of the application and the IT infrastructure supporting those applications and transactions, including all sources of resource-demand.

Gaps in either of the requirements listed above are highly detrimental to application performance and reliability.

## The Application Performance Visibility Gap

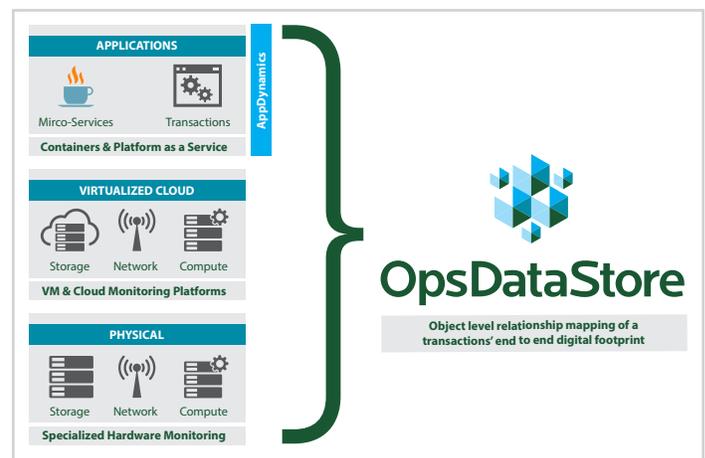
AppDynamics gives you an excellent picture of the performance (response time) and throughput (number of transactions per second) of each of your critical business transactions across the tiers that comprise your applications. But today, transactions run in very dynamic and virtualized environments and your applications share resources with other workloads that are not always monitored by AppDynamics. To address this challenge and to remove your visibility gap, you need a comprehensive way to visualize the performance of the underlying physical host, network, and storage layers.

## OpsDataStore: The End-to-End Performance Analytics Solution

In a typical “stack” at a large enterprise, the infrastructure is virtualized across the compute, networking, and storage layers. To improve troubleshooting ability and to remove visibility gaps, you must monitor the entire hardware and software stack that supports each transaction.

**How do you monitor an application stack that dynamically shifts workloads to form new relationships with the underlying infrastructure?**

It appears that the same functionality that promises improved host and application performance causes an unintended consequence of making your monitoring nearly impossible unless you have a monitoring platform that can map your “stack” in real-time.



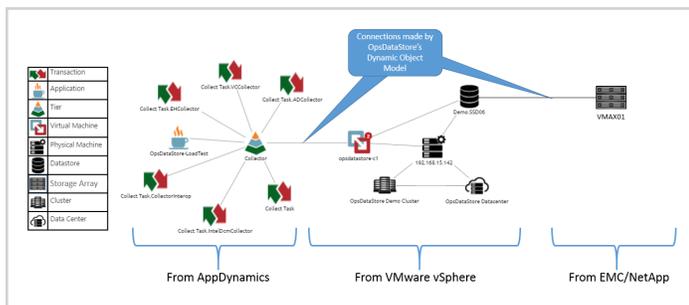
OpsDataStore collects metrics across the entire transaction

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To complement the real-time reporting and analytics already provided in Tableau, OpsDataStore customers can also build their own real time analytics in other BI tools like Tableau, Qlik, PowerBI, SAS, etc.

## Visualizing the End-to-End Relationships

In addition to storing the relationships in an easily accessible analytical datastore, OpsDataStore makes it easy to visualize any topology at any point in time. Below, a set of transactions monitored by AppDynamics has been selected. Acting as a near “real-time CMDB”, OpsDataStore automatically visualizes the entire topology from the VMware virtual and physical layers to the physical back end storage arrays from EMC and NetApp.



AppDynamics Transaction

## Automatic Anomaly Detection And “Pair-Wise” Anomaly Detection

OpsDataStore calculates baselines over time across these related topologies. This enables easy to consume and highly informative visualizations like the Service Level Dashboard. This dashboard shows the response time of the key transactions for the AppDynamics monitored application, and then automatically finds the related virtual and physical infrastructure hosting those transactions.

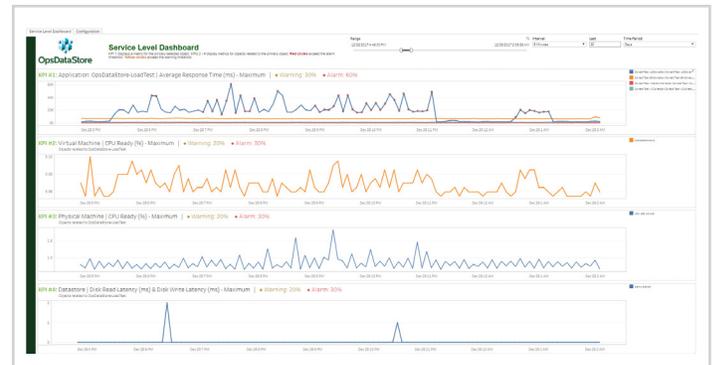
Our “pair-wise” anomaly detection empowers you to build a combined metric and get an alert when two conditions have exceeded their baselines. With this added ability you can dramatically improve your root cause determinations.

LEARN MORE ABOUT OPSDATASTORE'S REAL-TIME PLATFORM:  
[WWW.OPSDATASTORE.COM](http://WWW.OPSDATASTORE.COM)

## Visualization Across The Stack

Whenever one of the line graphs crosses its baseline a red dot depicts an alarm condition. Because OpsDataStore provides a complete view of your application stack and related infrastructure, business and application owners can see a complete view of their application topology.

Further, OpsDataStore provides trending and reporting on the key performance metrics you need to ensure reliability. OpsDataStore generates reports using Tableau which makes it easy to modify and share reports with team members.



Dynamic Service Level Dashboard

OpsDataStore enables you to:

- Share a Service Level Dashboard with business teams to show application performance.
- View of your entire application stack in context to improve troubleshooting and root cause analysis.
- Quickly spot problems and take corrective action before a service interruption impacts users.
- “Sweat” the infrastructure, save money, and ensure business-critical transactions are not being impacted.



[sales@opsdatastore.com](mailto:sales@opsdatastore.com)  
[www.opsdatastore.com](http://www.opsdatastore.com)

