

# Patcher Javascript API

## 3.1.6.0

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## Chapter 1

# Patcher Javascript API

### 1.1 Overview

The patcher javascript API allows users to integrate with objects implemented using the patcher API.

The usage of this API is restricted to entities which have signed a license agreement with Solid State Networks, Inc.

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## Chapter 2

# Class Index

### 2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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## Chapter 3

# File Index

### 3.1 File List

Here is a list of all documented files with brief descriptions:

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# Chapter 4

## Class Documentation

### 4.1 FileError Class Reference

File error constants and helper functions.

#### Public Member Functions

- string `nameFromId` (string `id`)

#### Public Attributes

- int `DISKSPACE`
- int `LOCKED`
- int `NONE`
- int `UNKNOWN`

#### 4.1.1 Detailed Description

File error constants and helper functions.

#### 4.1.2 Member Function Documentation

##### 4.1.2.1 string FileError.nameFromId ( string *id* )

converts a file error to a string

#### Parameters

<i>id</i>	file error.
-----------	-------------

**Returns**

stringified name of file error.

**4.1.3 Member Data Documentation****4.1.3.1 int FileError.DISKSPACE**

File path run out of disk space

**4.1.3.2 int FileError.LOCKED**

File locked

**4.1.3.3 int FileError.NONE**

No error

**4.1.3.4 int FileError.UNKNOWN**

Unknown error

The documentation for this class was generated from the following file:

- [fileerror.js](#)

**4.2 Patch Class Reference**

Extract a patch.

**Public Member Functions**

- void [fail](#) ()
- string [getBytesLeft](#) ()
- string [getCurrentItemCompressedSize](#) ()
- string [getCurrentItemDiskFileName](#) ()
- string [getCurrentItemDiskOffset](#) ()
- string [getFileName](#) ()
- string [getOutputDirectory](#) ()
- double [getRemainingTime](#) ()
- bool [getStalled](#) ()
- string [getTotalBytes](#) ()
- string [getWriteRates](#) ()
- void [release](#) ()

- void [resume](#) ()
- void [setFileName](#) (string value)
- void [setOutputDirectory](#) (string value)
- void [skip](#) ()
- void [start](#) ()

### Public Attributes

- string [instanceId](#)
- event [onComplete](#)
- event [onCorruptDestFile](#)
- event [onCorruptSourceFile](#)
- event [onDidPatchFile](#)
- event [onFileError](#)
- event [onPrepareComplete](#)
- event [onPreparePatchFile](#)
- event [onProgress](#)
- event [onStart](#)
- event [onWillPatchFile](#)

#### 4.2.1 Detailed Description

Extract a patch.

#### 4.2.2 Member Function Documentation

##### 4.2.2.1 void Patch.fail ( )

Fail the patch after an action has stalled.

##### 4.2.2.2 string Patch.getBytesLeft ( )

gets the bytes left in the patch. (64-bit number).

#### Returns

bytes left in the patch. (64-bit number).

##### 4.2.2.3 string Patch.getCurrentItemCompressedSize ( )

gets the compressed size of the file in the zip.

#### Returns

Compressed size of the file in the zip.

#### 4.2.2.4 string Patch.getCurrentItemDiskFileName ( )

gets the the zip file currently being used to patched.

##### Returns

the zip file currently being used to patched.

#### 4.2.2.5 string Patch.getCurrentItemDiskOffset ( )

gets the offset in the zip where the patch file exists.

##### Returns

Offset in the zip where the patch file exists.

#### 4.2.2.6 string Patch.GetFileName ( )

gets the file name of path.

##### Returns

File name of path.

#### 4.2.2.7 string Patch.getOutputDirectory ( )

gets the location where patch is applied.

##### Returns

Location where patch is applied.

#### 4.2.2.8 double Patch.getRemainingTime ( )

gets the estimated time remaining in a patch.

##### Returns

estimated time remaining in a patch.

#### 4.2.2.9 bool Patch.getStalled ( )

gets the is the patch stalled waiting for a decision.

##### Returns

Is the patch stalled waiting for a decision.

**4.2.2.10** `string Patch.getTotalBytes ( )`

gets the size of the patch. (64-bit number).

**Returns**

size of the patch. (64-bit number).

**4.2.2.11** `string Patch.getWriteRates ( )`

gets the json object containing the rate of the current/average/max throughput for patch writes.

**Returns**

json object containing the rate of the current/average/max throughput for patch writes.

**4.2.2.12** `void Patch.release ( )`

releases the object

**4.2.2.13** `void Patch.resume ( )`

Resume the patch file after an action has stalled.

**4.2.2.14** `void Patch.setFileName ( string value )`

sets the file name of path.

**Parameters**

<i>value</i>	File name of path.
--------------	--------------------

**4.2.2.15** `void Patch.setOutputDirectory ( string value )`

sets the location where patch is applied.

**Parameters**

<i>value</i>	Location where patch is applied.
--------------	----------------------------------

**4.2.2.16** `void Patch.skip ( )`

Skip the patch file after an action has stalled.

#### 4.2.2.17 void Patch.start ( )

Starts the patch manifest.

### 4.2.3 Member Data Documentation

#### 4.2.3.1 string Patch.instanceId

Instance id used to bind proxy object to native object

#### 4.2.3.2 event Patch.onComplete

Triggered when the patch is complete.

##### Parameters

<i>successful</i>	true if the patch was successful, false otherwise.
-------------------	----------------------------------------------------

#### 4.2.3.3 event Patch.onCorruptDestFile

Triggered when the patch has detected a corrupt dest file.

##### Parameters

<i>name</i>	Name of the corrupt file
-------------	--------------------------

#### 4.2.3.4 event Patch.onCorruptSourceFile

Triggered when the patch has detected a corrupt source file.

##### Parameters

<i>name</i>	Name of the corrupt file
-------------	--------------------------

#### 4.2.3.5 event Patch.onDidPatchFile

Triggered after a file is patched.

##### Parameters

<i>name</i>	Name of the file to patched
<i>successful</i>	was the patch successfully applied.

#### 4.2.3.6 event `Patch.onFileError`

Triggered when the patch encounters a file error.

##### Parameters

<i>name</i>	File where the error was generated.
<i>error</i>	Number value representing file error.

#### 4.2.3.7 event `Patch.onPrepareComplete`

Triggered when the patch preparation is complete.

##### Parameters

<i>successful</i>	true if the patch preparation was successful, false otherwise.
-------------------	----------------------------------------------------------------

#### 4.2.3.8 event `Patch.onPreparePatchFile`

Triggered before patch starts on each file in the patch.

##### Parameters

<i>name</i>	Name of the file to be patched
-------------	--------------------------------

#### 4.2.3.9 event `Patch.onProgress`

Triggered when the patch has made progress.

##### Parameters

<i>percent</i>	(-1.0: Still calculating) (0.0 to 1.0: Percent completed)
----------------	-----------------------------------------------------------

#### 4.2.3.10 event `Patch.onStart`

Triggered when patch is started.

#### 4.2.3.11 event `Patch.onWillPatchFile`

Triggered before a file is patched.

##### Parameters

<i>name</i>	Name of the file to be patched
-------------	--------------------------------

### Returns

bool: true to patch file, false to skip.

The documentation for this class was generated from the following file:

- [patch.js](#)

## 4.3 PatchManager Class Reference

Manages patches and provides an integrated event structure.

### Public Member Functions

- void [addManifestAddedEventHandler](#) (event handler)
- void [addManifestCompleteEventHandler](#) (event handler)
- void [addManifestDependencyEventHandler](#) (event handler)
- void [addManifestRemovedEventHandler](#) (event handler)
- void [addManifestRequiredCompleteEventHandler](#) (event handler)
- void [addManifestStartEventHandler](#) (event handler)
- void [addManifestStateChangeEventHandler](#) (event handler)
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- void [addPatchCompleteEventHandler](#) (event handler)
- void [addPatchCorruptDestFileEventHandler](#) (event handler)
- void [addPatchCorruptSourceFileEventHandler](#) (event handler)
- void [addPatchDidPatchFileEventHandler](#) (event handler)
- void [addPatchDownloadErrorEventHandler](#) (event handler)
- void [addPatchFileErrorEventHandler](#) (event handler)
- patchManifestItem [addPatchManifest](#) (string manifestUrl)
- void [addPatchPrepareCompleteEventHandler](#) (event handler)
- void [addPatchPreparePatchFileEventHandler](#) (event handler)
- void [addPatchProgressEventHandler](#) (event handler)
- void [addPatchStartEventHandler](#) (event handler)
- void [addPatchWillPatchFileEventHandler](#) (event handler)
- void [manifestById](#) (string id)
- void [release](#) ()
- void [removeManifestAddedEventHandler](#) (event handler)
- void [removeManifestCompleteEventHandler](#) (event handler)
- void [removeManifestDependencyEventHandler](#) (event handler)
- void [removeManifestRemovedEventHandler](#) (event handler)
- void [removeManifestRequiredCompleteEventHandler](#) (event handler)
- void [removeManifestStartEventHandler](#) (event handler)
- void [removeManifestStateChangeEventHandler](#) (event handler)



- void [removeManifestVerifyCompleteEventHandler](#) (event handler)
- void [removeManifestVerifyProgressEventHandler](#) (event handler)
- void [removeManifestVerifyStartEventHandler](#) (event handler)
- void [removePatchCompleteEventHandler](#) (event handler)
- void [removePatchCorruptDestFileEventHandler](#) (event handler)
- void [removePatchCorruptSourceFileEventHandler](#) (event handler)
- void [removePatchDidPatchFileEventHandler](#) (event handler)
- void [removePatchDownloadErrorEventHandler](#) (event handler)
- void [removePatchFileErrorEventHandler](#) (event handler)
- bool [removePatchManifest](#) (string id)
- void [removePatchPrepareCompleteEventHandler](#) (event handler)
- void [removePatchPreparePatchFileEventHandler](#) (event handler)
- void [removePatchProgressEventHandler](#) (event handler)
- void [removePatchStartEventHandler](#) (event handler)
- void [removePatchWillPatchFileEventHandler](#) (event handler)
- patchManifestItem [repairPatchManifest](#) (string manifestUrl, array maskedFiles)
- void [rootManifestById](#) (string id)
- void [rootManifestByIdById](#) (string id)
- void [verifyManifestById](#) (string manifestId, bool quickScan)

### 4.3.1 Detailed Description

Manages patches and provides an integrated event structure.

### 4.3.2 Member Function Documentation

#### 4.3.2.1 void PatchManager.addManifestAddedEventHandler ( event handler )

subscribe to the ManifestAdded event

##### Parameters

<i>handler</i>	callback function for ManifestAdded event
----------------	-------------------------------------------

#### 4.3.2.2 void PatchManager.addManifestCompleteEventHandler ( event handler )

subscribe to the ManifestComplete event

##### Parameters

<i>handler</i>	callback function for ManifestComplete event
----------------	----------------------------------------------

#### 4.3.2.3 void PatchManager.addManifestDependencyEventHandler ( event handler )

subscribe to the ManifestDependency event

**Parameters**

<i>handler</i>	callback function for ManifestDependency event
----------------	------------------------------------------------

**4.3.2.4 void PatchManager.addManifestRemovedEventHandler ( event *handler* )**

subscribe to the ManifestRemoved event

**Parameters**

<i>handler</i>	callback function for ManifestRemoved event
----------------	---------------------------------------------

**4.3.2.5 void PatchManager.addManifestRequiredCompleteEventHandler ( event *handler* )**

subscribe to the ManifestRequiredComplete event

**Parameters**

<i>handler</i>	callback function for ManifestRequiredComplete event
----------------	------------------------------------------------------

**4.3.2.6 void PatchManager.addManifestStartEventHandler ( event *handler* )**

subscribe to the ManifestStart event

**Parameters**

<i>handler</i>	callback function for ManifestStart event
----------------	-------------------------------------------

**4.3.2.7 void PatchManager.addManifestStateChangeEventHandler ( event *handler* )**

subscribe to the ManifestStateChange event

**Parameters**

<i>handler</i>	callback function for ManifestStateChange event
----------------	-------------------------------------------------

**4.3.2.8 void PatchManager.addManifestVerifyCompleteEventHandler ( event *handler* )**

subscribe to the ManifestVerifyComplete event

**Parameters**

<i>handler</i>	callback function for ManifestVerifyComplete event
----------------	----------------------------------------------------

**4.3.2.9 void PatchManager.addManifestVerifyProgressEventHandler ( event handler )**

subscribe to the ManifestVerifyProgress event

**Parameters**

<i>handler</i>	callback function for ManifestVerifyProgress event
----------------	----------------------------------------------------

**4.3.2.10 void PatchManager.addManifestVerifyStartEventHandler ( event handler )**

subscribe to the ManifestVerifyStart event

**Parameters**

<i>handler</i>	callback function for ManifestVerifyStart event
----------------	-------------------------------------------------

**4.3.2.11 void PatchManager.addPatchCompleteEventHandler ( event handler )**

subscribe to the PatchComplete event

**Parameters**

<i>handler</i>	callback function for PatchComplete event
----------------	-------------------------------------------

**4.3.2.12 void PatchManager.addPatchCorruptDestFileEventHandler ( event handler )**

subscribe to the PatchCorruptDestFile event

**Parameters**

<i>handler</i>	callback function for PatchCorruptDestFile event
----------------	--------------------------------------------------

**4.3.2.13 void PatchManager.addPatchCorruptSourceFileEventHandler ( event handler )**

subscribe to the PatchCorruptSourceFile event

**Parameters**

<i>handler</i>	callback function for PatchCorruptSourceFile event
----------------	----------------------------------------------------

**4.3.2.14 void PatchManager.addPatchDidPatchFileEventHandler ( event handler )**

subscribe to the PatchDidPatchFile event

**Parameters**

<i>handler</i>	callback function for PatchDidPatchFile event
----------------	-----------------------------------------------

**4.3.2.15 void PatchManager.addPatchDownloadErrorEventHandler ( event *handler* )**

subscribe to the PatchDownloadError event

**Parameters**

<i>handler</i>	callback function for PatchDownloadError event
----------------	------------------------------------------------

**4.3.2.16 void PatchManager.addPatchFileErrorEventHandler ( event *handler* )**

subscribe to the PatchFileError event

**Parameters**

<i>handler</i>	callback function for PatchFileError event
----------------	--------------------------------------------

**4.3.2.17 patchManifestItem PatchManager.addPatchManifest ( string *manifestUrl* )**

adds patch to the manager

**Parameters**

<i>manifestUrl</i>	url to the manifest file
--------------------	--------------------------

**Returns**

patchManifestItem containing the id and patch manifest

**4.3.2.18 void PatchManager.addPatchPrepareCompleteEventHandler ( event *handler* )**

subscribe to the PatchPrepareComplete event

**Parameters**

<i>handler</i>	callback function for PatchPrepareComplete event
----------------	--------------------------------------------------

**4.3.2.19 void PatchManager.addPatchPreparePatchFileEventHandler ( event *handler* )**

subscribe to the PatchPreparePatchFile event

**Parameters**

<i>handler</i>	callback function for PatchPreparePatchFile event
----------------	---------------------------------------------------

**4.3.2.20 void PatchManager.addPatchProgressEventHandler ( event *handler* )**

subscribe to the PatchProgress event

**Parameters**

<i>handler</i>	callback function for PatchProgress event
----------------	-------------------------------------------

**4.3.2.21 void PatchManager.addPatchStartEventHandler ( event *handler* )**

subscribe to the PatchStart event

**Parameters**

<i>handler</i>	callback function for PatchStart event
----------------	----------------------------------------

**4.3.2.22 void PatchManager.addPatchWillPatchFileEventHandler ( event *handler* )**

subscribe to the PatchWillPatchFile event

**Parameters**

<i>handler</i>	callback function for PatchWillPatchFile event
----------------	------------------------------------------------

**4.3.2.23 void PatchManager.manifestById ( string *id* )**

returns the patch manifest by the assigned id

**Parameters**

<i>id</i>	patch manifest id assigned by manager
-----------	---------------------------------------

**4.3.2.24 void PatchManager.release ( )**

releases the download manager

**4.3.2.25 void PatchManager.removeManifestAddedEventHandler ( event *handler* )**

unsubscribe from the ManifestAdded event

**Parameters**

<i>handler</i>	callback function for ManifestAdded event
----------------	-------------------------------------------

**4.3.2.26 void PatchManager.removeManifestCompleteEventHandler ( event *handler* )**

unsubscribe from the ManifestComplete event

**Parameters**

<i>handler</i>	callback function for ManifestComplete event
----------------	----------------------------------------------

**4.3.2.27 void PatchManager.removeManifestDependencyEventHandler ( event *handler* )**

unsubscribe from the ManifestDependency event

**Parameters**

<i>handler</i>	callback function for ManifestDependency event
----------------	------------------------------------------------

**4.3.2.28 void PatchManager.removeManifestRemovedEventHandler ( event *handler* )**

unsubscribe from the ManifestRemoved event

**Parameters**

<i>handler</i>	callback function for ManifestRemoved event
----------------	---------------------------------------------

**4.3.2.29 void PatchManager.removeManifestRequiredCompleteEventHandler ( event *handler* )**

unsubscribe from the ManifestRequiredComplete event

**Parameters**

<i>handler</i>	callback function for ManifestRequiredComplete event
----------------	------------------------------------------------------

**4.3.2.30 void PatchManager.removeManifestStartEventHandler ( event *handler* )**

unsubscribe from the ManifestStart event

**Parameters**

<i>handler</i>	callback function for ManifestStart event
----------------	-------------------------------------------

**4.3.2.31 void PatchManager.removeManifestStateChangeEventHandler ( event *handler* )**

unsubscribe from the ManifestStateChange event

**Parameters**

<i>handler</i>	callback function for ManifestStateChange event
----------------	-------------------------------------------------

**4.3.2.32 void PatchManager.removeManifestVerifyCompleteEventHandler ( event *handler* )**

unsubscribe from the ManifestVerifyComplete event

**Parameters**

<i>handler</i>	callback function for ManifestVerifyComplete event
----------------	----------------------------------------------------

**4.3.2.33 void PatchManager.removeManifestVerifyProgressEventHandler ( event *handler* )**

unsubscribe from the ManifestVerifyProgress event

**Parameters**

<i>handler</i>	callback function for ManifestVerifyProgress event
----------------	----------------------------------------------------

**4.3.2.34 void PatchManager.removeManifestVerifyStartEventHandler ( event *handler* )**

unsubscribe from the ManifestVerifyStart event

**Parameters**

<i>handler</i>	callback function for ManifestVerifyStart event
----------------	-------------------------------------------------

**4.3.2.35 void PatchManager.removePatchCompleteEventHandler ( event *handler* )**

unsubscribe from the PatchComplete event

**Parameters**

<i>handler</i>	callback function for PatchComplete event
----------------	-------------------------------------------

**4.3.2.36 void PatchManager.removePatchCorruptDestFileEventHandler ( event *handler* )**

unsubscribe from the PatchCorruptDestFile event

**Parameters**

<i>handler</i>	callback function for PatchCorruptDestFile event
----------------	--------------------------------------------------

**4.3.2.37 void PatchManager.removePatchCorruptSourceFileEventHandler ( event *handler* )**

unsubscribe from the PatchCorruptSourceFile event

**Parameters**

<i>handler</i>	callback function for PatchCorruptSourceFile event
----------------	----------------------------------------------------

**4.3.2.38 void PatchManager.removePatchDidPatchFileEventHandler ( event *handler* )**

unsubscribe from the PatchDidPatchFile event

**Parameters**

<i>handler</i>	callback function for PatchDidPatchFile event
----------------	-----------------------------------------------

**4.3.2.39 void PatchManager.removePatchDownloadErrorEventHandler ( event *handler* )**

unsubscribe from the PatchDownloadError event

**Parameters**

<i>handler</i>	callback function for PatchDownloadError event
----------------	------------------------------------------------

**4.3.2.40 void PatchManager.removePatchFileErrorEventHandler ( event *handler* )**

unsubscribe from the PatchFileError event

**Parameters**

<i>handler</i>	callback function for PatchFileError event
----------------	--------------------------------------------

**4.3.2.41 bool PatchManager.removePatchManifest ( string *id* )**

removes a patch manifest from the manager

**Parameters**

<i>id</i>	id of the patch manifest to remove
-----------	------------------------------------

**Returns**

true if the item was successfully removed, false otherwise

**4.3.2.42 void PatchManager.removePatchPrepareCompleteEventHandler ( event *handler* )**

unsubscribe from the PatchPrepareComplete event

**Parameters**

<i>handler</i>	callback function for PatchPrepareComplete event
----------------	--------------------------------------------------



**4.3.2.43 void PatchManager.removePatchPreparePatchFileEventHandler ( event handler )**

unsubscribe from the PatchPreparePatchFile event

**Parameters**

<i>handler</i>	callback function for PatchPreparePatchFile event
----------------	---------------------------------------------------

**4.3.2.44 void PatchManager.removePatchProgressEventHandler ( event handler )**

unsubscribe from the PatchProgress event

**Parameters**

<i>handler</i>	callback function for PatchProgress event
----------------	-------------------------------------------

**4.3.2.45 void PatchManager.removePatchStartEventHandler ( event handler )**

unsubscribe from the PatchStart event

**Parameters**

<i>handler</i>	callback function for PatchStart event
----------------	----------------------------------------

**4.3.2.46 void PatchManager.removePatchWillPatchFileEventHandler ( event handler )**

unsubscribe from the PatchWillPatchFile event

**Parameters**

<i>handler</i>	callback function for PatchWillPatchFile event
----------------	------------------------------------------------

**4.3.2.47 patchManifestItem PatchManager.repairPatchManifest ( string manifestUrl, array maskedFiles )**

add patch manifest repair to the manager

**Parameters**

<i>manifestUrl</i>	url to the manifest file
<i>maskedFiles</i>	files to mask for repair

**Returns**

patchManifestItem containing the id and patch manifest

#### 4.3.2.48 void PatchManager.rootManifestById ( string *id* )

returns the root patch manifest by the assigned id or a child id

##### Parameters

<i>id</i>	root patch manifest id assigned by manager
-----------	--------------------------------------------

#### 4.3.2.49 void PatchManager.rootManifestIdById ( string *id* )

returns the root patch manifest id by the assigned id or a child id

##### Parameters

<i>id</i>	root patch manifest id assigned by manager
-----------	--------------------------------------------

#### 4.3.2.50 void PatchManager.verifyManifestById ( string *manifestId*, bool *quickScan* )

verify manifest by id

##### Parameters

<i>manifestId</i>	id for the manifest
<i>quickScan</i>	enable quick scanning during verify

The documentation for this class was generated from the following file:

- [patchmanager.js](#)

## 4.4 PatchManifest Class Reference

Download/process a patch manifest.

### Public Member Functions

- void [dependencyFail](#) ()
- string [expandString](#) (string expand)
- void [fail](#) ()
- int [getCurrentReleaseId](#) ()
- string [getExtraDataValue](#) (int fromId, int told, string key)
- int [getLastError](#) ()
- bool [getLocal](#) ()
- bool [getMaintenance](#) ()
- string [getName](#) ()
- string [getOutput](#) ()

- string [getReleaseName](#) (int id)
- int [getRequiredReleaseld](#) ()
- bool [getRequiresElevation](#) ()
- int [getRetryInterval](#) ()
- int [getSourceReleaseld](#) ()
- string [getSourceReleaseName](#) ()
- string [getSourceReleaseSHA1](#) ()
- string [getTargetDirectory](#) ()
- int [getTargetReleaseld](#) ()
- string [getTargetReleaseName](#) ()
- string [getTargetReleaseSHA1](#) ()
- int [getUpcomingReleaseld](#) ()
- string [getUri](#) ()
- void [release](#) ()
- void [resume](#) ()
- void [setLocal](#) (bool value)
- void [setOutput](#) (string value)
- void [setRetryInterval](#) (int value)
- void [setSourceReleaseld](#) (int value)
- void [setSourceReleaseName](#) (string value)
- void [setSourceReleaseSHA1](#) (string value)
- void [setTargetDirectory](#) (string value)
- void [setTargetReleaseld](#) (int value)
- void [setTargetReleaseName](#) (string value)
- void [setTargetReleaseSHA1](#) (string value)
- void [setUri](#) (string value)
- void [start](#) ()

### Public Attributes

- string [instanceld](#)
- event [onComplete](#)
- event [onDependency](#)
- event [onLoadComplete](#)
- event [onPatch](#)
- event [onStart](#)

#### 4.4.1 Detailed Description

Download/process a patch manifest.

#### 4.4.2 Member Function Documentation

##### 4.4.2.1 void PatchManifest.dependencyFail ( )

Special failure state because one of the dependencies failed.

#### 4.4.2.2 string PatchManifest.expandString ( string *expand* )

This method expands the string with the current macros.

##### Parameters

<i>expand</i>	Name of string to be expanded.
---------------	--------------------------------

##### Returns

expanded string.

#### 4.4.2.3 void PatchManifest.fail ( )

Fail the patch manifest after an action is completed.

#### 4.4.2.4 int PatchManifest.getCurrentReleaseId ( )

gets the the current release declared in the version file.

##### Returns

the current release declared in the version file.

#### 4.4.2.5 string PatchManifest.getExtraDataValue ( int *fromId*, int *told*, string *key* )

Gets extra data value from the specified update path.

##### Parameters

<i>fromId</i>	Release id.
<i>told</i>	Release id.
<i>key</i>	Key associated with value.

##### Returns

Value of key stored in extra data for a release path. Empty string if not found.

#### 4.4.2.6 int PatchManifest.getLastError ( )

gets the last error encountered by the manifest.

##### Returns

last error encountered by the manifest.

#### 4.4.2.7 bool PatchManifest.getLocal ( )

gets the true if the manifest is local, false otherwise.

##### Returns

True if the manifest is local, false otherwise.

#### 4.4.2.8 bool PatchManifest.getMaintenance ( )

gets the true if manifest has maintenance flag, false otherwise.

##### Returns

True if manifest has maintenance flag, false otherwise.

#### 4.4.2.9 string PatchManifest.getName ( )

gets the name of the payload.

##### Returns

Name of the payload.

#### 4.4.2.10 string PatchManifest.getOutput ( )

gets the location for patch manifest.

##### Returns

Location for patch manifest.

#### 4.4.2.11 string PatchManifest.getReleaseName ( int *id* )

Gets the name for the specified release.

##### Parameters

<i>id</i>	Release id.
-----------	-------------

##### Returns

Name of the specified release. Empty string if not found.

#### 4.4.2.12 `int PatchManifest.getRequiredReleaseId ( )`

gets the the required release declared in the patch manifest.

##### **Returns**

the required release declared in the patch manifest.

#### 4.4.2.13 `bool PatchManifest.getRequiresElevation ( )`

gets the true if elevation required, false otherwise.

##### **Returns**

True if elevation required, false otherwise.

#### 4.4.2.14 `int PatchManifest.getRetryInterval ( )`

gets the interval in seconds after completion the patch manifest will restart.

##### **Returns**

interval in seconds after completion the patch manifest will restart.

#### 4.4.2.15 `int PatchManifest.getSourceReleaseId ( )`

gets the the id of the source release.

##### **Returns**

the id of the source release.

#### 4.4.2.16 `string PatchManifest.getSourceReleaseName ( )`

gets the the name of the source release.

##### **Returns**

the name of the source release.

#### 4.4.2.17 `string PatchManifest.getSourceReleaseSHA1 ( )`

gets the the sha1 of the source release.

##### **Returns**

the sha1 of the source release.

4.4.2.18 string PatchManifest.getTargetDirectory ( )

gets the directory patch will be installed in.

**Returns**

Directory patch will be installed in.

4.4.2.19 int PatchManifest.getTargetReleaseId ( )

gets the the id of the target release.

**Returns**

the id of the target release.

4.4.2.20 string PatchManifest.getTargetReleaseName ( )

gets the the name of the target release.

**Returns**

the name of the target release.

4.4.2.21 string PatchManifest.getTargetReleaseSHA1 ( )

gets the the sha1 of the target release.

**Returns**

the sha1 of the target release.

4.4.2.22 int PatchManifest.getUpcomingReleaseId ( )

gets the the upcoming release declared in the patch manifest.

**Returns**

the upcoming release declared in the patch manifest.

4.4.2.23 string PatchManifest.getUrl ( )

gets the url to metafile.

**Returns**

Url to metafile.

**4.4.2.24 void PatchManifest.release ( )**

releases the object

**4.4.2.25 void PatchManifest.resume ( )**

Resume the patch manifest after an action is completed.

**4.4.2.26 void PatchManifest.setLocal ( bool *value* )**

sets the true if the manifest is local, false otherwise.

**Parameters**

<i>value</i>	True if the manifest is local, false otherwise.
--------------	-------------------------------------------------

**4.4.2.27 void PatchManifest.setOutput ( string *value* )**

sets the location for patch manifest.

**Parameters**

<i>value</i>	Location for patch manifest.
--------------	------------------------------

**4.4.2.28 void PatchManifest.setRetryInterval ( int *value* )**

sets the interval in seconds after completion the patch manifest will restart.

**Parameters**

<i>value</i>	interval in seconds after completion the patch manifest will restart.
--------------	-----------------------------------------------------------------------

**4.4.2.29 void PatchManifest.setSourceReleaseId ( int *value* )**

sets the the id of the source release.

**Parameters**

<i>value</i>	the id of the source release.
--------------	-------------------------------

**4.4.2.30 void PatchManifest.setSourceReleaseName ( string *value* )**

sets the the name of the source release.



**Parameters**

<i>value</i>	the name of the source release.
--------------	---------------------------------

**4.4.2.31 void PatchManifest.setSourceReleaseSHA1 ( string *value* )**

sets the the sha1 of the source release.

**Parameters**

<i>value</i>	the sha1 of the source release.
--------------	---------------------------------

**4.4.2.32 void PatchManifest.setTargetDirectory ( string *value* )**

sets the directory patch will be installed in.

**Parameters**

<i>value</i>	Directory patch will be installed in.
--------------	---------------------------------------

**4.4.2.33 void PatchManifest.setTargetReleaseId ( int *value* )**

sets the the id of the target release.

**Parameters**

<i>value</i>	the id of the target release.
--------------	-------------------------------

**4.4.2.34 void PatchManifest.setTargetReleaseName ( string *value* )**

sets the the name of the target release.

**Parameters**

<i>value</i>	the name of the target release.
--------------	---------------------------------

**4.4.2.35 void PatchManifest.setTargetReleaseSHA1 ( string *value* )**

sets the the sha1 of the target release.

**Parameters**

<i>value</i>	the sha1 of the target release.
--------------	---------------------------------

**4.4.2.36 void PatchManifest.setUrl ( string *value* )**

sets the url to metafile.

**Parameters**

<i>value</i>	Url to metafile.
--------------	------------------

**4.4.2.37 void PatchManifest.start ( )**

Start processing the patch manifest.

**4.4.3 Member Data Documentation****4.4.3.1 string PatchManifest.instanceId**

Instance id used to bind proxy object to native object

**4.4.3.2 event PatchManifest.onComplete**

Triggered when the manifest is complete.

**Parameters**

<i>successful</i>	true if the manifest was successful, false otherwise.
-------------------	-------------------------------------------------------

**4.4.3.3 event PatchManifest.onDependency**

Triggered for each dependency in the patch manifest.

**Parameters**

<i>url</i>	Url of the dependency.
------------	------------------------

**4.4.3.4 event PatchManifest.onLoadComplete**

Triggered when a patch manifest has loaded.

**4.4.3.5 event PatchManifest.onPatch**

Triggered for each patch required.

**Parameters**

<i>fromId</i>	Release id for the current patch.
<i>told</i>	Release id for the patch destination.

#### 4.4.3.6 event PatchManifest.onStart

Triggered when a manifest is started.

The documentation for this class was generated from the following file:

- [patchmanifest.js](#)

## 4.5 PatchManifestError Class Reference

[Patch](#) manifest error constants and helper functions.

### Public Member Functions

- string [nameFromId](#) (string id)

### Public Attributes

- int [DEPENDENCYFAIL](#)
- int [DOWNLOADFAIL](#)
- int [INVALIDARGUMENT](#)
- int [MAINTENANCE](#)
- int [NONE](#)
- int [REQUIRESELEVATION](#)
- int [SOURCERELEASEUNDEFINED](#)
- int [TARGETRELEASEUNDEFINED](#)
- int [UNZIPFAILED](#)
- int [UPDATEPATHUNAVAILABLE](#)
- int [USERFAIL](#)
- int [VERSIONFAIL](#)
- int [XMLPARSEFAIL](#)

### 4.5.1 Detailed Description

[Patch](#) manifest error constants and helper functions.

### 4.5.2 Member Function Documentation

#### 4.5.2.1 string PatchManifestError.nameFromId ( string id )

converts a patch manifest error to a string

#### Parameters

<i>id</i>	patch manifest error
-----------	----------------------

**Returns**

stringified name of file error.

**4.5.3 Member Data Documentation****4.5.3.1 int PatchManifestError.DEPENDENCYFAIL**

Dependency failed

**4.5.3.2 int PatchManifestError.DOWNLOADFAIL**

Download failed

**4.5.3.3 int PatchManifestError.INVALIDARGUMENT**

Invalid argument

**4.5.3.4 int PatchManifestError.MAINTENANCE**

Maintenance flag turned on

**4.5.3.5 int PatchManifestError.NONE**

No error

**4.5.3.6 int PatchManifestError.REQUIRESELEVATION**

Elevation required

**4.5.3.7 int PatchManifestError.SOURCERELEASEUNDEFINED**

Source release undefined

**4.5.3.8 int PatchManifestError.TARGETRELEASEUNDEFINED**

Target release undefined

**4.5.3.9 int PatchManifestError.UNZIPFAILED**

Unzip failed

## 4.5.3.10 int PatchManifestError.UPDATEPATHUNAVAILABLE

Update path unavailable

## 4.5.3.11 int PatchManifestError.USERFAIL

Fail method was called

## 4.5.3.12 int PatchManifestError.VERSIONFAIL

Version check failed

## 4.5.3.13 int PatchManifestError.XMLPARSEFAIL

Parsing failed

The documentation for this class was generated from the following file:

- [patchmanifesterror.js](#)

## 4.6 PatchManifestState Class Reference

[Patch](#) manifest state constants and helper functions.

### Public Member Functions

- string [nameFromId](#) (string id)

### Public Attributes

- int [COMPLETE](#)
- int [DEPENDENCY](#)
- int [DOWNLOAD](#)
- int [GETMANIFEST](#)
- int [PATCH](#)

#### 4.6.1 Detailed Description

[Patch](#) manifest state constants and helper functions.

## 4.6.2 Member Function Documentation

### 4.6.2.1 string PatchManifestState.nameFromId ( string *id* )

converts a patch manifest state to a string

#### Parameters

<i>id</i>	patch manifest state
-----------	----------------------

#### Returns

stringified name of file error.

## 4.6.3 Member Data Documentation

### 4.6.3.1 int PatchManifestState.COMPLETE

[Patch](#) Complete

### 4.6.3.2 int PatchManifestState.DEPENDENCY

[Patch](#) dependency required

### 4.6.3.3 int PatchManifestState.DOWNLOAD

[Patch](#) downloading

### 4.6.3.4 int PatchManifestState.GETMANIFEST

Get manifest state

### 4.6.3.5 int PatchManifestState.PATCH

Applying patch

The documentation for this class was generated from the following file:

- [patchmanifeststate.js](#)

## 4.7 PatchVersion Class Reference

Enumerate a version file.

## Public Member Functions

- string [getFileName](#) ()
- string [getSha1](#) ()
- void [release](#) ()
- void [resume](#) ()
- void [setFileName](#) (string value)
- void [start](#) ()

## Public Attributes

- string [instanceId](#)
- event [onComplete](#)
- event [onFile](#)
- event [onStart](#)

### 4.7.1 Detailed Description

Enumerate a version file.

### 4.7.2 Member Function Documentation

#### 4.7.2.1 string PatchVersion.getFileName ( )

gets the file name of the version file.

#### Returns

File name of the version file.

#### 4.7.2.2 string PatchVersion.getSha1 ( )

gets the SHA1 of the version file.

#### Returns

SHA1 of the version file.

#### 4.7.2.3 void PatchVersion.release ( )

releases the object

#### 4.7.2.4 void PatchVersion.resume ( )

Resume the file enumeration.

#### 4.7.2.5 void PatchVersion.setFileName ( string *value* )

sets the file name of the version file.

##### Parameters

<i>value</i>	File name of the version file.
--------------	--------------------------------

#### 4.7.2.6 void PatchVersion.start ( )

Starts the patch version enumeration.

### 4.7.3 Member Data Documentation

#### 4.7.3.1 string PatchVersion.instanceId

Instance id used to bind proxy object to native object

#### 4.7.3.2 event PatchVersion.onComplete

Triggered when the version file enumeration is complete.

##### Parameters

<i>successful</i>	true if the download was successful, false otherwise.
-------------------	-------------------------------------------------------

#### 4.7.3.3 event PatchVersion.onFile

Triggered when the version file enumeration has detected a file.

##### Parameters

<i>name</i>	Name of the file
<i>lastModified</i>	Last modified date of the file
<i>size</i>	Size of the file
<i>sha1</i>	SHA1 of the file

#### 4.7.3.4 event PatchVersion.onStart

Triggered when version file enumeration is started.

The documentation for this class was generated from the following file:

- [patchversion.js](#)



## 4.8 PatchVersionVerify Class Reference

Verify a version file.

### Public Member Functions

- string [getFileName](#) ()
- bool [getQuickScan](#) ()
- void [release](#) ()
- void [setFileName](#) (string value)
- void [setQuickScan](#) (bool value)
- void [start](#) ()

### Public Attributes

- string [instanceId](#)
- event [onComplete](#)
- event [onCorruptFile](#)
- event [onProgress](#)
- event [onStart](#)

### 4.8.1 Detailed Description

Verify a version file.

### 4.8.2 Member Function Documentation

#### 4.8.2.1 string PatchVersionVerify.getFileName ( )

gets the file name of the version file.

#### Returns

File name of the version file.

#### 4.8.2.2 bool PatchVersionVerify.getQuickScan ( )

gets the enables a quicker but less safe verification.

#### Returns

Enables a quicker but less safe verification.

#### 4.8.2.3 void PatchVersionVerify.release ( )

releases the object

#### 4.8.2.4 void PatchVersionVerify.setFileName ( string *value* )

sets the file name of the version file.

##### Parameters

<i>value</i>	File name of the version file.
--------------	--------------------------------

#### 4.8.2.5 void PatchVersionVerify.setQuickScan ( bool *value* )

sets the enables a quicker but less safe verification.

##### Parameters

<i>value</i>	Enables a quicker but less safe verification.
--------------	-----------------------------------------------

#### 4.8.2.6 void PatchVersionVerify.start ( )

Starts the patch manifest.

### 4.8.3 Member Data Documentation

#### 4.8.3.1 string PatchVersionVerify.instanceId

Instance id used to bind proxy object to native object

#### 4.8.3.2 event PatchVersionVerify.onComplete

Triggered when the verification is complete.

##### Parameters

<i>successful</i>	true if the download was successful, false otherwise.
-------------------	-------------------------------------------------------

#### 4.8.3.3 event PatchVersionVerify.onCorruptFile

Triggered when the verification has detected a corrupt file.

##### Parameters

<i>name</i>	Name of the corrupt file
-------------	--------------------------

#### 4.8.3.4 event `PatchVersionVerify.onProgress`

Triggered when the verification has made progress.

##### Parameters

<i>percent</i>	(-1.0: Still calculating) (0.0 to 1.0: Percent completed)
----------------	-----------------------------------------------------------

#### 4.8.3.5 event `PatchVersionVerify.onStart`

Triggered when verification is started.

The documentation for this class was generated from the following file:

- [patchversionverify.js](#)



## Chapter 5

# File Documentation

### 5.1 fileerror.js File Reference

File containing file error constants and helper functions.

#### Classes

- class [FileError](#)  
*File error constants and helper functions.*

#### Variables

- [FileError](#) `fileError`

#### 5.1.1 Detailed Description

File containing file error constants and helper functions.

#### 5.1.2 Variable Documentation

##### 5.1.2.1 FileError fileError

precreated global instance of [FileError](#)

### 5.2 patch.js File Reference

File containing [Patch](#) class and creation function.

## Classes

- class [Patch](#)  
*Extract a patch.*

## Functions

- void [createPatch](#) ()

### 5.2.1 Detailed Description

File containing [Patch](#) class and creation function.

### 5.2.2 Function Documentation

#### 5.2.2.1 void [createPatch](#) ( )

Create instance of patch

## 5.3 patchmanager.js File Reference

File containing patch manager.

## Classes

- class [PatchManager](#)  
*Manages patches and provides an integrated event structure.*

## Variables

- [PatchManager](#) [patchManager](#)

### 5.3.1 Detailed Description

File containing patch manager.

### 5.3.2 Variable Documentation

#### 5.3.2.1 [PatchManager](#) [patchManager](#)

precreated global instance of the patch manager

## 5.4 patchmanifest.js File Reference

File containing [PatchManifest](#) class and creation function.

### Classes

- class [PatchManifest](#)  
*Download/process a patch manifest.*

### Functions

- void [createPatchManifest](#) ()

#### 5.4.1 Detailed Description

File containing [PatchManifest](#) class and creation function.

#### 5.4.2 Function Documentation

##### 5.4.2.1 void [createPatchManifest](#) ( )

Create instance of patchManifest

## 5.5 patchmanifesterror.js File Reference

File containing patch manifest error constants and helper functions.

### Classes

- class [PatchManifestError](#)  
*Patch manifest error constants and helper functions.*

### Variables

- [PatchManifestError](#) [patchManifestError](#)

#### 5.5.1 Detailed Description

File containing patch manifest error constants and helper functions.

## 5.5.2 Variable Documentation

### 5.5.2.1 PatchManifestError patchManifestError

precreated global instance of [PatchManifestError](#)

## 5.6 patchmanifeststate.js File Reference

File containing patch manifest state constants and helper functions.

### Classes

- class [PatchManifestState](#)  
*Patch manifest state constants and helper functions.*

### Variables

- [PatchManifestState](#) patchManifestState

### 5.6.1 Detailed Description

File containing patch manifest state constants and helper functions.

## 5.6.2 Variable Documentation

### 5.6.2.1 PatchManifestState patchManifestState

precreated global instance of [PatchManifestState](#)

## 5.7 patchversion.js File Reference

File containing [PatchVersion](#) class and creation function.

### Classes

- class [PatchVersion](#)  
*Enumerate a version file.*

### Functions

- void [createPatchVersion](#) ()



### 5.7.1 Detailed Description

File containing [PatchVersion](#) class and creation function.

### 5.7.2 Function Documentation

#### 5.7.2.1 void createPatchVersion ( )

Create instance of patchVersion

## 5.8 patchversionverify.js File Reference

File containing [PatchVersionVerify](#) class and creation function.

### Classes

- class [PatchVersionVerify](#)  
*Verify a version file.*

### Functions

- void [createPatchVersionVerify](#) ( )

### 5.8.1 Detailed Description

File containing [PatchVersionVerify](#) class and creation function.

### 5.8.2 Function Documentation

#### 5.8.2.1 void createPatchVersionVerify ( )

Create instance of patchVersionVerify

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