HP Service Health Reporter 9.30

Handbook of Reports



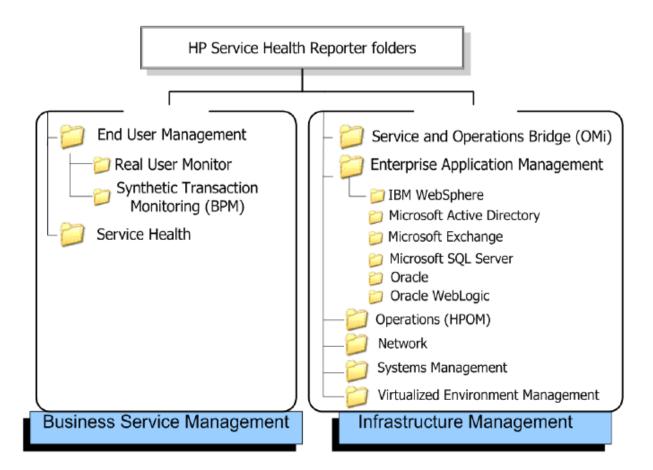
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Introduction

This document provides an overview of all the reports available in HP Service Health Reporter (SHR), which are divided into two broad categories:

- Business Service Management
- Infrastructure Management

The following image shows the supported list of reports folders under both these categories:



Business Service Management

The Business Service Management category contains reports on end-user monitoring, both real time and simulated. It also has reports that indicate the health of a service based on the status of associated KPIs and His.

Real User Monitor (RUM)

The RUM reports use the historical data collected from the Profile database and provide both end-user and system-initiated network traffic data between client machines and servers. The reports also display data about the end-user groups and server sessions, the performance of the business applications accessed by the end-user groups, and the errors encountered over a period of time.

Report Group	Report Name	Description
Executive Summary	RUM Application Infrastructure	Displays the application summary information such as
,	Forecast	response time, server time, network time, and session
		counts for the selected business application and the
		infrastructure usage of the node hosting the business
		application over a period of 30 days. This report also
		forecasts the CPU, memory, and file system usage by the
		business application for the next 30, 60, and 90 days.
	RUM Application Infrastructure	Provides statistical and graphical information about
	Summary	resource utilization (CPU, memory) of the node on which
		the business application is running, and the availability
		and response times of the selected business applications.
		This is a cross-domain report that displays System
		Performance data for the RUM monitored systems that are
		hosting the business applications.
	RUM Application Session	Displays a list of the top five and bottom five business
	Summary	applications with the highest and lowest session events
		based on the historical data collected from RUM.
	RUM Application Top N	Displays a list of the top and bottom N Business
	Infrastructure Usage	Application with the best and worst response times
		respectively, based on the historical real data collected
		from RUM. The number of applications to be displayed
		can be provided as input to the report. This is a cross-
		domain report that displays System Performance data for
		the nodes that are hosting the Business Applications.
	RUM Service Infrastructure	Provides statistical and graphical information about
	Summary	resource utilization (CPU, memory) of the node on which
		the business application is running, and the availability
		and response times of the selected business applications. It
		also displays the status of the KPIs associated with the
		selected business service. This is a cross-domain report
		that displays Business service health for the selected
		business service along with System Performance data for
		the RUM monitored systems that are hosting the business
		applications.
	RUM Top N Nodes	Displays a list of the top N nodes based on the number of
		bytes handled by the node over a specific period of time.

	RUM Network Usage	It also provides information on total requests, connections and average latency of application(s) on the nodes. The number of nodes to be displayed can be provided as an input to the report. Provides a graphical representation of the network usage
		of the business application, the number of requests and latency of the node, the traffic throughput for the applications on the node, the response time for all requests from the nodes, and the number of connections that were reset and timed out over a given period of time.
Performance Analysis	RUM Application Performance Detail	Provides a graphical view of a selected business application's performance such as response time and session count, and the resource utilization of the node over a specific period of time for the selected business applications. This is a cross-domain report that displays System Performance data for the nodes that are hosting the application.
	RUM End User Group and Location Experience	Displays a list of the top five and bottom five end-user groups and locations based on the historical synthetic and actual data collected from BPM and RUM, respectively
	RUM Top 5 Actions	Displays the top and bottom five actions based on availability, the top and bottom five software elements based on the number of hits, and the top five and bottom five nodes based on the CPU usage. This is a cross- domain report that displays System Performance metric data for the nodes that are hosting the business application.
	RUM Top 5 Broken Links	Displays the top five business applications with the highest number of broken link events generated.

Synthetic Transaction Monitoring

The Synthetic Transaction Monitoring (BPM) reports show both summarized and detailed information about the performance, availability, and status of BPM transactions.

Report Group	Report Name	Description
Executive Summary	BPM Application Summary	Provides the complete overview of the performance and availability of the selected business applications along with the performance of the transactions for these applications during the specified period of time.
	BPM Error Summary	Provides a consolidated view of all the errors that occurred for the selected business applications during the specified period of time. This report also displays the error count details for each application, business transaction flow, business transaction, location, and end-user group.
	BPM Executive Summary	Displays the response time (in milliseconds) and availability (in percentage) of all the business applications, business transaction flows, locations, and end-user groups during the specified period of time.
	BPM Top 5 Instances	Displays the top and bottom five business applications, business transaction flows, locations, and end-user groups based on either availability percentage or response time for the specified period of time.
Performance	BPM Network Analysis	Displays the network analysis for the transactions of the selected business applications during the specified period of time based on the data gathered by WebTrace.
	BPM Performance	Displays the average response time and fail count (in percentage) of the selected business applications, business transaction flows, end-user groups, and locations for the selected time period.
	BPM Transaction Analysis	Displays consolidated and in-depth information about the performance and availability of the Business Transactions (of a particular Business Application) run over the selected time period.

Service Health

The Service Health reports provide an overview of the overall health of the Business Service and the summary of the Key Performance Indicators (KPIs) for each of the configuration items (CIs).

Report Group	Report Name	Description
NA	KPI Overview	Displays the KPI status for the CIs belonging to the selected CI types for a given period of time. Additionally, it displays the KPI status, of the CI, as on the last day for which data is collected.
	Health Indicator Overview	Displays the Health Indicator (HI) status for the selected CI type over the previous month. Additionally, it displays the HI status for the previous day.
	Top N CI by KPI	Displays the top N (5,10, 15) Cls based on the highest duration, in percentage, spent in critical status for a given KPI and Business view(s)
	Top N domains by KPI	Displays the Top N (3, 5, 10) domains based on the highest duration, in percentage, spent in critical status by availability and performance KPIs of the top level CIs belonging to a domain. A domain is defined as a group of out of the box views. For example, "System Management "domain will represent the views used to get SiteScope and Operations Agent monitored nodes. The duration of availability and performance KPIs in critical status for a domain is calculated based on the top CIs in the views that belong to the domain
Service health trend	Health Indicator status over time	Displays the status of HI(s) over a period of time for selected list of CIs
	KPI status over time	Displays the status of KPI(s) over a period of time for selected list of CIs.

Infrastructure Management

The Infrastructure Management Category contains information about the IT infrastructure underlying the business services.

Enterprise Application Management

Enterprise Application Management folder contains reports related to enterprise applications like Oracle WebLogic, IBM WebSphere, Microsoft Active Directory, Microsoft Exchange Server, Microsoft SQL Server and Oracle Database.

IBM Websphere

The IBM WebSphere reports display the availability, utilization, and performance information about the IBM WebSphere servers underlying the Business Services.

Report Group	Report Name	Description
Executive Summary		Displays the top N (5,10) JEE Server instances based on
		the Java Virtual Machine (JVM) memory utilization
		percentage, Thread Pool utilization percentage, EJB
		utilization percentage,
		and JDBC utilization percentage over a selected period
	WebSphere Top N summary	of time for selected business service
		Displays the number of requests per second
		and the execution time in milliseconds, of all the servlets,
	WebSphere Servlet Performance	for a given System and JEE server, over a selected period
	Overview	of time
		Displays the number of concurrently active threads and
	WebSphere Thread Pool	the total number of threads in all thread pools for a
	Performance Overview	selected system and JEE instance
		A cross-domain report that contains system information
		about the WebSphere servers and the nodes on which
		they are running. It gives the inventory information about
		the nodes, the capacity usage, and the Grade of Service
		(GoS) summary of the nodes. It also displays the severity
		of the incoming messages from the WebSphere nodes.
		Additionally, it displays the forecast information for the
	WebSphere Executive Summary	node over the next 30 days.
Performance		Displays the number of requests per second
		and the time taken to respond to those requests for
	WebSphere Servlet Performance	servlets hosted on the selected system and JEE Server
	Details	over a selected period of time
		Displays the amount of time the selected server was up
	WebSphere Server Availability	and running, the amount of time it was down, and the
	Details	unknown time for the server present on the selected node.
	WebSphere Transaction	Displays the performance of transactions for a selected
	Performance Details	system and JEE server instance with respect to commit

	rate, rollback rate and time out rate over a selected period of time
WebSphere JVM Utilization Details	Displays the free heap space and memory utilized by the JVM of selected system and JEE server over a selected period of time.
WebSphere JDBC Pool Throughput and Wait Time Details	Displays the number of connections successfully allocated per second and the amount of time that a client had to wait for a connection from the selected JDBC connection pool during the selected period of time.
WebSphere JDBC Utilization Details	Displays the percentage of connections from the connection pool that are being used for a selected system and JEE Server instance over a selected period of time
WebSphere EJB Performance Details	Displays the number of EJB method calls made per minute, the time taken by the EJB pools (in milliseconds) to respond to the call, the percentage of times a call to retrieve an EJB from the pool failed, and the average size of the EJB pool over a selected period of time.

Microsoft Active Directory

The Microsoft Active Directory reports provide information about the data consistency across all Domain Controllers (DC), Global Catalog (GC) replication time and replication status, Flexible Single Master Operation (FSMO) role transfer status for each role master, and CPU, memory, Directory Information Tree (DIT) disk and log file disk, utilization details for all DCs.

Report Group	Report Name	Description
Executive Summary	AD Availability	Displays the availability details of the domains for the selected DCs for a given Business Service and Business
		View or node group
	FSMO Role Holder	Displays information about the success or failure of the
		FSMO role movement between different DCs over for a
		specific time period for a given Business Service and
		Business View or node group.
Performance	DC - GC Replication Delay	Displays a summary of the delay time for the replication
		between DC-to-GC servers.
	DC Capacity	Displays the CPU, memory, and log file memory capacity
		for the selected DCs running on Active Directory service,
		over selected period of time.
	DC Health	Enables to explore health of the DC by trending
		replication latency, CPU and memory usage of LSASS
		process over selected period of time.
Adhoc	AD Adhoc Comparison	Enables to compare selected DCs based on Disk Queue
		length, DIT disk space, Logfile Queue length, Logfile disk
		space and replication latency over selected period of time.

Microsoft Exchange

The Microsoft Exchange reports provide the performance details about the Edge Transport server, the Hub Transport server, the mailboxes, the public folders, the Active Directory sites on which the Edge Transport and Hub Transport servers are running, and the Exchange Site servers.

Report Group	Report Name	Description
Executive Summary	•	Displays details about the number of users and
		messages, client access details, delivery notification, and
	Exchange Site Executive Summary	SMTP utilization for a selected site.
		Provides a comparison between the number of messages
		sent and received internally and the number of bytes sent
	Exchange Source and Destination	and received externally for a selected list of exchange
	Mails Comparison	servers over selected period of time.
		Displays the list of top N (5, 10) message senders and
	Exchange Top N Mail Senders and	receivers on specified server(s) over selected period of
	Recipients	time.
		Displays the list of the top N (5, 10) mailboxes sorted by
		their size, belonging to specified server(s) or site(s) for a
	Exchange Top N MailBox	selected period of time.
		Displays the list of the top N (5, 10) public folders sorted
		by their size, belonging to specified server(s) or site(s) for
	Exchange Top N PubFolder	a selected period of time.
		Displays the database summary, the users' summary, and
		the message count summary for all the mailboxes and
		public folders belonging to specified server(s) or site(s)
	Exchange MailServer Summary	for a selected period of time.
Performance		Displays the mailbox size details and the sent and
		delivered messages details of selected mailbox(es) for a
	Exchange MailBox Details	selected period of time.
		Displays the space usage details of the mailbox and
		public folder of selected mail server(s) for a selected
	Exchange MailBox Usage	period of time.
		Displays the public folder size details and the sent and
		delivered messages details of selected public folders for a
	Exchange PubFolder Details	selected period of time.
		Displays the connection details of the SMTP server and
		the number of failed and delayed Delivery Status
	Exchange HubTransport SMTP and	Notifications (DSN) sent by the server to the sender for
	DSN Details	selected exchange server(s) over a period of time.
		Displays the number of SMTP bytes and messages sent
		and received and the total number of inbound and
	Exchange EdgeTransport SMTP	outbound SMTP connections to selected exchange
	Details	server(s) over a period of time
		Displays the number of messages in each queue of the
	Evolution Edge Transport Outer	
	Exchange EdgeTransport Queue	selected Exchange Edge Transport server(s) over a period
	Details	of time.

Microsoft SQL Server

The Microsoft SQL Server reports display the performance, health, and resource requirement information for the SQL Server databases and the instances that are running on these database servers.

Report Group	Report Name	Description
Executive Summary	•	Provides information about the key performance metrics
		of SQL Server instances and the nodes hosting them for
	MSSQL Performance Summary	selected business service(s) over a period of time.
		Provides comparative information about the top N (5,
		10) tables with the lowest available space in the selected
		node, the SQL Server instance, and the SQL Server
	MSSQL Table Space Usage Top N	database(s).
		Lists the top N (5, 10) SQL Server databases and virtual
	MSSQL Database and Virtual Device	devices based on the free space availability for selected
	Space Usage Top N	node(s).
Performance		Provides information about the outstanding read and
	MSSQL Database Input and Output	write rates of a database instance for selected node and
	Statistics	SQL Server instance over a period of time.
		Provides a summary of the transaction details for
	MSSQL Detail Server Transaction	selected node and SQL Server instance over a period of
	Summary	time.
		Displays the space utilization of a SQL Server database
	MSSQL Database Space Usage	for selected node and SQL Server instance over a period
	Details	of time.
		Displays the aggregated amount of space used by a
	MSSQL Database Table Space	tablespace on selected node, SQL Server instance, and
	Usage Details	database over a period of time.
		Provides information about the space utilized by virtual
	MSSQL Virtual Device Space Usage	devices running on selected node and SQL Server
	Details	instance over a period of time.
		Provides information about the user connections to a
		database instance for selected node and SQL Server
	MSSQL Users Connection Summary	instance over a period of time.
		Provides a summary of the database locks usage by a
		SQL Server database for selected node and SQL Server
	MSSQL Database Locks Summary	instance over a period of time.
		Provides information about the key database
	MSSQL Database Performance	performance metrics for selected node and SQL Server
	Summary	instance over period of time.
		Provides information about the availability of the
		database instances that are running on selected node
	MSSQL Instance Availability Details	over a period of time.

Oracle

The Oracle reports display performance, health, and resource requirement information for the Oracle database servers that are available in an IT environment and the instances running on these database servers.

Report Group	Report Name	Description
Executive Summary		Displays the availability and memory pressure of Oracle
		instances for a given business service. It also graphs the
		average memory and CPU utilization of nodes that host
	Oracle Executive Summary	the Oracle instances.
		Displays the top and bottom 10 Oracle tablespaces
		based on the available free space and the tablespace
		input or output. It also displays the top and bottom 10
	Database Oracle Top 10 Instances	Oracle instances based on their up time and the free
	and Tablespaces	space available.
		Displays the five busiest Oracle instances and the five
	Database Oracle Top 5 instances	Oracle instances that are facing the highest performance
	Load and Efficiency	problems for selected business service.
Performance		Displays the availability of specified instance that is
	Oracle Instance Availability detail	running on selected node for a given time period.
	Oracle Instance Space Utilization	Displays the total amount of space used by all the Oracle
	Details	instances that are running on selected Oracle node(s).
		Displays the aggregated amount of space for the selected
	Oracle TableSpace Space	tablespaces running on instances of specific Oracle
	Utilization Detail	node.
		Displays the average tablespace utilization for the
	Oracle TableSpace Detail	selected instance running on specified node.
		Displays the disk sort and memory sort rates for the
		selected instance that is running on a selected Oracle
	Oracle Disk and Memory Sort Detail	node.
		Displays the health and performance of the Oracle
	Shared Pool and Cached	shared pool and cache for the selected instance running
	Performance Detail	on a specific Oracle node.
		Displays the performance of the extents and segments
		available for the selected instance that are running on a
	Database Oracle Segment Detail	specific Oracle node.
		Displays the archive device utilization for the selected
	Database Oracle Archive Device	instance that is running on the selected node and
	detail	instance.
		Displays the SQL performances of the specific instances
		running on a selected Oracle node. One can use the
		report to analyze the SQL performance for each instance
	Database Oracle SQL Performance	and preserve SQL efficiency for varying transaction
	Detail	loads.

Oracle WebLogic

The Oracle WebLogic reports provide information on the processes, health, and availability of the Oracle WebLogic servers underlying the Business Service.

Report Group	Report Name	Description
Executive Summary		Displays the number of requests per second
		and the execution time in milliseconds, of all the servlets,
	WebLogic Servlet Performance	for a given System and JEE server, over a selected period
	Summary	of time
		Displays the lists of the top N (5, 10) systems based on
		JVM memory utilization percentage, Execute Queue wait
	WebLogic Top N Summary	count, JDBC wait count, and EJB wait rate.
		Displays the top five and the bottom five JDBC connection
		pools based on the average delay time, leak rate,
	WebLogic JDBC Connection Pool	average utilization percentage, and the average
	Summary	throughput rate.
		A cross-domain report that contains system information
		about the WebLogic servers and the nodes on which they
		are running. It gives the inventory information about the
		nodes, the capacity usage, and the GoS summary of the
		nodes. It also gives the severity of the incoming messages
		from the WebLogic nodes. Additionally, it displays the
		number of weblogic nodes that may run out of CPU,
	WebLogic Executive Summary	memory, filesystem space in the next 30 days.
Performance		Displays the number of messages and bytes passing
		through the JMS server per second, and the percentage
		of JMS server filled by these messages and bytes for
	WebLogic JMS Performance Details	selected JMS Server(s).
		Displays the percentage of used EJBs in the cache. This
		report displays the average and the maximum values of
		the cache hit percentage for selected WebLogic
	WebLogic EJB Cache Hit	instance(s) over a selected period of time.
		Displays the free heap space and memory utilized by the
		JVM of selected node and JEE server over a selected
	WebLogic JVM Utilization	period of time.
		Displays the amount of time the selected server was up
		and running, the amount of time it was down, and the
	WebLogic Server Availability Details	unknown time for the server present on selected node(s).
		Displays the number of transactions processed per
	WebLogic Transaction Performance	second and the average commit time taken for each
	Details	transaction for selected node(s).

Network

The Network reports provide an overview of the performance trend of systems and network devices from the context of a business service, and help one analyze the health of the monitored network devices.

Report Group	Report Name	Description
Executive Summary	Network and System Node Inventory	Provides an inventory of all the network and system nodes organized according to location and performance over the specified period of time. This is a cross-domain report that displays network data collected from the NNM iSPI for Performance and Network Performance Server (NPS) and resource utilization information of the nodes available in the System Management reports.
	Network Device Performance Summary	Provides a summarized view of the performance trend of systems and network devices for the selected time period. Using this report, one can analyze the nodes that exceed the performance baseline value for selected measures.
	Network Forecast Summary	Displays the current CPU and memory utilization (average and maximum) for the network nodes and the forecasted utilization for the next 30, 60, and 90 days. It also displays the current and the forecasted utilization in and out, error rates, and discard rates for the network interfaces for the next 30, 60, 90 days.
	Network Node Baseline Quick View	Displays the baseline trends including the upper and lower limits of different network-specific measures, such as CPU, memory, backplane, buffer, and so on, for the different groups of network nodes in an IT environment over a specific period of time.
	Network Node Exception Summary	Displays a trend of the baseline exception counts and the exception rates for the different network-specific measures for a group of network nodes during the specified period of time. This report also displays exception details at the node level.
	Network Node Health by Group	Provides a graphical representation of the network device distribution based on resource utilization, exception rate, error and discard rates, and availability for all network node groups that support the selected business service, business view, or node group. This report also displays the resource utilization details of each network node in the selected group.
	Top 10 Network Nodes and Systems by Performance	Displays the top 10 network and system nodes based on their performance over the specified period of time. This is a cross-domain report that displays network data collected from the Network Performance Server (NPS) and resource utilization information of the nodes available in the System Management reports.
	Top N Network Nodes and Interfaces	Displays the top five and top 10 network nodes and interfaces based on specific network baseline metrics for the selected time period.

Operations (HPOM)

The HPOM reports provide detailed information about the messages sent to the management console of a particular HPOM management server. They help in analyzing the message trends based on their severity and resolution time so that one can proactively resolve the underlying bottlenecks before they impact the performance of a business service.

Report Group	Report Name	Description
NA	HPOM Message Details	Displays the details about the messages, such as the active and acknowledged message counts, the age of the messages, and the resolution time, that are sent to the console of each HP Operations Manager (HPOM) management server that is configured during the specified period of time.
	HPOM Message Trend and Responsiveness	Displays the total number of messages that are sent to the console of each HPOM management server and the amount of time taken to acknowledge them during the specified period of time.
	HPOM Operator Details	Displays operator-wise details about the messages, such as the message counts and message resolution times, sent to the console across all HPOM management servers that are configured for specified period of time.
	HPOM Service log	Displays the amount of time for which the selected service was in different states (of severity).
	HPOM Top 10 Active Message	Displays a list of applications, services, nodes, and node groups that have the highest number of active messages across all management servers that are configured for a specified period of time. More number of active messages means that the application, service, node, or node group has problems and requires attention.

Service and Operations Bridge (OMi)

The OMi reports provide information about the events generated by HP Operations Manager (HPOM).

Report Group	Report Name	Description
NA	OMi Event Summary	Displays the overall events summary and event
		duration summary for all Cls. The report displays data
		collected during the last 30 days of the specified date.
	OMi Event Distribution Executive	Displays the summary of the event distribution by
	Summary	application, Event Type Indicator (ETI), and CI type for
		specified time period.
	TOP N Cls by events	Displays the Top N (5,10, 15) Cls based on incoming
		events and critical events in the context of the selected
		business view(s)
	Top N Domains by events	Displays the Top N (5,10, 15) domains based on
		incoming events and critical events. A domain is defined
		as a group of out of the box views. For example, "System
		Management "domain will represent the views used to
		get SiteScope and Operations Agent and monitored
		nodes. The incoming and critical events are calculated
		based on the Top CIs in the views that belong to the
		domain
	OMi Event Backlog overload	Displays the Top N (5,10) groups based on high backlog
	correlation by User Groups	overload. Backlog overload is defined as the percentage
		of events whose "time to own" is twice the average "time
		to own", for an event, in a group.
Detail Events	OMi Event assignment by User	Displays the summary of the events assigned for each of
	Groups	the user groups for specified time period.
	OMi Event assignment by Users	Displays the summary of the events assigned for each of
		the users for specified time period.
	OMi Event Summary by Cl	Displays the overall event count, event categorization,
		event severity categorization, and event duration based
		on the events raised for the selected CIs.
	OMi Event Summary by ETI	Displays the overall event count, event categorization,
		event severity categorization, and event duration based
		on the ETI.
		You must install the ETL content pack for ServiceHealth to
		see data in this report. SHR verifies if an ETI is a Health
		Indicator and if the K_HI dimension table is populated
		before the report is generated.
Event Trend	OMi Event distribution over time	Displays the event count details and the distribution
		details of the events for a CI. It also shows the graph of
		events based on the amount of time taken to
		acknowledge, resolve, and close the events.

System Management

The System Management reports help to anticipate resource problems in IT environment before they become serious. The reports display historical information about the performance and availability of key system resources which helps in analyzing the actions that were taken to resolve issues in the past. From higher level executive reports, one can navigate to detailed reports to analyze the root cause of problems.

Report Group	Report Name	Description
Executive Summary	SM Executive Summary	Displays inventory, summary of present and forecasted capacity and usage data of system resources, along with the availability, GoS, and exceptions in systems for a given Business Service and Business view or node group
	SM Heat Chart	Enables to identify systems that have crossed the threshold values defined for CPU utilization, memory utilization, physical disk I/O rate, and network I/O rate for a given Business Service and Business View or node group
	SM System Availability Summary	Displays the availability details of the nodes for the selected period of time. The table lists the values of average uptime and downtime percentages and also the total uptime and downtime in hours. This report also displays the availability heat chart for all the nodes with which one can identify those nodes that cross the availability thresholds.
	SM System Exception by Group	Enables to view the number of exceptions in each of the defined node groups for a given time period
	SM System Forecast Summary	Provides a summary of the current CPU and memory utilization (average and 90th percentile) of all the monitored physical systems and virtual hosts in an IT environment. It also displays the projected CPU and memory utilization of the physical systems and the virtual hosts for next 30, 60, and 90 days. The report displays the forecasted information in both graphical and tabular formats.
	SM System Grade of Service by Group	Displays the grade of service (GoS) for a group of nodes based on the resource utilization of that group. One can compare the GoS across different groups and also drill down to view GoS of every node of a group.
	SM System Inventory	Displays the overall information and values of key resources for the systems in a Business Service and Business View or node group.
	SM System Resource Outage Forecast Summary	Displays the systems that are projected to cross the 100 percent threshold value for CPU and memory utilization within the next 30, 60 and 90 days, for a given Business Service and Business View or node group.
	SM Top and Bottom 5 Systems	Displays the top five systems based on the average availability, and the average and 90th percentile of the

		CPU utilization or memory utilization over the selected period of time.
Performance		
	SM System Availability Detail	Displays the uptime, downtime, and availability percentages for the selected nodes over the specified period of time.
	SM System Exception Detail	Displays the threshold values and the threshold breaches in the resource utilization, such as CPU, memory, run queue, swap, and memory page out rates, for each of the selected system(s) for the specified period of time.
	SM System Grade of Service Detail	Displays the GoS for the selected nodes based on its resource utilization, such as CPU, memory, run queue, and swap utilization, for the specified period of time.
	SM System Usage Detail	Provides a graphical representation of the CPU, memory, network I/O rate, and disk I/O rate utilization for each of the selected nodes over the specified period of time.

Virtualized Environment Management

The Virtualized Environment Management reports display the performance data about the virtual machines (VMs), and physical systems hosting the virtual machines, installed in an IT environment.

Report Group	Report Name	Description
Executive Summary	SM Virtualization Host Inventory	Displays the key measures of the physical nodes such as operating system, model, processor architecture, CPU speed, and the number of CPUs, disks, and network interface cards used, and the number of logical systems running on them.
	SM Virtualization Logical System Inventory	Displays the inventory details of the logical systems hosted on each physical node in an IT environment. The report display a summary of the physical node which includes the node operating system, the node model, the CPU speed, the number of CPUs, the physical memory, and the virtualization technology used. For each node, the report display all the logical systems hosted on that node along with the VM operating system, state of the VM, the number of disks and LAN that is allocated, and the maximum and minimum entitled CPU and memory.
	SM Virtualization Logical Systems performance summary	Provides a graphical representation of the performance details such as CPU and memory utilization of all the selected logical systems over the specified period of time. This report helps to compare the CPU utilization of the physical node to that of the logical system. It also displays the availability trend of the logical system during the specified period of time.
	SM Virtualization Resource outage forecast summary	Displays the physical systems that are projected to cross the 100 percent threshold value for CPU and memory utilization within the next 30, 60 and 90 days, for a given Business Service and Business View or node group. It also displays the virtual machines that are hosted on the affected physical systems
	SM Virtualization Top and Bottom N Logical Systems	Displays the top and bottom N (5, 10, 20) logical systems based on the selected measure such as CPU utilization, memory utilization, availability and hypervisor type, for a given business service and Business View or node group.
	SM Virtualization Top and Bottom N Nodes	Displays the top and bottom N (5, 10, 20) physical systems, that host logical systems, based on the selected measure such as CPU and memory utilization and OS type, for a given business service and Business View or node group.
	SM Virtualization Virtual Infrastructure Inventory	Provides a graphical representation of the inventory details, such as the number of hosts and VMs, the number of logical system based on the operating system type, and resources allocation for the various virtualization technologies in an IT environment. This report also displays the total number of hosts, count and density of the

		VMs, total number of CPU, and the percentage of unreserved CPU for each virtualization technology.
Performance	SM Virtualization Logical System Performance Details	Displays the availability, the CPU utilization, and the entitled memory utilization of the selected VM for the specified period of time.
VMware	SM Virtualization VMware cluster detail inventory	Displays the inventory details such as CPU and memory capacity, CPU and memory limits, CPU and memory reservation, number of disks, number of network interfaces, and so on, of the ESX nodes, the resource pools, and the logical systems in a selected cluster.
	SM Virtualization VMware ESX Server detail inventory	Displays the inventory details such as CPU and memory limits, CPU and memory reservation, number of disks, number of network interfaces, number of virtual CPUs, CPU shares, and so on, of the logical systems and the resource pools for the selected nodes.
	SM Virtualization VMware inventory	Displays the summarized inventory details of the VMware cluster and non-clustered ESX nodes. The inventory details include CPU speed, CPU and memory capacity, number of nodes and logical systems, VM density, number of CPU cores, number of disks, number of network interfaces, and so on.
	SM Virtualization VMware logical system CPU bottleneck details	Displays the CPU utilization and CPU cycles used by the selected logical systems over the specified period of time. Using this information, one can identify the CPU bottlenecks in the logical systems.
	SM Virtualization VMware logical system memory bottleneck details	Displays the average utilization for the entitled memory and physical memory of the selected logical systems. The report shows the comparison of the average memory swap in, swap out, and overhead. It also shows the comparison of the utilization percentage of the average entitled memory and average physical memory.
	SM Virtualization VMware Top and Bottom N ESX Servers	Displays the top and bottom N(5, 10, 15, 20) ESX Servers based on the selected measure such as CPU utilization, memory utilization, net I/O rate, and swap utilization for given business service and Business View or node group.
	SM Virtualization VMware Top and Bottom N Logical systems	Displays the top and bottom N (5, 10, 15, 20) logical systems, hosted on ESX Servers, based on selected measure such as such as active memory, CPU and memory utilization, CPU ready time, and unavailability for a given business service and Business View or node group.

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