



NetApp SolidFire Java SDK Release Notes

Version: v1.4

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Introduction

The NetApp 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 NetApp 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.

NOTE: All available languages of the NetApp SolidFire SDK are now version 1.4. Version 1.3 has been skipped in order to synchronize all SDK languages to a single version number. Starting with version 1.4, SolidFire SDK languages of a shared version number have identical functionality and available APIs.

Support Matrix

The NetApp SolidFire Java SDK supports the following software.

| Component | Versions |
|----------------------|-----------------|
| Java | 7.0 and 8.0 |
| SolidFire Element OS | 7.0 through 9.1 |

Downloading the NetApp SolidFire Java SDK

Complete the following steps to bring the NetApp 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 NetApp SolidFire Java SDK with your Project

The NetApp 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 | artifactId | version |
|---------------|--------------------|-----------|
| com.solidfire | solidfire-sdk-java | 1.4.0.212 |

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> 1.4.0.212</version>
</dependency>
```

What's New in this Release

The Java SDK version 1.4 release expands the available parameters for the supported SolidFire Element OS APIs from version 7.0 through version 9.1.

| Available API | New or Updated Parameters |
|---------------------------------------|-------------------------------------|
| AddDrives | forceDuringUpgrade |
| AddNodes | autoInstall |
| CloneVolume | enable512e |
| CreateStorageContainer | accountID |
| GetAsyncResult | keepResult |
| GetNvramInfo | force |
| ListAccounts | includeStorageContainers |
| ListActivePairedVolumes | limit startVolumeID |
| ListActiveVolumes | includeVirtualVolumes |
| ListDeletedVolumes | includeVirtualVolumes |
| ListGroupSnapshots | volumes groupSnapshotID |
| ListSnapshots | snapshotID |
| ListVolumeAccessGroups | volumeAccessGroups |
| ListVolumes | includeVirtualVolumes volumeName |
| ListVolumesForAccount | includeVirtualVolumes |
| ListVolumeStatsByAccount | accounts includeVirtualVolumes |
| ListVolumeStatsByVolumeAccessGroup | includeVirtualVolumes |
| ListVolumeStatsByVolume | includeVirtualVolumes |
| ModifyVolumeAccessGroup | deleteOrphanInitiators |
| ModifyVolumePair | pauseLimit |
| RemoveDrives | forceDuringUpgrade |
| RemoveInitiatorsFromVolumeAccessGroup | deleteOrphanInitiators |
| ResetNode | options reboot |
| TestPing | prohibitFragmentation |

All NetApp SolidFire SDK API Methods

The following SolidFire API methods are available in Java wrappers in NetApp SolidFire Java SDK version 1.4:

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

| Element OS 9 | Element OS 8 | Element OS 7 |
|---------------------------|---------------------------|-------------------------|
| DeleteSnapshot | DeleteSnapshot | DeleteSnapshot |
| DeleteStorageContainers | | |
| DeleteVolume | DeleteVolume | DeleteVolume |
| DeleteVolumeAccessGroup | DeleteVolumeAccessGroup | DeleteVolumeAccessGroup |
| DeleteVolumes | | |
| DisableEncryptionAtRest | DisableEncryptionAtRest | DisableEncryptionAtRest |
| DisableLdapAuthentication | DisableLdapAuthentication | |
| DisableSnmpp | DisableSnmpp | |
| EnableEncryptionAtRest | EnableEncryptionAtRest | EnableEncryptionAtRest |
| EnableFeature | | |
| EnableLdapAuthentication | EnableLdapAuthentication | |
| EnableSnmpp | EnableSnmpp | |
| GetAccountByID | GetAccountByID | GetAccountByID |
| GetAccountByName | GetAccountByName | GetAccountByName |
| GetAccountEfficiency | GetAccountEfficiency | GetAccountEfficiency |
| GetAPI | GetAPI | GetAPI |
| GetAsyncResult | GetAsyncResult | GetAsyncResult |
| GetBackupTarget | GetBackupTarget | GetBackupTarget |
| GetBootstrapConfig | GetBootstrapConfig | GetBootstrapConfig |
| GetClusterCapacity | GetClusterCapacity | GetClusterCapacity |
| GetClusterConfig | GetClusterConfig | GetClusterConfig |
| GetClusterFullThreshold | GetClusterFullThreshold | GetClusterFullThreshold |
| GetClusterHardwareInfo | GetClusterHardwareInfo | GetClusterHardwareInfo |
| GetClusterInfo | GetClusterInfo | GetClusterInfo |
| GetClusterMasterNodeID | GetClusterMasterNodeID | GetClusterMasterNodeID |
| GetClusterState | GetClusterState | GetClusterState |
| GetClusterStats | GetClusterStats | GetClusterStats |
| GetClusterVersionInfo | GetClusterVersionInfo | GetClusterVersionInfo |
| GetCompleteStats | GetCompleteStats | GetCompleteStats |
| GetConfig | GetConfig | GetConfig |
| GetCurrentClusterAdmin | GetCurrentClusterAdmin | GetCurrentClusterAdmin |
| GetDefaultQoS | GetDefaultQoS | GetDefaultQoS |
| GetDriveConfig | GetDriveConfig | GetDriveConfig |

| Element OS 9 | Element OS 8 | Element OS 7 |
|------------------------------------|------------------------------------|------------------------------------|
| GetDriveHardwareInfo | GetDriveHardwareInfo | GetDriveHardwareInfo |
| GetDriveStats | GetDriveStats | GetDriveStats |
| GetFeatureStatus | | |
| GetHardwareConfig | GetHardwareConfig | GetHardwareConfig |
| GetHardwareInfo | | |
| GetLdapConfiguration | GetLdapConfiguration | |
| GetLimits | GetLimits | GetLimits |
| GetLoginSessionInfo | GetLoginSessionInfo | GetLoginSessionInfo |
| GetNetworkConfig | GetNetworkConfig | GetNetworkConfig |
| GetNodeHardwareInfo | GetNodeHardwareInfo | GetNodeHardwareInfo |
| GetNodeStats | GetNodeStats | GetNodeStats |
| GetNtpInfo | GetNtpInfo | GetNtpInfo |
| GetNvramInfo | GetNvramInfo | GetNvramInfo |
| GetPendingOperation | GetPendingOperation | GetPendingOperation |
| GetRawStats | GetRawStats | GetRawStats |
| GetRemoteLoggingHosts | GetRemoteLoggingHosts | GetRemoteLoggingHosts |
| GetSchedule | GetSchedule | |
| GetSnmpACL | GetSnmpACL | |
| GetSnmpInfo | GetSnmpInfo | GetSnmpInfo |
| GetSnmpState | GetSnmpState | |
| GetSnmpTrapInfo | GetSnmpTrapInfo | GetSnmpTrapInfo |
| GetStorageContainerEfficiency | | |
| GetSystemStatus | GetSystemStatus | |
| GetVirtualVolumeCount | | |
| GetVirtualVolumeTaskUpdate | | |
| GetVirtualVolumeUnsharedChunks | | |
| GetVolumeAccessGroupEfficiency | GetVolumeAccessGroupEfficiency | GetVolumeAccessGroupEfficiency |
| GetVolumeAccessGroupLunAssignments | GetVolumeAccessGroupLunAssignments | GetVolumeAccessGroupLunAssignments |
| GetVolumeEfficiency | GetVolumeEfficiency | GetVolumeEfficiency |
| GetVolumeStats | GetVolumeStats | GetVolumeStats |
| InvokeSFApi | | |
| ListAccounts | ListAccounts | ListAccounts |
| ListActiveNodes | ListActiveNodes | ListActiveNodes |

| Element OS 9 | Element OS 8 | Element OS 7 |
|------------------------------|------------------------------|------------------------------|
| ListActivePairedVolumes | ListActivePairedVolumes | ListActivePairedVolumes |
| ListActiveVolumes | ListActiveVolumes | ListActiveVolumes |
| ListAllNodes | ListAllNodes | ListAllNodes |
| ListAsyncResults | ListAsyncResults | |
| ListBackupTargets | ListBackupTargets | ListBackupTargets |
| ListBulkVolumeJobs | ListBulkVolumeJobs | ListBulkVolumeJobs |
| ListClusterAdmins | ListClusterAdmins | ListClusterAdmins |
| ListClusterFaults | ListClusterFaults | ListClusterFaults |
| ListClusterPairs | ListClusterPairs | |
| ListDeletedVolumes | ListDeletedVolumes | ListDeletedVolumes |
| ListDriveHardware | ListDriveHardware | ListDriveHardware |
| ListDrives | ListDrives | ListDrives |
| ListDriveStats | | |
| ListEvents | ListEvents | ListEvents |
| ListFibreChannelPortInfo | ListFibreChannelPortInfo | |
| ListFibreChannelSessions | ListFibreChannelSessions | ListFibreChannelSessions |
| ListGroupSnapshots | ListGroupSnapshots | ListGroupSnapshots |
| ListInitiators | | |
| ListISCSISessions | ListISCSISessions | ListISCSISessions |
| ListNodeFibreChannelPortInfo | ListNodeFibreChannelPortInfo | ListNodeFibreChannelPortInfo |
| ListNodeStats | ListNodeStats | ListNodeStats |
| ListPendingNodes | ListPendingNodes | ListPendingNodes |
| ListProtocolEndpoints | | |
| ListSchedules | ListSchedules | |
| ListSnapshots | ListSnapshots | ListSnapshots |
| ListStorageContainers | | |
| ListSyncJobs | ListSyncJobs | ListSyncJobs |
| ListTests | ListTests | ListTests |
| ListUtilities | ListUtilities | ListUtilities |
| ListVirtualNetworks | ListVirtualNetworks | ListVirtualNetworks |
| ListVirtualVolumeBindings | | |
| ListVirtualVolumeHosts | | |
| ListVirtualVolumes | | |

| Element OS 9 | Element OS 8 | Element OS 7 |
|---------------------------------------|---------------------------------------|---------------------------------------|
| 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 | ModifyBackupTarget |
| ModifyClusterAdmin | ModifyClusterAdmin | ModifyClusterAdmin |
| ModifyClusterFullThreshold | ModifyClusterFullThreshold | ModifyClusterFullThreshold |
| ModifyGroupSnapshot | ModifyGroupSnapshot | |
| ModifyInitiators | | |
| ModifySchedule | ModifySchedule | |
| ModifySnapshot | ModifySnapshot | |
| ModifyStorageContainer | | |
| ModifyVirtualNetwork | ModifyVirtualNetwork | ModifyVirtualNetwork |
| ModifyVolume | ModifyVolume | ModifyVolume |
| ModifyVolumeAccessGroup | ModifyVolumeAccessGroup | ModifyVolumeAccessGroup |
| ModifyVolumeAccessGroupLunAssignments | ModifyVolumeAccessGroupLunAssignments | ModifyVolumeAccessGroupLunAssignments |
| ModifyVolumePair | ModifyVolumePair | ModifyVolumePair |
| ModifyVolumes | ModifyVolumes | |
| PrepareVirtualSnapshot | | |
| PurgeDeletedVolume | PurgeDeletedVolume | PurgeDeletedVolume |
| PurgeDeletedVolumes | | |
| RemoveAccount | RemoveAccount | RemoveAccount |
| RemoveBackupTarget | RemoveBackupTarget | RemoveBackupTarget |
| RemoveClusterAdmin | RemoveClusterAdmin | RemoveClusterAdmin |
| RemoveClusterPair | RemoveClusterPair | RemoveClusterPair |
| RemoveDrives | RemoveDrives | RemoveDrives |
| RemoveInitiatorsFromVolumeAccessGroup | RemoveInitiatorsFromVolumeAccessGroup | RemoveInitiatorsFromVolumeAccessGroup |

| Element OS 9 | Element OS 8 | Element OS 7 |
|------------------------------------|------------------------------------|------------------------------------|
| p | p | p |
| RemoveNodes | RemoveNodes | RemoveNodes |
| RemoveVirtualNetwork | RemoveVirtualNetwork | |
| RemoveVolumePair | RemoveVolumePair | |
| RemoveVolumesFromVolumeAccessGroup | RemoveVolumesFromVolumeAccessGroup | RemoveVolumesFromVolumeAccessGroup |
| ResetDrives | ResetDrives | ResetDrives |
| ResetNode | ResetNode | ResetNode |
| RestoreDeletedVolume | RestoreDeletedVolume | RestoreDeletedVolume |
| RollbackToGroupSnapshot | RollbackToGroupSnapshot | RollbackToGroupSnapshot |
| RollbackToSnapshot | RollbackToSnapshot | RollbackToSnapshot |
| SecureEraseDrives | SecureEraseDrives | SecureEraseDrives |
| SetClusterConfig | SetClusterConfig | SetClusterConfig |
| SetConfig | SetConfig | SetConfig |
| SetDefaultQoS | | |
| SetLoginSessionInfo | SetLoginSessionInfo | SetLoginSessionInfo |
| SetNetworkConfig | SetNetworkConfig | SetNetworkConfig |
| SetNtpInfo | SetNtpInfo | SetNtpInfo |
| SetRemoteLoggingHosts | SetRemoteLoggingHosts | SetRemoteLoggingHosts |
| SetSnmpACL | SetSnmpACL | |
| SetSnmpInfo | SetSnmpInfo | SetSnmpInfo |
| SetSnmpTrapInfo | SetSnmpTrapInfo | |
| SnmpSendTestTraps | SnmpSendTestTraps | |
| StartBulkVolumeRead | StartBulkVolumeRead | StartBulkVolumeRead |
| StartBulkVolumeWrite | StartBulkVolumeWrite | StartBulkVolumeWrite |
| StartClusterPairing | StartClusterPairing | StartClusterPairing |
| StartVolumePairing | StartVolumePairing | StartVolumePairing |
| TestConnectEnsemble | TestConnectEnsemble | TestConnectEnsemble |
| TestConnectMvip | TestConnectMvip | TestConnectMvip |
| TestConnectSvip | TestConnectSvip | TestConnectSvip |
| TestDrives | TestDrives | TestDrives |
| TestLdapAuthentication | TestLdapAuthentication | |
| TestPing | TestPing | TestPing |
| UpdateBulkVolumeStatus | UpdateBulkVolumeStatus | UpdateBulkVolumeStatus |

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

Contacting NetApp SolidFire SDK Support

If you have any questions or comments about this product, open an issue on our [GitHub repo](#) or reach out to the online developer community at [ThePub](#). Your feedback helps us focus our efforts on new features and capabilities.



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