

# Operations Bridge

Micro Focus® Operations Bridge (OpsBridge) monitors your IT environment and consolidates data from existing tools. It applies automated discovery, monitoring, analytics, and remediation to data across traditional, private, public, and multi-cloud and container-based infrastructure. It exploits Automated AIOps machine learning and analytics for event reduction and accelerated root cause identification and then executes automated remediation. Executive stakeholders gain actionable insight on their mobile devices with tailored dashboards showing key status, business and IT KPIs.

## Product Highlights

### Hybrid Cloud Monitoring for the Digital Enterprise

Hybrid IT has quickly become the new normal, and IT operations teams are expected to offer both cloud and on-premises infrastructure options, whichever best meets the needs of the application or service. IT operations teams must adapt fluidly to new technologies, effortlessly adopt new cloud vendors and other services chosen by the business, and monitor new applications and application releases with increasing frequency—while seamlessly handling updates to existing application workloads. Further, IT operations needs to be able to be a partner to the business, speak their language, and show their value to the business.

OpsBridge exploits all AIOps capabilities to consolidate and analyze all your data. It reduces event volumes, isolates root cause, performs robotized process automation to remediate and visualizes in real time in a single pane of glass. It allows you to improve efficiencies and is designed using new technologies such as containers and microservices. OpsBridge is now easier to implement and upgrade, enabling you to provide flexible cloud services, and accelerate time to market for applications that will differentiate your organization.

### Deliver What the Business Needs When It Needs It

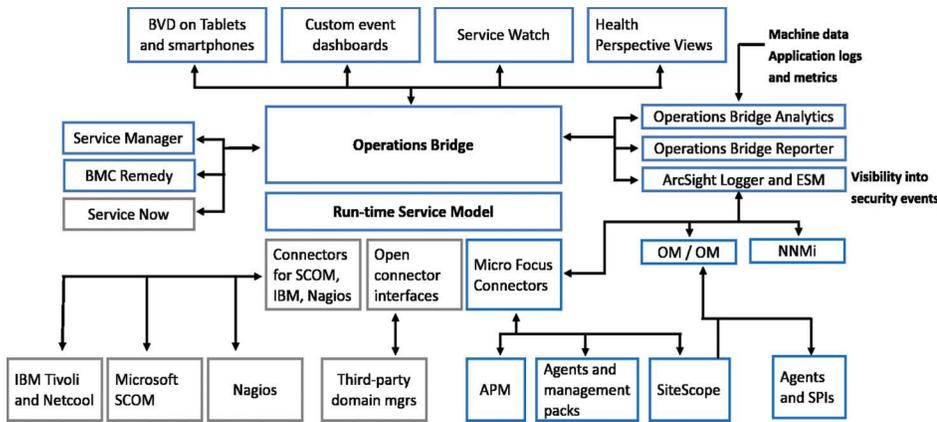
Designed to deliver real business value, OpsBridge integrates all your tools, automates manual tasks, focuses operations on the business services and users being impacted by automatically identifying root cause faster than ever before possible, predict future impact and then automate remedial action. Built in AIOps capable analytics drives historical analysis, applying machine learning and 50+ patented algorithms to logs, events, metrics, and topology so much more powerful than search alone.

### Key Benefits

- Increased effectiveness (time, money, resources) of tools and services
- Reduced effort and time to process service requests and resolve problems
- Confidence from the lines of business in IT's ability to deliver consistent, compliant services
- Business needs and strategy that are met on time and on budget, and in stronger collaboration with IT
- Reduced business risk, better service price performance, and accelerated time-to-market for new innovations

### Key Features and Benefits

- **Automate hybrid IT discovery & monitoring.** See health and impact of IT resources across private & public cloud
- **Consolidate data and reduce noise.** Across all data types from 200+ domains, feed signals to AIOps
- **Automate AIOps & robotize remediation.** Build a virtual workforce with automated remedial actions and processes
- **Analyze application health.** Automate anomaly detection and adjust to meet business SLAs
- **Customize dashboards & reporting.** Provide actionable insight in real-time for faster decisions



**Figure 1.** OpsBridge is a single consolidation console for all IT events.

## Key Features

### Automate Hybrid IT Discovery and Monitoring

Discovery and monitoring consolidates and exploits all your data types (events, metrics, logs and topology) within a dynamically updated and accurate model. It shows the impact of incidents, ensuring no new service goes overlooked with dynamic top down and bottoms up service modeling and with monitoring automation.

Aggregate all our your Hybrid IT resources into a single view with 200+ technology integrations. OpsBridge solution templates and management packs provide deep rich domain specific monitoring including: infrastructure, databases, Microsoft environments, SAP environments, middleware, cloud, big data, application platforms, automation, load balancers, and web servers (see table on page 3). The data is integrated into collect once store one technology

**Adapting to changing circumstance is a core requirement for an agile organization. That's the DevOps methodology, and OpsBridge supports it.**

(COSO), a containerized common data collection and storage for real time streaming data ingestion and processing.

### Consolidate Data and Reduce Noise

IT experts advise that application of common data ingestion and algorithmic Big Data driven analytics to all your data is the key to improving service excellence.

OpsBridge includes analytics and is based on 50+ patents for high-speed, high-volume data analysis. Automated log, metric, and event analysis, plus anomaly detection, proactively alerts operators to abnormal activity and uncovers the most relevant insights from hundreds of millions of records to help your team better prioritize. With "time machine" replay, which correlates disparate data over any time period and in relation with topology graphs, users can visualize with ease when the problem started and find the offending resource.

To enhance your control of virtualized resources and dynamically changing workloads, OpsBridge proposes optimized recipes of your resources. This gives you the ability to visualize resources, forecast their allocation impact, and master costs to set the right level of service.

### Automate Alops

OpsBridge incorporates all 11 AIOps capabilities, from agent-based intelligence and real-time performance analytics to multi-mode stream-based and topology-based correlation of event streams over time and across dependencies.

### Robotize Processes and Remediation

With more than 5,000 runbooks to choose from, including hundreds of out-of-the-box integrations to popular IT Service Management tools, OpsBridge simplifies and accelerates automation of tasks such as remedial actions, notifications, and recovery procedures. Orchestration of complex and conditional execution and rollback provides the means to strengthen compliance, remove manual errors, and develop Robotic Process Automation (RPA) to slash costs and drive compliance, releasing rare resources for more important business priorities.

Adapting to changing circumstance is a core requirement for an agile organization. That's the DevOps methodology, and OpsBridge supports it with:

- A dynamically updating model that reflects the deployment of new application and infrastructure instances, automatically activating the required monitoring.
- Robotized features for ChatOps-based collaboration across teams and tools such as SiteScope, OpsBridge Reporter and Operations Orchestration
- Automated tasks that are used to capture and share vital production information to the extended teams, as well as activating alternative configurations to keep your business on track.

### Analyze Application Health

OpsBridge provides probes dispersed across the world, to measure service quality, control SLAs, and application health. That data is also fed to COSO, processed by the AIOps based analytics, and shown in reports and dashboards.

## Customize Dashboards and Reporting

The Business Value Dashboard (BVD) can exploit all the status and KPI data at your disposal to provide a TV-like, live channel of business and IT news that the BVD “paints” onto a tablet or any other device with a browser. BVD software can display online information—such as internet news feeds, live programs, and streaming videos—in views developed using popular office

tools. BVD can consume historical data stored in COSO, preprocessing and analyzing that data before it is displayed for lightweight reporting. BVD-in-3 provides 3 quick and easy steps to configure tailored dashboards in minutes.

OpsBridge Performance Engine and BVD provide highly scalable, real-time performance collection, analysis and graphing for hundreds of

metrics and consume data from COSO. You can build and combine different metrics and IT status information into powerful dashboards that can be easily and quickly tailored into domain or contextually-specific dashboard mashups.

## Learn More At

Visit: [www.microfocus.com/OpsBridge](http://www.microfocus.com/OpsBridge)

OpsBridge blog: [tiny.cc/opsbridge-blog](http://tiny.cc/opsbridge-blog)

## Supported Technologies

**Management Packs** are domain-specific add-ons to OpsBridge that provide pre-programmed intelligence for that domain, domain specific reports and correlation rules. Full details can be found [here](#).

### Infrastructure

AIX  
CentOS  
Cluster  
Debian  
HPE-UX  
HyperV  
IBM LPAR  
KVM  
Oracle Enterprise Linux  
RedHat  
Solaris  
Solaris Zone  
SUSE  
Ubuntu  
VMware vSphere  
Windows  
XEN

### Databases

Cassandra  
Couchbase  
Apache CouchDB  
Informix  
Marklogic  
Microsoft SQL Server  
MongoDB  
MySQL  
Oracle Database  
Oracle RAC  
PostgreSQL  
Riak  
SAP Sybase ASE

### Microsoft Environments

Microsoft Active Directory  
Microsoft Azure  
Microsoft Exchange Server  
Microsoft IIS  
Microsoft SharePoint Server  
Microsoft Skype for Business

### SAP Environments

SAP  
SAP HANA

### Middleware

Apache ActiveMQ  
Apache Kafka  
Apache Tomcat  
Apache Web Server  
Glassfish  
IBM WebSphere Application Server  
iPlanet  
JBoss  
Memcached  
Oracle Weblogic Application Server  
Rabbit MQ  
Redis  
Varnish

### Cloud

Amazon Services (EC2, EBS, ECS, Dynamo DB, Beanstalk Services, AWS Service Status, RDS, ASG, ELB, SQS, RedShift, KMS, S3, AWS Billing, AWS Service Health Dashboards)  
Microsoft Azure (Azure Data Factory, Azure Data Lake, Virtual Machines, Azure SQL, Storage Account, Azure App Service Plan, Azure Web Apps, Azure Active Directory Discovery, Activity Logs, Windows Activity Logs hosted on the Azure environment, Azure Load Balancer, Multi Instance support for Storage account service)

### Cloud *continued*

Google Cloud Platform  
OpenStack  
Kubernetes

### Big Data

Apache Falcon  
Apache Flume  
Apache Oozie  
Apache Spark  
Apache Storm  
Apache Zookeeper  
Hadoop (Apache, Cloudera distributions)  
HBase  
Micro Focus Vertica Database  
Solr

### Application Platforms

Docker (certified)  
Node.js

### Automation

Chef  
Jenkins

### Generic

BIND  
DHCP  
File Change Monitor  
FTP server  
Generic SMTP  
JMX  
Microsoft .NET  
openssh  
Perfmon  
SNMP

### Load Balancer

HAProxy  
Nginx

### Partner

IBM AS/400  
IBM DB2  
IBM Mainframe

### Web Server

gUnicorn  
HTTP  
Lighttpd

### Others

Github  
Postfix

**Integrations** are connectors to other tools that bring in their data for display and analysis:

Ambari  
AppDynamics  
Aternity  
BMC Impact Manager  
BMC Remedy  
CA Spectrum  
Cherwell ITSM  
CollectD  
DynaTrace APM (Compuware)  
Dynatrace Data Center RUM (Do IT Wise)  
Dynatrace Data Center RUM (J9)  
Dynatrace Synthetics (Do IT Wise)  
ExtraHop Networks  
Helion Monasca  
HEP OneView  
HPE Systems Insight Manager  
IBM NetCool  
IBM Tivoli (J9)  
Micro Focus APM  
Micro Focus AppPulse Active / Mobile

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**Swiss Mobiliar decreased incidents by 58% in two years.**  
**“The CEO is looking at the Business Value Dashboard every day. We made a significant change in the perception of our IT department, now we’re on the same level as the line of business.”**

**THOMAS BAUMANN**  
 IT Performance Architect  
 Swiss Mobiliar

[www.microfocus.com](http://www.microfocus.com)

## OpsBridge Editions

Feature	Express	Premium	Ultimate
<b>Automate Hybrid IT Discovery &amp; Monitoring</b>			
Agentless Event and Performance Management	X	X	X
Web and URL Monitoring	X	X	X
Agent Based Deep Monitoring		X	X
<b>Consolidate Data and Reduce Noise</b>			
Event Automation & Reduction		X	X
Service Impact & KPI Assessment		X	X
<b>Automate AIOps &amp; Robotize Remediation</b>			
Topology Based Event Correlation			X
Flexible Runbook Remediation and Orchestration			X
Predictive & Anomaly Detection			X
Capacity Analytics and Optimization			X
Operational Discovery			X
Enterprise ChatBot	X	X	X
<b>Analyze Application Health</b>			
Synthetic End User Experience Monitoring	X	X	X
SaaS Application Monitoring	X	X	X
<b>Customize Dashboards &amp; Reporting</b>			
Business Value Dashboards		X	X
Standard Server Reporting		X	X
Advanced Cross Domain Reporting			X
<b>ITOM Platform</b>			
Container Deployment		X	
ChatOps Integration	X	X	X

## Supported Technologies continued

Micro Focus ArcSight Logger / ESM  
 Micro Focus AppManager  
 Micro Focus Network Node Manager i (NNMi)  
 Micro Focus Operations Manager for UNIX  
 Micro Focus Operations Manager for Windows  
 Micro Focus Service Manager  
 Micro Focus Universal CMDB  
 Microsoft SCOM  
 Nagios  
 New Relic  
 Nutanix  
 Oracle Enterprise Manager  
 Propel Service Exchange  
 RemedyForce / Salesforce  
 SAP Solution Manager  
 Service Anywhere  
 ServiceNow (AppLink)  
 ServiceNow (Do IT WISE)  
 Solarwinds Network Performance Monitor  
 Solarwinds Server and Application Monitor  
 Splunk  
 VMware vCenter Operations Manager  
 VMware vRealize Operations (VROPS)  
 xMatters  
 Zabbix  
 Zenoss