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## Report of Successful Completion of Qualification Testing

International Business Machines Corporation has successfully completed compatibility and interoperability testing of the IBM DS8A00 at Microcode Bundle 10.0.245.0 R10.0 Service Pack 1 on the following IBM z15® and IBM z16® environment (all-flash modes are included):

IBM hereby confirms that testing for the support of FICON® and FCP connectivity of the following has been successfully completed:

CPU	IBM z15 Model-8561-T01-Driver Level 41 bundle 93 and IBM z16 Model-3931-A01 Driver Level 51 bundle 39
OS&GDPS®	z/OS® V3.1 GDPS 4.7
Functions	GDPS Metro HyperSwap® Manager Freeze/run Planned HyperSwap Unplanned HyperSwap HyperSwap Failover/Failback
	GDPS Metro Freeze/run Planned HyperSwap Unplanned HyperSwap HyperSwap Failover/Failback FlashCopy® V2, FlashCopy Space Efficient and Remote Pair FlashCopy Logical Corruption Protection including Safeguarded Copy (Virtual LCP Mgr)
	GDPS Global FlashCopy V2 and FlashCopy Space Efficient
Storage Devices	IBM DS8A00 MM (formerly PPRC) volumes GM volumes FlashCopy V2 Safeguarded Copy

More detailed testing results are available from IBM on request.

David B Petersen  
IBM Distinguished Engineer  
IBM Z  
IBM Infrastructure  
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## Attachment A -- Test Matrix

GDPS Metro HyperSwap Manager		
Test Case Suite	Successfully Completed	Test Case Suite Description
<ul style="list-style-type: none"> <li>Initial Tests</li> </ul>	✓	Basic remote copy operations using panels Basic Freeze tests (GO/STOP/COND)
<ul style="list-style-type: none"> <li>Planned Actions</li> </ul>	✓	Remote copy operations using HYPERSW command Simulate Site maintenance (Site 1) and (Site 2)
<ul style="list-style-type: none"> <li>Unplanned Actions</li> </ul>	✓	GDPS reacts to a failure, depending on the FREEZE option (GO / STOP / COND / SWAP&GO / SWAP & STOP)) Test failures were generated by MM links unplug, Chpid unplug, DASD control Unit power off and elongated I/O response times
<ul style="list-style-type: none"> <li>Disruptive Testing (aka Config Testing)</li> </ul>	✓	GDPS reacts to a failure, depending on the FREEZE policy. Failures were generated by Control Unit Emergency power off and control unit internal failures
<ul style="list-style-type: none"> <li>HyperSwap Stress test</li> </ul>	✓	Run a planned HyperSwap, with the application systems and the controlling system having CPU contention
<ul style="list-style-type: none"> <li>Miscellaneous</li> </ul>	✓	HyperSwap extension (checking of secondary MM status, MM failure, GM session(s), Concurrent Copy, etc.)

<u>GDPS Metro</u>		
Test Case Suite	Successfully Completed	Test Case Suite Description
<ul style="list-style-type: none"> <li>Initial Tests</li> </ul>	✓	Basic remote copy operations using panels Basic Freeze tests (GO/STOP/COND)
<ul style="list-style-type: none"> <li>Planned Actions</li> </ul>	✓	Remote copy operations using scripts (START/STOP SECONDARY, Flashcopy, HyperSwap (Resync & Suspend), etc.) Simulate Site maintenance (Site 1) and Site 2)
<ul style="list-style-type: none"> <li>Unplanned Actions</li> </ul>	✓	GDPS reacts to a failure, depending on the FREEZE option (GO / STOP / COND / SWAP&GO / SWAP & STOP) Failures were generated by MM links unplug, Chpid unplug, DASD control Unit power off and elongated I/O response times
<ul style="list-style-type: none"> <li>Disruptive Testing (aka Config Testing)</li> </ul>	✓	GDPS reacts to a failure, depending on the FREEZE policy. Failures were generated by Control Unit Emergency power off and control unit internal failures
<ul style="list-style-type: none"> <li>HyperSwap Stress test</li> </ul>	✓	Run a planned HyperSwap, with the application systems and the controlling system having CPU contention
<ul style="list-style-type: none"> <li>Miscellaneous</li> </ul>	✓	HyperSwap extension (checking of secondary MM status, MM failure, GM session(s), Concurrent Copy, etc.)
<ul style="list-style-type: none"> <li>FlashCopy</li> </ul>	✓	Prior FlashCopy limitations (Space Efficient, Remote Pair) are removed. Note that the traditional FlashCopy testcases are executed as part of Planned Actions and Unplanned Actions.
<ul style="list-style-type: none"> <li>LCP Mgr (including Safeguarded Copy)</li> </ul>	✓	Basic LCP Mgr operations using panels and scripts

<u>GDPS Global</u>		
Test Case Suite	Successfully Completed	Test Case Suite Description
<ul style="list-style-type: none"> <li>Initial Tests</li> </ul>	✓	Basic remote copy operations using panels
<ul style="list-style-type: none"> <li>Planned Actions</li> </ul>	✓	Remote copy operations using scripts (START/STOP, SUSPEND session, etc.) Simulate Site maintenance (Site 1) and Site 2) Simulate Site 1 failure and restart Production in recovery site.
<ul style="list-style-type: none"> <li>FlashCopy</li> </ul>	✓	Traditional FlashCopy testcases are executed as part of Planned Actions and Unplanned Actions.
<ul style="list-style-type: none"> <li></li> </ul>		