



Licensed Program Specifications

Data Interfile Transfer, Testing, and Operations Utility for ESA Release 3

**Program Number 5655-103 (OS/390[®], MVS[™])
5648-099 (VSE)
5654-029 (VM)**

Data Interfile Transfer, Testing, and Operations Utility for ESA (DITTO/ESA) is IBM's well-known storage media and data maintenance utility program for the OS/390, MVS, VSE, and VM environments. DITTO/ESA is a key resource for data processing professionals due to many versatile functions working with tapes, disks, VTOCs and catalogs, VSAM data, VSE library members, sequential data sets and files, MVS Object Access Method (OAM) objects, and card images.

DITTO/ESA Release 3 adds new functions and improvements, and incorporates maintenance. It supersedes the DITTO/ESA Release 2 product family as well as previous DITTO/ESA releases. It provides a consistent package of functions for the MVS, VSE, and VM user with a common user interface supporting the following operating system environments:

- OS/390
- MVS/ESA[™]
- VSE/ESA[™]
- VM/ESA[®]

Highlights

New features in DITTO/ESA Release 3 include:

- A new function, Spool Services (SPS), enables VSE users to work with all VSE POWER spool queues (LST, PUN, RDR, XMT) using the DITTO/ESA full-screen interactive interface. This function lists all entries of the selected queue and allows you to enter a command directly on an entry to browse, alter, delete, hold, release, and transfer it.
- Enhanced IBM Standard Tape Label (SL) processing for high-capacity media, and support for basic tape functions under MVS to resolve customer issues.
- Enhanced Initialize Tape (INT) function lets you limit the amount of data stored on a 3590 tape unit to a percentage of its capacity, using the new parameter SCALE=*nn*.

- ANSI Version 4 tape label support.
- VSE External Security Manager support, for greater control over access to DITTO/ESA functions under VSE.
- Support for wide screens in DITTO/ESA list functions, displaying more information without scrolling.
- Support for LIKE (model data set) and RELEASE (release unused space) options for dynamic QSAM data set allocation.
- Improved compatibility between DITTO/ESA editor and ISPF editor commands.
- Improved performance under MVS of System Catalog (SCS) and VSAM Data Set List (VDL) functions, by exploiting the new catalog search interface introduced by DFSMS[™] 1.4. The full-screen display now includes more SMS related information, and statistical information has changed from byte to kilobyte (KB) to support larger amounts.

Functions of DITTO/ESA

In addition to the above new features, DITTO/ESA has the following functions:

- Full-screen browse functions that display the contents of tape and disk volumes, VSE library members, OAM objects, VSAM data sets, CP spool files, DITTO session print output, user storage, and the VSE label area.
- Full-screen edit functions for VSAM data sets, VSE library members, and disk tracks.
- Full-screen update functions for tape records, disk records, VSAM data sets, OAM objects, and VSE library members.
- Functions to display tape and disk records at the system console.
- Functions to update individual records from tape, disk, and VSAM data sets.

- Functions to list VTOC entries, catalog entries, VSAM data sets, VSE spool files, OAM objects, VSE library members, and VSE library status. The user can select a specific list entry and use the action bar or line commands to work with the entry.
- Functions to rename VTOC entries, disk volume IDs, and VSE library members.
- Functions to copy VSE library members to tape, VSAM data sets, sequential data sets, cards, REXX stem variables, CMS files, and other library members.
- Functions to copy VSAM data sets to tape, sequential data sets, OAM objects, cards, REXX stem variables, VSE library members, CMS files, and other VSAM data sets.
- Functions to copy sequential data sets to tape, VSAM data sets, VSE library members, OAM objects, cards, CMS files, and other sequential data sets.
- Functions to copy OAM objects to sequential data sets, VSAM data sets, and other OAM objects.
- Functions to copy REXX stem variables to sequential data sets, VSAM data sets, and VSE library members.
- Functions to copy CMS files to VSAM data sets, sequential data sets, VSE library members, and tape, and multifile DUMP and LOAD functions.
- Functions to copy tape data to VSAM data sets, sequential data sets, cards, REXX stem variables, VSE library members, CMS files, and other tapes (with or without label processing).
- Functions to copy cards to cards, tape, sequential data sets, VSAM data sets, and VSE library members, and to interpret pre-punched cards.
- Functions to print tape records, disk records, VSAM data sets, sequential data sets, OAM objects, cards, VSE library members, CMS files, and SYSLST files.
- Functions to erase tape records, OAM objects, VSE library members, and disk VTOC entries.
- Functions to scan tape and disk data, and locate a disk data set.

- Functions to create test data for tape, VSAM, and sequential data sets.
- Functions to move tapes forward and backward.
- Functions to initialize tapes and write tape marks.
- Functions to print tape labels and a summary of tape contents.
- A function to compare two tapes byte by byte.
- Functions to control the DITTO/ESA processing environment and the format of print output.
- The ability to translate data between ASCII and EBCDIC format in various functions.
- A self-documenting feature to print a summary of all functions and their parameters.

DITTO/ESA functions can be invoked:

- In full-screen mode with task-oriented panels, function menus, and help text available
- In line mode from a system console
- In command mode from a REXX procedure or as a line command on an MVS, CMS, or DITTO/ESA selection list
- In batch mode

Compatibility with Previous Releases of DITTO/ESA

- | DITTO/ESA Release 3 is compatible with previous DITTO releases related to its functions.

Specified Operating Environment

Machine Requirements: DITTO/ESA operates on any IBM processor supported by the OS/390, MVS/ESA, VSE/ESA, or VM/ESA operating system. It supports all DASD and tape devices compatible with these operating systems.

DITTO/ESA requires a minimum of 500KB program storage for batch mode and line mode operation, and a minimum of 900KB for full-screen operation. The total program storage required depends on the number of different functions invoked in one DITTO/ESA session. The DITTO/ESA function SCS needs additional storage to load the IDCAMS utility program.

For most DITTO/ESA sessions, approximately 128KB storage for data buffers will be sufficient. However, additional storage may be required to process large catalogs, libraries, VTOCs, or data blocks.

Under VSE, specifying the size of GETVIS storage in the EXEC statement is not required. If the SIZE parameter is specified, it is ignored.

DITTO/ESA runs in 31-bit mode.

Programming Requirements:

DITTO/ESA Release 3 is designed to operate under the following operating systems or subsequent versions or releases, unless otherwise stated:

- OS/390 Version 2 Release 4 (5647-A01)
- MVS/ESA SP Version 5 Release 2 - JES2 (5655-068)
- MVS/ESA SP Version 5 Release 2 - JES3 (5655-069)
- VM/ESA Version 2 (5654-030)
- VSE/ESA Version 2 Release 4 (5690-VSE)
- Under MVS, the minimum DFP level required is MVS/Data Facility Product (DFP) Version 3 Release 3 Modification 0 (5665-XA3).

Note:

- Functions processing OAM objects require DATABASE 2™ (DB2®) Version 2 (5665-DB2) or subsequent releases.
- Under VM, VSE/VSAM for VM Functional Subset Version 6 Release 1 (5686-081) or later is required to use DITTO/ESA VSAM functions natively.
- If using RACF® for function access control and authorization verification, Release 1.9 or later is required, or if under OS/390, the OS/390 Security Server (optional feature of 5645-001) is required.

Licensed Program Materials Availability

Restricted Materials — No. These licensed programs will be available without source licensed program materials. They will be available in object code.

Publications

The following publications are available for DITTO/ESA:

- *Introducing Data Interfile Transfer, Testing, and Operations Utility for ESA*, GH19-8222
- *Program Directory for DITTO/ESA for MVS*, GI10-0425
- *Program Directory for DITTO/ESA for VM*, GI10-0438
- *Program Directory for DITTO/ESA for VM NLV Japanese*, GI10-0427
- *DITTO/ESA Installation and Customization Guide*, GC26-9598
- *DITTO/ESA User's Guide and Reference*, SH19-8221
- *DITTO/ESA Reference Summary*, SX11-6110

Supplemental Terms

Designated Machine Identification: Designated Machine Identification Required: Yes

Testing Period

- Basic License: 1 month
- DSLO License: None

Installation/Location License

Not applicable. A separate license is required for each machine on which the licensed program will be used.

Usage Restriction

Not applicable.

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