NetApp SolidFire .NET SDK Release Notes

Version: v1.1

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Introduction

The SolidFire .NET SDK is a collection of libraries that facilitate integration and orchestration between proprietary systems and third-party applications. The .NET SDK allows developers to deeply integrate SolidFire system API with the C# or Visual Basic programming languages. The SolidFire .NET SDK reduces the amount of additional coding time required for integration.

The intended audience for this document is C# or Visual Basic developers who are responsible for integrating SolidFire into other applications.

Installing the SolidFire .NET SDK

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

Prerequisites

- NuGet package manager for the Microsoft development platform including .NET.
- Microsoft .NET Framework 4.5 or later.
- Visual Studio 2012 or later.
- SolidFire Element OS version 7 or 8.

Procedure

1. Open the Nuget Package Manager Console in Visual Studio by selecting **Tools > Nuget Package Manager > Package Manager Console**.
2. From the **Package source** drop-down menu, select **nuget.org**.
3. Type the following command in the Package Manager Console command prompt:

   ```
   Install-Package SolidFire.SDK
   ```

4. Review the GitHub project page for examples of higher level classes and links to supplemental MSDN documentation.

What's New in this Release

The .NET SDK version 1.1 release expands the available set of SolidFire Element OS version 8.0 Oxygen APIs.

New SolidFire SDK API Methods

The following new SolidFire API methods are available in .NET wrappers in SolidFire .NET SDK version 1.1:

Element OS 8
AddClusterAdmin
AddDrives
AddNodes
AddVirtualNetwork
ClearClusterFaults
CloneMultipleVolumes
CreateBackupTarget

Element OS 8
CreateSchedule
CompleteClusterPairing
CompleteVolumePairing
DisableEncryptionAtRest
DisableSnmp
EnableEncryptionAtRest
EnableSnmp
GetAccountEfficiency
GetBackupTarget
GetClusterCapacity
GetClusterConfig
GetClusterFullThreshold
GetClusterInfo
GetClusterStats
GetClusterVersionInfo
GetCompleteStats
GetConfig
GetCurrentClusterAdmin
GetDriveHardwareInfo
GetDriveStats
GetLimits
GetNetworkConfig
GetNodeStats
GetRawStats
GetSchedule
GetSnmpACL
GetSnmpInfo
GetSnmpState
GetSnmpTrapInfo
GetVolumeAccessGroupEfficiency
ListActiveNodes
ListActivePairedVolumes

Element OS 8
ListAllNodes
ListBackupTargets
ListClusterAdmins
ListClusterFaults
ListClusterPairs
ListDriveHardware
ListDrives
ListEvents
ListISCSISessions
ListNodeStats
ListPendingNodes
ListSchedules
ListTests
ListUtilities
ListVirtualNetworks
ModifyBackupTarget
ModifyClusterAdmin
ModifyClusterFullThreshold
ModifySchedule
ModifyVirtualNetwork
ModifyVolumePair
RemoveBackupTarget
RemoveClusterAdmin
RemoveClusterPair
RemoveDrives
RemoveNodes
RemoveVirtualNetwork
RemoveVolumePair
ResetDrives
SecureEraseDrives
SetClusterConfig
SetConfig

Element OS 8
SetNetworkConfig
SetSnmpACL
SetSnmpInfo
SetSnmpTrapInfo
SnmpSendTestTraps
StartClusterPairing
StartVolumePairing
TestConnectEnsemble
TestConnectMvip
TestConnectSvip
TestDrives
TestPing

All SolidFire SDK API Methods

The following SolidFire API methods are available in .NET wrappers in SolidFire .NET SDK version 1.1:

Element OS 8	Element OS 7
AddAccount	AddAccount
AddClusterAdmin	
AddInitiatorsToVolumeAccessGroup	AddInitiatorsToVolumeAccessGroup
AddDrives	
AddNodes	
AddVirtualNetwork	
AddVolumesToVolumeAccessGroup	AddVolumesToVolumeAccessGroup
ClearClusterFaults	
CloneMultipleVolumes	
CloneVolume	CloneVolume
CompleteClusterPairing	
CompleteVolumePairing	
CreateBackupTarget	
CreateGroupSnapshot	CreateGroupSnapshot
CreateSchedule	
CreateSnapshot	CreateSnapshot

Element OS 8	Element OS 7
CreateVolume	CreateVolume
CreateVolumeAccessGroup	CreateVolumeAccessGroup
DeleteGroupSnapshot	DeleteGroupSnapshot
DeleteSnapshot	DeleteSnapshot
DeleteVolume	DeleteVolume
DeleteVolumeAccessGroup	DeleteVolumeAccessGroup
DisableEncryptionAtRest	
DisableSnmp	
EnableEncryptionAtRest	
EnableSnmp	
GetAccountByID	GetAccountByID
GetAccountByName	GetAccountByName
GetAccountEfficiency	
GetAPI	GetAPI
GetAsyncResult	GetAsyncResult
GetBackupTarget	
GetClusterCapacity	
GetClusterConfig	
GetClusterFullThreshold	
GetClusterInfo	
GetClusterStats	
GetClusterVersionInfo	
GetCompleteStats	
GetConfig	
GetCurrentClusterAdmin	
GetDriveHardwareInfo	
GetDriveStats	
GetLimits	
GetNetworkConfig	
GetNodeStats	
GetRawStats	
GetSchedule	

Element OS 8	Element OS 7
GetSnmpACL	
GetSnmpInfo	
GetSnmpState	
GetSnmpTrapInfo	
GetVolumeAccessGroupEfficiency	
GetVolumeEfficiency	GetVolumeEfficiency
GetVolumeStats	GetVolumeStats
ListAccounts	ListAccounts
ListActiveNodes	
ListActivePairedVolumes	
ListActiveVolumes	ListActiveVolumes
ListAllNodes	
ListBackupTargets	
ListClusterAdmins	
ListClusterFaults	
ListClusterPairs	
ListDeletedVolumes	ListDeletedVolumes
ListDriveHardware	
ListDrives	
ListEvents	
ListGroupSnapshots	ListGroupSnapshots
ListISCSISessions	
ListNodeStats	
ListPendingNodes	
ListSchedules	
ListSnapshots	ListSnapshots
ListTests	
ListUtilities	
ListVirtualNetworks	
ListVolumeAccessGroups	ListVolumeAccessGroups
ListVolumes	
ListVolumesForAccount	ListVolumesForAccount

Element OS 8	Element OS 7
ListVolumeStatsByAccount	ListVolumeStatsByAccount
ListVolumeStatsByVolume	ListVolumeStatsByVolume
ListVolumeStatsByVolumeAccessGroup	ListVolumeStatsByVolumeAccessGroup
ModifyAccount	ModifyAccount
ModifyBackupTarget	
ModifyClusterAdmin	
ModifyClusterFullThreshold	
ModifyGroupSnapshot	
ModifySchedule	
ModifySnapshot	
ModifyVirtualNetwork	
ModifyVolume	ModifyVolume
ModifyVolumeAccessGroup	ModifyVolumeAccessGroup
ModifyVolumePair	
PurgeDeletedVolume	PurgeDeletedVolume
RemoveAccount	RemoveAccount
RemoveBackupTarget	
RemoveClusterAdmin	
RemoveClusterPair	
RemoveDrives	
RemoveInitiatorsFromVolumeAccessGroup	RemoveInitiatorsFromVolumeAccessGroup
RemoveNodes	
RemoveVirtualNetwork	
RemoveVolumesFromVolumeAccessGroup	RemoveVolumesFromVolumeAccessGroup
RemoveVolumePair	
ResetDrives	
RestoreDeletedVolume	RestoreDeletedVolume
RollbackToGroupSnapshot	RollbackToGroupSnapshot
RollbackToSnapshot	RollbackToSnapshot
SecureEraseDrives	
SetClusterConfig	
SetConfig	

Element OS 8	Element OS 7
SetNetworkConfig	
SetSnmpACL	
SetSnmpInfo	
SetSnmpTrapInfo	
SnmpSendTestTraps	
StartClusterPairing	
StartVolumePairing	
TestConnectEnsemble	
TestConnectMvip	
TestConnectSvip	
TestDrives	
TestPing	

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.

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