Downloader Javascript API 3.0.5.0

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Chapter 1

Downloader Javascript API

1.1 Overview

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

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

Licenses are valid for only one PRODUCT usage. Please see the license agreement for further details.

Chapter 2

Class Index

2.1 Class List

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Chapter 3

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3.1 File List

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Chapter 4

Class Documentation

4.1 Download Class Reference

Download a file system.

Public Member Functions

- bool checkFile (string fileName)
- bool checkFileRange (string fileName, string offset, string length)
- void eraseContent ()
- bool getAccessible ()
- bool getActive ()
- bool getBitActive ()
- int getBitDownloadLimit ()
- int getBitUploadLimit ()
- string getBytesLeft ()
- string getConfigUrl ()
- string getConnectionsCount ()
- string getConnectivity ()
- int getDownloadLimit ()
- bool getIsRunning ()
- int getLastError ()
- int getLastFailure ()
- bool getMaskEnabled ()
- string getMetafileUrl ()
- string getOutput ()
- double getRemainingTime ()
- int getState ()
- string getTotalBytes ()
- string getTransferRates ()
- string getTransferTotal ()

- int getUploadLimit ()
- bool getWebActive ()
- int getWebDownloadLimit ()
- int getWebUploadLimit ()
- bool maskFile (string fileName)
- bool maskFileRange (string fileName, string offset, string length)
- void release ()
- void setActive (bool value)
- · void setBitActive (bool value)
- void setBitDownloadLimit (int value)
- void setBitUploadLimit (int value)
- void setConfigUrl (string value)
- void setDownloadLimit (int value)
- void setMaskEnabled (bool value)
- void setMetafileUrl (string value)
- void setOutput (string value)
- void setUploadLimit (int value)
- void setWebActive (bool value)
- void setWebDownloadLimit (int value)
- void setWebUploadLimit (int value)
- void start ()
- void stop ()
- void syncToMask ()

Public Attributes

- · string instanceId
- event onComplete
- event onConfigComplete
- event onProgress
- event onStart
- event onStateChange

4.1.1 Detailed Description

Download a file system.

4.1.2 Member Function Documentation

4.1.2.1 bool Download.checkFile (string fileName)

Check download by filename for complete.

fileName	filename in metafile to mask

Returns

true if complete, false otherwise.

4.1.2.2 bool Download.checkFileRange (string fileName, string offset, string length)

Check portion of download by filename and range for complete.

Parameters

fileName	filename in metafile to mask
offset	offset in the file to start at (64bit int)
length	length of the bytes to include (64bit int)

Returns

true if complete, false otherwise.

4.1.2.3 void Download.eraseContent ()

Removes the download from the disk when the download stops.

4.1.2.4 bool Download.getAccessible ()

gets the download accessibility and configuration has completed.

Returns

download accessibility and configuration has completed.

4.1.2.5 bool Download.getActive ()

gets the active state of the download. (only available after accessible is true).

Returns

active state of the download. (only available after accessible is true).

4.1.2.6 bool Download.getBitActive ()

gets the active state of bittorrent peers in the download. (only available after accessible is true).

Returns

active state of bittorrent peers in the download. (only available after accessible is true).

4.1.2.7 int Download.getBitDownloadLimit ()

gets the bittorrent peer download limit for the download. (In kBps) (only available after accessible is true).

Returns

bittorrent peer download limit for the download. (In kBps) (only available after accessible is true).

4.1.2.8 int Download.getBitUploadLimit ()

gets the bittorrent peer upload limit for the download. (In kBps) (only available after accessible is true).

Returns

bittorrent peer upload limit for the download. (In kBps) (only available after accessible is true).

4.1.2.9 string Download.getBytesLeft ()

gets the bytes left in the download. (64-bit number) (only available after accessible is true).

Returns

bytes left in the download. (64-bit number) (only available after accessible is true).

4.1.2.10 string Download.getConfigUrl ()

gets the url to configuration file.

Returns

Url to configuration file.

4.1.2.11 string Download.getConnectionsCount ()

gets the json object containing the number of active/total incoming/outgoing connections. (only available after accessible is true).

Returns

json object containing the number of active/total incoming/outgoing connections. (only available after accessible is true).

```
4.1.2.12 string Download.getConnectivity ( )
gets the download connectivity. (only available after accessible is true).
Returns

download connectivity. (only available after accessible is true).

4.1.2.13 int Download.getDownloadLimit ( )
gets the download limit for the download. (In kBps) (only available after accessible is true).
Returns

download limit for the download. (In kBps) (only available after accessible is true).
```

Returns

is the download currently running.

gets the is the download currently running.

4.1.2.14 bool Download.getIsRunning ()

```
4.1.2.15 int Download.getLastError ( )
```

gets the last error encountered by the downloader.

Returns

last error encountered by the downloader.

```
4.1.2.16 int Download.getLastFailure ( )
```

gets the last failure encountered by the downloader.

Returns

last failure encountered by the downloader.

```
4.1.2.17 bool Download.getMaskEnabled ( )
```

gets the enable/disable download mask.

Returns

Enable/disable download mask.

```
4.1.2.18 string Download.getMetafileUrl ( )
gets the url to metafile.
Returns
    Url to metafile.
4.1.2.19 string Download.getOutput ( )
gets the location for downloaded data.
Returns
    location for downloaded data.
4.1.2.20 double Download.getRemainingTime ( )
gets the estimated time remaining in a download. (only available after accessible is
true).
Returns
    estimated time remaining in a download. (only available after accessible is true).
4.1.2.21 int Download.getState ( )
gets the download state. (only available after accessible is true).
Returns
    download state. (only available after accessible is true).
4.1.2.22 string Download.getTotalBytes ( )
gets the size of the download. (64-bit number) (only available after accessible is true).
Returns
    size of the download. (64-bit number) (only available after accessible is true).
```

gets the json object containing the rate of the current/average/max throughput for incoming/outgoing connections. (only available after accessible is true).

4.1.2.23 string Download.getTransferRates ()

Returns

json object containing the rate of the current/average/max throughput for incoming/outgoing connections. (only available after accessible is true).

4.1.2.24 string Download.getTransferTotal ()

gets the json object with the number of bytes read/sent/confirmed/corrupt/discarded. (only available after accessible is true).

Returns

json object with the number of bytes read/sent/confirmed/corrupt/discarded. (only available after accessible is true).

```
4.1.2.25 int Download.getUploadLimit ( )
```

gets the upload limit for the download. (In kBps) (only available after accessible is true).

Returns

upload limit for the download. (In kBps) (only available after accessible is true).

```
4.1.2.26 bool Download.getWebActive ( )
```

gets the active state of reliable sources in the download. (only available after accessible is true).

Returns

active state of reliable sources in the download. (only available after accessible is true).

```
4.1.2.27 int Download.getWebDownloadLimit ( )
```

gets the reliable source download limit for the download. (In kBps) (only available after accessible is true).

Returns

reliable source download limit for the download. (In kBps) (only available after accessible is true).

4.1.2.28 int Download.getWebUploadLimit ()

gets the reliable source upload limit for the download. (In kBps) (only available after accessible is true).

Returns

reliable source upload limit for the download. (In kBps) (only available after accessible is true).

4.1.2.29 bool Download.maskFile (string fileName)

Mask portion of download by filename.

Parameters

_		
	fileName	filename in metafile to mask

Returns

true if successful, false otherwise.

4.1.2.30 bool Download.maskFileRange (string fileName, string offset, string length)

Mask portion of download by filename and range.

Parameters

fileName	filename in metafile to mask
offset	offset in the file to start at (64bit int)
length	length of the bytes to include (64bit int)

Returns

true if successful, false otherwise.

4.1.2.31 void Download.release ()

releases the object

4.1.2.32 void Download.setActive (bool value)

sets the active state of the download. (only available after accessible is true).

value	active state of the download. (only available after accessible is true).

4.1.2.33 void Download.setBitActive (bool value)

sets the active state of bittorrent peers in the download. (only available after accessible is true).

Parameters

value	active state of bittorrent peers in the download. (only available after acces-	1
	sible is true).	

4.1.2.34 void Download.setBitDownloadLimit (int value)

sets the bittorrent peer download limit for the download. (In kBps) (only available after accessible is true).

Parameters

valu	e bittorrent peer download limit for th	e download.	(In kBps) (only available
	after accessible is true).		

4.1.2.35 void Download.setBitUploadLimit (int value)

sets the bittorrent peer upload limit for the download. (In kBps) (only available after accessible is true).

Parameters

value	bittorrent peer upload limit for the download. (In kBps) (only available after
	accessible is true).

4.1.2.36 void Download.setConfigUrl (string value)

sets the url to configuration file.

Parameters

value office configuration file.		value	Url to configuration file.
----------------------------------	--	-------	----------------------------

4.1.2.37 void Download.setDownloadLimit (int value)

sets the download limit for the download. (In kBps) (only available after accessible is true).

value	download limit for the download. (In kBps) (only available after accessible is
	true).

4.1.2.38 void Download.setMaskEnabled (bool value)

sets the enable/disable download mask.

Parameters

value	Enable/disable download mask.

4.1.2.39 void Download.setMetafileUrl (string value)

sets the url to metafile.

Parameters

value Url to metafile	l.
-----------------------	----

4.1.2.40 void Download.setOutput (string value)

sets the location for downloaded data.

Parameters

value location for downloaded data.

4.1.2.41 void Download.setUploadLimit (int value)

sets the upload limit for the download. (In kBps) (only available after accessible is true).

Parameters

value	upload limit for the download.	(In kBps) (only available after accessible is
	true).	

4.1.2.42 void Download.setWebActive (bool value)

sets the active state of reliable sources in the download. (only available after accessible is true).

value	active state of reliable sources in the download. (only available after acces-
	sible is true).

4.1.2.43 void Download.setWebDownloadLimit (int value)

sets the reliable source download limit for the download. (In kBps) (only available after accessible is true).

Parameters

value	reliable source download limit for the download.	(In kBps) (only available
	after accessible is true).	

4.1.2.44 void Download.setWebUploadLimit (int value)

sets the reliable source upload limit for the download. (In kBps) (only available after accessible is true).

Parameters

value	reliable source upload limit for the download. (In kBps) (only available after	
	accessible is true).	

4.1.2.45 void Download.start ()

Starts the download.

4.1.2.46 void Download.stop ()

Stops the download.

4.1.2.47 void Download.syncToMask ()

Synchronizes the downloaded content pieces.

4.1.3 Member Data Documentation

4.1.3.1 string Download.instanceld

Instance id used to bind proxy object to native object

4.1.3.2 event Download.onComplete

Triggered when the download is complete.

successful true if the download was successful, false otherwise.	
--	--

4.1.3.3 event Download.onConfigComplete

Triggered when download is configured, right before the actual download starts.

4.1.3.4 event Download.onProgress

Triggered when the download has made progress.

Parameters

```
percent (-1.0: Still calculating) (0.0 to 1.0: Percent completed)
```

4.1.3.5 event Download.onStart

Triggered when download is started.

4.1.3.6 event Download.onStateChange

Triggered when the download makes a state change.

Parameters

state | current state of the download.

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

download.js

4.2 Downloader Class Reference

Download management class.

Public Member Functions

- bool getActive ()
- int getDownloadLimit ()
- int getUploadLimit ()
- void release ()
- void setActive (bool value)
- void setDownloadLimit (int value)
- void setUploadLimit (int value)

Public Attributes

· string instanceId

4.2.1 Detailed Description

Download management class.

```
4.2.2 Member Function Documentation
```

```
4.2.2.1 bool Downloader.getActive ( )
```

gets the active state of all downloads.

Returns

active state of all downloads.

```
4.2.2.2 int Downloader.getDownloadLimit ( )
```

gets the download limit for all downloads. (In kBps)

Returns

download limit for all downloads. (In kBps)

```
4.2.2.3 int Downloader.getUploadLimit ( )
```

gets the upload limit for all downloads. (In kBps)

Returns

upload limit for all downloads. (In kBps)

4.2.2.4 void Downloader.release ()

releases the object

4.2.2.5 void Downloader.setActive (bool value)

sets the active state of all downloads.

Parameters

value active state of all downloads.

4.2.2.6 void Downloader.setDownloadLimit (int value)

sets the download limit for all downloads. (In kBps)

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Parameters

value	download limit for all downloads.	(In kBps

4.2.2.7 void Downloader.setUploadLimit (int value)

sets the upload limit for all downloads. (In kBps)

Parameters

value upload limit for all downloads. (In kBps)

4.2.3 Member Data Documentation

4.2.3.1 string Downloader.instanceld

Instance id used to bind proxy object to native object

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

· downloader.js

4.3 DownloadError Class Reference

Download error constants and helper functions.

Public Member Functions

• string nameFromId (string id)

Public Attributes

- int ALREADYDOWNLOADING
- int CONFIGDOWNLOADFAILED
- int CONFIGPARSEFAILED
- int CONFIGUNZIPFAILED
- int DOWNLOADFAILED
- int INVALIDMETAFILE
- int INVALIDSOURCE
- int METAFILEDOWNLOADFAILED
- int METAFILEUNZIPFAILED
- int NONE
- int NOTENOUGHSPACE
- int UNACCEPTABLESOURCE
- int UNKNOWN

4.3.1 Detailed Description

Download error constants and helper functions.

4.3.2 Member Function Documentation

4.3.2.1 string DownloadError.nameFromId (string id)

converts a download error to a string

Parameters

id download errors

Returns

stringified name of download error

4.3.3 Member Data Documentation

4.3.3.1 int DownloadError.ALREADYDOWNLOADING

Download is already been started

4.3.3.2 int DownloadError.CONFIGDOWNLOADFAILED

Unable to download config file

4.3.3.3 int DownloadError.CONFIGPARSEFAILED

Unable to parse solid configuration file

4.3.3.4 int DownloadError.CONFIGUNZIPFAILED

Unable to unzip config file

4.3.3.5 int DownloadError.DOWNLOADFAILED

Download failed for an unknown reason

4.3.3.6 int DownloadError.INVALIDMETAFILE

Invalid metafile

4.3.3.7 int DownloadError.INVALIDSOURCE

Source is invalid

4.3.3.8 int DownloadError.METAFILEDOWNLOADFAILED

Unable to download metafile file

4.3.3.9 int DownloadError.METAFILEUNZIPFAILED

Unable to unzip metafile file

4.3.3.10 int DownloadError.NONE

No error

4.3.3.11 int DownloadError.NOTENOUGHSPACE

Output path does not have enough disk space

4.3.3.12 int DownloadError.UNACCEPTABLESOURCE

Source url is unauthorized

4.3.3.13 int DownloadError.UNKNOWN

Unknown error

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

downloaderror.js

4.4 DownloadFailure Class Reference

Download failure constants and helper functions.

Public Member Functions

• string nameFromId (string id)

Public Attributes

- int NONE
- int PEERLISTEMPTY
- int PEERNOGOODONES
- int RELIABLESOURCEBADINTEGRITY
- int RELIABLESOURCECANTCONTACT
- int TRACKERCANTCONTACT
- int TRACKERLISTEMPTY

4.4.1 Detailed Description

Download failure constants and helper functions.

4.4.2 Member Function Documentation

4.4.2.1 string DownloadFailure.nameFromld (string id)

converts a download failure to a string

Parameters

id download failures

Returns

stringified name of download failure

4.4.3 Member Data Documentation

4.4.3.1 int DownloadFailure.NONE

No error

4.4.3.2 int DownloadFailure.PEERLISTEMPTY

Peer list empty

4.4.3.3 int DownloadFailure.PEERNOGOODONES

No good peers found

4.4.3.4 int DownloadFailure.RELIABLESOURCEBADINTEGRITY

Reliable source integrity error

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4.4.3.5 int DownloadFailure.RELIABLESOURCECANTCONTACT

Unable to contact reliable source

4.4.3.6 int DownloadFailure.TRACKERCANTCONTACT

Unable to contact tracker

4.4.3.7 int DownloadFailure.TRACKERLISTEMPTY

Tracker list empty

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

· downloadfailure.js

4.5 DownloadManager Class Reference

Manages downloads and provides an integrated event structure.

Public Member Functions

- downloadItem addDownload (string configUrl, string metafileUrl, string outputDirectory)
- void addDownloadAddedEventHandler (event handler)
- void addDownloadCompleteEventHandler (event handler)
- void addDownloadConfigCompleteEventHandler (event handler)
- void addDownloadProgressEventHandler (event handler)
- void addDownloadRemovedEventHandler (event handler)
- void addDownloadStartEventHandler (event handler)
- void addDownloadStateChangeEventHandler (event handler)
- void downloadByld (string id)
- bool hasActiveDownload ()
- void init ()
- · void release ()
- · bool removeDownload (string id)
- void removeDownloadAddedEventHandler (event handler)
- void removeDownloadCompleteEventHandler (event handler)
- void removeDownloadConfigCompleteEventHandler (event handler)
- void removeDownloadProgressEventHandler (event handler)
- void removeDownloadRemovedEventHandler (event handler)
- void removeDownloadStartEventHandler (event handler)
- void removeDownloadStateChangeEventHandler (event handler)
- void setAllDownloadsActive (bool active)

4.5.1 Detailed Description

Manages downloads and provides an integrated event structure.

4.5.2 Member Function Documentation

4.5.2.1 downloadItem DownloadManager.addDownload (string *configUrl*, string *metafileUrl*, string *outputDirectory*)

adds download to the manager

Parameters

configUrl	url to the configuration file
metafileUrl	url to the metafile
outputDirec-	directory where the download is saved
tory	

Returns

downloadItem containing the id and download

4.5.2.2 void DownloadManager.addDownloadAddedEventHandler (event handler)

subscribe to the DownloadAdded event

Parameters

handler callback function for DownloadAdded event

 $4.5.2.3 \quad \text{void DownloadManager.addDownloadCompleteEventHandler (event \textit{handler })}$

subscribe to the DownloadComplete event

Parameters

handler	callback function for DownloadComplete event

4.5.2.4 void DownloadManager.addDownloadConfigCompleteEventHandler (event handler)

subscribe to the DownloadConfigComplete event

handler	callback function for DownloadConfigComplete event

4.5.2.5 void DownloadManager.addDownloadProgressEventHandler (event handler)

subscribe to the DownloadProgress event

Parameters

handler	callback function for DownloadProgress event

4.5.2.6 void DownloadManager.addDownloadRemovedEventHandler (event handler)

subscribe to the DownloadRemoved event

Parameters

handlei	callback function for DownloadRemoved event
---------	---

4.5.2.7 void DownloadManager.addDownloadStartEventHandler (event handler)

subscribe to the DownloadStart event

Parameters

handler	callback function for DownloadStart event

4.5.2.8 void DownloadManager.addDownloadStateChangeEventHandler (event handler)

subscribe to the DownloadStateChange event

Parameters

handler	callback function for DownloadStateChange event

4.5.2.9 void DownloadManager.downloadByld (string id)

returns the download by the assigned id

Parameters

id download id assigned by manager

4.5.2.10 bool DownloadManager.hasActiveDownload ()

checks if any of the downloads in the manager are currently active

Returns

true if a download is active, false otherwise

4.5.2.11 void DownloadManager.init () initializes the download manager 4.5.2.12 void DownloadManager.release () releases the download manager 4.5.2.13 bool DownloadManager.removeDownload (string id) removes a download from the manager **Parameters** id id of the download to remove Returns true if the item was successfully removed, false otherwise 4.5.2.14 void DownloadManager.removeDownloadAddedEventHandler (event handler) unsubscribe from the DownloadAdded event **Parameters** handler callback function for DownloadAdded event 4.5.2.15 void DownloadManager.removeDownloadCompleteEventHandler (event handler) unsubscribe from the DownloadComplete event **Parameters** handler callback function for DownloadComplete event 4.5.2.16 void DownloadManager.removeDownloadConfigCompleteEventHandler (event handler unsubscribe from the DownloadConfigComplete event **Parameters**

handler callback function for DownloadAdded event

4.5.2.17 void DownloadManager.removeDownloadProgressEventHandler (event handler)

unsubscribe from the DownloadProgress event

Parameters

handler	callback function for DownloadProgress event

4.5.2.18 void DownloadManager.removeDownloadRemovedEventHandler (event handler)

unsubscribe from the DownloadRemoved event

Parameters

handler	callback function for DownloadAdded event
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4.5.2.19 void DownloadManager.removeDownloadStartEventHandler (event handler)

unsubscribe from the DownloadStart event

Parameters

l II	a allia a da farra etta ra farra Danniada a da dada ad anno est
nangier	callback function for DownloadAdded event

4.5.2.20 void DownloadManager.removeDownloadStateChangeEventHandler (event handler)

unsubscribe from the DownloadStateChange event

Parameters

handler	callback function for DownloadStateChange event

4.5.2.21 void DownloadManager.setAllDownloadsActive (bool active)

sets all downloads to the active state specified in the parameters

Parameters

active	active state of the download

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

· downloadmanager.js

4.6 DownloadState Class Reference

Download state constants and helper functions.

Public Member Functions

• string nameFromId (string id)

Public Attributes

- int CHECK
- int COMPLETE
- int CREATE
- int DOWNLOAD
- int DOWNLOADSTALLED
- int DOWNLOADWITHCHECK
- int FAILURE
- int IDLE
- int PAUSE
- int RESUME
- int SEED
- int START
- int STOP
- int UNKNOWN

4.6.1 Detailed Description

Download state constants and helper functions.

4.6.2 Member Function Documentation

4.6.2.1 string DownloadState.nameFromId (string id)

converts a download state to a string

Parameters

id download state

4.6.3 Member Data Documentation

4.6.3.1 int DownloadState.CHECK

Check state

4.6.3.2 int DownloadState.COMPLETE

Complete state

4.6.3.3 int DownloadState.CREATE

Create state

4.6.3.4 int DownloadState.DOWNLOAD

Download state

4.6.3.5 int DownloadState.DOWNLOADSTALLED

4.6.3.6 int DownloadState.DOWNLOADWITHCHECK

Download with check state

Download stalled state

4.6.3.7 int DownloadState.FAILURE

Failure state

4.6.3.8 int DownloadState.IDLE

Idle state

4.6.3.9 int DownloadState.PAUSE

Pause state

4.6.3.10 int DownloadState.RESUME

Resume state

4.6.3.11 int DownloadState.SEED

Seed state

4.6.3.12 int DownloadState.START

Start state

4.6.3.13 int DownloadState.STOP

Stop state

4.6.3.14 int DownloadState.UNKNOWN

Unknown state

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

• downloadstate.js

Chapter 5

File Documentation

5.1 download.js File Reference

File containing Download class and creation function.

Classes

class Download
 Download a file system.

Functions

• void createDownload ()

5.1.1 Detailed Description

File containing Download class and creation function.

5.1.2 Function Documentation

5.1.2.1 void createDownload ()

Create instance of download

5.2 downloader.js File Reference

File containing Downloader class and creation function.

Classes

class Downloader

Download management class.

Functions

• void createDownloader ()

5.2.1 Detailed Description

File containing Downloader class and creation function.

5.2.2 Function Documentation

5.2.2.1 void createDownloader ()

Create instance of downloader

5.3 downloaderror.js File Reference

File containing download error constants and helper functions.

Classes

· class DownloadError

Download error constants and helper functions.

Variables

• DownloadError downloadError

5.3.1 Detailed Description

File containing download error constants and helper functions.

5.3.2 Variable Documentation

5.3.2.1 DownloadError downloadError

precreated global instance of DownloadError

5.4 downloadfailure.js File Reference

File containing download failure constants and helper functions.

Classes

· class DownloadFailure

Download failure constants and helper functions.

Variables

· DownloadFailure downloadFailure

5.4.1 Detailed Description

File containing download failure constants and helper functions.

5.4.2 Variable Documentation

5.4.2.1 DownloadFailure downloadFailure

precreated global instance of DownloadFailure

5.5 downloadmanager.js File Reference

File containing download manager.

Classes

· class DownloadManager

Manages downloads and provides an integrated event structure.

Variables

• DownloadManager downloadManager

5.5.1 Detailed Description

File containing download manager.

5.5.2 Variable Documentation

5.5.2.1 DownloadManager downloadManager

precreated global instance of the download manager

5.6 downloadstate.js File Reference

File containing download state constants and helper functions.

Classes

class DownloadState
 Download state constants and helper functions.

Variables

• DownloadState downloadState

5.6.1 Detailed Description

File containing download state constants and helper functions.

5.6.2 Variable Documentation

5.6.2.1 DownloadState downloadState

precreated global instance of DownloadState

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