

SAS Environment Manager Service Architecture Report Center Bundled Reports

Category	Report Name	Description
ACM Reports	Disk IO Per File Mount	Cumulative disk IO (reads + writes) for each platform and each platform mount point
	Disk Service Time	Disk service time (ms) for each file mount point (not available on all OS's)
	File Mounts Resource Usage Report	Summary report of file mount resource metrics including Capacity, Use Pct, Disk Queue, Disk Service Time, Disk Reads, and Disk Writes
	HTTP Response Time	HTTP server availability and response time check of select web applications. Review emi-framework/Conf/httpChecks.json file for active list of monitored web applications
	IOM Server Call Activity	SAS Application Server call activity per SAS Application Context
	IOM Server Client Activity	SAS Application Server client activity over time including Current, Current Pending, Current Waiting, and Current Running.
	IOM Server Summary Report	Summary report of SAS Application Server consumption metrics including number of Current Clients, Waiting Clients, Time in Calls, Total number of Calls and Total Clients serviced.
	IOM Total Calls vs Time in Calls	Two axis coorelation plot of SAS Application Server Total Calls vs Time In Calls over time
	Metadata Server Total Clients per Minute	SAS Metadata Server Total Client Connections over time
	Network Interface IO	Cumulative network IO (bits in + bits out) for each platform and ech platform network connection
	Platform CPU Usage Breakdown	Processor CPU usage time spent in user-mode aggregated with processor CPU time spent in the OS kernal running system calls. The cumulative is an approximation of total CPU Usage
	Platform Memory Usage vs Swap by Platform	Two axis coorelation plot of platform PCT free memory vs platform pages swapped out. Low PCT memory and high swap suggests physical memory constraint
	Platform Metrics Summary Report	Summary report of select platform resource metrics including CPU, memory, swap, TCP, and NFS
	Stored Process Server CPU and User Time	Aggerate of SAS Application Server CPU time spent in user-mode and in system (kernal mode) by work shift
	WIP Database Size	WIP Database Size by data base
	WebApp Free Heap Memory Status	Daily tc server web application Heap Memory free average.
	WebApp Memory Usage	tc Server web applications Heap Memory state (Free, Used, Max, and Committed) over time
	WebApp Metric Summary Report	Summary report of tc Servers resource usage including Heap Memory (Free, Used, Committed, and Max), Time in Garbage Collection, number of Deadlocks, Thread Count, and Open File Descriptors

SAS Environment Manager Service Architecture Report Center Bundled Reports

Category	Report Name	Description
	tc Server Manager Active Webapp Client Sessions	tc Server active client sessions over time by requesting web application
	tc Server Manager Logon Activity	SAS Logon web application session activity over time
APM Reports	Artifact Activity by Work Shift	Artifact activity counts, grouped by day and workshift
	Artifact Consumption Statistics (time)	ARM Performance - Artifact consumption statistics
	Data Usage	ARM Performance - Data Usage
	Directory Usage	ARM Performance - Directory usage
	OLAP Cube by User	ARM Performance - OLAP cube by user
	Proc Usage	ARM Performance - Proc usage
	Server Elapsed vs CPU	ARM Performance - Server elapsed time vs CPU usage
	Server Usage by User	ARM Performance - Server usage by user
	Top OLAP Cube Usage	Top X OLAP Cube accesses
	Top Procedure Usage	Top X Proc usages
	Top Stored Process Usage	Top X Stored processes
	User Usage	ARM Performance - User usage
	Workspace Hourly Usage	ARM Performance - Workspace usage hourly breakdown
	Workspace Memory (Top 10)	Top 10 Workspace memory users (report fixed at 10)
	Workspace Users by Session (Top 10)	Workspace Server top users by session (report fixed at 10)
	stp Avg Response Time	ARM Performance - Stored Process avg response time
	stp Runtime Duration Breakdown	ARM Performance - Stored Process runtime duration
Ad Hoc Reporting	APM Metadata Audit	APM Metadata Audit Activity Reports
	APM Metadata Inventory	Collection of Metadata Inventory and Audit Reports
	APM Resource Usage	Charts topN Procedures in use. This includes data step code and SAS procedures.
	ARM Performance	ARM Performance and Resource Usage Reports
	AccessControlDetail	Drill Down (Linked) STP providing ACT Details
	evCatChart TimeSeq Explorer	EV Charting for Multiple Analysis Variables

**SAS Environment Manager Service Architecture
Report Center Bundled Reports**

Category	Report Name	Description
	evChart TimeSeq Explorer	EV Chart 1 Analysis Variable Categorized by Specified Class Variables
	evGTile TimeSeq Explorer	EV Gtile Rectangle Heat Maps
	evReport TimeSeq Explorer	Print, Means and Tabulate Report Viewer
	evSGPlot TimeSeq Explorer	SG Plot Stored Process for various types of statistical graphics such as histograms or box whiskers plots, as well as, plot line, chart boxes, and reference lines.
	evplot1 1 Axis TimeSeq Explorer	SAS Environment Manager One Axis Plot for Time Sequence Interval Data
	evplot2 2 Axis TimeSeq Explorer	SAS Environment Manager Two Vertical Axis Plot for Time Sequence Interval Data
	evtabrpt Tabulate Explorer	EV Proc Tabulate Interface used to display descriptive statistics in tabular format.
Audit Reports (Log Forensic)	Access Activity Event Client Context	Metadata Audit - Access activity event client context
	Access Activity Event Summaries	Metadata Audit - Summary of all audit record event occurrences
	Access Activity Event Summary by User Account	Metadata Audit - Access activity summary by user account
	Access Activity Event Summary wo Connection Events	Metadata Audit - Access activity by user id, excluding connection activity
	Access Activity by User Account	Metadata Audit - Access activity by user id
	Access Control Changes	Access Control Changes
	Authentication Errors	Authentication Errors
	Group Changes	Metadata Group Changes
	Logons Not Authorized	Logons Not Authorized
	Metadata Client Activity	Metadata client activity
	Metadata Client Logon	Metadata client logon
	User Accounts Added	Users Accounts Added
	User Accounts Removed	User Accounts Removed
Chart Multiple Analysis Variable Samples	Network Interface IO	Multiple analysis variables GCHART stacked HBAR
	Pie Chart CPU Usage Profile by Platform	Multiple analysis variables GCHART displayed using chart type of PIE

SAS Environment Manager Service Architecture Report Center Bundled Reports

Category	Report Name	Description
	Pie Subgroup by Shift Grouped by Platform	Multiple analysis variables GCHART displayed using subgrouped PIE chart
	Stacked Block Chart CPU System and User by Platform	Multiple analysis variables GCHART displayed using stacked BLOCK chart
	Weekly Summary Grouped by Platform Stacked on CPU Usage	Multiple analysis variables GCHART displaying weekly summary stacked and then grouped by class variable
Chart Samples	Daily CPU Usage Averages by Platform Subgrouped by Shift	One analysis variable GCHART categorized by selected page (BY) variable, subgrouped by an additional class variable
	Daily Count of Agent Metrics Subgrouped by Shift	One analysis variable GCHART categorized by subgroup class variable
	Hourly PCT Count of Agent Metrics Subgrouped by Shift	One analysis variable PCT count GCHART, subgrouped by specified class variable
	Pie Charts Daily Process Totals	One analysis variable GCHART categorized by specified class variable, display with a PIE chart
	Top 5 Ranked on CPU Usage	One analysis variable TOPN ranked GCHART by selected class variable
	Workshift Summary Grouped by Platform	One analysis Variable GCHART GROUPED by selected class variables
Custom	Example1 Call SAS Environment Manager Macros	Listing of Active Events By Resource
	Example2 Call EV Macros with prompts	Metadata Content Grouped By Type, By Folder or Full Listing
	evCatChart TimeSeq Explorer	SAS Environment Manager Charting for Multiple Analysis Variables
	evChart TimeSeq Explorer	SAS Environment Manager Chart 1 Analysis Variable Categorized by Specified Class Variables
	evGTile TimeSeq Explorer	SAS Environment Manager Gtile Rectangle Heat Maps
	evReport TimeSeq Explorer	Print, Means and Tabulate Report Viewer
	evSGPlot TimeSeq Explorer	SG Plot Stored Process for various types of statistical graphics such as histograms or box whiskers plots, as well as, plot line, chart boxes, and reference lines.
	evplot1 1 Axis TimeSeq Explorer	SAS Environment Manager One Axis Plot for Time Sequence Interval Data
	evplot2 2 Axis TimeSeq Explorer	SAS Environment Manager Two Vertical Axis Plot for Time Sequence Interval Data

**SAS Environment Manager Service Architecture
Report Center Bundled Reports**

Category	Report Name	Description
	evtabrpt Tabulate Explorer	SAS Environment Manager PROC Tabulate Interface used to display descriptive statistics in tabular format.
Datamart	ACM Data Mart Platform Resources	Platform Resources from ACM.PLATFORMRESOURCE
	ACM Data Mart Platform Types and Instances	Types and Instances Summary from ACM.PLATFORMRESOURCE
	ACM Data Mart Server Resources	Server Summary from ACM.PLATFORMRESOURCE
	ACM Data Mart Services Resources	Services Summary from ACM.PLATFORMRESOURCE
	Alerts Enabled Listing Report	Alphabetical Listing of Active Events
	Alerts Enabled by Resource	Listing of Active Events By Resource
	All Alert Definitions	Alphabetical Listing of Alerts For All Resource Types Including Resources That Have Not Been Discovered
	Data Mart ACM Listing	Data Mart ACM Listing of Tables, Attributes and Variables
	Data Mart Artifact Listing	Data Mart Artifact Listing of Tables, Attributes and Variables
	Data Mart Proc Contents Full Listing	Data Mart Contents Listing
	Report Center Report Listings	Alphabetical listing of all SAS Environment Manager Report Center reports with descriptions
Events and Alerts	Event Summary Chart	Daily count of events by type
	Event Summary Counts	Weekly event summary totals
	Log Event Triggers (Who, Where, Why)	Summary counts of log event pattern match triggers
Listing Report Samples	Daily Resource Usage Summary	Multiple analysis variables daily summary List REPORT showing number obs (N), MEAN, and Coefficient of Variation (CV)
Metadata Inventory	Administrator Listing	Administrator listing
	Duplications	Metadata Duplications
	Groups Roles and Users	Groups Roles and Users Report
	ID Artifact Mappings by Type	Metadata ID to Artifact Mappings Grouped By Type
	Identity Report	Metadata Identity Report

**SAS Environment Manager Service Architecture
Report Center Bundled Reports**

Category	Report Name	Description
	Metadata Content	Metadata Content Grouped By Type, By Folder or Full Listing
	Metadata Security	Metadata Security via mdsecds command
	Paths	Metadata Paths Grouped By TYPE
	Portal Activity	Metadata Portal Definitions
	Server Properties	Metadata Server Definitions and Properties
Plot 1 Axis Samples	24 Hour Hourly Profile Total Processes	One axis BOXT20 distribution plot for 12 discrete hours
	24 Hour Hourly Profile Total Processes v2	One axis BOXT20 distribution plot for period 24HOUR
	24 Hour Hourly Profile Total Processes v3	One Axis SCATTER plot, averaged on 12 discrete hours
	Scatter Logarithm Scale CPU Plot	One axis GPLOT for Time Sequence Interval Data
	Scatter Plot Platform CPU Usage Average	One Axis SCATTER plot with a single class variable
	Stacked CPU System and User Time	One axis STACKED line plot of multiple analysis variables
	X Axis vs Y Axis Correlation Plot	One axis GPLOT linear correlation of two analysis variables
Plot 2 Axis Samples	Memory Usage by Platform	Two Vertical Axis GPLOT for two analysis variables
SG Plot ODS Graphic Samples	Scatter Plot with Cluster Statement and No Period Collapsing	SGPLOT one axis scatter plot for one analysis variable with one class variable collapsed by date and clustered by the date
	Scatter Plot with Multiple Analysis Variables	SGPLOT one axis scatter plot of multiple analysis variables
Service Architecture ETL Reports	ETL logfile analysis	SAS Environment Manager PROC Tabulate Interface used to display descriptive statistics in tabular format.
	Logfile analysis overview report	SAS Environment Manager PROC Tabulate Interface used to display descriptive statistics in tabular format.
	Logfile job runtime analysis	Service Architecture ETL - Job runtime distribution profile
	Proc usage summary	Service Architecture ETL - Proc usage summary
Tabulate Report Samples	Daily Resource Usage Report	TABULATE table TYPE2 used to display multiple analysis variables and thier descriptive statistics in columns across the table.

**SAS Environment Manager Service Architecture
Report Center Bundled Reports**

Category	Report Name	Description
	Datetime Crossed with Time Matrix	TABULATE table TYPE5 displaying summary counts of resource usage metrics in table columns with summarized by date for each row in the table
	Hourly Resource Consumption Report	TABULATE table TYPE2 displaying summarization of metric resources in table column for each hour with hour displayed in each row of the table
	Platform Metrics Summary Type1	TABULATE table TYPE1 row based display of selected analysis metrics with selected statistics across the table column
	Platform Metrics Summary Type2	TABULATE table TYPE2 Interface displaying row based class variable crossed with the product of selected analysis variables with selected statistics across the table
Tile Chart Samples	CPU Usage Hourly Hot Spot by Platform	Heat map GTILE with two tileby class variables
	CPU Usage by Shift	Heat map GTILE with a single, tileby class variable
	Daily TCP Attempt Failures by Platform	Heat map GTILE with single analysis variable and a single tileby class variable