

CHANGEMAN ZMF

- Protects software assets
- Simplifies audit compliance
- Prevents overlays and regressions
- Enforces quality

DA OPTION

- Dump information storage, retrieval, and automatic analysis
- Production of three kinds of dumps
- Extensive “point-and- shoot” capability
- Plain English displays of failure information
- Faster diagnosis of production problems

CHANGEMAN ZMF DA OPTION

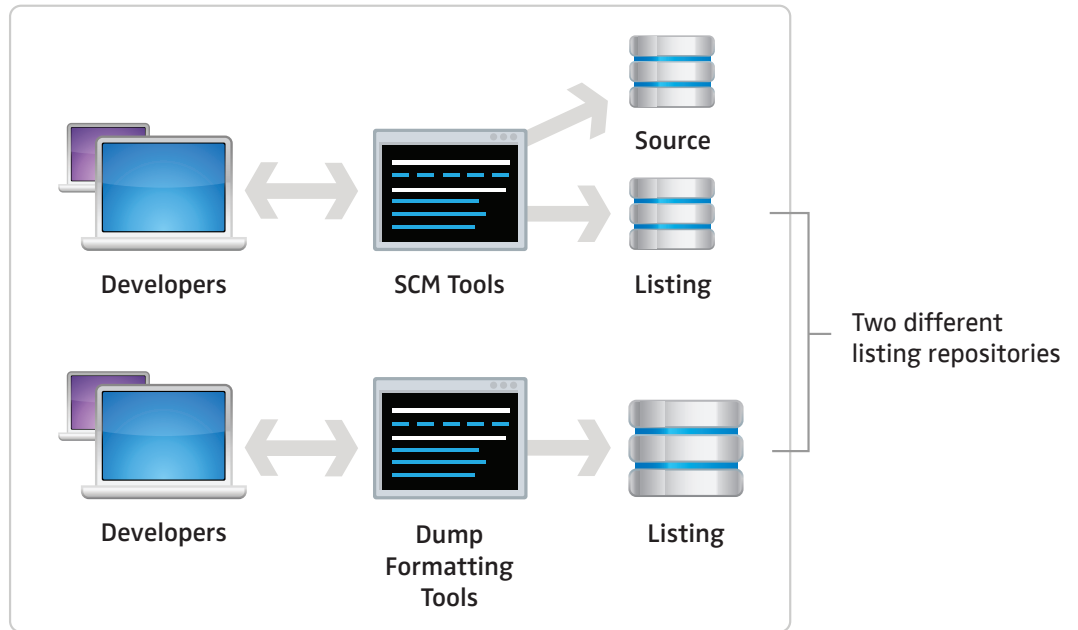
ZMF + DA = Faster Recovery

IMPROVING APPLICATION AVAILABILITY

Software Configuration Management (SCM) and z/OS dump formatting tools have traditionally been separate entities in mainframe program development and maintenance. SCM products, such as Serena ChangeMan ZMF, controlled program source code and other development assets. Dump formatting tools, such as Serena StarTool DA, processed the information from z/OS abnormal end (ABEND) conditions, and simplified or interpreted the contents of z/OS SYSUDUMPs (or other dump types) and other error information. Both tools improve application programmer productivity: ChangeMan ZMF during the program development cycle and StarTool DA during the debugging cycle. Additionally, StarTool DA is invoked during production ABENDs, often long after the traditional program development cycle is complete.

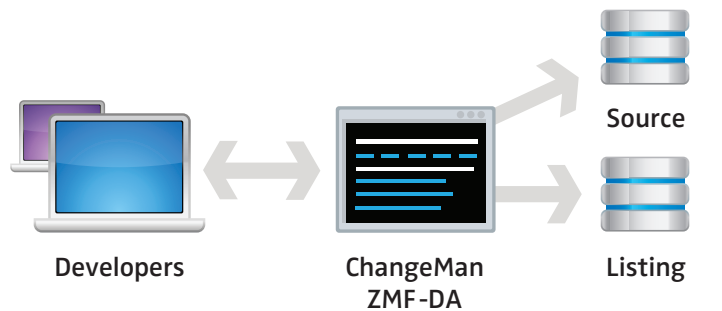
Serena has moved these two products to a higher level by integrating them. This provides seamless, automatic access to the change management information of most interest to programmers when they are debugging programs, both during development and in production. One immediate benefit is faster diagnosis of production problems – seeing what changed most recently is automatic. Integration also improves accuracy, as the programmer is less likely to look at the wrong version of a program listing under the stress of debugging a serious production issue.

DA-ZMF integration enables sharing of the ZMF source and listing repository, which saves storage space and ensures usage of the correct source code. Other dump formatting products may require a separate listing repository with specially processed versions of program listing in order to provide source code debugging, as shown in the following illustration.



Lack of integration requires separate repositories, prompting the question, "Which one contains the most current version of source?"

This is a wasteful duplication of time and storage space, and many customers omit the separate listing library as a result. By contrast, as the next figure illustrates, the DA-ZMF integration requires neither special separate libraries nor unique processing – it takes advantage of the SCM features already present with ZMF.



Centralized source storage ensures that the correct version of source is always available for both IT Operations and SCM tools.

ABOUT SERENA

Serena Software, the Change Governance leader, helps more than 15,000 organizations around the world—including 96 of the Fortune 100 and 90 of the Global 100—turn change into a business advantage. Serena is head-quartered in Redwood City, California, and has offices throughout the U.S., Europe, and Asia Pacific.

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HOW THE CHANGEMAN ZMF DA OPTION WORKS

The DA-ZMF integration introduces a new paradigm in mainframe problem diagnosis and management, and further enhances your investment in ChangeMan ZMF.

The Serena ChangeMan DA Option automatically receives control at the time z/OS recognizes a problem requiring an ABEND and SYSUDUMP or other dump output. DA examines the program involved in the ABEND and determines the ChangeMan ZMF package information related to the program. Using the XML capabilities of Serena ChangeMan ZMF, DA retrieves the listing and change history information for the affected program, then formats the dump down to the source code level. This provides the following information automatically:

- Program source statement involved in the failure
- Data fields in the program involved in the failure, where applicable
- ZMF package and program information
- Change History

There is no chance to get the wrong version of a listing, or to attribute the problem to the wrong change. Debugging starts with the right information – and, since many problems are directly related to the last change made to the program, debugging starts with the most likely cause of a problem. Since the Serena ChangeMan ZMF DA Option uses XML in its communication with ChangeMan ZMF, no direct connection to the disk storage used for ZMF package or baseline libraries is needed. And DA can coexist with most other dump formatting products, which simplifies your trial period planning.

Additionally, the Serena ChangeMan ZMF DA Option improves much more than your z/OS environment. DA also supports programs running in the CICS, IMS, and DB2 environments, with special formatting for the unique information associated with each environment.

You have made a significant investment in creating and managing your application programs. Contact your Serena sales representative today and add the Serena ChangeMan ZMF DA option to your ZMF environment to reap further rewards from your investment.