InSync® is a comprehensive and cost effective data management and manipulation solution for z Systems.

InSync® is a data management solution that simplifies the process of data manipulation and provides fast and easy access to the data used by mainframe applications.

Through easy-to-use data manipulation facilities provided by InSync®, users can correct, create, copy, extract, convert and reformat application data. Users can pull data from multiple sources, including DB2, IMS and WebSphere MQ.

Application data can be quickly and efficiently validated, whether for testing or production purposes.

Data manipulation is monitored and controlled by InSync® through the use of security exits and centralized auditing - augmenting your RACF or other chosen security solution.

Rapid deployment of mainframe applications requires sophisticated data creation and correction facilities for the z System data sources of DB2, IMS, WebSphere MQ and other z/OS files. InSync®, Macro 4's data management solution, provides:

- Interactive data manipulation for production and test environments
- Sophisticated test data creation for rapid application deployment
- Extensive compare, search and selection facilities
- Full support for COBOL, PL/I and Assembler layouts
- Extensive file utilities for listing, allocating and manipulating VSAM and other z/OS file formats
- Read-only and in-storage editing for greater control of data
- Simplified DB2 and IMS data management, and therefore reduced dependency on database administrator resources
- The facility to target multiple DB2 tables in a single operation
- The facility to disguise data when extracting from one environment to another, for instance, production to test
- The ability to exploit the power of z/OS through native and Eclipse interfaces

The data management solution

Accurate data is crucial for successful business operations. If production data is erroneous or applications are not thoroughly tested during pre-production phases for a complete range of production conditions, applications will fail and revenues will undoubtedly be affected.

InSync® is designed to simplify the process of data manipulation and provide fast and easy access to the data used by mainframe applications.

z System Data Management

Simplified data management for assured reliability of your business applications
Insync® provides comprehensive data access using COBOL, PL/I and Assembler layouts. DB2 table mapping makes use of the DB2 catalog definitions.

Insync® provides a common look and feel for browse, edit, print, extract and database load functions.

Many functions can be performed either online or in batch. The ability to generate batch jobs online is also provided.

**Data disguising**

To aid data security, data disguising algorithms can be deployed to alter sensitive data that is copied from one environment to another.

A typical example where data disguising may be used is to prevent access to personal information such as an individual's date of birth, bank account and credit card details.

Data disguising is available for z/OS files and DB2 tables and related tables.

**Insync® for z/OS files**

Insync® supports sequential data sets, VSAM data sets, PDS/PDSE libraries and HFS files. Comma Separated Variable (CSV) and XML files can be created.

Comprehensive facilities are provided for comparing:

- Files of the same or differing data layouts
- Source code/JCL
- Library member lists
- Load modules

Insync® offers powerful PDS/PDSE search, update and extract facilities, complemented by flexible member and member characteristic filters.

**Insync® for DB2 tables**

Insync® provides sophisticated data management facilities to browse, edit, copy, load and extract single or related sets of tables. Multiple tables can be targeted in a single operation, saving valuable time and effort. The creation of CSV files is supported.

Table selection criteria can be created via easy-to-use panels, eliminating the need for SQL knowledge.

Large Object support is provided for BLOBs, CLOBs, DCLOBs, XML columns and other data types.

**Insync® for IMS databases**

Insync® supports HDAM, HIDAM, HISAM, DEDBs and HALDBs. Batch facilities include change, delete and insert of segments plus the ability to compare database extracts.

**Insync® for IMS Online**

This optional interface provides a variety of database browsing and editing facilities for IMS end users with restricted access rights.

**Insync® for WebSphere MQ**

Browse, edit, print, load and extract functions can be performed over WebSphere MQ queues.

New queues can be created and the attributes of existing queues can be inquired upon and altered.

Message descriptor values and imbedded MQ headers can be displayed or suppressed.

**Familiar, efficient interfaces**

Insync® offers its comprehensive data management functionality via native and Eclipse interfaces, both of which are intuitive and easy to use.

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**Macro 4’s integrated suite for z Systems fault analysis and testing:**

**DumpMaster**
Fault analysis and recovery

**Insync®**
Data management and manipulation

**TraceMaster**
Interactive testing and debugging

**TraceMaster CodeTrack**
CICS code path analysis and storage violation detection

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