



Global Distributed Storage Engineering

SRDF/Star for Open Systems

GDSE-06050-RN

Release Notes

Version 1.0

VERSION CONTROL

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Contact

Please address any comments or questions regarding the information contained in this document via email to the “*GT Global Distributed Storage Engineering” distribution list or alternatively to gdse@citigroup.com.

Latest Versions

It is recommended that the latest version of the document be used from the GDSE website

<http://engineering.ti.citigroup.net/gdse/products/>

Newer versions may include expanded scope, or comments on issues discovered after deployment.

1 Document Scope

1.1 Introduction

SRDF/Star is a three-site DR solution from EMC for Symmetrix storage arrays that uses concurrent data replication technology to replicate data from a primary production site to both a nearby remote site and a distant remote site. Data is transferred in SRDF/Synchronous (SRDF/S) mode to the nearby remote and in SRDF/Asynchronous (SRDF/A) mode to the distant remote site.

This brief document covers basic certification information for SRDF/Star only. The main document for SRDF/Star deployment is the **SRDF/Star for Open Systems Solutions Guide** referenced below.

The **Open Systems SRDF/Star Evaluation and Test Results** document covers in great detail the testing undertaken as part of the evaluation and certification exercise and that test information is not repeated here.

Key documentation to be read in conjunction with these Release Notes is indicated below.

Document	Location
Key documents	
SRDF/Star for Open Systems Solutions Guide And references therein.	http://engineering.ti.citigroup.net/gdse/products/platforms/symmetrix/stdsdocs/06050-sg.pdf
Open Systems SRDF/Star (SE6.3) – Evaluation and Test results V2	http://engineering.ti.citigroup.net/gdse/products/platforms/symmetrix/stdsdocs/06018-tr.pdf
EMC Solutions Enabler Symmetrix SRDF Family CLI Product guide	Available from EMC. Chapter 4 and Appendix B refer to SRDF/Star.
SRDF/A for Long Distance Replication Solutions Guide V2	http://engineering.ti.citigroup.net/gdse/products/platforms/symmetrix/stdsdocs/05002-sg.pdf
McData IPS SAN Router Solutions Guide V2	http://engineering.ti.citigroup.net/gdse/products/platforms/mcdataips/stdsdocs/06030-sg.pdf
EMC Symmetrix DMX Best Practice	http://engineering.ti.citigroup.net/gdse/products/platforms/symmetrix/stdsdocs/03038-sg.pdf

1.2 Scope of certification activities

Evaluation and certification of SRDF/Star covered functional and performance testing in multiple configurations and the production of a Solutions Guide describing how to deploy SRDF/Star for Open Systems within Citigroup.

The SRDF/Star test plan and results can be found in the **Open Systems SRDF/Star Evaluation and Test Results** document referenced earlier, and hence no further details on testing are included in these release notes.

1.3 Out of certification scope

The following were out of scope of the Open Systems SRDF/Star certification exercise:

- Certification of Solutions Enabler 6.3. This is the subject of a separate certification project.
- SRDF/Star control from platforms other than Solaris
- Mainframe SRDF/Star (Different product)

2 Certification Matrix

2.1 Configurations

The two configurations that have been certified for SRDF/Star are:

- Single RDF group per Star Session (standard deployment)
- Multiple RDF groups per Star session

A full description of each certified configuration can be found in the **SRDF/Star for Open Systems Solutions Guide**. Scalability limitations are also covered in the Solutions Guide.

There are no restrictions on host type that can be connected to an SRDF/Star-enabled DMX, other than existing Citigroup Distributed Systems SAN SOE limitations. SRDF/Star is only supported on DMX with 5671 microcode and hence all hosts connecting must conform to a Host SAN stack that is compatible with 5671 microcode.

2.2 Certified versions

SRDF/Star is certified with the following component versions.

Component Matrix	
Storage hardware	
Symmetrix hardware	DMX only
Microcode	DMX2: 5671.5459 (minimum) DMX3: 5771.8795 (minimum)
Cache	Minimum cache will depend on IO workload. See SRDF/A Solutions Guide for more details
RA requirements	RA requirements will depend on number of RDF groups to be used. See SRDF/Star Solutions Guide for more details
SRDF/Star management servers	
Server type	Sun
Operating System	Solaris (see Solutions Enabler docs for supported version)
Solutions Enabler version	6.3 (minimum)

2.3 Certification environment

Testing was undertaken with the following test facility components.

Component Matrix	
Storage hardware	
DMX hardware	DMX2000P Note that this is NOT the usual type of DMX used by Citigroup but was the only unit available on which to conduct the testing.
Microcode Level	5671.5459
Control and IO servers	
Server type	Sun V240 and others
OS	Solaris 8
Solutions Enabler	6.3

2.4 Known Issues

A summary of the major deployment and operational constraints is listed in the **SRDF/Star for Open Systems Solutions Guide** in the planning section of that document.

Further details information on all issues encountered during the evaluation are documented in detail in the **Open Systems SRDF/Star Evaluation and Test Results** document referenced earlier.