



NetApp SolidFire Java SDK Release Notes

Version: v1.2

1/24/17

Copyright Information

Copyright © 1994-2017 NetApp, Inc. All Rights Reserved.

No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this document may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark Information

NetApp, the NetApp logo, AltaVault, ASUP, AutoSupport, Campaign Express, Cloud ONTAP, Clustered Data ONTAP, Customer Fitness, Data ONTAP, DataMotion, Fitness, Flash Accel, Flash Cache, Flash Pool, FlexArray, FlexCache, FlexClone, FlexPod, FlexScale, FlexShare, FlexVol, FPolicy, GetSuccessful, LockVault, Manage ONTAP, Mars, MetroCluster, MultiStore, NetApp Insight, OnCommand, ONTAP, ONTAPI, RAID DP, RAID-TEC, SANtricity, SecureShare, Simplicity, Simulate ONTAP, SnapCenter, Snap Creator, SnapCopy, SnapDrive, SnapIntegrator, SnapLock, SnapManager, SnapMirror, SnapMover, SnapProtect, SnapRestore, Snapshot, SnapValidator, SnapVault, StorageGRID, Tech OnTap, Unbound Cloud, WAFL, SolidFire, Element, Active IQ, SolidFire Helix and the helix design and other names are trademarks or registered trademarks of NetApp, Inc., in the United States, and/or other countries. All other brands or products are trademarks or registered trademarks of their respective holders and should be treated as such. A current list of NetApp trademarks is available on the web at <http://www.netapp.com/us/legal/netapptmlist.aspx>.

TABLE OF CONTENTS

- Introduction 4
- Support Matrix 4
- Downloading the SolidFire Java SDK 4
- Incorporating SolidFire Java SDK with your Project 4
- What's New in this Release 5
 - New SolidFire SDK API Methods 5
 - All SolidFire SDK API Methods 6
- Contacting SolidFire SDK Support12

Introduction

The SolidFire Java SDK is a collection of software modules and libraries that facilitate integration and orchestration between proprietary systems and third-party applications. The Java SDK allows developers to deeply integrate SolidFire system API with their Java programming language. The SolidFire Java SDK reduces the amount of additional coding time required for integration.

The intended audience for this document is Java developers who are responsible for integrating SolidFire into other applications.

Support Matrix

The following software is supported by the SolidFire Java SDK.

Component	Versions
Java	7.0 and 8.0
SolidFire Element OS	7.0 through 9.0

Downloading the SolidFire Java SDK

Complete the following steps to bring the SolidFire Java SDK into your environment.

Procedure

1. Download the most recent JAR from SolidFire [BrickFTP](#) or [GitHub](#) to a local or network directory that is accessible to the system from which you will be running Java commands.
2. Include the `solidfire-sdk-<version number>.jar` binary in your Java development environment classpath.
3. Review the `README.md` document on the [GitHub](#) project page for examples of higher level classes.

Incorporating SolidFire Java SDK with your Project

The SolidFire Java SDK is hosted on a Maven Public Repository and is ready for inclusion with a build manager that performs dependency resolution, such as Maven, SBT, or Gradle. The following dependency descriptors are all you need to incorporate the Java SDK in your project:

groupId	com.solidfire
artifactId	element-api
version	1.2.0.172

For example, to include the Java SDK in a Maven project, add the following to your pom.xml:

```
<dependency>
  <groupId>com.solidfire</groupId>
  <artifactId>solidfire-sdk-java</artifactId>
  <version> 1.2.0.172</version>
</dependency>
```

What's New in this Release

The Java SDK version 1.2 release expands the set of available SolidFire Element OS APIs from version 7.0 through version 9.0.

New SolidFire SDK API Methods

The following new SolidFire API methods are available in Java wrappers in SolidFire Java SDK version 1.2:

Element OS 9	Element OS 8
CancelClone	AddLdapClusterAdmin
CancelGroupClone	CreateCluster
CopyVolume	CreateSupportBundle
CreateInitiators	DeleteAllSupportBundles
CreateStorageContainer	DisableLdapAuthentication
CreateVirtualVolumeHost	EnableLdapAuthentication
DeleteInitiators	GetBootstrapConfig
DeleteStorageContainers	GetClusterHardwareInfo
DeleteVolumes	GetClusterMasterNodeID
EnableFeature	GetClusterState
GetFeatureStatus	GetDefaultQoS
GetHardwareInfo	GetDriveConfig
GetStorageContainerEfficiency	GetHardwareConfig
GetVirtualVolumeCount	GetLdapConfiguration
GetVirtualVolumeTaskUpdate	GetLoginSessionInfo
GetVirtualVolumeUnsharedChunks	GetNodeHardwareInfo
InvokeSFapi	GetNtpInfo
ListDriveStats	GetNvramInfo
ListInitiators	GetPendingOperation
ListProtocolEndpoints	GetRemoteLoggingHosts
ListStorageContainers	GetSystemStatus
ListVirtualVolumeBindings	GetVolumeAccessGroupLunAssignments
ListVirtualVolumeHosts	ListAsyncResults
ListVirtualVolumes	ListBulkVolumeJobs
ListVirtualVolumeTasks	ListFibreChannelPortInfo
ListVolumeStats	ListFibreChannelSessions
ListVolumeStatsByVirtualVolume	ListNodeFibreChannelPortInfo

Element OS 9	Element OS 8
ModifyInitiators	ListSyncJobs
ModifyStorageContainer	ModifyVolumeAccessGroupLunAssignments
PrepareVirtualSnapshot	ModifyVolumes
PurgeDeletedVolumes	SetLoginSessionInfo
SetDefaultQoS	SetNtpInfo
	SetRemoteLoggingHosts
	StartBulkVolumeRead
	StartBulkVolumeWrite
	TestLdapAuthentication
	UpdateBulkVolumeStatus

All SolidFire SDK API Methods

The following SolidFire API methods are available in Java wrappers in SolidFire Java SDK version 1.2:

Element OS 9	Element OS 8	Element OS 7
AddAccount	AddAccount	AddAccount
AddClusterAdmin	AddClusterAdmin	
AddDrives	AddDrives	
AddInitiatorsToVolumeAccessGroup	AddInitiatorsToVolumeAccessGroup	AddInitiatorsToVolumeAccessGroup
AddLdapClusterAdmin		
AddLdapClusterAdmin	AddLdapClusterAdmin	
AddNodes	AddNodes	
AddVirtualNetwork	AddVirtualNetwork	
AddVolumesToVolumeAccessGroup	AddVolumesToVolumeAccessGroup	AddVolumesToVolumeAccessGroup
CancelClone		
CancelGroupClone		
ClearClusterFaults	ClearClusterFaults	
CloneMultipleVolumes	CloneMultipleVolumes	
CloneVolume	CloneVolume	CloneVolume
CompleteClusterPairing	CompleteClusterPairing	
CompleteVolumePairing	CompleteVolumePairing	
CopyVolume		
CreateBackupTarget	CreateBackupTarget	

Element OS 9	Element OS 8	Element OS 7
CreateCluster	CreateCluster	
CreateGroupSnapshot	CreateGroupSnapshot	CreateGroupSnapshot
CreateInitiators		
CreateSchedule	CreateSchedule	
CreateSnapshot	CreateSnapshot	CreateSnapshot
CreateStorageContainer		
CreateSupportBundle	CreateSupportBundle	
CreateVirtualVolumeHost		
CreateVolume	CreateVolume	CreateVolume
CreateVolumeAccessGroup	CreateVolumeAccessGroup	CreateVolumeAccessGroup
DeleteAllSupportBundles	DeleteAllSupportBundles	
DeleteGroupSnapshot	DeleteGroupSnapshot	DeleteGroupSnapshot
DeleteInitiators		
DeleteSnapshot	DeleteSnapshot	DeleteSnapshot
DeleteStorageContainers		
DeleteVolume	DeleteVolume	DeleteVolume
DeleteVolumeAccessGroup	DeleteVolumeAccessGroup	DeleteVolumeAccessGroup
DeleteVolumes		
DisableEncryptionAtRest	DisableEncryptionAtRest	
DisableLdapAuthentication	DisableLdapAuthentication	
DisableSnmpp	DisableSnmpp	
EnableEncryptionAtRest	EnableEncryptionAtRest	
EnableFeature		
EnableLdapAuthentication	EnableLdapAuthentication	
EnableSnmpp	EnableSnmpp	
GetAccountById	GetAccountById	GetAccountById
GetAccountByName	GetAccountByName	GetAccountByName
GetAccountEfficiency	GetAccountEfficiency	
GetAPI	GetAPI	GetAPI
GetAsyncResult	GetAsyncResult	GetAsyncResult
GetBackupTarget	GetBackupTarget	
GetBootstrapConfig	GetBootstrapConfig	

Element OS 9	Element OS 8	Element OS 7
GetClusterCapacity	GetClusterCapacity	
GetClusterConfig	GetClusterConfig	
GetClusterFullThreshold	GetClusterFullThreshold	
GetClusterHardwareInfo	GetClusterHardwareInfo	
GetClusterInfo	GetClusterInfo	
GetClusterMasterNodeID	GetClusterMasterNodeID	
GetClusterState	GetClusterState	
GetClusterStats	GetClusterStats	
GetClusterVersionInfo	GetClusterVersionInfo	
GetCompleteStats	GetCompleteStats	
GetConfig	GetConfig	
GetCurrentClusterAdmin	GetCurrentClusterAdmin	
GetDefaultQoS	GetDefaultQoS	
GetDriveConfig	GetDriveConfig	
GetDriveHardwareInfo	GetDriveHardwareInfo	
GetDriveStats	GetDriveStats	
GetFeatureStatus		
GetHardwareConfig	GetHardwareConfig	
GetHardwareInfo		
GetLdapConfiguration	GetLdapConfiguration	
GetLimits	GetLimits	
GetLoginSessionInfo	GetLoginSessionInfo	
GetNetworkConfig	GetNetworkConfig	
GetNodeHardwareInfo	GetNodeHardwareInfo	
GetNodeStats	GetNodeStats	
GetNtpInfo	GetNtpInfo	
GetNvramInfo	GetNvramInfo	
GetPendingOperation	GetPendingOperation	
GetRawStats	GetRawStats	
GetRemoteLoggingHosts	GetRemoteLoggingHosts	
GetSchedule	GetSchedule	
GetSnmpACL	GetSnmpACL	

Element OS 9	Element OS 8	Element OS 7
GetSnmpInfo	GetSnmpInfo	
GetSnmpState	GetSnmpState	
GetSnmpTrapInfo	GetSnmpTrapInfo	
GetStorageContainerEfficiency		
GetSystemStatus	GetSystemStatus	
GetVirtualVolumeCount		
GetVirtualVolumeTaskUpdate		
GetVirtualVolumeUnsharedChunks		
GetVolumeAccessGroupEfficiency	GetVolumeAccessGroupEfficiency	
GetVolumeAccessGroupLunAssignments	GetVolumeAccessGroupLunAssignments	
GetVolumeEfficiency	GetVolumeEfficiency	GetVolumeEfficiency
GetVolumeStats	GetVolumeStats	GetVolumeStats
InvokeSFapi		
ListAccounts	ListAccounts	ListAccounts
ListActiveNodes	ListActiveNodes	
ListActivePairedVolumes	ListActivePairedVolumes	
ListActiveVolumes	ListActiveVolumes	ListActiveVolumes
ListAllNodes	ListAllNodes	
ListAsyncResults	ListAsyncResults	
ListBackupTargets	ListBackupTargets	
ListBulkVolumeJobs	ListBulkVolumeJobs	
ListClusterAdmins	ListClusterAdmins	
ListClusterFaults	ListClusterFaults	
ListClusterPairs	ListClusterPairs	
ListDeletedVolumes	ListDeletedVolumes	ListDeletedVolumes
ListDriveHardware	ListDriveHardware	
ListDrives	ListDrives	
ListDriveStats		
ListEvents	ListEvents	
ListFibreChannelPortInfo	ListFibreChannelPortInfo	
ListFibreChannelSessions	ListFibreChannelSessions	
ListGroupSnapshots	ListGroupSnapshots	ListGroupSnapshots

Element OS 9	Element OS 8	Element OS 7
ListInitiators		
ListISCSISessions	ListISCSISessions	
ListNodeFibreChannelPortInfo	ListNodeFibreChannelPortInfo	
ListNodeStats	ListNodeStats	
ListPendingNodes	ListPendingNodes	
ListProtocolEndpoints		
ListSchedules	ListSchedules	
ListSnapshots	ListSnapshots	ListSnapshots
ListStorageContainers		
ListSyncJobs	ListSyncJobs	
ListTests	ListTests	
ListUtilities	ListUtilities	
ListVirtualNetworks	ListVirtualNetworks	
ListVirtualVolumeBindings		
ListVirtualVolumeHosts		
ListVirtualVolumes		
ListVirtualVolumeTasks		
ListVolumeAccessGroups	ListVolumeAccessGroups	ListVolumeAccessGroups
ListVolumes	ListVolumes	
ListVolumesForAccount	ListVolumesForAccount	ListVolumesForAccount
ListVolumeStats		
ListVolumeStatsByAccount	ListVolumeStatsByAccount	ListVolumeStatsByAccount
ListVolumeStatsByVirtualVolume		
ListVolumeStatsByVolume	ListVolumeStatsByVolume	ListVolumeStatsByVolume
ListVolumeStatsByVolumeAccessGroup	ListVolumeStatsByVolumeAccessGroup	ListVolumeStatsByVolumeAccessGroup
ModifyAccount	ModifyAccount	ModifyAccount
ModifyBackupTarget	ModifyBackupTarget	
ModifyClusterAdmin	ModifyClusterAdmin	
ModifyClusterFullThreshold	ModifyClusterFullThreshold	
ModifyGroupSnapshot	ModifyGroupSnapshot	
ModifyInitiators		
ModifySchedule	ModifySchedule	

Element OS 9	Element OS 8	Element OS 7
ModifySnapshot	ModifySnapshot	
ModifyStorageContainer		
ModifyVirtualNetwork	ModifyVirtualNetwork	
ModifyVolume	ModifyVolume	ModifyVolume
ModifyVolumeAccessGroup	ModifyVolumeAccessGroup	ModifyVolumeAccessGroup
ModifyVolumeAccessGroupLunAssignments	ModifyVolumeAccessGroupLunAssignments	
ModifyVolumePair	ModifyVolumePair	
ModifyVolumes	ModifyVolumes	
PrepareVirtualSnapshot		
PurgeDeletedVolume	PurgeDeletedVolume	PurgeDeletedVolume
PurgeDeletedVolumes		
RemoveAccount	RemoveAccount	RemoveAccount
RemoveBackupTarget	RemoveBackupTarget	
RemoveClusterAdmin	RemoveClusterAdmin	
RemoveClusterPair	RemoveClusterPair	
RemoveDrives	RemoveDrives	
RemoveInitiatorsFromVolumeAccessGroup	RemoveInitiatorsFromVolumeAccessGroup	RemoveInitiatorsFromVolumeAccessGroup
RemoveNodes	RemoveNodes	
RemoveVirtualNetwork	RemoveVirtualNetwork	
RemoveVolumePair	RemoveVolumePair	
RemoveVolumesFromVolumeAccessGroup	RemoveVolumesFromVolumeAccessGroup	RemoveVolumesFromVolumeAccessGroup
ResetDrives	ResetDrives	
RestoreDeletedVolume	RestoreDeletedVolume	RestoreDeletedVolume
RollbackToGroupSnapshot	RollbackToGroupSnapshot	RollbackToGroupSnapshot
RollbackToSnapshot	RollbackToSnapshot	RollbackToSnapshot
SecureEraseDrives	SecureEraseDrives	
SetClusterConfig	SetClusterConfig	
SetConfig	SetConfig	
SetDefaultQoS		
SetLoginSessionInfo	SetLoginSessionInfo	

Element OS 9	Element OS 8	Element OS 7
SetNetworkConfig	SetNetworkConfig	
SetNtpInfo	SetNtpInfo	
SetRemoteLoggingHosts	SetRemoteLoggingHosts	
SetSnmpACL	SetSnmpACL	
SetSnmpInfo	SetSnmpInfo	
SetSnmpTrapInfo	SetSnmpTrapInfo	
SnmpSendTestTraps	SnmpSendTestTraps	
StartBulkVolumeRead	StartBulkVolumeRead	
StartBulkVolumeWrite	StartBulkVolumeWrite	
StartClusterPairing	StartClusterPairing	
StartVolumePairing	StartVolumePairing	
TestConnectEnsemble	TestConnectEnsemble	
TestConnectMvip	TestConnectMvip	
TestConnectSvip	TestConnectSvip	
TestDrives	TestDrives	
TestLdapAuthentication	TestLdapAuthentication	
TestPing	TestPing	
UpdateBulkVolumeStatus	UpdateBulkVolumeStatus	

For more detail on SolidFire API methods, refer to the SolidFire Element API Reference Guide for your operating system.

Contacting SolidFire SDK Support

If you have any questions or comments about this product, contact ng-sf-host-integrations-sdk@netapp.com or reach out to the development community at [ThePub](#). Your feedback helps us focus our efforts on new features and capabilities.



1048 Pearl Street, Suite 250
Boulder, Colorado 80302

Phone: 720.523.3278

Email: info@solidfire.com

Web: www.solidfire.com

SolidFire Support: www.solidfire.com/support/

1/24/17