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Report of Successful Completion of Qualification Testing

International Business Machines Corporation and Hitachi, Ltd. have successfully completed compatibility and interoperability testing of the Hitachi Virtual Storage Platform (VSP®) G1000 at code level DKCMain 80-02-01 in the IBM System z environments listed in the table below.

IBM and Hitachi hereby confirm that testing for the support of FICON connectivity and extended functions, described in the Test Summaries (below) and in Attachment A - Test Matrix, has been successfully completed for the following:

Servers	IBM zEnterprise EC12 (zEC12), IBM zEnterprise BC12 (zBC12)
	IBM zEnterprise 196 (z196), IBM zEnterprise 114 (z114)
	IBM System z10 (z10 EC, z10 BC)
Operating Systems	z/OS V1.13, z/OS V2.1
Extended Functions	Modified Indirect Data Address Word (MIDAW) facility support on FICON and High Performance FICON for z Systems (zHPF) including Multi-Track and Bi-Directional Data Transfer (Bi-Di), BSAM/QSAM support, Format Write, List Prefetch Optimizer.
Storage	Hitachi Virtual Storage Platform (VSP®) G1000

More detailed testing results are available from IBM or Hitachi upon request.

Test Summaries:

- Hitachi Virtual Storage Platform (VSP®) G1000 - running DKCMain code level: 80-02-01.
- FICON and zHPF (including Multi-Track and Bi-Directional Data Transfer) on a zEC12, zBC12, z196, z114, z10 EC and z10 BC through supported directors/switches and direct connection.
- Limited MIDAW facility (zEC12, zBC12, z196, z114, z10 EC and z10 BC) testing was completed at IBM.

IBM does not make any representations or warranties of any kind regarding the Hitachi products and is not liable for such products or any claims made regarding such products. The fact that the listed Hitachi products passed the enumerated IBM tests does not imply that the products will operate properly in any particular customer environment. Hitachi retains sole responsibility for its products, the performance of such products and all claims relating to such products, including without limitation its products' compliance to product specifications, safety requirements, regulatory agencies requirements and industry standards.

The terms FICON, IBM, System z, System z10, z10, zEC12, zEnterprise, z/OS, and zSeries are trademarks or registered trademarks of International Business Machines Corporation.

Attachment A -- Test Matrix

Test Case	Successfully Completed Error Free Test Shifts (REFTS)	Test Case Description
System Assurance Kernel (SAK) Testing	✓	SAK is an IBM proprietary test suit which does a range of architectural limit testing. The DASD test programs that were run on FICON and zHPF (including Multi-Track and Bi-Directional Data Transfer) channels include IFDASD, IDASD0, IDSCAN, IDASDX, and ICTVDR.
z/OS CHNLDRVR	✓	CHNLDRVR is an IBM proprietary DASD test program that runs under z/OS on FICON and zHPF (including Multi-Track and Bi-Directional Data Transfer) channels.
MixPlex Configurations	✓	Testing of different MixPlex system configurations. Systems are added and removed from Plex. Various error conditions are invoked to make sure the Plex recovers gracefully.



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