

## ASG-SMARTSCOPE™

An Interactive Fault Analysis Solution to Expedite Problem Determination

ASG-SmartScope minimizes the impact of production errors by taking the guesswork out of analyzing raw dump data and manually tracing symptoms back to their cause. It is a source-level analysis tool that can quickly pinpoint the cause of why a batch job or CICS transaction has ABENDED. The integration of an automated dump analysis solution must fit seamlessly and run smoothly across production systems. ASG-SmartScope was designed to perform dump capture, dump rendering and interactive dump analysis that is non-invasive, high-performance and will meet z/OS RAS guidelines for large scale systems.

Online applications are constantly being enhanced and deployed. The majority of application errors are unintentional; however, enterprises can suffer significant losses if one of their production applications becomes unavailable for any extended period of time.

ASG-SmartScope is an interactive fault analysis solution designed to provide fast, consistent capture and rendering of dump data for both batch and CICS systems. It automates the complex and error prone process of problem determination by crafting raw dump data into relevant, meaningful high-level and low-level ABEND analysis reports. ASG-SmartScope exploits classic Application Knowledge Repository™ (AKR) source language understanding to interactively merge and format dump data.

### HIGH-PERFORMANCE, SCALABLE ARCHITECTURE

ASG-SmartScope was designed to provide the most complete fault analysis solution for both the batch environment as well as multi-region CICS environments. It features a high-performance, scalable architecture that avoids system bottlenecks by performing an outside-of-task caching of dump data. The server and client components are structured for maximum operational flexibility, and the dump capture settings can be easily customized for any environment. User-defined storage rules can be applied to perform asynchronous dump data storing operations.

There are immediate interactive analysis and utility features to operate on dumped data, and the user interface dynamically adapts to dump data from different z/OS and subsystem releases. A coordinated dump analysis and elimination feature eradicates duplicate dumps. ASG-SmartScope supports increased automation of dump management tasks. It offers secure user access from VTAM or TSO/ISPF and permits additional security settings to protect sensitive dump data.



### MAIN FEATURES

- Innovative architecture provides fast, consistent capture and rendering of dump data
- Intelligent dump data analysis features make the most difficult, invisible application errors, visible
- Quick scope report and quick access menu allow application programmers to quickly pinpoint application errors
- Application Knowledge Repository™ (AKR) facilitates comprehensive source language analysis for programs written in COBOL, PL/I, C and assembler
- Merged ABEND data can be interactively formatted and viewed in native source code
- Dump analysis and elimination feature suppresses the collection of redundant faults
- Integration with the new ASG-SmartTest™ Fault Analyzer option leverages the strengths of ASG-SmartTest for rapid fault analysis
- Fault alert feature offers variety of ways to report problems to a service desk
- Dump grouping feature provide a means to store dump data using an organizational scheme appropriate to your enterprise
- Flexible dump capture, dump rendering, and dump management options offer many choices in planning a successful production implementation

## ABEND ANALYSIS REPORTS

The Quick Scope report and Quick Access menu were designed to analyze, format and present all of the evidence needed to explain the cause of a batch or CICS transaction ABEND. In most cases, application errors are pinpointed and corrective action can be taken immediately.

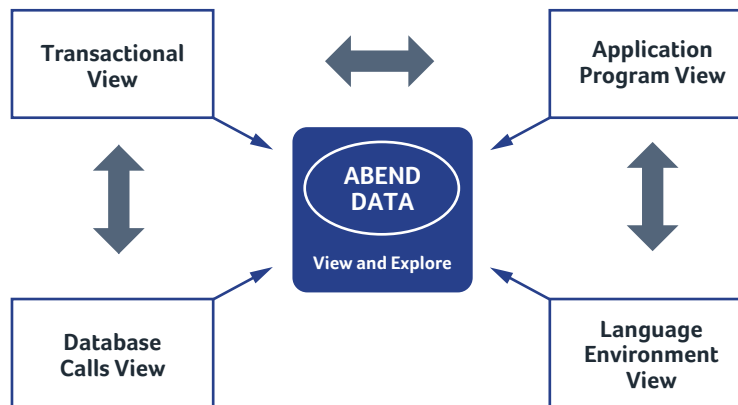
Sometimes finding the cause of an application error requires some detective work, especially when the error was not caused by a simple program check. ABEND Analysis Reports were designed and are composed of multiple views or perspectives that are essential to narrow down the wide variety of reasons for the failure. These reports include the following:

- Transaction Detail Analysis – diagnostics about the failing batch job or CICS transaction
- Program Analysis – Source-level diagnostics of application programs in CALL/LINK chain
- CICS Analysis – diagnostics and traces relevant to EXEC CICS interface and active resources used by application programs
- Database Analysis – diagnostics and call traces for DB2 and IMS database applications
- View and Explore – physical, symbolic and searching of dump data

## AN INTEGRATED APPLICATION MANAGEMENT SOLUTION

The new ASG-SmartTest™ Fault Analyzer option complements ASG-SmartScope. The ASG-SmartTest Fault Analyzer option extends the reach of ASG-SmartTest to provide a source-level dump data viewer that can quickly pinpoint the cause of program checks. Language intelligence is built into nearly every command in ASG-SmartTest. Application programmers who rely on ASG-SmartTest for interactive debugging will become immediately productive in diagnosing logic errors in the failed application.

ASG-SmartScope is also part of the ASG-Existing Systems Workbench™ (ESW®). ESW is a comprehensive, integrated suite of tools that supports legacy application maintenance throughout the application lifecycle. It helps organizations enhance, test and modernize their legacy applications. ESW-analyzed programs stored in the Application Knowledge Repository™ (AKR) allow application knowledge to be shared between the tools in the ESW Suite. ASG-SmartScope exploits the AKR to provide the most in-depth source-level analysis of dump data for programs written in COBOL, PL/I, C and Assembler.



User interface model composed of multiple views

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ASG Technologies | 1.239.435.2200 or 1.800.932.5536 | 708 Goodlette Road North, Naples, Florida USA 34102 | [www.asg.com](http://www.asg.com)

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