



**NetApp Element**

# **Java SDK Release Notes**

Version 1.7

November 2020 | 215-15176\_A0\_UR001  
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# Introduction

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The NetApp Element 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 Element storage-based system API with their Java programming language. The NetApp Element 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 NetApp Element into other applications.

**Note:** All version 1.7 SDK languages have identical Element storage functionality and available APIs.

## Support and dependencies

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The NetApp Element Java SDK supports and depends on software and components.

### Support matrix

- Java: Versions 7.0 and 8.0
- NetApp Element software: Versions 10.0 through 12.2

### Dependency matrix

- base64: Version 2.3.9
- solidfire.code.gson: Version 2.6.2
- joda-time: Version 2.9.3
- joda-convert: Version 1.8.1
- slf4j-api: Version 1.7.25

## Downloading the NetApp Element Java SDK

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

### Steps

1. Download the most recent JAR from the NetApp Support Site to a local or network directory that is accessible to the system from which you will be running Java commands.
2. Extract the files and directories.
3. Include the `solidfire-sdk-java-<version number>.jar` binary in your Java development environment classpath.
4. Review the documentation inside the `docs` directory for information on classes and APIs.

## What's new in this release

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The Element SDK version 1.7 release expands supported NetApp Element software API methods through version 12.2. This release also contains revised parameters for existing methods.

### NetApp Element SDK API methods

NetApp Element SDK version 1.7 provides Element storage API methods. The availability of each API depends on the version of Element software.

- [New API methods for Element software 12](#) on page 6
- [New API methods for Element software 11](#) on page 7
- [New API methods for Element software 10](#) on page 8

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

### New API methods for Element software 12

NetApp Element SDK version 1.7 includes Element 12 methods.

The following version 12.2 API methods have been added to all SDK languages:

#### Cluster

- DisableMaintenanceMode
- EnableMaintenanceMode
- GetLicenseKey
- SetLicenseKey

The following version 12.0 API methods have been added to all SDK languages:

#### Cluster

- DeleteAuthSession
- DeleteAuthSessionsByClusterAdmin
- DeleteAuthSessionsByUsername
- GetBinAssignmentProperties
- GetProtectionDomainLayout
- ListActiveAuthSessions
- ListAuthSessionsByClusterAdmin
- ListAuthSessionsByUsername
- SetProtectionDomainLayout

#### IDP

- AddIdpClusterAdmin
- CreateIdpConfiguration
- DeleteIdpConfiguration
- DisableIdpAuthentication
- EnableIdpAuthentication
- GetIdpAuthentication
- ListIdpConfigurations
- UpdateIdpConfiguration

## New API methods for Element software 11

NetApp Element SDK version 1.6 includes Element 11 methods.

The following version 11.8 API methods have been added to all SDK languages:

### Cluster

- CreateClusterInterfacePreference
- CheckProposedNodeAdditions
- DeleteClusterInterfacePreference
- GetActiveTlsCiphers
- GetClusterInterfacePreference
- GetClusterStructure
- GetSupportedTlsCiphers
- ListClusterInterfacePreferences
- ListProtectionDomainLevels
- ModifyClusterInterfacePreference
- ResetSupplementalTlsCiphers
- SetClusterStructure (Not supported in Python SDK and the CLI)
- SetSupplementalTlsCiphers
- TestAddressAvailability

### Node

- CheckProposedCluster
- ControlPower
- DisableAutoIp
- EnableAutoIp
- GetLldpConfig
- GetNodeFipsDrivesReport
- SetLldpConfig

### Security

- AddKeyServerToProviderKmp
- CreateKeyProviderKmp
- CreateKeyServerKmp
- CreatePublicPrivateKeyPair
- DeleteKeyProviderKmp
- DeleteKeyServerKmp
- GetClientCertificateSignRequest
- GetFipsReport
- GetKeyProviderKmp
- GetKeyServerKmp
- ListKeyProvidersKmp
- ListKeyServersKmp
- ModifyKeyServerKmp
- RemoveKeyServerFromProviderKmp
- TestKeyProviderKmp
- TestKeyServerKmp

### SnapMirror

- AbortSnapMirrorRelationship

- BreakSnapMirrorRelationship
- CreateSnapMirrorEndpointUnmanaged
- CreateSnapMirrorRelationship
- CreateSnapMirrorVolume
- DeleteSnapMirrorRelationships
- GetOntapVersionInfo
- GetSnapMirrorClusterIdentity
- InitializeSnapMirrorRelationship
- ListSnapMirrorAggregates
- ListSnapMirrorLuns
- ListSnapMirrorNetworkInterfaces
- ListSnapMirrorNodes
- ListSnapMirrorPolicies
- ListSnapMirrorRelationships
- ListSnapMirrorSchedules
- ListSnapMirrorVolumes
- ListSnapMirrorVservers
- ModifySnapMirrorEndpointUnmanaged
- ModifySnapMirrorRelationship
- QuiesceSnapMirrorRelationship
- ResumeSnapMirrorRelationship
- ResyncSnapMirrorRelationship
- UpdateSnapMirrorRelationship

#### SSH sessions

- DisableClusterSSH
- EnableClusterSSH
- GetClusterSSHInfo

## New API methods for Element software 10

NetApp Element SDK version 1.6 includes Element 10 methods.

New API methods for Element software 10 are listed below.

- GetNodeSSLCertificate
- RemoveNodeSSLCertificate
- SetNodeSSLCertificate

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



# Known issues

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The following APIs are not supported in the Element Java SDK version 1.7 release.

API Name	Description
TestDrives	The SDK is unable to parse the response received from the cluster.
CheckPingOnVlan	The SDK is unable to parse the response received from the cluster.
DeleteVolumeAccessGroup	The "forced" input parameter is not supported.
ModifyVolumeAccessGroup	The following input parameters are not supported: <ul style="list-style-type: none"><li>virtualNetworkID</li><li>virtualNetworkTags</li></ul>

## Where to find product documentation and other information

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You can learn more about using and managing NetApp HCI and SolidFire all-flash storage from the resources available in the Documentation Centers and Resources pages for both products.

In the Documentation Centers, you can also find information about hardware installation and maintenance, additional content resources available, links to known issues and resolved issues, and the latest release notes. On the Resources pages, you can find links to data sheets, technical reports, white papers, and videos.

- [\*NetApp HCI Documentation\*](#)
- [\*NetApp HCI Documentation Center\*](#)
- [\*NetApp HCI Resources page\*](#)
- [\*SolidFire and Element 12.2 Documentation Center\*](#)
- [\*SolidFire and Element 12.0 Documentation Center\*](#)
- [\*SolidFire and Element 11.8 Documentation Center\*](#)
- [\*SolidFire and Element 11.7 Documentation Center\*](#)
- [\*SolidFire and Element 11.5 Documentation Center\*](#)
- [\*SolidFire Resources page\*](#)

## Contact NetApp Support

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If you need help with or have questions or comments about NetApp products, contact NetApp Support.

- Web:  
[mysupport.netapp.com](https://mysupport.netapp.com)
- Phone:
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  - 00.800.44.638277 (EMEA/Europe)
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To help us direct your comments to the correct division, include in the subject line the product name, version, and operating system.

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