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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 Hitachi TagmaStore®/SANRISE® series products at code level 50.03.99.00/79 in the following IBM [zSeries®] environments:

IBM and Hitachi hereby confirm that testing for the support of Escon, FiCon, and FCP connectivity of the following has been successfully completed:

CPU	System z9 (z9-109) at D63J
	zSeries (z800, z900, z990) at D55K
	9672 G5 and G6 at D26W
OS	z/OS 1.6 and 1.7
	VM 5.2.0
	zLinux (SuSE SLES 8.0 and 9.0) (Red Hat RHEL3)
Extended Functions	PPRC on Escon and FCP in a non-GDPS environment
	XRC in a non-GDPS environment
	NPIV on FCP
	MIDAW support on FiCon
Storages	Hitachi TagmaStore series
	Hitachi SANRISE series

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

Limitations:

The following considerations and limitations apply to the tested configurations:

- FCP point to point configurations are restricted. This problem is associated with IBM defect H4705 and is still under investigation at this time.
- The PPRC and XRC functions are being tested for full Geographically Dispersed Parallel Sysplex™ (GDPS) qualification at the IBM test facility in Montpellier, France.

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Test Summaries:

- Hitachi USP-100 and USP-1100 at DKCMain 50.03.99.00/79
- FiCon and Escon from IBM eServer zSeries® 990 and z9 through supported directors/switches and direct connection
- FCP on IBM eServer zSeries® 900, z990, and z9 through supported directors and switches (see note under limitations for direct connections)
- Intermixed FiCon and FCP traffic in single switch and cascaded (single hop) configurations
- Limited MIDAW, an IBM feature, testing was completed at IBM. Feature enablement is at Hitachi's option..

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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 Escon and FiCon channels include IFDASD, IDASD0, IDSCAN, IDASDX, and ICTVDR.
zOS CHNLDRVR	✓	CHNLDRVR is an IBM proprietary DASD test program that runs under zOS on Escon and FiCon channels.
PPRC	✓	Basic PPRC functions on Escon and FCP channels were performed in the Poughkeepsie IBM Lab. Further testing is required in Montpellier France for full GDPS XRC support.
XRC	✓	Basic XRC functions were performed in the Poughkeepsie IBM Lab. Further testing is required in Montpellier France for full GDPS XRC support.
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.
FCP	✓	FCP testing with the PAWS test to be run with error conditions such as broken cables and ISLs.
VM	✓	IPL and running of associated jobs under the VM operating system.

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