BMC Compuware COPE

Virtualize IMS systems and reduce subsystem creation costs

**PRODUCT DESCRIPTION**

BMC Compuware COPE virtualizes IMS systems, enabling new development images of IMS to be available practically on demand. COPE significantly reduces the time, costs, and technical difficulties associated with creating completely new IMS subsystems.

**BUSINESS CHALLENGE**

Creating and maintaining multiple IMS development and test systems can be a slow, expensive, and technically daunting task. In today’s rapidly changing business conditions, companies are struggling to provide IMS development environments for new initiatives in a timely manner. There is a great deal of database administration required to support multiple physical IMS environments. A database administrator (DBA) must compile the collection of IMS resource specifications separately for each stage of application development and testing to reserve the physical database resources required for that IMS system.

**BMC SOLUTION**

BMC Compuware COPE generates virtualized development and testing environments for IMS applications. All that the DBA needs to do is change a set of parameters, which are then copied and compiled by COPE to create virtualized IMS environments.

In addition, an IMS subsystem can be virtualized with multiple versions of a given application, satisfying the need for development, integration, and pre-production testing. COPE changes database names, program names, and file names before regeneration to allow multiple copies of identically named objects to exist within a single IMS system.

COPE supports IMS Database Control (DBCTL), IMS Data Communication Control (DCCTL), and IMS DB/TM environments. BMC Compuware Xpediter, BMC Compuware File-AID, and BMC Compuware Abend-AID work seamlessly in a COPE environment, providing substantial productivity gains in the software development and testing of large and complex IMS applications.

**KEY FEATURES**

- Rapidly deploy multiple virtual IMS databases to multiple active projects, where each system can either share or have unique programs, IMS databases, Db2 tables, and MFS formats
- Avoid creating costly new IMS instances, modifying underlying master databases, or relying on experts
- Maintain testing methodology or compile procedures and access additional isolated testing environments without significant costs
- Supports different versions of batch or BMP programs and IMS databases including Full Function, HALDB, MSDB, and DEDB
- Connect to Db2, MQ, and CICS subsystems from a single physical IMS system

**KEY BENEFITS**

- Reduce the need to maintain separate IMS systems and related components for every development and testing stage of an IMS application
- Reduce the expertise and time needed to maintain separate IMS systems and related components for every development and testing stage of every application
- Simplify the development environment by enabling many versions of applications that require IMS database services to be simultaneously executed
**PRODUCT DETAILS**

**Virtualized IMS environments**
COPE transforms physical resources in various stages of IMS application development and testing into virtualized and extensible representations of the same set of physical resources. All that a developer, QA specialist, or database professional needs to do is change a set of required parameters, which COPE then copies and compiles to create virtual IMS systems for application development and testing.

An IMS subsystem can be virtualized with multiple versions of a given application, satisfying needs for development, integration test, UAT, pre-prod, and/or other desired environments.

Database, program, and library names are changed before regeneration to allow multiple copies of identically named objects to exist within a single IMS system without modifying application program names and libraries.

**Support for various environments**
COPE supports IMS Database Control (DBCTL), IMS Data Communications (DCCTL), and IMS Database and Transaction Manager (DB/TM) environments. COPE also supports different versions of batch or BMP programs and the following IMS database types:

- IMS Full Function Database
- IMS High Availability Large Database (HALDB)
- IMS Main Storage Database (MSDB)
- IMS Data Entry Database (DEDB)

COPE allows connections to Db2 subsystems, MQ subsystems, and CICS systems from a single IMS COPE system.

**Easy debugging**
COPE works seamlessly with Xpediter, File-AID, and Abend-AID, enabling IMS developers to debug multiple versions of the same IMS application executing in the IMS COPE environment.

---

**KEY BENEFITS (CONTINUED)**

- Accommodate new initiatives quickly, reducing time to market for critical initiatives such as creating services for cloud, mobile, and web enablement
- Optimize resource usage and reduce overall CPU utilization
- Increase digital business agility by allowing customers to create multiple versions of the same database for parallel application execution
- Allow customers to leverage existing maintenance processes and JCL procedures using an external COPE interface
- Support the IMS Dynamic Resource Definition (DRD) feature of IMS

---

**FOR MORE INFORMATION**
To learn more about BMC Compuware COPE, visit [bmc.com](http://bmc.com).