

APC

In today's do-more-with-less business climate, IT organizations must manage Application Performance and Quality across the entire application life-cycle, achieve better application efficiency, and deliver higher resource utilization levels, in less time and with increasingly fewer skilled technical staff. Application Performance Tuning has traditionally been a manual and labor-intensive exercise that relies heavily on trial and error techniques and offers little guarantee of results. Automated AQM (Application Quality Management) is an advanced methodology that removes the limitations of manual Application Performance Tuning practices, produces significantly greater resource savings, and reduces the time-investment required to improve application efficiency.

APC is the most advanced automation and datamining engine on the market and serves as the foundation for an enterprise-scale Automated AQM initiative. APC automates up to 90% of the AQM process and delivers the following advantages over manual performance tuning:

- ▶ Automatically finds all concealed tuning opportunities in production
- ▶ Finds the root causes of unnecessary resource consumption
- ▶ Delivers increased CPU savings and delays expensive hardware and software upgrades
- ▶ Improves service levels and increases end-user productivity
- ▶ Frees processing resources for business growth

APC Key Features & Benefits

APC reduces manual efforts to the lowest possible degree by automating the recognition of runaway jobs, the initiation of measurements, the collection of relevant data, and the analysis of trends. Leveraging a seamless integration with the TriTune® Performance Analysis Solution, APC enables users to tune applications and system resource consumption in complex mainframe environments without the significant time investment required by manual procedures. APC can also be used in combination with STROBE®.

Automated Opportunity Discovery

APC monitors production Batch and Online applications, in real-time, across Parallel-Sysplex environments, and automatically identifies candidates warranting detailed analysis.

Automated Prioritization & Targeting

Prioritizes targets based on highest resource savings potential and automatically triggers measurements for in-depth performance analysis.

Automated Data Filtering & Analysis

APC automatically reduces performance profiles to a subset of relevant and actionable metrics enabling quicker and more productive analysis.



APC — Functionality



Automatic Application Targeting

- ▶ APC sits over the entire application environment, learning its behavior by automatically logging related SMF information each time a job step runs.
- ▶ It can then automatically see when a program begins to behave abnormally, using excessive resources as compared to its normal usage.
- ▶ It alerts itself to potential problems in this manner, invoking a measurement.

Proactive Application Measurement

APC causes TriTune® or STROBE® to capture a measurement in a variety of ways. There is no need to invoke measurements or set up queued measurements manually.

Automated Information Review and Filtering

- ▶ APC extracts key information from TriTune® or STROBE®, combines it with SMF data, and prioritizes it according to CPU time, elapsed time, SVCU, EXCP, etc.
- ▶ A Top Scope (user defined amount) is then produced to accurately portray the heaviest resource consumers overall. This helps to focus resource reclamation efforts to the areas likely to produce the largest return.

Managing Application Measurement Data

- ▶ APC captures and maintains the previous 10 runs of any given application.
- ▶ Users can further define this parameter to keep up to 18 months of historical data.
- ▶ All data can be exported into .CSV format for use in MS Excel.

Data Mining and Trend Analysis

APC aggregates individual module resource utilization to provide a cross system view of resource utilization that is not provided by any stand alone measurement facility. This allows clear validation of top tuning priorities based on usage across the application environment.

Additional Features

- ▶ Rapid and permanent access to measurement results through simple ISPF user interface.
- ▶ Easy installation across complex OS/390, z/OS, and Parallel-Sysplex environments.
- ▶ Configurable settings for unique use profiles.
- ▶ Automatically recognizes new and changed programs and triggers measurements.
- ▶ Configuration of data re-usable across Parallel-Sysplex systems.
- ▶ Data history provides quick overview on performance trends in TriTune® or STROBE® automatically when certain thresholds are exceeded by the application.

APC – Available Modules

APC for Batch

- ▶ Creates and administers performance statistics for every executed batch job and records data in a historical database for trend-analysis.
- ▶ Automatically initiates measurements on jobs that exceed average thresholds based on elapsed time, CPU, and service units consumed.
- ▶ Independently identifies resource intensive job-steps, programs, DBRMs, and subsystems.
- ▶ Filters measurement results to provide only relevant information, optimizing storage capacity, and drawing focus on opportunities.
- ▶ Promotes proactive performance management through an alert mechanism that captures runaway application tasks.
- ▶ Provides historical comparisons for tracking deviations from “normal” baselines to capture developing problems and trends.
- ▶ New Job Query Function provides efficient possibilities to retrieve information.

APC for CICS, IMS, and DB2

- ▶ Automatically executes measurements for CICS and IMS regions at fixed times for fixed intervals.
- ▶ Automatically identifies resource-intensive transactions.
- ▶ Consolidates measurement data based on analysis preferences and presents alternate perspectives.
- ▶ Instantly isolates intensive SQL statements for transactions accessing DB2.
- ▶ Displays SQL Statements in a structured format.

- ▶ Provides historical comparisons of transactions, programs, DBRMs, and PSBs, and facilitates historical trend-analysis.
- ▶ The new CICS SMF Feature provides transaction consumption data such as average values and a consumption history on a daily/weekly/monthly basis.

APC Server

- ▶ Provides just-in-time measurements of runaways (exceeding above average consumption, runtime or defined thresholds).
- ▶ Immediately processes measurement results and passes them on to TriTune® or STROBE®.
- ▶ Initiates additional measurements in the case of useless measurement results.
- ▶ Two methods of SMF data processing to choose from: Realtime or new spooling feature.

APC Performance Desktop

Unless an application’s performance can be viewed and analyzed from various perspectives, including web performance metrics, the root cause of a problem often remains hidden. The new module APC Performance Desktop provides a unique and comprehensive web-based view of application performance, for the first time bridging the gap between mainframe and web application performance analysis. APC Performance Desktop integrates TriTune®’s mainframe performance metrics with metrics from a measurement tool for the distributed world, such as CA Wily Introscope®. This unique view enables the analysis of load invoked on the mainframe by distributed applications running in front of the mainframe — previously a black box to mainframe performance specialists.

About AQM Solutions

AQM Solutions Inc. is a leading provider of Application Quality Management (AQM) software and professional services. Our mission is to help Fortune 1000 companies implement Automated AQM programs to improve application quality, performance, and IT profitability. Our customers consistently defer mainframe upgrades and reduce IT costs using TriTune, APC and APC Performance Desktop to simplify and automate the task of identifying application performance bottlenecks. Automated AQM turns application performance tuning practices into a strategic advantage. AQM Solutions Inc. is headquartered in Boston, MA and is a subsidiary of TRILOGexpert with offices in Munich, Germany and Zurich, Switzerland. For further information on TRILOGexpert please visit — www.trilogexpert.com