

# Intelligent Data-Distribution With Hot Copy

## Automatic Data-Extraction For IMS, CICS, Batch, VSAM, DB2

### The Challenge

Web, e-commerce, data warehouse, ... everyone needs current and reviewed data-bases. This data are gathered, checked, stored, processed traditionally under OS390/MVS and are provided for the company's internal operational processes. Now new applications, which are put into practise on other platforms, shall profit by these informations, too.

This is a challenging task. How are we able to extract and provide such informations in time and

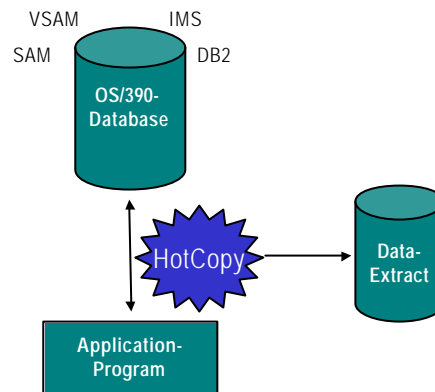
- without long-term development work and
- without affecting adversely the IMS, CICS and Batch-applications working efficiently for years?

The traditional way of programming interfaces requires modifications in existing application programs. They have to be changed in order to write data in certain external files or call subroutines doing this. These interventions in living systems are unsafe and expensive

- because they affect tested, smoothly running procedures,
- because on all affected places analysis and programming is required.

### The Answer

What are our options? The reply to this question has become simpler now. With HotCopy, the data-extractor for the world of OS390.



With HotCopy sourcecode modifications as interventions in living systems no longer apply. Data source, data fields to be transfered, target of data transfer, and other parameters may simply be configured with an easily usable menu interface.

Instead of becoming absorbed in the technical details of source-code now you may concentrate on the essentials. Data transfer is triggered off by specific events. The data even seem to "think". No longer are transporting functions initiated within the complicated procedural flow of application programs, but a monitoring system-task notices the insertion, change or deletion of data records, generates HotCopy-Objects and starts data transfer.

### The Application

- A company uses FTP to copy a big file every night to **another location's** server. The copy process lasts many hours. So nearly no time remains for the backup job. With HotCopy the data are fully loaded one single time und after that merely updated. When the remote site is updated, only „delta“-data are sent over the FTP-link, i.e. the very data that have been added, changed or deleted and nothing more or less. Additionally the remote location by a selection mechanism only receives data it really needs for it's work.
- A **data-warehouse** shall be connected to the existing data environment. Instead of building the interface functions into innumerable programs thanks to HotCopy it is sufficient to configure and then to start the desired data extractions.
- An information service department in addition to the production data runs a vast **test-environment**. While introducing a new software package it is necessary to have always current test data. But they are not able to copy all production data completely, because of the risk of a system-wide reduced per-formance. In this case too, HotCopy in the background cares for an immediate update of the test-data as soon as a production data-record has been changed. The same applies for data storage in a **backup datacenter**.
- **Internet** -Example: On a company's website the customers may browse their contracts. The data-source of the web-application is kept current by HotCopy with MVS-data. The customer does not work with the original data, but nevertheless always sees current data.

### How to define HotCopy-Objects:

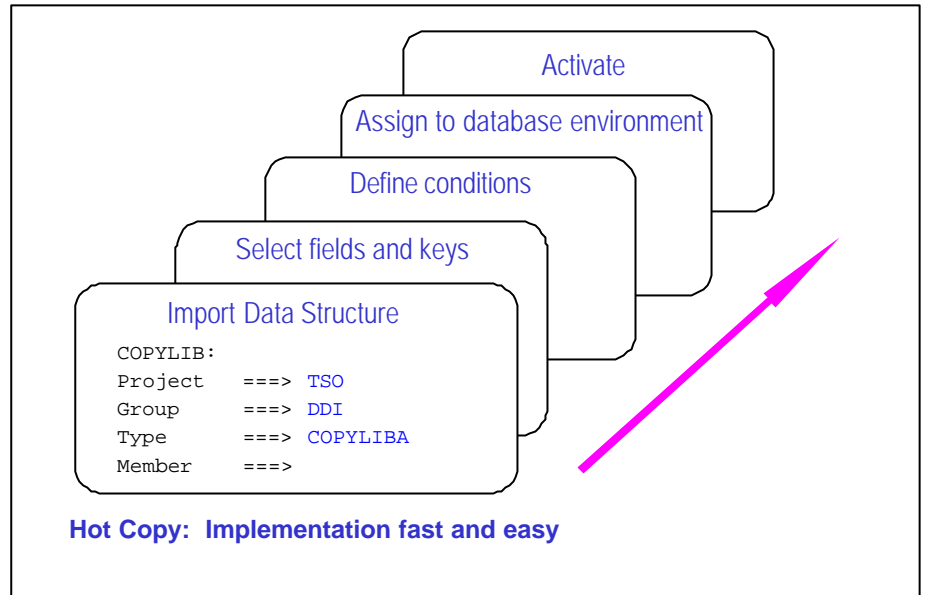
- import data descriptions (PL/1 include-files, COBOL copybooks, DB2 tables, IMS DBDs and PSBs);
- mark relevant data- and key-fields which shall be exported by HotCopy;
- assign HotCopy-Objects to database environments (Batch, IMS, CICS, DB2) and programs;
- specify conditions which shall be taken into account on data-extraction (different record-types, b.e.);
- choose a location where the extracted data are to be stored.

## Using HotCopy

HotCopy is the simplest way to build an interface. You configure data source, data fields to be extracted, and conditions to be considered. HotCopy provides the data in a GDG-dataset. This dataset is further to be used at the user's choice. By example it can be fed into a data warehouse or a FTP-transfer may be supplied with this data. Or the records are sent by means of IBM MQ-Series through message-queues to a remote location. What you gain always is a much simpler implementation of interfaces.

## HotCopy: a Data-Extractor/Connector

With HotCopy, the data-extractor for MVS, your mainframe applications join the „new world“. But it is also possible to use HotCopy as connecting tool for MVS legacy applications. HotCopy extracts and provides all informations you like to distribute in connection with IMS- or CICS-transactions. For this purpose no programming is necessary at all. You do not even need the sourcecode of the OS390 application. And everything we described here also works with Batch, DL1-Batch and VSAM applications.



## The Technical Background

HotCopy is a Started Task under OS390/MVS. It's Dynamic Data Interface® directly acts at the data interface of SAM- and VSAM-datasets and of IMS- and DB2-databases. HotCopy knows every record and each data field and their contents. A perfectly worked out inter-process-communication and efficient Assembler programming are responsible for its acknowledged and terrific performance.

HotCopy is based on a well-tried technology that we also are using in our products Euroswitch, Euroconverter und ACM, products

which our customers all over Europe successfully use.

HotCopy gets its data descriptions from copybooks, DB2 field descriptions, IMS DBDs and PSBs and supports record-types, data-groups, arrays, multiple occurrences in dependence of record-types (b.e. OCCURS DEPENDING), field- and record-related conditions etc. A comfortable handling of Hot-Copy is guaranteed by its easily surveyable ISPF-based user-interface.

**Yes, we are interested in HotCopy.**  
Please arrange an appointment with us.

Suggestion, Date: \_\_\_\_\_ Time: \_\_\_\_\_



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