



One view. Multiple domains. Integrated reporting.

HPE Operations Bridge Reporter

Overview

IT departments frequently struggle to gain a holistic view of the availability and performance of their IT environment, especially when it comes to linking the performance of business services to the underlying infrastructure elements that support them. Often the performance and availability data for the infrastructure elements is captured by a variety of tools and products that monitor the IT infrastructure. Added to the “Internet of Things” and the sheer number of devices that are connected these days, it’s a daunting task to manage the data they generate and quickly examine trends in particular across multiple domains that interact and can influence business targets.

The HPE Operations Bridge integrates 3rd party domain tools to provide operations teams with a single pane of glass to handle events and performance data in real time, helping operators find root cause and prioritize actions on the most impactful incidents.

The job of serving the business optimally requires the means to store and analyze IT monitoring data from all layers, then judge if IT infrastructure is correctly allocated, gain visibility to perform capacity planning and forecasting, and planning of production rollout. These are all common IT tasks that require an effective solution to govern report creation and publication across multiple roles and responsibilities. Reporting on a technology domain, such as server or network performance, is straightforward. Generating cross-domain and consolidated reports that bring together data from all of the technologies that contribute to business service performance and availability is much more difficult.

The HPE Operations Bridge solution includes the OpsBridge Reporter (OBR) which addresses this challenge by providing cross-domain reporting of the availability and performance metrics across the IT infrastructure domains. HPE Operations Bridge Reporter enables reporting of vital services and applications or groups defined in different IT monitoring tools from which it pulls the data based on custom groups defined in OBR.

Challenges of IT business service reporting in traditional to hybrid cloud environments

Lack of visibility into operational and performance data across multiple domains

Many different infrastructure elements must work in concert to provide satisfactory performance of a business service delivered through traditional or cloud methods. However, organizations often deploy domain specific monitoring solutions to address the requirements of different domains such as systems, networks, storage, and applications. Consolidating and reconciling the performance and availability metrics from these various monitoring tools is a complex and time-consuming task, which means that it is often overlooked in many busy IT organizations.

Limited value derived from valuable data impacts the ability to accurately analyze the historical behavior of the IT infrastructure and plan for future changes. Maintaining business service levels is more complex, and staff need a simple and efficient capability to report on the metrics across all of the technology domains in a single pane of glass.

Understanding how IT infrastructure performance impacts business services shouldn't be guesswork

Consolidating the data and metrics from the various technology domain monitoring tools is essential, but it is only the first step if the goal is to gather strategic insight into the overall performance of the IT environment and make changes necessary to improve business service levels. Linking the IT infrastructure to the business services that depend on it is difficult enough, but it becomes even more challenging in dynamic environments—such as virtualized clusters—where the relationships between the hardware in the IT infrastructure and the business services are a moving target.

IT needs a reporting tool that dynamically tracks the relationships between the IT infrastructure and the business services.

Obtaining customizable, on-demand reports without having to go through a steep learning curve

User requirements change with time and context. Reporting of IT business service performance is not a static function, and as the IT infrastructure and business services flex and adapt, consumers want the ability to quickly slice and dice the data so that they can view “just the stuff I want to see, just the way I want to see it.”

Whether rolling up detailed metrics summaries or drilling down to specifics from higher-level trends, the users need a reporting solution that provides flexible and simple report customization.

The HPE Operations Bridge Reporter solution

HPE Operations Bridge Reporter is a solution based on Big Data technology HPE Vertica, and has been built to specifically address the challenges of reporting in dynamic IT environments. In addition to consolidating performance data and metrics from multiple domain-focused collectors, HPE Operations Bridge Reporter also collects and collates specific information regarding the relationships between IT elements and business services.

By concurrently performing the collection and collation of both types of information, HPE Operations Bridge Reporter enables viewing of the data from a number of valuable and unique perspectives:

- Across infrastructure elements residing in multiple technology domains—particularly important when physical and virtual resources combine to support delivery of business services
- In the context of the business services that the infrastructure elements support—clearly showing how the infrastructure impacts business service levels
- In a consistent manner, irrespective of changes in the relationships between the IT infrastructure and the business
- Services—enabling dependable reporting in flexible or dynamic environments such as virtualization or clusters

HPE Operations Bridge Reporter provides a complete and cost-effective solution out of the box. HPE Operations Bridge Reporter provides sophisticated data collection and aggregation coupled with industry-leading report definition and generation capabilities.

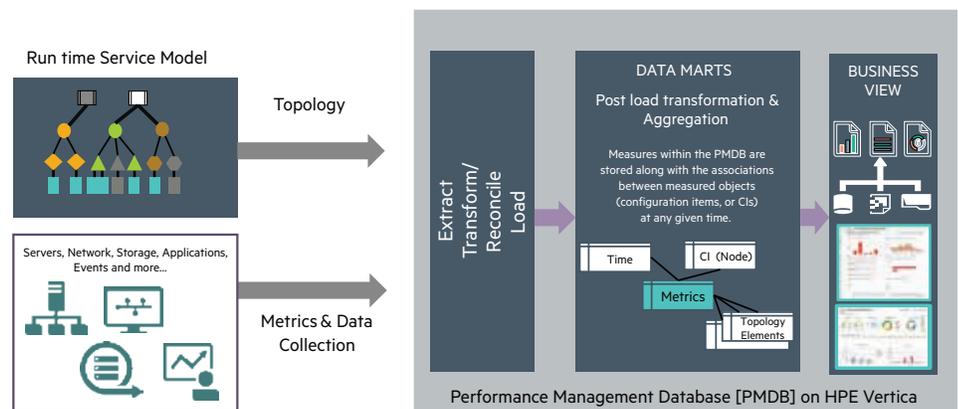


Figure 1. HPE Operations Bridge Reporter integrates with other products in the HPE Automate and Orchestrate Operations Software portfolio and the Run-time Service Model to provide business service-driven cross-domain reports

Figure 1 depicts, from an architectural standpoint, how HPE Operations Bridge Reporter provides an easy-to-install, comprehensive, and consolidated cross-domain reporting solution.

HPE Operations Bridge Reporter is an integral part of the HPE Operations Bridge solution

HPE Operations Bridge Reporter is built specifically to deliver comprehensive, long-term, and customizable cross-domain reporting for HPE Automate and Orchestrate solutions.

HPE Operations Bridge Reporter integrates out of the box with a number of products in the HPE Software portfolio:

- The Run-time Service Model (RTSM) within the HPE Operations Bridge Solution provides information about collection data sources and dynamically updates topology information that describes how the IT infrastructure relates to the business services. This enables reports to show the latest and most accurate associations between business services and their supporting infrastructure—even in dynamic virtualized environments.
- Metrics are gathered and consolidated from HPE agent-based and agentless solutions.
- Real user response times, performance and availability provide greater insights into real user experiences of a business service.
- Metrics gathered from HPE Business Process Monitor provide both performance availability of application and services from an end-user perspective or Synthetic monitoring perspective.
- Node bank information from HPE Operations Manager can be utilized as a source of topology information.
- Event-processing data showing incident handling patterns and details from HPE Operations Manager and HPE Operations Manager i can be consumed and reported.
- Network Devices and Interfaces performance are captured by HPE's leading network monitoring solution NNM Performance SPI.
- Operational Reporting for Audit compliance, Patch Compliance and Server Inventory from metrics gathered from HPE Server Automation

As HPE Operations Bridge Reporter collects and consolidates metrics from various data sources, it also captures the context of the objects from the RTSM. This context defines how the monitored object relates to other monitored objects and the business services that rely on the IT infrastructure. The composite data—metrics plus business service context—is saved in the HPE Operations Bridge Reporter Performance Management Database hosted on HPE Vertica. The PMDB is designed to provide for long-term data retention and aggregation.

HPE Operations Bridge Reporter provides a library of out-of-the-box reports that can be cross-launched in the context of business services.

The reporting engine leverages the reporting framework of SAP Business Objects for presenting reports in a clear and consistent manner.

HPE OBR enables your IT staff to gain end-to-end visibility of the cross-domain IT infrastructure performance within your IT environment. This improved visibility, coupled with the unique top-down business perspectives provided by HPE OBR, increases operational efficiency by identifying problem areas quickly, understanding their business impact more accurately, and removing the guesswork from resource and budget allocation to address bottlenecks that could impact your business.

Why HPE Operations Bridge Reporter is right for you.

HPE Operations Bridge Reporter is the only reporting solution that brings together the rich resource utilization, application performance, and end-user response time metrics and combines them with the discovered topology of your IT environment from the HPE Run-time Service Model. This unique perspective delivers industry-leading, cross-domain IT reporting capabilities, enabling you to better control your existing IT service delivery and plan for future growth and changes.

HPE Operations Bridge Reporter, the reporting solution for HPE Operations Bridge

HPE Operations Bridge is a solution to integrate network, server, application, and business transaction monitoring, as well as 3rd party tool based operations information. It connects business services to underlying infrastructure and applications, allowing operators to prioritize responses to service outages based on business impact. This results in better quality of services at a lower cost to your business.

HPE Operations Bridge Reporter provides a comprehensive, long-term, business service-driven, and cross-domain reporting solution that exploits the performance and scalability of HPE Vertica

You can report on not only the availability and performance of the various infrastructure elements, but can also tie in all aspects of the end-user experience. The solution has out-of-the-box reports for a comprehensive cross-section of the data generation elements in the HPE Software portfolio.

Using HPE Operations Bridge Reporter provides a low total cost of ownership because of its minimal setup requirements: The product bundles reports for the major technology domains with the cross-linkages already built in.

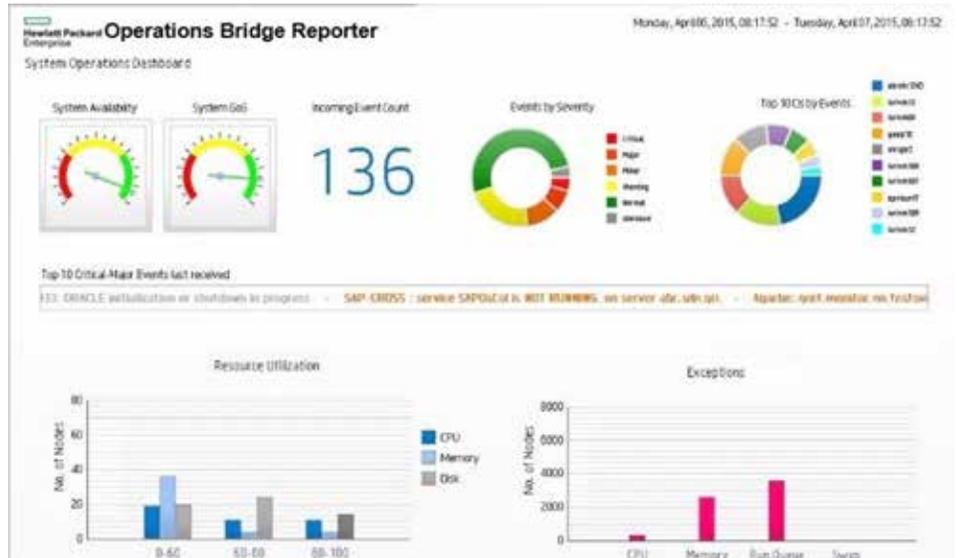


Figure 2. HPE Operations Bridge Reporter screenshot

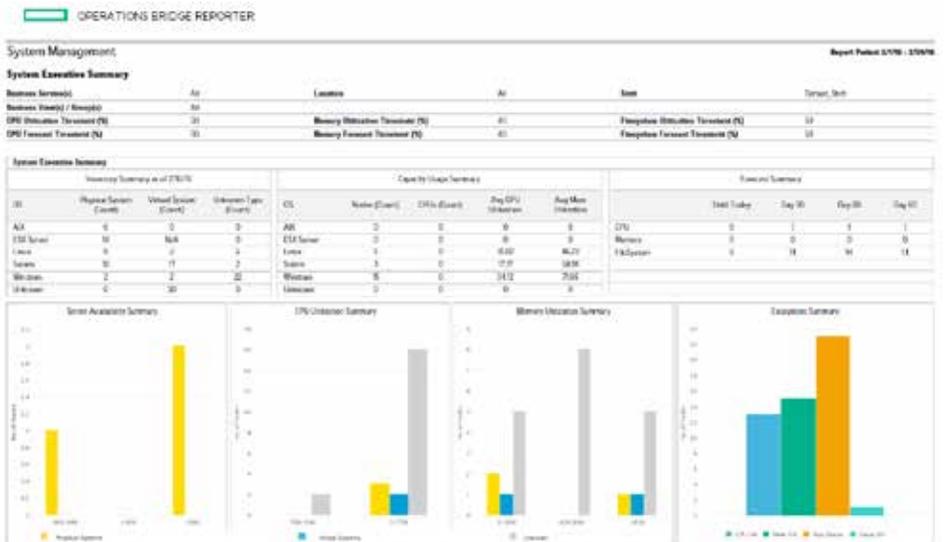


Figure 3. HPE Operations Bridge Reporter cross domain reporting for performance

HPE Operations Bridge Reporter includes:

- HPE Operations Bridge Reporter Software—This includes the data collection framework, the SAP Business Objects Universe, a high-performance PMDB for storing the collected metrics, and the out-of-the-box report content packs for systems, virtualization, enterprise applications, and business services. Also included is an entitlement to collect and report on the metrics for up to 250 nodes.
- HPE Operations Bridge Reporter—A fully customizable reporting solution with existing out-of-the-box reports and provides the ability to add to existing report contents with Operations Bridge Reporter Content Development Environment toolsets.
- Big Data technology HPE Vertica
- Additional data collection and reporting entitlements can be added to grow the solution to fit your environment

Conclusion

HPE Operations Bridge Reporter is a powerful Big Data enabled reporting technology that delivers a unique solution to the problems inherent in report generation within dynamic IT infrastructures. Unlike other reporting solutions that only deliver reports from a single domain such as physical or virtualized servers, or for an enterprise application such as Oracle or Microsoft® Exchange, HPE Operations Bridge Reporter provides comprehensive out-of-the-box reports for a wide variety of heterogeneous IT infrastructure components, applications, and virtualization technologies. In addition, HPE Operations Bridge Reporter provides cross-domain linkages from these IT infrastructure reports to the business service that they support, allowing users to quickly understand the relationship between the availability and performance metrics of the IT environment and their impact on business services. For more information, visit hpe.com/software/OBR.

A complete solution

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4AA3-0171ENW, May 2016, Rev. 3