

# Package ‘geosapi’

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**Type** Package

**Title** GeoServer REST API R Interface

**Version** 0.6-4

**Date** 2022-08-18

**Maintainer** Emmanuel Blondel <emmanuel.blondel1@gmail.com>

**Description** Provides an R interface to the GeoServer REST API, allowing to upload and publish data in a GeoServer web-application and expose data to OGC Web-Services. The package currently supports all CRUD (Create,Read,Update,Delete) operations on GeoServer workspaces, namespaces, datastores (stores of vector data), featuretypes, layers, styles, as well as vector data upload operations. For more information about the GeoServer REST API, see <<https://docs.geoserver.org/stable/en/user/rest/>>.

**Depends** R (>= 3.1.0)

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**Suggests** testthat, roxygen2, covr, shiny, knitr, markdown

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<https://eblondel.github.io/geosapi/>, <https://geoserver.org/>

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**R topics documented:**

geosapi . . . . .	3
GSAbstractCoverageStore . . . . .	3
GSAbstractDataStore . . . . .	5
GSAbstractDBDataStore . . . . .	7
GSAbstractStore . . . . .	12
GSArcGridCoverageStore . . . . .	14
GSCoverage . . . . .	15
GSCoverageBand . . . . .	17
GSCoverageStoreManager . . . . .	20
GSCoverageView . . . . .	27
GSDataStoreManager . . . . .	29
GSDimension . . . . .	38
GSFeatureDimension . . . . .	40
GSFeatureType . . . . .	42
GSGeoPackageDataStore . . . . .	44
GSGeoTIFFCoverageStore . . . . .	46
GSIImageMosaicCoverageStore . . . . .	47
GSInputCoverageBand . . . . .	48
GSLayer . . . . .	50
GSLayerGroup . . . . .	55
GSLayerManager . . . . .	59
GSManger . . . . .	62
GSMetadataLink . . . . .	66
GSNamespace . . . . .	68
GSNamespaceManager . . . . .	70
GSOacleNGDataStore . . . . .	72
GSPostGISDataStore . . . . .	74
GSPublishable . . . . .	75
GSResource . . . . .	77
GSRESTEntrySet . . . . .	83
GSRESTResource . . . . .	85
GSServiceManager . . . . .	86
GSServiceSettings . . . . .	91
GSShapefileDataStore . . . . .	95
GSShapefileDirectoryDataStore . . . . .	98
GSShinyMonitor . . . . .	100
GSStyleManager . . . . .	101
GSUtils . . . . .	104
GSVersion . . . . .	106
GSVirtualTable . . . . .	108
GSVirtualTableGeometry . . . . .	111
GSVirtualTableParameter . . . . .	112
GSWorkspace . . . . .	114
GSWorkspaceManager . . . . .	115
GSWorkspaceSettings . . . . .	118
GSWorldImageCoverageStore . . . . .	121

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`geosapi`*GeoServer REST API R Interface*

---

**Description**

Provides an R interface to the GeoServer REST API, allowing to upload and publish data in a GeoServer web-application and expose data to OGC Web-Services. The package currently supports all CRUD (Create,Read,Update,Delete) operations on GeoServer workspaces, namespaces, datastores (stores of vector data), featuretypes, layers, styles, as well as vector data upload operations. For more information about the GeoServer REST API, see <<https://docs.geoserver.org/stable/en/user/rest/>>

**Details**

Package: `geosapi`  
Type: `Package`  
Version: `0.6`  
Date: `2022-02-22`  
License: `MIT`  
LazyLoad: `yes`

**Author(s)**

Emmanuel Blondel <[emmanuel.blondel1@gmail.com](mailto:emmanuel.blondel1@gmail.com)>

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`GSAbstractCoverageStore`*Geoserver REST API CoverageStore*

---

**Description**

Geoserver REST API CoverageStore

Geoserver REST API CoverageStore

**Format**

`R6Class` object.

**Value**

Object of `R6Class` for modelling a GeoServer CoverageStore

**Super classes**

[geosapi::GSRESTResource](#) -> [geosapi::GSAbstractStore](#) -> GSAbstractCoverageStore

**Public fields**

url URL of the abstract coverage store

**Methods****Public methods:**

- [GSAbstractCoverageStore\\$new\(\)](#)
- [GSAbstractCoverageStore\\$decode\(\)](#)
- [GSAbstractCoverageStore\\$setUrl\(\)](#)
- [GSAbstractCoverageStore\\$clone\(\)](#)

**Method new():** initializes an abstract coverage store

*Usage:*

```
GSAbstractCoverageStore$new(  
  xml = NULL,  
  type = NULL,  
  name = NULL,  
  description = "",  
  enabled = TRUE,  
  url = NULL  
)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#) to create object from XML  
 type the type of coverage store  
 name coverage store name  
 description coverage store description  
 enabled whether the store should be enabled or not. Default is TRUE  
 url URL of the store

**Method decode():** Decodes a coverage store from XML

*Usage:*

```
GSAbstractCoverageStore$decode(xml)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#)

*Returns:* an object of class [GSAbstractCoverageStore](#)

**Method setUrl():** set coverage store URL

*Usage:*

```
GSAbstractCoverageStore$setUrl(url)
```

*Arguments:*

url the store URL to set

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSAbstractCoverageStore$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

---

GSAbstractDataStore    *Geoserver REST API DataStore*

---

### Description

Geoserver REST API DataStore

Geoserver REST API DataStore

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) for modelling a GeoServer dataStore

### Super classes

[geosapi::GSRESTResource](#) -> [geosapi::GSAbstractStore](#) -> GSAbstractDataStore

### Public fields

connectionParameters the list of connection parameters

### Methods

#### Public methods:

- [GSAbstractDataStore\\$new\(\)](#)
- [GSAbstractDataStore\\$decode\(\)](#)
- [GSAbstractDataStore\\$setConnectionParameters\(\)](#)
- [GSAbstractDataStore\\$addConnectionParameter\(\)](#)
- [GSAbstractDataStore\\$setConnectionParameter\(\)](#)
- [GSAbstractDataStore\\$delConnectionParameter\(\)](#)
- [GSAbstractDataStore\\$clone\(\)](#)

**Method** new(): initializes an abstract data store

*Usage:*

```
GSAbstractDataStore$new(  
  xml = NULL,  
  type = NULL,  
  name = NULL,  
  description = "",  
  enabled = TRUE,  
  connectionParameters  
)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#) to create object from XML  
 type the type of coverage store  
 name coverage store name  
 description coverage store description  
 enabled whether the store should be enabled or not. Default is TRUE  
 connectionParameters the list of connection parameters

**Method** decode(): Decodes a data store from XML

*Usage:*

```
GSAbstractDataStore$decode(xml)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#)

*Returns:* an object of class [GSAbstractDataStore](#)

**Method** setConnectionParameters(): Set list connection parameters. The argument should be an object of class [GSRESTEntrySet](#) giving a list of key/value parameter entries.

*Usage:*

```
GSAbstractDataStore$setConnectionParameters(parameters)
```

*Arguments:*

parameters an object of class [GSRESTEntrySet](#)

**Method** addConnectionParameter(): Adds a connection parameter

*Usage:*

```
GSAbstractDataStore$addConnectionParameter(key, value)
```

*Arguments:*

key connection parameter key

value connection parameter value

*Returns:* TRUE if added, FALSE otherwise

**Method** setConnectionParameter(): Sets a connection parameter

*Usage:*

```
GSAbstractDataStore$setConnectionParameter(key, value)
```

*Arguments:*

key connection parameter key  
value connection parameter value

**Method** delConnectionParameter(): Removes a connection parameter

*Usage:*

GSAbstractDataStore\$delConnectionParameter(key)

*Arguments:*

key connection parameter key  
value connection parameter value

*Returns:* TRUE if removed, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

GSAbstractDataStore\$clone(deep = FALSE)

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

---

GSAbstractDBDataStore *Geoserver REST API AbstractDBDataStore*

---

**Description**

Geoserver REST API AbstractDBDataStore

Geoserver REST API AbstractDBDataStore

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a GeoServer abstract DB dataStore

**Super classes**

[geosapi::GSRESTResource](#) -> [geosapi::GSAbstractStore](#) -> [geosapi::GSAbstractDataStore](#)  
-> [GSAbstractDBDataStore](#)

**Methods****Public methods:**

- [GSAbstractDBDataStore\\$new\(\)](#)
- [GSAbstractDBDataStore\\$setDatabaseType\(\)](#)
- [GSAbstractDBDataStore\\$setNamespace\(\)](#)
- [GSAbstractDBDataStore\\$setHost\(\)](#)
- [GSAbstractDBDataStore\\$setPort\(\)](#)
- [GSAbstractDBDataStore\\$setDatabase\(\)](#)
- [GSAbstractDBDataStore\\$setSchema\(\)](#)
- [GSAbstractDBDataStore\\$setUser\(\)](#)
- [GSAbstractDBDataStore\\$setPassword\(\)](#)
- [GSAbstractDBDataStore\\$setJndiReferenceName\(\)](#)
- [GSAbstractDBDataStore\\$setExposePrimaryKeys\(\)](#)
- [GSAbstractDBDataStore\\$setMinConnections\(\)](#)
- [GSAbstractDBDataStore\\$setMaxConnections\(\)](#)
- [GSAbstractDBDataStore\\$setFetchSize\(\)](#)
- [GSAbstractDBDataStore\\$setConnectionTimeout\(\)](#)
- [GSAbstractDBDataStore\\$setValidateConnections\(\)](#)
- [GSAbstractDBDataStore\\$setPrimaryKeyMetadataTable\(\)](#)
- [GSAbstractDBDataStore\\$setLooseBBox\(\)](#)
- [GSAbstractDBDataStore\\$setPreparedStatements\(\)](#)
- [GSAbstractDBDataStore\\$setMaxOpenPreparedStatements\(\)](#)
- [GSAbstractDBDataStore\\$setEstimatedExtends\(\)](#)
- [GSAbstractDBDataStore\\$setDefaultConnectionParameters\(\)](#)
- [GSAbstractDBDataStore\\$clone\(\)](#)

**Method** `new()`: initializes an abstract DB data store

*Usage:*

```
GSAbstractDBDataStore$new(
    xml = NULL,
    type = NULL,
    dbType = NULL,
    name = NULL,
    description = "",
    enabled = TRUE
)
```

*Arguments:*

`xml` an object of class [XMLInternalNode-class](#) to create object from XML

`type` the type of DB data store

`dbType` DB type

`name` coverage store name

`description` coverage store description

`enabled` whether the store should be enabled or not. Default is TRUE



**Method** setDatabaseType(): Set database type

*Usage:*

GSAbstractDBDataStore\$setDatabaseType(dbtype)

*Arguments:*

dbtype DB type

**Method** setNamespace(): Set namespace

*Usage:*

GSAbstractDBDataStore\$setNamespace(namespace)

*Arguments:*

namespace namespace

**Method** setHost(): Set host

*Usage:*

GSAbstractDBDataStore\$setHost(host)

*Arguments:*

host host

**Method** setPort(): Set port

*Usage:*

GSAbstractDBDataStore\$setPort(port)

*Arguments:*

port port

**Method** setDatabase(): Set database

*Usage:*

GSAbstractDBDataStore\$setDatabase(database)

*Arguments:*

database database

**Method** setSchema(): Set schema

*Usage:*

GSAbstractDBDataStore\$setSchema(schema)

*Arguments:*

schema schema

**Method** setUser(): Set user

*Usage:*

GSAbstractDBDataStore\$setUser(user)

*Arguments:*

user user

**Method setPassword():** Set password

*Usage:*

GSAbstractDBDataStore.setPassword(password)

*Arguments:*

password password

**Method setJndiReferenceName():** Set JNDI reference name

*Usage:*

GSAbstractDBDataStore.setJndiReferenceName(jndiReferenceName)

*Arguments:*

jndiReferenceName JNDI reference name

**Method setExposePrimaryKeys():** Set expose primary keys

*Usage:*

GSAbstractDBDataStore.setExposePrimaryKeys(exposePrimaryKeys)

*Arguments:*

exposePrimaryKeys expose primary keys

**Method setMinConnections():** Set min connections

*Usage:*

GSAbstractDBDataStore.setMinConnections(minConnections = 1)

*Arguments:*

minConnections min connections. Default is 11

**Method setMaxConnections():** Set max connections

*Usage:*

GSAbstractDBDataStore.setMaxConnections(maxConnections = 10)

*Arguments:*

maxConnections max connections. Default is 10

**Method setFetchSize():** Set fetch size

*Usage:*

GSAbstractDBDataStore.setFetchSize(fetchSize = 1000)

*Arguments:*

fetchSize fetch size. Default is 1000

**Method setConnectionTimeout():** Set connection timeout

*Usage:*

GSAbstractDBDataStore.setConnectionTimeout(seconds = 20)

*Arguments:*

seconds timeout (in seconds). Default is 20

**Method** setValidateConnections(): Set validate connection

*Usage:*

```
GSAbstractDBDataStore$setValidateConnections(validateConnections)
```

*Arguments:*

validateConnections Validate connections

**Method** setPrimaryKeyMetadataTable(): Set primary key metadata table

*Usage:*

```
GSAbstractDBDataStore$setPrimaryKeyMetadataTable(primaryKeyMetadataTable)
```

*Arguments:*

primaryKeyMetadataTable primary key metadata table

**Method** setLooseBBox(): Set loose bbox

*Usage:*

```
GSAbstractDBDataStore$setLooseBBox(looseBBox = TRUE)
```

*Arguments:*

looseBBox loose bbox. Default is TRUE

**Method** setPreparedStatements(): Set prepared statements

*Usage:*

```
GSAbstractDBDataStore$setPreparedStatements(preparedStatements = FALSE)
```

*Arguments:*

preparedStatements prepared statements. Default is FALSE

**Method** setMaxOpenPreparedStatements(): Set max open prepared statements

*Usage:*

```
GSAbstractDBDataStore$setMaxOpenPreparedStatements(  
  maxOpenPreparedStatements = 50  
)
```

*Arguments:*

maxOpenPreparedStatements max open prepared statements. Default is 50

**Method** setEstimatedExtends(): Set estimated extends

*Usage:*

```
GSAbstractDBDataStore$setEstimatedExtends(estimatedExtends = FALSE)
```

*Arguments:*

estimatedExtends estimated extends. Default is FALSE

**Method** setDefaultConnectionParameters(): Set default connection parameters

*Usage:*

```
GSAbstractDBDataStore$setDefaultConnectionParameters()
```

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSAbstractDBDataStore$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Note**

Internal abstract class used for setting DB stores

**Author(s)**

Emmanuel Blondel <emmanuel.blondell@gmail.com>

---

GSAbstractStore

*Geoserver REST API Store*

---

**Description**

Geoserver REST API Store

Geoserver REST API Store

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a GeoServer store

**Super class**

[geosapi::GSRESTResource](#) -> GSAbstractStore

**Public fields**

full whether store object is fully described

name store name

enabled if the store is enabled or not

description store description

type store type

workspace workspace name

**Methods****Public methods:**

- [GSAbstractStore\\$new\(\)](#)
- [GSAbstractStore\\$decode\(\)](#)
- [GSAbstractStore\\$setType\(\)](#)
- [GSAbstractStore\\$setEnabled\(\)](#)
- [GSAbstractStore\\$setDescription\(\)](#)
- [GSAbstractStore\\$clone\(\)](#)

**Method new():** initializes an abstract store

*Usage:*

```
GSAbstractStore$new(  
    xml = NULL,  
    storeType,  
    type = NULL,  
    name = NULL,  
    description = "",  
    enabled = TRUE  
)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#) to create object from XML  
storeType store type  
type the type of coverage store  
name coverage store name  
description coverage store description  
enabled whether the store should be enabled or not. Default is TRUE

**Method decode():** Decodes store from XML

*Usage:*

```
GSAbstractStore$decode(xml)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method setType():** Set type

*Usage:*

```
GSAbstractStore$setType(type)
```

*Arguments:*

type type

**Method setEnabled():** Set enabled

*Usage:*

```
GSAbstractStore$setEnabled(enabled)
```

*Arguments:*

enabled enabled

**Method setDescription():** Set description

*Usage:*

```
GSAbstractStore$setDescription(description)
```

*Arguments:*

description description

**Method clone():** The objects of this class are cloneable with this method.

*Usage:*

```
GSAbstractStore$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

---

GSArcGridCoverageStore

*Geoserver REST API ArcGridCoverageStore*

---

**Description**

Geoserver REST API ArcGridCoverageStore

Geoserver REST API ArcGridCoverageStore

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a GeoServer ArcGrid CoverageStore

**Super classes**

[geosapi::GSRESTResource](#) -> [geosapi::GSAbstractStore](#) -> [geosapi::GSAbstractCoverageStore](#)  
-> [GSArcGridCoverageStore](#)

**Public fields**

url url

**Methods****Public methods:**

- [GSArcGridCoverageStore\\$new\(\)](#)
- [GSArcGridCoverageStore\\$clone\(\)](#)

**Method** `new()`: initializes an abstract ArcGrid coverage store

*Usage:*

```
GSArcGridCoverageStore$new(  
  xml = NULL,  
  name = NULL,  
  description = "",  
  enabled = TRUE,  
  url = NULL  
)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#) to create object from XML

name coverage store name  
description coverage store description  
enabled whether the store should be enabled or not. Default is TRUE  
url url

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSArcGridCoverageStore$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondell@gmail.com>

---

GSCoverage

*A GeoServer coverage*

---

### Description

This class models a GeoServer coverage. This class is to be used for manipulating representations of vector data with GeoServer.

### Format

[R6Class](#) object.

### Details

Geoserver REST API Resource

### Value

Object of [R6Class](#) for modelling a GeoServer coverage

### Super classes

[geosapi::GSRESTResource](#) -> [geosapi::GSResource](#) -> GSCoverage

### Public fields

cqlFilter CQL filter

## Methods

### Public methods:

- [GSCoverage\\$new\(\)](#)
- [GSCoverage\\$decode\(\)](#)
- [GSCoverage\\$setView\(\)](#)
- [GSCoverage\\$delView\(\)](#)
- [GSCoverage\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes a [GSCoverage](#) from XML

*Usage:*

```
GSCoverage$new(xml = NULL)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** [decode\(\)](#): Decodes coverage from XML

*Usage:*

```
GSCoverage$decode(xml)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** [setView\(\)](#): Set view

*Usage:*

```
GSCoverage$setView(cv)
```

*Arguments:*

cv cv, object of class [GSCoverageView](#)

*Returns:* TRUE if set, FALSE otherwise

**Method** [delView\(\)](#): Deletes view

*Usage:*

```
GSCoverage$delView()
```

*Returns:* TRUE if deleted, FALSE otherwise

**Method** [clone\(\)](#): The objects of this class are cloneable with this method.

*Usage:*

```
GSCoverage$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

## Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

## Examples

```
gt <- GSCoverage$new()
```



---

GSCoverageBand

*Geoserver REST API GSCoverageBand*

---

### Description

Geoserver REST API GSCoverageBand

Geoserver REST API GSCoverageBand

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) for modelling a GeoServer coverage band

### Methods

`new(xml)` This method is used to instantiate a GSCoverageBand

`decode(xml)` This method is used to decode a GSCoverageBand from XML

`encode()` This method is used to encode a GSCoverageBand to XML

`setDefinition(definition)` Sets the coverage band definition

`setIndex(index)` Sets the coverage band index

`setCompositionType` Sets the composition type. Only 'BAND\_SELECT' is supported by GeoServer for now.

`addInputBand(band)` Adds a input coverage band, object of class GSInputCoverageBand

`delInputBand(band)` Removes a input coverage band, object of class GSInputCoverageBand

### Super class

[geosapi:GSRESTResource](#) -> GSCoverageBand

### Public fields

`inputCoverageBands` list of input coverage bands

`definition` coverage band definition

`index` coverage band index

`compositionType` coverage band composition type

**Methods****Public methods:**

- [GSCoverageBand\\$new\(\)](#)
- [GSCoverageBand\\$decode\(\)](#)
- [GSCoverageBand\\$setName\(\)](#)
- [GSCoverageBand\\$setDefinition\(\)](#)
- [GSCoverageBand\\$setIndex\(\)](#)
- [GSCoverageBand\\$setCompositionType\(\)](#)
- [GSCoverageBand\\$addInputBand\(\)](#)
- [GSCoverageBand\\$delInputBand\(\)](#)
- [GSCoverageBand\\$clone\(\)](#)

**Method** `new()`: Initializes a [GSCoverageBand](#)

*Usage:*

```
GSCoverageBand$new(xml = NULL)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** `decode()`: Decodes from XML

*Usage:*

```
GSCoverageBand$decode(xml)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** `setName()`: Set name

*Usage:*

```
GSCoverageBand$setName(name)
```

*Arguments:*

name name

**Method** `setDefinition()`: Set definition

*Usage:*

```
GSCoverageBand$setDefinition(definition)
```

*Arguments:*

definition definition

**Method** `setIndex()`: Set index

*Usage:*

```
GSCoverageBand$setIndex(index)
```

*Arguments:*

index index

**Method** setCompositionType(): Set composition type

*Usage:*

```
GSCoverageBand$setCompositionType(compositionType)
```

*Arguments:*

compositionType composition type

**Method** addInputBand(): Adds an input band

*Usage:*

```
GSCoverageBand$addInputBand(band)
```

*Arguments:*

band object of class [GSInputCoverageBand](#)

*Returns:* TRUE if added, FALSE otherwise

**Method** delInputBand(): Deletes an input band

*Usage:*

```
GSCoverageBand$delInputBand(band)
```

*Arguments:*

band object of class [GSInputCoverageBand](#)

*Returns:* TRUE if deleted, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSCoverageBand$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

### Examples

```
GSCoverageBand$new()
```

---

GSCoverageStoreManager

*Geoserver REST API CoverageStore Manager*

---

## Description

Geoserver REST API CoverageStore Manager

Geoserver REST API CoverageStore Manager

## Format

[R6Class](#) object.

## Value

Object of [R6Class](#) with methods for managing GeoServer CoverageStores (i.e. stores of coverage data)

## Super class

[geosapi : :GManager](#) -> GSCoverageStoreManager

## Methods

### Public methods:

- [GSCoverageStoreManager\\$getCoverageStores\(\)](#)
- [GSCoverageStoreManager\\$getCoverageStoreNames\(\)](#)
- [GSCoverageStoreManager\\$getCoverageStore\(\)](#)
- [GSCoverageStoreManager\\$createCoverageStore\(\)](#)
- [GSCoverageStoreManager\\$updateCoverageStore\(\)](#)
- [GSCoverageStoreManager\\$deleteCoverageStore\(\)](#)
- [GSCoverageStoreManager\\$getCoverages\(\)](#)
- [GSCoverageStoreManager\\$getCoverageNames\(\)](#)
- [GSCoverageStoreManager\\$getCoverage\(\)](#)
- [GSCoverageStoreManager\\$createCoverage\(\)](#)
- [GSCoverageStoreManager\\$updateCoverage\(\)](#)
- [GSCoverageStoreManager\\$deleteCoverage\(\)](#)
- [GSCoverageStoreManager\\$uploadCoverage\(\)](#)
- [GSCoverageStoreManager\\$uploadGeoTIFF\(\)](#)
- [GSCoverageStoreManager\\$uploadWorldImage\(\)](#)
- [GSCoverageStoreManager\\$uploadArcGrid\(\)](#)
- [GSCoverageStoreManager\\$uploadImageMosaic\(\)](#)
- [GSCoverageStoreManager\\$clone\(\)](#)

**Method** `getCoverageStores()`: Get the list of available coverage stores. Returns an object of class `List` giving items of class [GSAbstractCoverageStore](#)

*Usage:*

```
GSCoverageStoreManager$getCoverageStores(ws)
```

*Arguments:*

`ws` workspace name

*Returns:* the list of coverage stores

**Method** `getCoverageStoreNames()`: Get the list of available coverage store names. Returns an vector of class `character`

*Usage:*

```
GSCoverageStoreManager$getCoverageStoreNames(ws)
```

*Arguments:*

`ws` workspace name

*Returns:* the list of coverage store names, as `character`

**Method** `getCoverageStore()`: Get an object of class [GSAbstractDataStore](#) given a workspace and coverage store names.

*Usage:*

```
GSCoverageStoreManager$getCoverageStore(ws, cs)
```

*Arguments:*

`ws` workspace name

`cs` coverage store name

*Returns:* the coverage store

**Method** `createCoverageStore()`: Creates a new coverage store given a workspace, coverage store name. Abstract method used in below format-specific methods to create coverage stores.

*Usage:*

```
GSCoverageStoreManager$createCoverageStore(ws, coverageStore)
```

*Arguments:*

`ws` workspace name

`coverageStore` coverage store object

*Returns:* TRUE if created, FALSE otherwise

**Method** `updateCoverageStore()`: Updates a coverage store given a workspace, coverage store name. Abstract method used in below format-specific methods to create coverage stores.

*Usage:*

```
GSCoverageStoreManager$updateCoverageStore(ws, coverageStore)
```

*Arguments:*

`ws` workspace name

`coverageStore` coverage store object

*Returns:* TRUE if updated, FALSE otherwise

**Method deleteCoverageStore():** Deletes a coverage store given a workspace and an object of class [GSAbstractCoverageStore](#). By default, the option `recurse` is set to `FALSE`, ie datastore layers are not removed. To remove all coverage store layers, set this option to `TRUE`. The `purge` parameter is used to customize the delete of files on disk (in case the underlying reader implements a delete method). It can take one of the three values: `none`, `metadata`, `all`. For more details see <https://docs.geoserver.org/stable/en/user/rest/api/coveragestores.html#purge>

*Usage:*

```
GSCoverageStoreManager$deleteCoverageStore(
  ws,
  cs,
  recurse = FALSE,
  purge = NULL
)
```

*Arguments:*

`ws` workspace name  
`cs` coverage store name  
`recurse` recurse  
`purge` purge

*Returns:* TRUE if deleted, FALSE otherwise

**Method getCoverages():** Get the list of available coverages for given workspace and coverage store. Returns an object of class `list` giving items of class [GSCoverage](#)

*Usage:*

```
GSCoverageStoreManager$getCoverages(ws, cs)
```

*Arguments:*

`ws` workspace name  
`cs` coverage store name

*Returns:* the list of [GSCoverage](#)

**Method getCoverageNames():** Get the list of available coverage names for given workspace and coverage store. Returns an object of class `list` giving items of class [GSCoverage](#)

*Usage:*

```
GSCoverageStoreManager$getCoverageNames(ws, cs)
```

*Arguments:*

`ws` workspace name  
`cs` coverage store name

*Returns:* the list of coverage names

**Method getCoverage():** Get coverage

*Usage:*

```
GSCoverageStoreManager$getCoverage(ws, cs, cv)
```

*Arguments:*

`ws` workspace name

cs coverage store name  
cv coverage name

**Method** createCoverage(): Creates a new coverage given a workspace, coverage store names and an object of class [GSCoverage](#)

*Usage:*

```
GSCoverageStoreManager#createCoverage(ws, cs, coverage)
```

*Arguments:*

ws workspace name  
cs coverage store name  
coverage object of class [GSCoverage](#)

*Returns:* TRUE if created, FALSE otherwise

**Method** updateCoverage(): Updates a coverage given a workspace, coverage store names and an object of class [GSCoverage](#)

*Usage:*

```
GSCoverageStoreManager$updateCoverage(ws, cs, coverage)
```

*Arguments:*

ws workspace name  
cs coverage store name  
coverage object of class [GSCoverage](#)

*Returns:* TRUE if updated, FALSE otherwise

**Method** deleteCoverage(): Deletes a coverage given a workspace, coverage store names, and an object of class [GSCoverage](#). By default, the option recurse is set to FALSE, ie coverage layers are not removed.

*Usage:*

```
GSCoverageStoreManager$deleteCoverage(ws, cs, cv, recurse = FALSE)
```

*Arguments:*

ws workspace name  
cs coverage store name  
cv coverage name  
recurse recurse

**Method** uploadCoverage(): Abstract method to upload a coverage file targeting a workspace (ws) and datastore (cs). The extension corresponds to the format/type of coverage to be uploaded (among values 'geotiff', 'worldimage', 'arcgrid', or 'imagemosaic'). The endpoint takes a value among "file" (default), "url" or "external". The filename is the name of the coverage file to upload and set for the newly created datastore. The configure parameter can take a value among values "none" (indicates to configure only the datastore but no layer configuration) or "first" (configure both datastore and layer). The update defines the strategy for the upload: "append" (default value) for the first upload, "overwrite" in case the file should be overwritten.

*Usage:*

```
GSCoverageStoreManager$uploadCoverage(
    ws,
    cs,
    endpoint = "file",
    extension,
    filename,
    configure = "first",
    update = "append",
    contentType
)
```

*Arguments:*

ws workspace name  
cs coverage store name  
endpoint endpoint. Default is "file"  
extension extension  
filename filename  
configure configure. Default is "first"  
update update. Default is "append"  
contentType content type

*Returns:* TRUE if uploaded, FALSE otherwise

**Method** uploadGeoTIFF(): Uploads a GeoTIFF file targeting a workspace (ws) and datastore (cs). The endpoint takes a value among "file" (default), "url" or "external". The filename is the name of the GeoTIFF file to upload and set for the newly created datastore. The configure parameter can take a value among values "none" (indicates to configure only the datastore but no layer configuration) or "first" (configure both datastore and layer). The update defines the strategy for the upload: "append" (default value) for the first upload, "overwrite" in case the file should be overwritten.

*Usage:*

```
GSCoverageStoreManager$uploadGeoTIFF(
    ws,
    cs,
    endpoint = "file",
    filename,
    configure = "first",
    update = "append"
)
```

*Arguments:*

ws workspace name  
cs coverage store name  
endpoint endpoint. Default is "file"  
filename filename  
configure configure. Default is "first"  
update update. Default is "append"

*Returns:* TRUE if uploaded, FALSE otherwise



**Method** `uploadWorldImage()`: Uploads a WorldImage file targeting a workspace (ws) and datastore (cs). The endpoint takes a value among "file" (default), "url" or "external". The filename is the name of the zipped file to upload and set for the newly created datastore. It is assumed the zip archive contains the .prj file to set the SRS. The configure parameter can take a value among values "none" (indicates to configure only the datastore but no layer configuration) or "first" (configure both datastore and layer). The update defines the strategy for the upload: "append" (default value) for the first upload, "overwrite" in case the file should be overwritten.

*Usage:*

```
GSCoverageStoreManager$uploadWorldImage(  
    ws,  
    cs,  
    endpoint = "file",  
    filename,  
    configure = "first",  
    update = "append"  
)
```

*Arguments:*

ws workspace name  
cs coverage store name  
endpoint endpoint. Default is "file"  
filename filename  
configure configure. Default is "first"  
update update. Default is "append"

*Returns:* TRUE if uploaded, FALSE otherwise

**Method** `uploadArcGrid()`: Uploads an ArcGrid file targeting a workspace (ws) and datastore (cs). The endpoint takes a value among "file" (default), "url" or "external". The filename is the name of the ArcGrid file to upload and set for the newly created datastore. The configure parameter can take a value among values "none" (indicates to configure only the datastore but no layer configuration) or "first" (configure both datastore and layer). The update defines the strategy for the upload: "append" (default value) for the first upload, "overwrite" in case the file should be overwritten.

*Usage:*

```
GSCoverageStoreManager$uploadArcGrid(  
    ws,  
    cs,  
    endpoint = "file",  
    filename,  
    configure = "first",  
    update = "append"  
)
```

*Arguments:*

ws workspace name  
cs coverage store name  
endpoint endpoint. Default is "file"

filename filename  
 configure configure. Default is "first"  
 update update. Default is "append"  
*Returns:* TRUE if uploaded, FALSE otherwise

**Method** uploadImageMosaic(): Uploads an ImageMosaic file targeting a workspace (ws) and datastore (cs). The endpoint takes a value among "file" (default), "url" or "external". The filename is the name of the ImageMosaic file to upload and set for the newly created datastore. The configure parameter can take a value among values "none" (indicates to configure only the datastore but no layer configuration) or "first" (configure both datastore and layer). The update defines the strategy for the upload: "append" (default value) for the first upload, "overwrite" in case the file should be overwritten.

*Usage:*  
 GSCoverageStoreManager\$uploadImageMosaic(  
     ws,  
     cs,  
     endpoint = "file",  
     filename,  
     configure = "first",  
     update = "append"  
 )

*Arguments:*  
 ws workspace name  
 cs coverage store name  
 endpoint endpoint. Default is "file"  
 filename filename  
 configure configure. Default is "first"  
 update update. Default is "append"  
*Returns:* TRUE if uploaded, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*  
 GSCoverageStoreManager\$clone(deep = FALSE)  
*Arguments:*  
 deep Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondell@gmail.com>

### Examples

```
## Not run:
  GSCoverageStoreManager$new("http://localhost:8080/geoserver", "admin", "geoserver")

## End(Not run)
```

---

GSCoverageView      *Geoserver REST API GSCoverageView*

---

### Description

Geoserver REST API GSCoverageView  
Geoserver REST API GSCoverageView

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) for modelling a GeoServer coverage view

### Super class

[geosapi : : GSRESTResource](#) -> GSCoverageView

### Public fields

name name  
envelopeCompositionType envelope composition type  
selectedResolution selected resolution  
selectedResolutionIndex selected resolution index  
coverageBands coverage bands

### Methods

#### Public methods:

- [GSCoverageView\\$new\(\)](#)
- [GSCoverageView\\$decode\(\)](#)
- [GSCoverageView\\$setName\(\)](#)
- [GSCoverageView\\$setEnvelopeCompositionType\(\)](#)
- [GSCoverageView\\$setSelectedResolution\(\)](#)
- [GSCoverageView\\$setSelectedResolutionIndex\(\)](#)
- [GSCoverageView\\$addBand\(\)](#)
- [GSCoverageView\\$delBand\(\)](#)
- [GSCoverageView\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes an object of class [GSCoverageView](#)

*Usage:*

[GSCoverageView\\$new\(xml = NULL\)](#)

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** decode(): Decodes from XML

*Usage:*

```
GSCoverageView$decode(xml)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** setName(): Set name

*Usage:*

```
GSCoverageView$setName(name)
```

*Arguments:*

name name

**Method** setEnvelopeCompositionType(): Sets the envelope composition type. Type of Envelope Composition, used to expose the bounding box of the CoverageView, either 'UNION' or 'INTERSECTION'.

*Usage:*

```
GSCoverageView$setEnvelopeCompositionType(envelopeCompositionType)
```

*Arguments:*

envelopeCompositionType envelope composition type

**Method** setSelectedResolution(): Set selected resolution

*Usage:*

```
GSCoverageView$setSelectedResolution(selectedResolution)
```

*Arguments:*

selectedResolution selected resolution

**Method** setSelectedResolutionIndex(): Set selected resolution index

*Usage:*

```
GSCoverageView$setSelectedResolutionIndex(selectedResolutionIndex)
```

*Arguments:*

selectedResolutionIndex selected resolution index

**Method** addBand(): Adds band

*Usage:*

```
GSCoverageView$addBand(band)
```

*Arguments:*

band object of class [GSCoverageBand](#)

*Returns:* TRUE if added, FALSE otherwise

**Method** delBand(): Deletes band

*Usage:*`GSCoverageView$delBand(band)`*Arguments:*`band` object of class [GSCoverageBand](#)*Returns:* TRUE if deleted, FALSE otherwise**Method** `clone()`: The objects of this class are cloneable with this method.*Usage:*`GSCoverageView$clone(deep = FALSE)`*Arguments:*`deep` Whether to make a deep clone.**Author(s)**

Emmanuel Blondel &lt;emmanuel.blondel1@gmail.com&gt;

**Examples**`GSCoverageView$new()`

---

GSDataStoreManager	<i>Geoserver REST API DataStore Manager</i>
--------------------	---

---

**Description**

Geoserver REST API DataStore Manager

Geoserver REST API DataStore Manager

**Format**[R6Class](#) object.**Value**Object of [R6Class](#) with methods for managing GeoServer DataStores (i.e. stores of vector data)**Super class**[geosapi::GSManager](#) -> GSDataStoreManager

## Methods

### Public methods:

- [GSDataStoreManager\\$getDataStores\(\)](#)
- [GSDataStoreManager\\$getDataStoreNames\(\)](#)
- [GSDataStoreManager\\$getDataStore\(\)](#)
- [GSDataStoreManager\\$createDataStore\(\)](#)
- [GSDataStoreManager\\$updateDataStore\(\)](#)
- [GSDataStoreManager\\$deleteDataStore\(\)](#)
- [GSDataStoreManager\\$getFeatureTypes\(\)](#)
- [GSDataStoreManager\\$getFeatureTypeNames\(\)](#)
- [GSDataStoreManager\\$getFeatureType\(\)](#)
- [GSDataStoreManager\\$createFeatureType\(\)](#)
- [GSDataStoreManager\\$updateFeatureType\(\)](#)
- [GSDataStoreManager\\$deleteFeatureType\(\)](#)
- [GSDataStoreManager\\$publishLayer\(\)](#)
- [GSDataStoreManager\\$unpublishLayer\(\)](#)
- [GSDataStoreManager\\$uploadData\(\)](#)
- [GSDataStoreManager\\$uploadShapefile\(\)](#)
- [GSDataStoreManager\\$uploadProperties\(\)](#)
- [GSDataStoreManager\\$uploadH2\(\)](#)
- [GSDataStoreManager\\$uploadSpatialite\(\)](#)
- [GSDataStoreManager\\$uploadAppschema\(\)](#)
- [GSDataStoreManager\\$uploadGeoPackage\(\)](#)
- [GSDataStoreManager\\$clone\(\)](#)

**Method** [getDataStores\(\)](#): Get the list of available dataStores.

*Usage:*

```
GSDataStoreManager$getDataStores(ws)
```

*Arguments:*

ws workspace name

*Returns:* an object of class `list` giving items of class [GSAbstractDataStore](#)

**Method** [getDataStoreNames\(\)](#): Get the list of available dataStore names.

*Usage:*

```
GSDataStoreManager$getDataStoreNames(ws)
```

*Arguments:*

ws workspace name

*Returns:* a vector of class `character`

**Method** [getDataStore\(\)](#): Get an object of class [GSAbstractDataStore](#) given a workspace and datastore names.

*Usage:*

```
GSDataStoreManager$getDataStore(ws, ds)
```

*Arguments:*

ws workspace name

ds datastore name

*Returns:* the datastore

**Method** createDataStore(): Creates a datastore given a workspace and an object of class [GSAbstractDataStore](#).

*Usage:*

```
GSDataStoreManager$createDataStore(ws, datastore)
```

*Arguments:*

ws workspace name

dataStore datastore object of class [GSAbstractDataStore](#)

*Returns:* TRUE if created, FALSE otherwise

**Method** updateDataStore(): Updates a datastore given a workspace and an object of class [GSAbstractDataStore](#).

*Usage:*

```
GSDataStoreManager$updateDataStore(ws, datastore)
```

*Arguments:*

ws workspace name

dataStore datastore object of class [GSAbstractDataStore](#)

*Returns:* TRUE if updated, FALSE otherwise

**Method** deleteDataStore(): Deletes a datastore given workspace and datastore names. By default, the option recurse is set to FALSE, ie datastore layers are not removed. To remove all datastore layers, set this option to TRUE.

*Usage:*

```
GSDataStoreManager$deleteDataStore(ws, ds, recurse = FALSE)
```

*Arguments:*

ws workspace name

ds datastore name

recurse recurse

*Returns:* TRUE if deleted, FALSE otherwise

**Method** getFeatureTypes(): Get the list of available feature types for given workspace and datastore.

*Usage:*

```
GSDataStoreManager$getFeatureTypes(ws, ds, list = "configured")
```

*Arguments:*

ws workspace name

ds datastore name

list list type value, among "configured", "available", "available\_with\_geom", "all"

*Returns:* an object of class `list` giving items of class `GSFeatureType`

**Method** `getFeatureTypeNames()`: Get the list of available feature type names for given workspace and datastore.

*Usage:*

```
GSDataStoreManager$getFeatureTypeNames(ws, ds)
```

*Arguments:*

ws workspace name

ds datastore name

*Returns:* a vector of classcharacter

**Method** `getFeatureType()`: Get an object of class `GSFeatureType` given a workspace, datastore and feature type names.

*Usage:*

```
GSDataStoreManager$getFeatureType(ws, ds, ft)
```

*Arguments:*

ws workspace name

ds datastore name

ft feature type name

*Returns:* an object of class `GSFeatureType`

**Method** `createFeatureType()`: Creates a new featureType given a workspace, datastore names and an object of class `GSFeatureType`

*Usage:*

```
GSDataStoreManager$createFeatureType(ws, ds, featureType)
```

*Arguments:*

ws workspace name

ds datastore name

featureType feature type

*Returns:* TRUE if created, FALSE otherwise

**Method** `updateFeatureType()`: Updates a featureType given a workspace, datastore names and an object of class `GSFeatureType`

*Usage:*

```
GSDataStoreManager$updateFeatureType(ws, ds, featureType)
```

*Arguments:*

ws workspace name

ds datastore name

featureType feature type

*Returns:* TRUE if updated, FALSE otherwise



**Method deleteFeatureType():** Deletes a featureType given a workspace, datastore names, and an object of class [GSFeatureType](#). By default, the option recurse is set to FALSE, ie datastore layers are not removed.

*Usage:*

```
GSDataStoreManager$deleteFeatureType(ws, ds, ft, recurse = FALSE)
```

*Arguments:*

ws workspace name

ds datastore name

ft feature type name

recurse recurse

*Returns:* TRUE if deleted, FALSE otherwise

**Method publishLayer():** Publish a feature type/layer pair given a workspace and datastore. The name 'layer' here encompasses both [GSFeatureType](#) and [GSLayer](#) resources.

*Usage:*

```
GSDataStoreManager$publishLayer(ws, ds, featureType, layer)
```

*Arguments:*

ws workspace name

ds datastore name

featureType object of class [GSFeatureType](#)

layer object of class [GSLayer](#)

*Returns:* TRUE if published, FALSE otherwise

**Method unpublishLayer():** Unpublish a feature type/layer pair given a workspace and datastore. The name 'layer' here encompasses both [GSFeatureType](#) and [GSLayer](#) resources.

*Usage:*

```
GSDataStoreManager$unpublishLayer(ws, ds, lyr)
```

*Arguments:*

ws workspace name

ds datastore name

lyr layer name

*Returns:* TRUE if published, FALSE otherwise

**Method uploadData():** Uploads features data. The extension corresponds to the format/type of features to be uploaded among "shp", "spatialite", "h2", "gpkg". The endpoint takes a value among "file" (default), "url" or "external". The filename is the name of the coverage file to upload and set for the newly created datastore. The configure parameter can take a value among values "none" (indicates to configure only the datastore but no layer configuration) or "first" (configure both datastore and layer). The update defines the strategy for the upload: "append" (default value) for the first upload, "overwrite" in case the file should be overwritten.

*Usage:*

```

GSDataStoreManager$uploadData(
  ws,
  ds,
  endpoint = "file",
  extension,
  configure = "first",
  update = "append",
  filename,
  charset,
  contentType
)

```

*Arguments:*

ws workspace name

ds datastore name

endpoint endpoint

extension extension

configure configure strategy among values: "first" or "none"

update update strategy, among values: "append", "overwrite"

filename file name of the resource to upload

charset charset

contentType content type

*Returns:* TRUE if uploaded, FALSE otherwise

**Method** uploadShapefile(): Uploads zipped shapefile. The endpoint takes a value among "file" (default), "url" or "external". The filename is the name of the coverage file to upload and set for the newly created datastore. The configure parameter can take a value among values "none" (indicates to configure only the datastore but no layer configuration) or "first" (configure both datastore and layer). The update defines the strategy for the upload: "append" (default value) for the first upload, "overwrite" in case the file should be overwritten.

*Usage:*

```

GSDataStoreManager$uploadShapefile(
  ws,
  ds,
  endpoint = "file",
  configure = "first",
  update = "append",
  filename,
  charset = "UTF-8"
)

```

*Arguments:*

ws workspace name

ds datastore name

endpoint endpoint

configure configure strategy among values: "first" or "none"

update update strategy, among values: "append", "overwrite"

filename file name of the resource to upload  
 charset charset

*Returns:* TRUE if uploaded, FALSE otherwise

**Method** uploadProperties(): Uploads properties. The endpoint takes a value among "file" (default), "url" or "external". The filename is the name of the coverage file to upload and set for the newly created datastore. The configure parameter can take a value among values "none" (indicates to configure only the datastore but no layer configuration) or "first" (configure both datastore and layer). The update defines the strategy for the upload: "append" (default value) for the first upload, "overwrite" in case the file should be overwritten.

*Usage:*

```
GSDataStoreManager$uploadProperties(  
  ws,  
  ds,  
  endpoint = "file",  
  configure = "first",  
  update = "append",  
  filename,  
  charset = "UTF-8"  
)
```

*Arguments:*

ws workspace name  
 ds datastore name  
 endpoint endpoint  
 configure configure strategy among values: "first" or "none"  
 update update strategy, among values: "append", "overwrite"  
 filename file name of the resource to upload  
 charset charset

*Returns:* TRUE if uploaded, FALSE otherwise

**Method** uploadH2(): Uploads H2 database. The endpoint takes a value among "file" (default), "url" or "external". The filename is the name of the coverage file to upload and set for the newly created datastore. The configure parameter can take a value among values "none" (indicates to configure only the datastore but no layer configuration) or "first" (configure both datastore and layer). The update defines the strategy for the upload: "append" (default value) for the first upload, "overwrite" in case the file should be overwritten.

*Usage:*

```
GSDataStoreManager$uploadH2(  
  ws,  
  ds,  
  endpoint = "file",  
  configure = "first",  
  update = "append",  
  filename,  
  charset = "UTF-8"  
)
```

*Arguments:*

ws workspace name  
 ds datastore name  
 endpoint endpoint  
 configure configure strategy among values: "first" or "none"  
 update update strategy, among values: "append", "overwrite"  
 filename file name of the resource to upload  
 charset charset

*Returns:* TRUE if uploaded, FALSE otherwise

**Method** uploadSpatialite(): Uploads spatialite file. The endpoint takes a value among "file" (default), "url" or "external". The filename is the name of the coverage file to upload and set for the newly created datastore. The configure parameter can take a value among values "none" (indicates to configure only the datastore but no layer configuration) or "first" (configure both datastore and layer). The update defines the strategy for the upload: "append" (default value) for the first upload, "overwrite" in case the file should be overwritten.

*Usage:*

```
GSDataStoreManager$uploadSpatialite(
  ws,
  ds,
  endpoint = "file",
  configure = "first",
  update = "append",
  filename,
  charset = "UTF-8"
)
```

*Arguments:*

ws workspace name  
 ds datastore name  
 endpoint endpoint  
 configure configure strategy among values: "first" or "none"  
 update update strategy, among values: "append", "overwrite"  
 filename file name of the resource to upload  
 charset charset

*Returns:* TRUE if uploaded, FALSE otherwise

**Method** uploadAppschema(): Uploads App schema. The endpoint takes a value among "file" (default), "url" or "external". The filename is the name of the coverage file to upload and set for the newly created datastore. The configure parameter can take a value among values "none" (indicates to configure only the datastore but no layer configuration) or "first" (configure both datastore and layer). The update defines the strategy for the upload: "append" (default value) for the first upload, "overwrite" in case the file should be overwritten.

*Usage:*

```
GSDataStoreManager$uploadAppschema(
  ws,
  ds,
  endpoint = "file",
  configure = "first",
  update = "append",
  filename,
  charset = "UTF-8"
)
```

*Arguments:*

ws workspace name

ds datastore name

endpoint endpoint

configure configure strategy among values: "first" or "none"

update update strategy, among values: "append", "overwrite"

filename file name of the resource to upload

charset charset

*Returns:* TRUE if uploaded, FALSE otherwise

**Method** `uploadGeoPackage()`: Uploads `GeoPackage`. The endpoint takes a value among "file" (default), "url" or "external". The filename is the name of the coverage file to upload and set for the newly created datastore. The configure parameter can take a value among values "none" (indicates to configure only the datastore but no layer configuration) or "first" (configure both datastore and layer). The update defines the strategy for the upload: "append" (default value) for the first upload, "overwrite" in case the file should be overwritten.

*Usage:*

```
GSDataStoreManager$uploadGeoPackage(
  ws,
  ds,
  endpoint = "file",
  configure = "first",
  update = "append",
  filename,
  charset = "UTF-8"
)
```

*Arguments:*

ws workspace name

ds datastore name

endpoint endpoint

configure configure strategy among values: "first" or "none"

update update strategy, among values: "append", "overwrite"

filename file name of the resource to upload

charset charset

*Returns:* TRUE if uploaded, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSDataStoreManager$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

### Examples

```
## Not run:
  GSDataStoreManager$new("http://localhost:8080/geoserver", "admin", "geoserver")

## End(Not run)
```

---

GSDimension

*A GeoServer dimension*

---

### Description

This class models a GeoServer resource dimension.

### Format

[R6Class](#) object.

### Details

Geoserver REST API Dimension

### Value

Object of [R6Class](#) for modelling a GeoServer dimension

### Super class

[geosapi::GSRESTResource](#) -> GSDimension

### Public fields

enabled true/false

presentation dimension presentation

resolution dimension resolution

units dimension units

unitSymbol dimension unitsSymbol

**Methods****Public methods:**

- [GSDimension\\$new\(\)](#)
- [GSDimension\\$decode\(\)](#)
- [GSDimension\\$setEnabled\(\)](#)
- [GSDimension\\$setPresentation\(\)](#)
- [GSDimension\\$setUnit\(\)](#)
- [GSDimension\\$setUnitSymbol\(\)](#)
- [GSDimension\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes an object of class [GSDimension](#)

*Usage:*

```
GSDimension$new(xml = NULL)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** [decode\(\)](#): Decodes from XML

*Usage:*

```
GSDimension$decode(xml)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** [setEnabled\(\)](#): Set enabled

*Usage:*

```
GSDimension$setEnabled(enabled)
```

*Arguments:*

enabled enabled

**Method** [setPresentation\(\)](#): Set presentation

*Usage:*

```
GSDimension$setPresentation(presentation, interval = NULL)
```

*Arguments:*

presentation presentation. Possible values: "LIST", "CONTINUOUS\_INTERVAL", "DIS-  
CREATE\_INTERVAL"

interval interval

**Method** [setUnit\(\)](#): Set unit

*Usage:*

```
GSDimension$setUnit(unit)
```

*Arguments:*

unit unit

**Method** `setUnitSymbol()`: Set unit symbol

*Usage:*

```
GSDimension$setUnitSymbol(unitSymbol)
```

*Arguments:*

`unitSymbol` unit symbol

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
GSDimension$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondell@gmail.com>

### Examples

```
dim <- GSDimension$new()
```

---

GSFeatureDimension     *A GeoServer dimension*

---

### Description

This class models a GeoServer feature dimension.

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) for modelling a GeoServer feature dimension

### Super classes

```
geosapi::GSRESTResource -> geosapi::GSDimension -> GSFeatureDimension
```

### Public fields

```
attribute attribute  
endAttribute end attribute
```



## Methods

### Public methods:

- [GSFeatureDimension\\$new\(\)](#)
- [GSFeatureDimension\\$decode\(\)](#)
- [GSFeatureDimension\\$setAttribute\(\)](#)
- [GSFeatureDimension\\$setEndAttribute\(\)](#)
- [GSFeatureDimension\\$clone\(\)](#)

**Method** `new()`: Initializes an object of class [GSFeatureDimension](#)

*Usage:*

```
GSFeatureDimension$new(xml = NULL)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** `decode()`: Decodes from XML

*Usage:*

```
GSFeatureDimension$decode(xml)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** `setAttribute()`: Set attribute

*Usage:*

```
GSFeatureDimension$setAttribute(attribute)
```

*Arguments:*

attribute attribute

**Method** `setEndAttribute()`: Set end attribute

*Usage:*

```
GSFeatureDimension$setEndAttribute(endAttribute)
```

*Arguments:*

endAttribute end attribute

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
GSFeatureDimension$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

## Author(s)

Emmanuel Blondel <[emmanuel.blondel1@gmail.com](mailto:emmanuel.blondel1@gmail.com)>

## Examples

```
dim <- GSFeatureDimension$new()
```

---

GSFeatureType	<i>A GeoServer feature type</i>
---------------	---------------------------------

---

**Description**

This class models a GeoServer feature type. This class is to be used for manipulating representations of vector data with GeoServer.

**Format**

[R6Class](#) object.

**Details**

Geoserver REST API Resource

**Value**

Object of [R6Class](#) for modelling a GeoServer feature type

**Super classes**

[geosapi::GSRESTResource](#) -> [geosapi::GSResource](#) -> GSFeatureType

**Public fields**

cqlFilter CQL filter

**Methods****Public methods:**

- [GSFeatureType\\$new\(\)](#)
- [GSFeatureType\\$decode\(\)](#)
- [GSFeatureType\\$setCqlFilter\(\)](#)
- [GSFeatureType\\$setVirtualTable\(\)](#)
- [GSFeatureType\\$delVirtualTable\(\)](#)
- [GSFeatureType\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes an object of class [GSFeatureType](#)

*Usage:*

[GSFeatureType\\$new\(xml = NULL\)](#)

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** [decode\(\)](#): Decodes from XML

*Usage:*

GSFeatureType\$decode(xml)

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** setCqlFilter(): Set CQL filter

*Usage:*

GSFeatureType\$setCqlFilter(cqlFilter)

*Arguments:*

cqlFilter CQL filter

**Method** setVirtualTable(): Set virtual table

*Usage:*

GSFeatureType\$setVirtualTable(vt)

*Arguments:*

vt object of class [GSVirtualTable](#)

*Returns:* TRUE if set/added, FALSE otherwise

**Method** delVirtualTable(): Deletes virtual table

*Usage:*

GSFeatureType\$delVirtualTable()

*Arguments:*

vt object of class [GSVirtualTable](#)

*Returns:* TRUE if deleted, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

GSFeatureType\$clone(deep = FALSE)

*Arguments:*

deep Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

### Examples

```
ft <- GSFeatureType$new()
```

---

GSGeoPackageDataStore *Geoserver REST API GeoPackageDataStore*

---

### Description

Geoserver REST API GeoPackageDataStore

Geoserver REST API GeoPackageDataStore

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) for modelling a GeoServer GeoPackage dataStore

### Methods inherited from GSAbstractDBDataStore

setDatabaseType(dbtype) Sets the database type, here "geopkg"

setNamespace(namespace) Sets the datastore namespace

setHost(host) Sets the database host

setPort(port) Set the database port

setDatabase(database) Set the database name

setSchema(schema) Set the database schema

setUser(user) Set the database username

setPassword(password) Set the database password

setJndiReferenceName(jndiReferenceName) Set a JNDI reference name

setExposePrimaryKeys(exposePrimaryKeys) Set TRUE if primary keys have to be exposed to datastore, FALSE otherwise.

setMaxConnections(maxConnections) Set the maximum number of connections. Default is set to 10.

setMinConnections(minConnections) Set the minimum number of connections. Default is set to 1.

setFetchSize(fetchSize) Set the fetch size. Default is set to 10.

setConnectionTimeout(seconds) Set the connection timeout. Default is set to 20s.

setValidateConnections(validateConnections) Set TRUE if connections have to be validated, FALSE otherwise.

setPrimaryKeyMetadataTable(primaryKeyMetadataTable) Set the name of the primaryKey metadata table

setLooseBBox(looseBBox) Set loose bbox parameter.

setPreparedStatements(preparedStatements) Set prepared statements

setMaxOpenPreparedStatements(maxOpenPreparedStatements) Set maximum open prepared statements

setEstimatedExtends(estimatedExtends) Set estimatedExtend parameter

setDefaultConnectionParameters() Set default connection parameters

## Methods

new(xml, name, description, enabled, database) Instantiates a GSGeoPackageDataStore object

## Super classes

[geosapi::GSRESTResource](#) -> [geosapi::GSAbstractStore](#) -> [geosapi::GSAbstractDataStore](#)  
-> [geosapi::GSAbstractDBDataStore](#) -> GSGeoPackageDataStore

## Methods

### Public methods:

- [GSGeoPackageDataStore\\$new\(\)](#)
- [GSGeoPackageDataStore\\$clone\(\)](#)

**Method new():** initializes an GeoPackage data store

*Usage:*

```
GSGeoPackageDataStore$new(
  xml = NULL,
  name = NULL,
  description = "",
  enabled = TRUE,
  database = NULL
)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#) to create object from XML  
name coverage store name  
description coverage store description  
enabled whether the store should be enabled or not. Default is TRUE  
database database

**Method clone():** The objects of this class are cloneable with this method.

*Usage:*

```
GSGeoPackageDataStore$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

## Author(s)

Emmanuel Blondel <[emmanuel.blondel1@gmail.com](mailto:emmanuel.blondel1@gmail.com)>

**Examples**

```
ds <- GSGeoPackageDataStore$new(
  name = "ds", description = "des",
  enabled = TRUE, database = NULL
)
```

---

GSGeoTIFFCoverageStore

*Geoserver REST API GeoTIFF CoverageStore*


---

**Description**

Geoserver REST API GeoTIFF CoverageStore

Geoserver REST API GeoTIFF CoverageStore

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a GeoServer GeoTIFF CoverageStore

**Super classes**

[geosapi::GSRESTResource](#) -> [geosapi::GSAbstractStore](#) -> [geosapi::GSAbstractCoverageStore](#)  
-> GSGeoTIFFCoverageStore

**Public fields**

url url

**Methods****Public methods:**

- [GSGeoTIFFCoverageStore\\$new\(\)](#)
- [GSGeoTIFFCoverageStore\\$clone\(\)](#)

**Method new():** Initializes an GeoTIFF coverage store

*Usage:*

```
GSGeoTIFFCoverageStore$new(  
  xml = NULL,  
  name = NULL,  
  description = "",  
  enabled = TRUE,  
  url = NULL  
)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#) to create object from XML  
name coverage store name  
description coverage store description  
enabled whether the store should be enabled or not. Default is TRUE  
url url

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSGeoTIFFCoverageStore$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

---

GSImageMosaicCoverageStore

*Geoserver REST API ImageMosaicCoverageStore*

---

**Description**

Geoserver REST API ImageMosaicCoverageStore

Geoserver REST API ImageMosaicCoverageStore

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a GeoServer ImageMosaic CoverageStore

**Super classes**

[geosapi::GSRESTResource](#) -> [geosapi::GSAbstractStore](#) -> [geosapi::GSAbstractCoverageStore](#)  
-> [GSImageMosaicCoverageStore](#)

**Public fields**

url url

**Methods****Public methods:**

- [GSImageMosaicCoverageStore\\$new\(\)](#)
- [GSImageMosaicCoverageStore\\$clone\(\)](#)

**Method** new(): Initializes an Image Mosaic coverage store

*Usage:*

```
GSImageMosaicCoverageStore$new(  
    xml = NULL,  
    name = NULL,  
    description = "",  
    enabled = TRUE,  
    url = NULL  
)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#) to create object from XML  
name coverage store name  
description coverage store description  
enabled whether the store should be enabled or not. Default is TRUE  
url url

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSImageMosaicCoverageStore$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondell@gmail.com>

---

GSInputCoverageBand    *Geoserver REST API GSInputCoverageBand*

---

**Description**

Geoserver REST API GSInputCoverageBand

Geoserver REST API GSInputCoverageBand



**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a GeoServer input coverage band

**Methods**

`new(xml, coverageName, band)` This method is used to instantiate a `GSInputCoverageBand`

`decode(xml)` This method is used to decode a `GSInputCoverageBand` from XML

`setCoverageName(coverageName)` Sets the coverage name

`setBand(band)` Sets the coverage band

**Super class**

[geosapi : : GSRESTResource](#) -> `GSInputCoverageBand`

**Public fields**

`coverageName` coverage name

`band` band

**Methods****Public methods:**

- [GSInputCoverageBand\\$new\(\)](#)
- [GSInputCoverageBand\\$decode\(\)](#)
- [GSInputCoverageBand\\$setCoverageName\(\)](#)
- [GSInputCoverageBand\\$setBand\(\)](#)
- [GSInputCoverageBand\\$clone\(\)](#)

**Method** `new()`: Initializes an object of class [GSInputCoverageBand](#)

*Usage:*

`GSInputCoverageBand$new(xml = NULL, coverageName = NULL, band = NULL)`

*Arguments:*

`xml` object of class [XMLInternalNode-class](#)

`coverageName` coverage name

`band` band name

**Method** `decode()`: Decodes from XML

*Usage:*

`GSInputCoverageBand$decode(xml)`

*Arguments:*

`xml` object of class [XMLInternalNode-class](#)

**Method** `setCoverageName()`: Set coverage name

*Usage:*

```
GSInputCoverageBand$setCoverageName(coverageName)
```

*Arguments:*

coverageName coverage name

**Method** `setBand()`: Set band

*Usage:*

```
GSInputCoverageBand$setBand(band)
```

*Arguments:*

band band

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
GSInputCoverageBand$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

#### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

#### Examples

```
GSInputCoverageBand$new()
```

---

GSLayer

*A GeoServer layer resource*

---

#### Description

This class models a GeoServer layer. This class is to be used for published resource (feature type or coverage).

This class models a GeoServer style.

#### Format

[R6Class](#) object.

[R6Class](#) object.

#### Details

Geoserver REST API Resource

Geoserver REST API Style

**Value**

Object of [R6Class](#) for modelling a GeoServer layer

Object of [R6Class](#) for modelling a GeoServer style

**Super class**

[geosapi::GSRESTResource](#) -> GSLayer

**Public fields**

full full

name name

path path

defaultStyle default style

styles styles

enabled enabled

queryable queryable

advertised advertised

**Methods****Public methods:**

- [GSLayer\\$new\(\)](#)
- [GSLayer\\$decode\(\)](#)
- [GSLayer\\$setName\(\)](#)
- [GSLayer\\$setPath\(\)](#)
- [GSLayer\\$setEnabled\(\)](#)
- [GSLayer\\$setQueryable\(\)](#)
- [GSLayer\\$setAdvertised\(\)](#)
- [GSLayer\\$setDefaultStyle\(\)](#)
- [GSLayer\\$setStyles\(\)](#)
- [GSLayer\\$addStyle\(\)](#)
- [GSLayer\\$delStyle\(\)](#)
- [GSLayer\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes an object of class [GSLayer](#)

*Usage:*

[GSLayer\\$new\(xml = NULL\)](#)

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** [decode\(\)](#): Decodes from XML

*Usage:*

GSLayer\$decode(xml)

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method setName():** Set name

*Usage:*

GSLayer\$setName(name)

*Arguments:*

name name

**Method setPath():** Set path

*Usage:*

GSLayer\$setPath(path)

*Arguments:*

path path

**Method setEnabled():** Set enabled

*Usage:*

GSLayer\$setEnabled(enabled)

*Arguments:*

enabled enabled

**Method setQueryable():** Set queryable

*Usage:*

GSLayer\$setQueryable(queryable)

*Arguments:*

queryable queryable

**Method setAdvertised():** Set advertised

*Usage:*

GSLayer\$setAdvertised(advertised)

*Arguments:*

advertised advertised

**Method setDefaultStyle():** Set default style

*Usage:*

GSLayer\$setDefaultStyle(style)

*Arguments:*

style object o class [GSSStyle](#) or character

**Method setStyles():** Set styles

*Usage:*

GSLayer\$setStyles(styles)

*Arguments:*

styles styles

**Method addStyle():** Adds style

*Usage:*

GSLayer\$addStyle(style)

*Arguments:*

style style, object o class [GSStyle](#) or character

*Returns:* TRUE if added, FALSE otherwise

**Method delStyle():** Deletes style

*Usage:*

GSLayer\$delStyle(style)

*Arguments:*

style style, object o class [GSStyle](#) or character

*Returns:* TRUE if deleted, FALSE otherwise

**Method clone():** The objects of this class are cloneable with this method.

*Usage:*

GSLayer\$clone(deep = FALSE)

*Arguments:*

deep Whether to make a deep clone.

### Super class

[geosapi::GSRESTResource](#) -> [GSStyle](#)

### Public fields

full full

name name

filename filename

### Methods

#### Public methods:

- [GSStyle\\$new\(\)](#)
- [GSStyle\\$decode\(\)](#)
- [GSStyle\\$setName\(\)](#)
- [GSStyle\\$setFilename\(\)](#)
- [GSStyle\\$clone\(\)](#)

**Method new():** Initializes a [GSStyle](#)

*Usage:*

```
GSStyle$new(xml = NULL, name = NULL, filename = NULL)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#)  
name name  
filename filename

**Method** decode(): Decodes from XML*Usage:*

```
GSStyle$decode(xml)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#)

**Method** setName(): set name*Usage:*

```
GSStyle$setName(name)
```

*Arguments:*

name name

**Method** setFilename(): Set filename*Usage:*

```
GSStyle$setFilename(filename)
```

*Arguments:*

filename filename

**Method** clone(): The objects of this class are cloneable with this method.*Usage:*

```
GSStyle$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondell@gmail.com>

**Examples**

```
lyr <- GSLayer$new()
```

```
lyr <- GSStyle$new()
```

---

GSLayerGroup	<i>A GeoServer layergroup resource</i>
--------------	--

---

**Description**

This class models a GeoServer layer group. This class is to be used for clustering layers into a group.

**Format**

[R6Class](#) object.

**Details**

Geoserver REST API LayerGroup

**Value**

Object of [R6Class](#) for modelling a GeoServer layergroup

**Super class**

[geosapi : : GSRESTResource](#) -> GSLayerGroup

**Public fields**

full full  
name name  
mode mode  
title title  
abstractTxt abstract  
workspace workspace  
publishables publishables  
styles styles  
metadataLinks metadata links  
bounds bounds

**Methods****Public methods:**

- [GSLayerGroup\\$new\(\)](#)
- [GSLayerGroup\\$decode\(\)](#)
- [GSLayerGroup\\$setName\(\)](#)
- [GSLayerGroup\\$setMode\(\)](#)

- `GSLayerGroup$setTitle()`
- `GSLayerGroup$setAbstract()`
- `GSLayerGroup$setWorkspace()`
- `GSLayerGroup$addLayer()`
- `GSLayerGroup$addLayerGroup()`
- `GSLayerGroup$addPublishable()`
- `GSLayerGroup$setStyles()`
- `GSLayerGroup$addStyle()`
- `GSLayerGroup$setMetadataLinks()`
- `GSLayerGroup$addMetadataLink()`
- `GSLayerGroup$deleteMetadataLink()`
- `GSLayerGroup$setBounds()`
- `GSLayerGroup$clone()`

**Method** `new()`: Initializes an object of class `GSLayerGroup`

*Usage:*

```
GSLayerGroup$new(xml = NULL)
```

*Arguments:*

xml object of class `XMLInternalNode-class`

**Method** `decode()`: Decodes from XML

*Usage:*

```
GSLayerGroup$decode(xml)
```

*Arguments:*

xml object of class `XMLInternalNode-class`

**Method** `setName()`: Set name

*Usage:*

```
GSLayerGroup$setName(name)
```

*Arguments:*

name name

**Method** `setMode()`: Set mode

*Usage:*

```
GSLayerGroup$setMode(mode)
```

*Arguments:*

mode a mode value among "SINGLE", "NAMED", "CONTAINER", "EO"

**Method** `setTitle()`: Set title

*Usage:*

```
GSLayerGroup$setTitle(title)
```

*Arguments:*



title title

**Method** setAbstract(): Set abstract

*Usage:*

GSLayerGroup\$setAbstract(abstract)

*Arguments:*

abstract abstract

**Method** setWorkspace(): Set workspace

*Usage:*

GSLayerGroup\$setWorkspace(workspace)

*Arguments:*

workspace workspace name, object of class [GSWorkspace](#) or character

**Method** addLayer(): Adds layer

*Usage:*

GSLayerGroup\$addLayer(layer, style)

*Arguments:*

layer layer name

style style name

**Method** addLayerGroup(): Adds layer group

*Usage:*

GSLayerGroup\$addLayerGroup(layerGroup)

*Arguments:*

layerGroup layer group

**Method** addPublishable(): Adds publishable

*Usage:*

GSLayerGroup\$addPublishable(publishable)

*Arguments:*

publishable publishable

*Returns:* TRUE if added, FALSE otherwise

**Method** setStyles(): Set styles

*Usage:*

GSLayerGroup\$setStyles(styles)

*Arguments:*

styles styles

**Method** addStyle(): Adds a style

*Usage:*

GSLayerGroup\$addStyle(style)

*Arguments:*

style style

*Returns:* TRUE if added, FALSE otherwise

**Method** setMetadataLinks(): Set metadata links

*Usage:*

GSLayerGroup\$setMetadataLinks(metadataLinks)

*Arguments:*

metadataLinks metadata links

**Method** addMetadataLink(): Adds metadata link

*Usage:*

GSLayerGroup\$addMetadataLink(metadataLink)

*Arguments:*

metadataLink object of class [GSMetadataLink](#)

*Returns:* TRUE if added, FALSE otherwise

**Method** deleteMetadataLink(): Deletes metadata link

*Usage:*

GSLayerGroup\$deleteMetadataLink(metadataLink)

*Arguments:*

metadataLink object of class [GSMetadataLink](#)

*Returns:* TRUE if deleted, FALSE otherwise

**Method** setBounds(): Set bounds

*Usage:*

GSLayerGroup\$setBounds(minx, miny, maxx, maxy, bbox = NULL, crs)

*Arguments:*

minx minx

miny miny

maxx maxx

maxy maxy

bbox bbox

crs crs

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

GSLayerGroup\$clone(deep = FALSE)

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

**Examples**

```
lyr <- GSLayerGroup$new()
```

---

GSLayerManager

*Geoserver REST API Layer Manager*

---

**Description**

Geoserver REST API Layer Manager

Geoserver REST API Layer Manager

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) with methods for managing GeoServer Layers as results of published feature types or coverages

**Super class**

[geosapi::GManager](#) -> GSLayerManager

**Methods****Public methods:**

- [GSLayerManager\\$getLayers\(\)](#)
- [GSLayerManager\\$getLayerNames\(\)](#)
- [GSLayerManager\\$getLayer\(\)](#)
- [GSLayerManager\\$createLayer\(\)](#)
- [GSLayerManager\\$updateLayer\(\)](#)
- [GSLayerManager\\$deleteLayer\(\)](#)
- [GSLayerManager\\$getLayerGroups\(\)](#)
- [GSLayerManager\\$getLayerGroupNames\(\)](#)
- [GSLayerManager\\$getLayerGroup\(\)](#)
- [GSLayerManager\\$createLayerGroup\(\)](#)
- [GSLayerManager\\$updateLayerGroup\(\)](#)
- [GSLayerManager\\$deleteLayerGroup\(\)](#)
- [GSLayerManager\\$clone\(\)](#)

**Method** `getLayers()`: Get the list of layers.

*Usage:*

`GSLayerManager$getLayers()`

*Returns:* an object of class `list` giving items of class [GSLayer](#)

**Method** `getLayerNames()`: Get the list of layer names.

*Usage:*

`GSLayerManager$getLayerNames()`

*Returns:* a vector of class `character`

**Method** `getLayer()`: Get layer by name

*Usage:*

`GSLayerManager$getLayer(lyr)`

*Arguments:*

`lyr` layer name

*Returns:* an object of class [GSLayer](#)

**Method** `createLayer()`: Creates a new layer given an object of class [GSLayer](#)

*Usage:*

`GSLayerManager$createLayer(layer)`

*Arguments:*

`layer` object of class [GSLayer](#)

*Returns:* `TRUE` if created, `FALSE` otherwise

**Method** `updateLayer()`: Updates a layer given an object of class [GSLayer](#)

*Usage:*

`GSLayerManager$updateLayer(layer)`

*Arguments:*

`layer` object of class [GSLayer](#)

*Returns:* `TRUE` if updated, `FALSE` otherwise

**Method** `deleteLayer()`: Deletes layer given an object of class [GSLayer](#)

*Usage:*

`GSLayerManager$deleteLayer(lyr)`

*Arguments:*

`lyr` layer name

*Returns:* `TRUE` if deleted, `FALSE` otherwise

**Method** `getLayerGroups()`: Get layer groups

*Usage:*

`GSLayerManager$getLayerGroups(ws = NULL)`

*Arguments:*

ws workspace name. Optional

*Returns:* a list of objects of class [GSLayerGroup](#)

**Method** getLayerGroupNames(): Get layer group names

*Usage:*

```
GSLayerManager$getLayerGroupNames(ws = NULL)
```

*Arguments:*

ws workspace name

*Returns:* a list of layer group names, as vector of class character

**Method** getLayerGroup(): Get layer group

*Usage:*

```
GSLayerManager$getLayerGroup(lyr, ws = NULL)
```

*Arguments:*

lyr lyr

ws workspace name

*Returns:* an object of class [GSLayerGroup](#)

**Method** createLayerGroup(): Creates a layer group

*Usage:*

```
GSLayerManager$createLayerGroup(layerGroup, ws = NULL)
```

*Arguments:*

layerGroup object of class [GSLayerGroup](#)

ws workspace name. Optional

*Returns:* TRUE if created, FALSE otherwise

**Method** updateLayerGroup(): Updates a layer group

*Usage:*

```
GSLayerManager$updateLayerGroup(layerGroup, ws = NULL)
```

*Arguments:*

layerGroup object of class [GSLayerGroup](#)

ws workspace name. Optional

*Returns:* TRUE if updated, FALSE otherwise

**Method** deleteLayerGroup(): Deletes a layer group

*Usage:*

```
GSLayerManager$deleteLayerGroup(lyr, ws = NULL)
```

*Arguments:*

lyr layer group name

ws workspace name. Optional

*Returns:* TRUE if deleted, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSLayerManager$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

### Examples

```
## Not run:
  GSLayerManager$new("http://localhost:8080/geoserver", "admin", "geoserver")

## End(Not run)
```

---

GManager

*Geoserver REST API Manager*

---

### Description

Geoserver REST API Manager

Geoserver REST API Manager

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) with methods for communication with the REST API of a GeoServer instance.

### Methods

new(url, user, pwd, logger, keyring\_backend)

logger(type, text) Basic logger to report geosapi logs. Used internally

INFO(text) Logger to report information. Used internally

WARN(text) Logger to report warnings. Used internally

ERROR(text) Logger to report errors. Used internally

getUrl() Get the authentication URL

connect() This methods attempts a connection to GeoServer REST API. User internally during initialization of GManager.

reload() Reloads the GeoServer catalog.  
getSystemStatus() Get system status  
getClassName() Retrieves the name of the class instance  
getWorkspaceManager() Retrieves an instance of workspace manager  
getNamespaceManager() Retrieves an instance of namespace manager  
getDataStoreManager() Retrieves an instance of datastore manager

### Public fields

verbose.info if geosapi logs have to be printed  
verbose.debug if curl logs have to be printed  
loggerType the type of logger  
url the Base url of GeoServer  
version the version of Geoserver. Handled as GSVersion object

### Methods

#### Public methods:

- [GManager\\$logger\(\)](#)
- [GManager\\$INFO\(\)](#)
- [GManager\\$WARN\(\)](#)
- [GManager\\$ERROR\(\)](#)
- [GManager\\$new\(\)](#)
- [GManager\\$getUrl\(\)](#)
- [GManager\\$connect\(\)](#)
- [GManager\\$reload\(\)](#)
- [GManager\\$getSystemStatus\(\)](#)
- [GManager\\$monitor\(\)](#)
- [GManager\\$getClassName\(\)](#)
- [GManager\\$getWorkspaceManager\(\)](#)
- [GManager\\$getNamespaceManager\(\)](#)
- [GManager\\$getDataStoreManager\(\)](#)
- [GManager\\$getCoverageStoreManager\(\)](#)
- [GManager\\$getServiceManager\(\)](#)
- [GManager\\$getStyleManager\(\)](#)
- [GManager\\$clone\(\)](#)

**Method** logger(): Prints a log message

*Usage:*

GManager\$logger(type, text)

*Arguments:*

type type of log, "INFO", "WARN", "ERROR"

text text

**Method INFO():** Prints an INFO log message

*Usage:*

GSMManager\$INFO(text)

*Arguments:*

text text

**Method WARN():** Prints an WARN log message

*Usage:*

GSMManager\$WARN(text)

*Arguments:*

text text

**Method ERROR():** Prints an ERROR log message

*Usage:*

GSMManager\$ERROR(text)

*Arguments:*

text text

**Method new():** This method is used to instantiate a GSMManager with the url of the GeoServer and credentials to authenticate (user/pwd).

By default, the logger argument will be set to NULL (no logger). This argument accepts two possible values: INFO: to print only geosapi logs, DEBUG: to print geosapi and CURL logs.

The keyring\_backend can be set to use a different backend for storing the Geoserver user password with **keyring** (Default value is 'env').

*Usage:*

GSMManager\$new(url, user, pwd, logger = NULL, keyring\_backend = "env")

*Arguments:*

url url

user user

pwd pwd

logger logger

keyring\_backend keyring backend. Default is 'env'

**Method getUrl():** Get URL

*Usage:*

GSMManager\$getUrl()

*Returns:* the Geoserver URL

**Method connect():** Connects to geoServer

*Usage:*

GSMManager\$connect()



*Returns:* TRUE if connected, raises an error otherwise

**Method** reload(): Reloads the GeoServer catalog

*Usage:*

GManager\$reload()

*Returns:* TRUE if reloaded, FALSE otherwise

**Method** getSystemStatus(): Get system status

*Usage:*

GManager\$getSystemStatus()

*Returns:* an object of class data.frame given the date time and metrics value

**Method** monitor(): Monitors the Geoserver by launching a small shiny monitoring application

*Usage:*

GManager\$monitor(file = NULL, append = FALSE, sleep = 1)

*Arguments:*

file file where to store monitoring results

append whether to append results to existing files

sleep sleeping interval to trigger a system status call

**Method** getClassName(): Get class name

*Usage:*

GManager\$getClassName()

*Returns:* the self class name, as character

**Method** getWorkspaceManager(): Get Workspace manager

*Usage:*

GManager\$getWorkspaceManager()

*Returns:* an object of class [GSWorkspaceManager](#)

**Method** getNamespaceManager(): Get Namespace manager

*Usage:*

GManager\$getNamespaceManager()

*Returns:* an object of class [GSNamespaceManager](#)

**Method** getDataStoreManager(): Get Datastore manager

*Usage:*

GManager\$getDataStoreManager()

*Returns:* an object of class [GSDataStoreManager](#)

**Method** getCoverageStoreManager(): Get Coverage store manager

*Usage:*

GManager\$getCoverageStoreManager()

*Returns:* an object of class [GSCoverageStoreManager](#)

**Method** `getServiceManager():` Get service manager

*Usage:*

`GManager$getServiceManager()`

*Returns:* an object of class [GSServiceManager](#)

**Method** `getStyleManager():` Get style manager

*Usage:*

`GManager$getStyleManager()`

*Returns:* an object of class [GSStyleManager](#)

**Method** `clone():` The objects of this class are cloneable with this method.

*Usage:*

`GManager$clone(deep = FALSE)`

*Arguments:*

`deep` Whether to make a deep clone.

#### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

#### Examples

```
## Not run:
  GManager$new("http://localhost:8080/geoserver", "admin", "geoserver")

## End(Not run)
```

---

GSMetadataLink

*A GeoServer resource metadataLink*

---

#### Description

This class models a GeoServer resource metadataLink made of a type (free text e.g. text/xml, text/html), a metadataType (Possible values are ISO19115:2003, FGDC, TC211, 19139, other), and a content: an URL that gives the metadataLink

#### Format

[R6Class](#) object.

#### Details

Geoserver REST API Metadatalink

**Value**

Object of [R6Class](#) for modelling a GeoServer resource metadataLink

**Super class**

[geosapi : GSRESTResource](#) -> GSMetadataLink

**Public fields**

type type  
metadataType metadata type  
content content

**Methods****Public methods:**

- [GSMetadataLink\\$new\(\)](#)
- [GSMetadataLink\\$decode\(\)](#)
- [GSMetadataLink\\$setType\(\)](#)
- [GSMetadataLink\\$setMetadataType\(\)](#)
- [GSMetadataLink\\$setContent\(\)](#)
- [GSMetadataLink\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes an object of class [GSMetadataLink](#)

*Usage:*

[GSMetadataLink\\$new](#)(xml = NULL, type, metadataType, content)

*Arguments:*

xml object of class [XMLInternalNode-class](#)  
type type  
metadataType metadata type  
content content

**Method** [decode\(\)](#): Decodes from XML

*Usage:*

[GSMetadataLink\\$decode](#)(xml)

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** [setType\(\)](#): Set type type

*Usage:*

[GSMetadataLink\\$setType](#)(type)

*Arguments:*

type type

**Method** setMetadataType(): Set metadata type

*Usage:*

```
GSMetadataLink$setMetadataType(metadataType)
```

*Arguments:*

metadataType metadata type. Supported values: "ISO19115:2003", "FGDC", "TC211", "19139", "other"

**Method** setContent(): Set content

*Usage:*

```
GSMetadataLink$setContent(content)
```

*Arguments:*

content content

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSMetadataLink$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

#### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

---

GSNamespace

*Geoserver REST API Namespace*

---

#### Description

Geoserver REST API Namespace

Geoserver REST API Namespace

#### Format

[R6Class](#) object.

#### Value

Object of [R6Class](#) for modelling a GeoServer namespace

#### Super class

[geosapi::GSRESTResource](#) -> GSNamespace

**Public fields**

name namespace name  
prefix namespace prefix  
uri namespace URI  
full completeness of the namespace description

**Methods****Public methods:**

- [GSNamespace\\$new\(\)](#)
- [GSNamespace\\$decode\(\)](#)
- [GSNamespace\\$clone\(\)](#)

**Method** `new()`: Initializes an object of class [GSNamespace](#)

*Usage:*

```
GSNamespace$new(xml = NULL, prefix, uri)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)  
prefix prefix  
uri uri

**Method** `decode()`: Decodes from XML

*Usage:*

```
GSNamespace$decode(xml)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
GSNamespace$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondell@gmail.com>

**Examples**

```
GSNamespace$new(prefix = "prefix", uri = "http://prefix")
```

---

GSNamespaceManager      *Geoserver REST API Namespace Manager*

---

### Description

Geoserver REST API Namespace Manager

Geoserver REST API Namespace Manager

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) with methods for managing the namespaces of a GeoServer instance.

### Super class

[geosapi::GSManager](#) -> GSNamespaceManager

### Methods

#### Public methods:

- [GSNamespaceManager\\$getNamespaces\(\)](#)
- [GSNamespaceManager\\$getNamespaceNames\(\)](#)
- [GSNamespaceManager\\$getNamespace\(\)](#)
- [GSNamespaceManager\\$createNamespace\(\)](#)
- [GSNamespaceManager\\$updateNamespace\(\)](#)
- [GSNamespaceManager\\$deleteNamespace\(\)](#)
- [GSNamespaceManager\\$clone\(\)](#)

**Method** [getNamespaces\(\)](#): Get the list of available namespace. Re

*Usage:*

[GSNamespaceManager\\$getNamespaces\(\)](#)

*Returns:* an object of class `list` containing items of class [GSNamespace](#)

**Method** [getNamespaceNames\(\)](#): Get the list of available namespace names.

*Usage:*

[GSNamespaceManager\\$getNamespaceNames\(\)](#)

*Returns:* a vector of class `character`

**Method** [getNamespace\(\)](#): Get a [GSNamespace](#) object given a namespace name.

*Usage:*

[GSNamespaceManager\\$getNamespace\(ns\)](#)

*Arguments:*

ns namespace

*Returns:* an object of class [GSNamespace](#)

**Method** createNamespace(): Creates a GeoServer namespace given a prefix, and an optional URI.

*Usage:*

```
GSNamespaceManager#createNamespace(prefix, uri)
```

*Arguments:*

prefix prefix

uri uri

*Returns:* TRUE if the namespace has been successfully created, FALSE otherwise

**Method** updateNamespace(): Updates a GeoServer namespace given a prefix, and an optional URI.

*Usage:*

```
GSNamespaceManager$updateNamespace(prefix, uri)
```

*Arguments:*

prefix prefix

uri uri

*Returns:* TRUE if the namespace has been successfully updated, FALSE otherwise

**Method** deleteNamespace(): Deletes a GeoServer namespace given a name.

*Usage:*

```
GSNamespaceManager$deleteNamespace(name, recurse = FALSE)
```

*Arguments:*

name name

recurse recurse

*Returns:* TRUE if the namespace has been successfully deleted, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSNamespaceManager$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

### Examples

```
## Not run:  
  GSNamespaceManager$new("http://localhost:8080/geoserver", "admin", "geoserver")  
  
## End(Not run)
```

---

GSOracleNGDataStore    *Geoserver REST API OracleNGDataStore*

---

### Description

Geoserver REST API OracleNGDataStore

Geoserver REST API OracleNGDataStore

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) for modelling a GeoServer OracleNG dataStore

### Methods inherited from GSAbstractDBDataStore

`setDatabaseType(dbtype)` Sets the database type, here "OracleNG"

`setNamespace(namespace)` Sets the datastore namespace

`setHost(host)` Sets the database host

`setPort(port)` Set the database port

`setDatabase(database)` Set the database name

`setSchema(schema)` Set the database schema

`setUser(user)` Set the database username

`setPassword(password)` Set the database password

`setJndiReferenceName(jndiReferenceName)` Set a JNDI reference name

`setExposePrimaryKeys(exposePrimaryKeys)` Set TRUE if primary keys have to be exposed to datastore, FALSE otherwise.

`setMaxConnections(maxConnections)` Set the maximum number of connections. Default is set to 10.

`setMinConnections(minConnections)` Set the minimum number of connections. Default is set to 1.

`setFetchSize(fetchSize)` Set the fetch size. Default is set to 10.

`setConnectionTimeout(seconds)` Set the connection timeout. Default is set to 20s.

`setValidateConnections(validateConnections)` Set TRUE if connections have to be validated, FALSE otherwise.

`setPrimaryKeyMetadataTable(primaryKeyMetadataTable)` Set the name of the primaryKey metadata table

`setLooseBBox(looseBBox)` Set loose bbox parameter.

`setPreparedStatements(preparedStatements)` Set prepared statements



setMaxOpenPreparedStatements(maxOpenPreparedStatements) Set maximum open prepared statements

setEstimatedExtends(estimatedExtends) Set estimatedExtend parameter

setDefaultConnectionParameters() Set default connection parameters

## Methods

new(xml, name, description, enabled) Instantiates a GSOracleNGDataStore object

## Super classes

[geosapi::GSRESTResource](#) -> [geosapi::GSAbstractStore](#) -> [geosapi::GSAbstractDataStore](#)  
-> [geosapi::GSAbstractDBDataStore](#) -> GSOracleNGDataStore

## Methods

### Public methods:

- [GSOracleNGDataStore\\$new\(\)](#)
- [GSOracleNGDataStore\\$clone\(\)](#)

**Method new():** initializes an Oracle NG data store

*Usage:*

```
GSOracleNGDataStore$new(  
  xml = NULL,  
  name = NULL,  
  description = "",  
  enabled = TRUE  
)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#) to create object from XML  
name coverage store name  
description coverage store description  
enabled whether the store should be enabled or not. Default is TRUE

**Method clone():** The objects of this class are cloneable with this method.

*Usage:*

```
GSOracleNGDataStore$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

## Author(s)

Emmanuel Blondel <[emmanuel.blondel1@gmail.com](mailto:emmanuel.blondel1@gmail.com)>

## Examples

```
GSOracleNGDataStore$new(name = "ds", description = "des", enabled = TRUE)
```

---

GSPostGISDataStore      *Geoserver REST API PostGISDataStore*

---

### Description

Geoserver REST API PostGISDataStore  
 Geoserver REST API PostGISDataStore

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) for modelling a GeoServer PostGIS dataStore

### Super classes

[geosapi::GSRESTResource](#) -> [geosapi::GSAbstractStore](#) -> [geosapi::GSAbstractDataStore](#)  
 -> [geosapi::GSAbstractDBDataStore](#) -> GSPostGISDataStore

### Methods

#### Public methods:

- [GSPostGISDataStore\\$new\(\)](#)
- [GSPostGISDataStore\\$clone\(\)](#)

**Method** `new()`: initializes a PostGIS data store

*Usage:*

```
GSPostGISDataStore$new(
  xml = NULL,
  name = NULL,
  description = "",
  enabled = TRUE
)
```

*Arguments:*

`xml` an object of class [XMLInternalNode-class](#) to create object from XML  
`name` coverage store name  
`description` coverage store description  
`enabled` whether the store should be enabled or not. Default is TRUE

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
GSPostGISDataStore$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

**Examples**

```
GSPostGISDataStore$new(name = "ds", description = "des", enabled = TRUE)
```

---

GSPublishable

*A GeoServer layer group publishable*

---

**Description**

This class models a GeoServer layer. This class is to be used internally by **geosapi** for configuring layers or layer groups within an object of class GSLayerGroup

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a GeoServer layer group publishable

**Super class**

[geosapi::GSRESTResource](#) -> GSPublishable

**Public fields**

full full

name name

attr\_type type of attribute

**Methods****Public methods:**

- [GSPublishable\\$new\(\)](#)
- [GSPublishable\\$decode\(\)](#)
- [GSPublishable\\$setName\(\)](#)
- [GSPublishable\\$setType\(\)](#)
- [GSPublishable\\$clone\(\)](#)

**Method** `new()`: Initializes a [GSPublishable](#)

*Usage:*

```
GSPublishable$new(xml = NULL, name, type)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#)

name name

type type

**Method** decode(): Decodes from XML*Usage:*

```
GSPublishable$decode(xml)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#)

**Method** setName(): set name*Usage:*

```
GSPublishable$setName(name)
```

*Arguments:*

name name

**Method** setType(): Set type*Usage:*

```
GSPublishable$setType(type)
```

*Arguments:*

type type

**Method** clone(): The objects of this class are cloneable with this method.*Usage:*

```
GSPublishable$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

**Examples**

```
publishable <- GSPublishable$new(name = "name", type = "layer")
```

**Description**

This class models an abstract GeoServer resource. This class is used internally for modelling instances of class GSFeatureType or GSCoverage

**Format**

[R6Class](#) object.

**Details**

Geoserver REST API Resource

**Value**

Object of [R6Class](#) for modelling a GeoServer resource

**Methods**

`new(rootName, xml)` This method is used to instantiate a GSResource

`decode(xml)` This method is used to decode a GSResource from XML

`encode()` This method is used to encode a GSResource to XML. Inherited from the generic GSRESTResource encoder

`setEnabled(enabled)` Sets if the resource is enabled or not in GeoServer

`setName(name)` Sets the resource name

`setNativeName(nativeName)` Sets the resource native name

`setTitle(title)` Sets the resource title

`setDescription(description)` Sets the resource description

`setAbstract(abstract)` Sets the resource abstract

`setKeywords(keywords)` Sets a list of keywords

`addKeyword(keyword)` Sets a keyword. Returns TRUE if set, FALSE otherwise

`delKeyword(keyword)` Deletes a keyword. Returns TRUE if deleted, FALSE otherwise

`setMetadataLinks(metadataLinks)` Sets a list of GSMetadataLinks

`addMetadataLink(metadataLink)` Adds a metadataLink

`delMetadataLink(metadataLink)` Deletes a metadataLink

`setNativeCRS(nativeCRS)` Sets the resource nativeCRS

`setSrs(srs)` Sets the resource srs

`setNativeBoundingBox(minx, miny, maxx, maxy, bbox, crs)` Sets the resource nativeBoundingBox. Either from coordinates or from a bbox object (matrix).

`setLatLonBoundingBox(minx, miny, maxx, maxy, bbox, crs)` Sets the resource latLonBoundingBox. Either from coordinates or from a bbox object (matrix).

`setProjectionPolicy(policy)` Sets the resource projection policy

**Super class**

[geosapi::GSRESTResource](#) -> GSResource

**Public fields**

full full  
name resource name  
nativeName resource native name  
title resource title  
description resource description  
abstract resource abstract  
keywords resource keywords  
metadataLinks resource metadata links  
nativeCRS resource native CRS  
srs resource srs  
nativeBoundingBox resource lat/lon native bounding box  
latLonBoundingBox resource lat/lon bounding box  
projectionPolicy resource projection policy  
enabled enabled  
metadata metadata

**Methods****Public methods:**

- [GSResource\\$new\(\)](#)
- [GSResource\\$decode\(\)](#)
- [GSResource\\$setEnabled\(\)](#)
- [GSResource\\$setName\(\)](#)
- [GSResource\\$setNativeName\(\)](#)
- [GSResource\\$setTitle\(\)](#)
- [GSResource\\$setDescription\(\)](#)
- [GSResource\\$setAbstract\(\)](#)
- [GSResource\\$setKeywords\(\)](#)
- [GSResource\\$addKeyword\(\)](#)
- [GSResource\\$delKeyword\(\)](#)
- [GSResource\\$setMetadataLinks\(\)](#)
- [GSResource\\$addMetadataLink\(\)](#)
- [GSResource\\$deleteMetadataLink\(\)](#)
- [GSResource\\$setProjectionPolicy\(\)](#)
- [GSResource\\$setSrs\(\)](#)
- [GSResource\\$setNativeCRS\(\)](#)

- [GSResource\\$setLatLonBoundingBox\(\)](#)
- [GSResource\\$setNativeBoundingBox\(\)](#)
- [GSResource\\$setMetadata\(\)](#)
- [GSResource\\$delMetadata\(\)](#)
- [GSResource\\$setMetadataDimension\(\)](#)
- [GSResource\\$clone\(\)](#)

**Method new():** Initializes a [GSResource](#)

*Usage:*

```
GSResource$new(rootName = NULL, xml = NULL)
```

*Arguments:*

rootName root name

xml object of class [XMLInternalNode-class](#)

**Method decode():** Decodes from XML

*Usage:*

```
GSResource$decode(xml)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method setEnabled():** Set enabled

*Usage:*

```
GSResource$setEnabled(enabled)
```

*Arguments:*

enabled enabled

**Method setName():** Set name

*Usage:*

```
GSResource$setName(name)
```

*Arguments:*

name name

**Method setNativeName():** Set native name

*Usage:*

```
GSResource$setNativeName(nativeName)
```

*Arguments:*

nativeName native name

**Method setTitle():** Set title

*Usage:*

```
GSResource$setTitle(title)
```

*Arguments:*

title title

**Method setDescription():** Set description

*Usage:*

GSResource\$setDescription(description)

*Arguments:*

description description

**Method setAbstract():** Set abstract

*Usage:*

GSResource\$setAbstract(abstract)

*Arguments:*

abstract abstract

**Method setKeywords():** Set keyword(s)

*Usage:*

GSResource\$setKeywords(keywords)

*Arguments:*

keywords keywords

**Method addKeyword():** Adds keyword

*Usage:*

GSResource\$addKeyword(keyword)

*Arguments:*

keyword keyword

*Returns:* TRUE if added, FALSE otherwise

**Method delKeyword():** Deletes keyword

*Usage:*

GSResource\$delKeyword(keyword)

*Arguments:*

keyword keyword

*Returns:* TRUE if deleted, FALSE otherwise

**Method setMetadataLinks():** Set metadata links

*Usage:*

GSResource\$setMetadataLinks(metadataLinks)

*Arguments:*

metadataLinks metadata links

**Method addMetadataLink():** Adds metadata link

*Usage:*



GSResource\$addMetadataLink(metadataLink)

*Arguments:*

metadataLink object of class [GSMetadataLink](#)

*Returns:* TRUE if added, FALSE otherwise

**Method** deleteMetadataLink(): Deletes metadata link

*Usage:*

GSResource\$deleteMetadataLink(metadataLink)

*Arguments:*

metadataLink object of class [GSMetadataLink](#)

*Returns:* TRUE if deleted, FALSE otherwise

**Method** setProjectionPolicy(): Set projection policy

*Usage:*

GSResource\$setProjectionPolicy(projectionPolicy)

*Arguments:*

projectionPolicy projection policy

**Method** setSrs(): Set SRS

*Usage:*

GSResource\$setSrs(srs)

*Arguments:*

srs srs

**Method** setNativeCRS(): Set native CRS

*Usage:*

GSResource\$setNativeCRS(nativeCRS)

*Arguments:*

nativeCRS native crs

**Method** setLatLonBoundingBox(): Set LatLon bounding box

*Usage:*

GSResource\$setLatLonBoundingBox(minx, miny, maxx, maxy, bbox = NULL, crs)

*Arguments:*

minx minx

miny miny

maxx maxx

maxy maxy

bbox bbox

crs crs

**Method** setNativeBoundingBox(): Set native bounding box

*Usage:*

```
GSResource$setNativeBoundingBox(minx, miny, maxx, maxy, bbox = NULL, crs)
```

*Arguments:*

```
minx minx
miny miny
maxx maxx
maxy maxy
bbox bbox
crs crs
```

**Method setMetadata():** Set metadata*Usage:*

```
GSResource$setMetadata(key, metadata)
```

*Arguments:*

```
key key
metadata metadata
```

*Returns:* TRUE if added, FALSE otherwise

**Method delMetadata():** Deletes metadata*Usage:*

```
GSResource$delMetadata(key)
```

*Arguments:*

```
key key
```

*Returns:* TRUE if deleted, FALSE otherwise

**Method setMetadataDimension():** Set metadata dimension*Usage:*

```
GSResource$setMetadataDimension(key, dimension, custom = FALSE)
```

*Arguments:*

```
key key
dimension dimension
custom custom
```

**Method clone():** The objects of this class are cloneable with this method.*Usage:*

```
GSResource$clone(deep = FALSE)
```

*Arguments:*

```
deep Whether to make a deep clone.
```

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

**Examples**

```
res <- GSResource$new(rootName = "featureType")
```

---

GSRESTEntrySet	<i>Geoserver REST API XML entry set</i>
----------------	---

---

**Description**

Geoserver REST API XML entry set

Geoserver REST API XML entry set

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a entry set

**Super class**

[geosapi::GSRESTResource](#) -> GSRESTEntrySet

**Public fields**

entryset entryset

**Methods****Public methods:**

- [GSRESTEntrySet\\$new\(\)](#)
- [GSRESTEntrySet\\$decode\(\)](#)
- [GSRESTEntrySet\\$setEntryset\(\)](#)
- [GSRESTEntrySet\\$addEntry\(\)](#)
- [GSRESTEntrySet\\$setEntry\(\)](#)
- [GSRESTEntrySet\\$delEntry\(\)](#)
- [GSRESTEntrySet\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes an object of class [GSRESTEntrySet](#)

*Usage:*

```
GSRESTEntrySet$new(rootName, xml = NULL, entryset)
```

*Arguments:*

rootName root name

xml object of class [XMLInternalNode-class](#)

entryset entry set

**Method** [decode\(\)](#): Decodes from XML

*Usage:*

GSRESEntrySet\$decode(xml)

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** setEntryset(): Set entry set

*Usage:*

GSRESEntrySet\$setEntryset(entryset)

*Arguments:*

entryset entry set

**Method** addEntry(): Adds entry set

*Usage:*

GSRESEntrySet\$addEntry(key, value)

*Arguments:*

key key

value value

*Returns:* TRUE if added, FALSE otherwise

**Method** setEntry(): Sets entry set

*Usage:*

GSRESEntrySet\$setEntry(key, value)

*Arguments:*

key key

value value

**Method** delEntry(): Deletes entry set

*Usage:*

GSRESEntrySet\$delEntry(key)

*Arguments:*

key key

*Returns:* TRUE if deleted, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

GSRESEntrySet\$clone(deep = FALSE)

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

---

GSRESTResource      *Geoserver REST API REST Resource interface*

---

**Description**

Geoserver REST API REST Resource interface  
Geoserver REST API REST Resource interface

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a GeoServer REST resource interface

**Public fields**

rootName root name

**Methods****Public methods:**

- [GSRESTResource\\$new\(\)](#)
- [GSRESTResource\\$decode\(\)](#)
- [GSRESTResource\\$encode\(\)](#)
- [GSRESTResource\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes an object of class [GSRESTResource](#)

*Usage:*

[GSRESTResource\\$new\(xml, rootName\)](#)

*Arguments:*

xml object of class [XMLInternalNode-class](#)

rootName root name

**Method** [decode\(\)](#): Decodes from XML. Abstract method to be implemented by sub-classes

*Usage:*

[GSRESTResource\\$decode\(xml\)](#)

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** [encode\(\)](#): Encodes as XML

*Usage:*

[GSRESTResource\\$encode\(\)](#)

*Returns:* an object of class [XMLInternalNode-class](#)

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSRESTResource$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondell@gmail.com>

---

GSServiceManager

*Geoserver REST API Service Manager*

---

### Description

Geoserver REST API Service Manager

Geoserver REST API Service Manager

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) with methods for managing GeoServer services

### Constructor

`new(url, user, pwd, logger)` This method is used to instantiate a GSManager with the url of the GeoServer and credentials to authenticate (user/pwd). By default, the logger argument will be set to NULL (no logger). This argument accepts two possible values: INFO: to print only geosapi logs, DEBUG: to print geosapi and CURL logs

`getServiceSettings(service, ws)`

`getWmsSettings(ws)` Get WMS settings. To get the WMS settings for a specific workspace, specify the workspace name as ws parameter, otherwise global settings are retrieved.

`getWfsSettings(ws)` Get WFS settings. To get the WFS settings for a specific workspace, specify the workspace name as ws parameter, otherwise global settings are retrieved.

`getWcsSettings(ws)` Get WCS settings. To get the WCS settings for a specific workspace, specify the workspace name as ws parameter, otherwise global settings are retrieved.

`updateServiceSettings(serviceSettings, service, ws)` Updates the service settings with an object of class GSServiceSetting. An optional workspace name ws can be specified to update service settings applying to a workspace.

- `deleteServiceSettings(service, ws)` Deletes the service settings. This method is used internally by **geosapi** for disabling a service setting at workspace level.
- `updateWmsSettings(serviceSettings, ws)` Updates the WMS settings with an object of class `GSServiceSetting`. An optional workspace name `ws` can be specified to update WMS settings applying to a workspace.
- `updateWfsSettings(serviceSettings, ws)` Updates the WFS settings with an object of class `GSServiceSetting`. An optional workspace name `ws` can be specified to update WFS settings applying to a workspace.
- `updateWcsSettings(serviceSettings, ws)` Updates the WCS settings with an object of class `GSServiceSettings`. An optional workspace name `ws` can be specified to update WCS settings applying to a workspace.
- `enableWMS(ws)` Enables the WMS, either globally, or for a given workspace (optional)
- `enableWFS(ws)` Enables the WFS, either globally, or for a given workspace (optional)
- `enableWCS(ws)` Enables the WCS, either globally, or for a given workspace (optional)
- `disableServiceSettings(service, ws)` Disables a service, either globally, or for a given workspace (optional). For a global service setting, an UPDATE operation will be applied, while for a workspace service setting, a DELETE operation is applied.
- `disableWMS(ws)` Disables the WMS, either globally, or for a given workspace (optional)
- `disableWFS(ws)` Disables the WFS, either globally, or for a given workspace (optional)
- `disableWCS(ws)` Disables the WCS, either globally, or for a given workspace (optional)

### Super class

`geosapi::GManager` -> `GSServiceManager`

### Methods

#### Public methods:

- `GSServiceManager$getServiceSettings()`
- `GSServiceManager$getWmsSettings()`
- `GSServiceManager$getWfsSettings()`
- `GSServiceManager$getWcsSettings()`
- `GSServiceManager$updateServiceSettings()`
- `GSServiceManager$deleteServiceSettings()`
- `GSServiceManager$updateWmsSettings()`
- `GSServiceManager$updateWfsSettings()`
- `GSServiceManager$updateWcsSettings()`
- `GSServiceManager$enableWMS()`
- `GSServiceManager$enableWFS()`
- `GSServiceManager$enableWCS()`
- `GSServiceManager$disableServiceSettings()`
- `GSServiceManager$disableWMS()`
- `GSServiceManager$disableWFS()`

- [GSServiceManager\\$disableWCS\(\)](#)
- [GSServiceManager\\$clone\(\)](#)

**Method** `getServiceSettings()`: Get the service settings. To get the service settings for a specific workspace, specify the workspace name as `ws` parameter, otherwise global settings are retrieved.

*Usage:*

```
GSServiceManager$getServiceSettings(service, ws = NULL)
```

*Arguments:*

`service` service  
`ws` workspace name

*Returns:* an object of class [GSServiceSettings](#)

**Method** `getWmsSettings()`: Get WMS settings. To get the WMS settings for a specific workspace, specify the workspace name as `ws` parameter, otherwise global settings are retrieved.

*Usage:*

```
GSServiceManager$getWmsSettings(ws = NULL)
```

*Arguments:*

`ws` workspace name

*Returns:* an object of class [GSServiceSettings](#)

**Method** `getWfsSettings()`: Get WFS settings. To get the WFS settings for a specific workspace, specify the workspace name as `ws` parameter, otherwise global settings are retrieved.

*Usage:*

```
GSServiceManager$getWfsSettings(ws = NULL)
```

*Arguments:*

`ws` workspace name

*Returns:* an object of class [GSServiceSettings](#)

**Method** `getWcsSettings()`: Get WCS settings. To get the WCS settings for a specific workspace, specify the workspace name as `ws` parameter, otherwise global settings are retrieved.

*Usage:*

```
GSServiceManager$getWcsSettings(ws = NULL)
```

*Arguments:*

`ws` workspace name

*Returns:* an object of class [GSServiceSettings](#)

**Method** `updateServiceSettings()`: Updates the service settings with an object of class [GSServiceSettings](#). An optional workspace name `ws` can be specified to update service settings applying to a workspace.

*Usage:*

```
GSServiceManager$updateServiceSettings(serviceSettings, service, ws = NULL)
```

*Arguments:*



serviceSettings serviceSettings object of class [GSServiceSettings](#)  
service service  
ws workspace name

*Returns:* TRUE if updated, FALSE otherwise

**Method** deleteServiceSettings(): Deletes the service settings. This method is used internally by **geosapi** for disabling a service setting at workspace level.

*Usage:*

```
GSServiceManager$deleteServiceSettings(service, ws = NULL)
```

*Arguments:*

service service  
ws workspace name

*Returns:* TRUE if deleted, FALSE otherwise

**Method** updateWmsSettings(): Updates the WMS settings with an object of class [GSServiceSettings](#). An optional workspace name *ws* can be specified to update WMS settings applying to a workspace.

*Usage:*

```
GSServiceManager$updateWmsSettings(serviceSettings, ws = NULL)
```

*Arguments:*

serviceSettings service settings object of class [GSServiceSettings](#)  
ws workspace name

*Returns:* TRUE if deleted, FALSE otherwise

**Method** updateWfsSettings(): Updates the WFS settings with an object of class [GSServiceSettings](#). An optional workspace name *ws* can be specified to update WFS settings applying to a workspace.

*Usage:*

```
GSServiceManager$updateWfsSettings(serviceSettings, ws = NULL)
```

*Arguments:*

serviceSettings service settings object of class [GSServiceSettings](#)  
ws workspace name

*Returns:* TRUE if deleted, FALSE otherwise

**Method** updateWcsSettings(): Updates the WCS settings with an object of class [GSServiceSettings](#). An optional workspace name *ws* can be specified to update WCS settings applying to a workspace.

*Usage:*

```
GSServiceManager$updateWcsSettings(serviceSettings, ws = NULL)
```

*Arguments:*

serviceSettings service settings object of class [GSServiceSettings](#)  
ws workspace name

*Returns:* TRUE if deleted, FALSE otherwise

**Method** enableWMS(): Enables WMS service settings

*Usage:*

GSServiceManager\$enableWMS(ws = NULL)

*Arguments:*

ws workspace name

*Returns:* TRUE if enabled, FALSE otherwise

**Method enableWFS():** Enables WFS service settings

*Usage:*

GSServiceManager\$enableWFS(ws = NULL)

*Arguments:*

ws workspace name

*Returns:* TRUE if enabled, FALSE otherwise

**Method enableWCS():** Enables WCS service settings

*Usage:*

GSServiceManager\$enableWCS(ws = NULL)

*Arguments:*

ws workspace name

*Returns:* TRUE if enabled, FALSE otherwise

**Method disableServiceSettings():** Disables service settings

*Usage:*

GSServiceManager\$disableServiceSettings(service, ws = NULL)

*Arguments:*

service service

ws workspace name

*Returns:* TRUE if disabled, FALSE otherwise

**Method disableWMS():** Disables WMS service settings

*Usage:*

GSServiceManager\$disableWMS(ws = NULL)

*Arguments:*

ws workspace name

*Returns:* TRUE if disabled, FALSE otherwise

**Method disableWFS():** Disables WFS service settings

*Usage:*

GSServiceManager\$disableWFS(ws = NULL)

*Arguments:*

ws workspace name

*Returns:* TRUE if disabled, FALSE otherwise

**Method** disableWCS(): Disables WCS service settings

*Usage:*

```
GSServiceManager$disableWCS(ws = NULL)
```

*Arguments:*

ws workspace name

*Returns:* TRUE if disabled, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSServiceManager$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

### Examples

```
## Not run:  
GSServiceManager$new("http://localhost:8080/geoserver", "admin", "geoserver")  
  
## End(Not run)
```

---

GSServiceSettings      *A GeoServer service settings resource*

---

### Description

This class models a GeoServer OWS service settings.

### Format

[R6Class](#) object.

### Details

Geoserver REST API Service Setting

### Value

Object of [R6Class](#) for modelling a GeoServer OWS service setting

**Methods**

`new(rootName, xml)` This method is used to instantiate a `GSServiceSettings`. This settings object is required to model/manipulate an OGC service configuration, using the method `GManager$updateServiceSettings` or derivatives.

`decode(xml)` This method is used to decode a `GSServiceSettings` from XML

`encode()` This method is used to encode a `GSServiceSettings` to XML. Inherited from the generic `GSRESTResource` encoder

`setEnabled(enabled)` Sets if the service is enabled (TRUE) or not (FALSE)

`setCiteCompliant(citeCompliant)` Sets if the service is compliant with CITE (TRUE) or not (FALSE)

`setName(name)` Sets the service name

`setTitle(title)` Sets the service title

`setAbstract(abstract)` Sets the service abstract

`setMaintainer(maintainer)` Sets the service maintainer

`setKeywords(keywords)` Sets a list of keywords

`addKeyword(keyword)` Sets a keyword. Returns TRUE if set, FALSE otherwise

`delKeyword(keyword)` Deletes a keyword. Returns TRUE if deleted, FALSE otherwise

`setOnlineResource(onlineResource)` Sets the online resource

`setSchemaBaseURL(schemaBaseURL)` Sets the schema base URL. Default is `http://schemas.opengis.net`

`setVerbose(verbose)` Sets verbose

**Super class**

[geosapi::GSRESTResource](#) -> `GSServiceSettings`

**Public fields**

`enabled` is service enabled or not?

`citeCompliant` is service cite compliant?

`name` service name

`title` service title

`maintainer` service maintainer

`abstract` service abstract

`accessConstraints` service access constraints

`fees` service fees

`keywords` services keywords

`onlineResource` service online resource

`schemaBaseURL` service schema base URL

`verbose` service verbose or not?

**Methods****Public methods:**

- [GSServiceSettings\\$new\(\)](#)
- [GSServiceSettings\\$decode\(\)](#)
- [GSServiceSettings\\$setEnabled\(\)](#)
- [GSServiceSettings\\$setCiteCompliant\(\)](#)
- [GSServiceSettings\\$setName\(\)](#)
- [GSServiceSettings\\$setTitle\(\)](#)
- [GSServiceSettings\\$setMaintainer\(\)](#)
- [GSServiceSettings\\$setAbstract\(\)](#)
- [GSServiceSettings\\$setAccessConstraints\(\)](#)
- [GSServiceSettings\\$setFees\(\)](#)
- [GSServiceSettings\\$setKeywords\(\)](#)
- [GSServiceSettings\\$addKeyword\(\)](#)
- [GSServiceSettings\\$delKeyword\(\)](#)
- [GSServiceSettings\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes an object of class [GSServiceSettings](#)

*Usage:*

```
GSServiceSettings$new(xml = NULL, service)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

service service service acronym

**Method** [decode\(\)](#): Decodes from XML

*Usage:*

```
GSServiceSettings$decode(xml)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** [setEnabled\(\)](#): Set enabled

*Usage:*

```
GSServiceSettings$setEnabled(enabled)
```

*Arguments:*

enabled enabled

**Method** [setCiteCompliant\(\)](#): Set cite compliant

*Usage:*

```
GSServiceSettings$setCiteCompliant(citeCompliant)
```

*Arguments:*

citeCompliant cite compliant

**Method setName():** Set name

*Usage:*

GSServiceSettings\$setName(name)

*Arguments:*

name name

**Method setTitle():** Set title

*Usage:*

GSServiceSettings\$setTitle(title)

*Arguments:*

title title

**Method setMaintainer():** Set maintainer

*Usage:*

GSServiceSettings\$setMaintainer(maintainer)

*Arguments:*

maintainer maintainer

**Method setAbstract():** Set abstract

*Usage:*

GSServiceSettings\$setAbstract(abstract)

*Arguments:*

abstract abstract

**Method setAccessConstraints():** Set access constraints

*Usage:*

GSServiceSettings\$setAccessConstraints(accessConstraints)

*Arguments:*

accessConstraints access constraints

**Method setFees():** Set fees

*Usage:*

GSServiceSettings\$setFees(fees)

*Arguments:*

fees fees

**Method setKeywords():** Set keywords

*Usage:*

GSServiceSettings\$setKeywords(keywords)

*Arguments:*

keywords keywords

**Method** addKeyword(): Adds a keyword

*Usage:*

```
GSServiceSettings$addKeyword(keyword)
```

*Arguments:*

keyword keyword

*Returns:* TRUE if added, FALSE otherwise

**Method** delKeyword(): Deletes a keyword

*Usage:*

```
GSServiceSettings$delKeyword(keyword)
```

*Arguments:*

keyword keyword

*Returns:* TRUE if deleted, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSServiceSettings$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

#### Author(s)

Emmanuel Blondel <emmanuel.blondell@gmail.com>

#### Examples

```
settings <- GSServiceSettings$new(service = "WMS")
settings$setEnabled(TRUE)
```

---

GSShapefileDataStore *Geoserver REST API ShapeFileDataStore*

---

#### Description

Geoserver REST API ShapeFileDataStore

Geoserver REST API ShapeFileDataStore

#### Format

[R6Class](#) object.

#### Value

Object of [R6Class](#) for modelling a GeoServer Shapefile dataStore

**Methods**

new(xml, name, description, enabled, url) Instantiates a GSShapefileDataStore object  
 setUrl(url) Set the spatial files data URL  
 setCharset(charset) Set the charset used for DBF file. Default value is 'ISO-8859-1'  
 setCreateSpatialIndex(create) Set the 'Create Spatial Index' option. Default is TRUE  
 setMemoryMappedBuffer(buffer) Set the 'Memory Mapped Buffer' option. Default is TRUE  
 CacheReuseMemoryMaps(maps) Set the 'Cache & Reuse Memory Maps' option. Default is TRUE  
 setDefaultConnectionParameters() Set the default connection paramaters

**Super classes**

[geosapi::GSRESTResource](#) -> [geosapi::GSAbstractStore](#) -> [geosapi::GSAbstractDataStore](#)  
 -> GSShapefileDataStore

**Methods****Public methods:**

- [GSShapefileDataStore\\$new\(\)](#)
- [GSShapefileDataStore\\$setUrl\(\)](#)
- [GSShapefileDataStore\\$setCharset\(\)](#)
- [GSShapefileDataStore\\$setCreateSpatialIndex\(\)](#)
- [GSShapefileDataStore\\$setMemoryMappedBuffer\(\)](#)
- [GSShapefileDataStore\\$setCacheReuseMemoryMaps\(\)](#)
- [GSShapefileDataStore\\$setDefaultConnectionParameters\(\)](#)
- [GSShapefileDataStore\\$clone\(\)](#)

**Method** new(): initializes a shapefile data store

*Usage:*

```
GSShapefileDataStore$new(
  xml = NULL,
  name = NULL,
  description = "",
  enabled = TRUE,
  url
)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#) to create object from XML  
 name coverage store name  
 description coverage store description  
 enabled whether the store should be enabled or not. Default is TRUE  
 url url

**Method** setUrl(): Set the spatial files data URL



*Usage:*

```
GSShapefileDataStore$setUrl(url)
```

*Arguments:*

url url

**Method** setCharset(): Set the charset used for DBF file.

*Usage:*

```
GSShapefileDataStore$setCharset(charset = "ISO-8859-1")
```

*Arguments:*

charset charset. Default value is 'ISO-8859-1'

**Method** setCreateSpatialIndex(): Set the 'Create Spatial Index' option

*Usage:*

```
GSShapefileDataStore$setCreateSpatialIndex(create = TRUE)
```

*Arguments:*

create create. Default is TRUE

**Method** setMemoryMappedBuffer(): Set the 'Memory Mapped Buffer' option

*Usage:*

```
GSShapefileDataStore$setMemoryMappedBuffer(buffer = FALSE)
```

*Arguments:*

buffer buffer. Default is FALSE

**Method** setCacheReuseMemoryMaps(): Set the 'Cache & Reuse Memory Maps' option.

*Usage:*

```
GSShapefileDataStore$setCacheReuseMemoryMaps/maps = TRUE)
```

*Arguments:*

maps maps. Default is TRUE

**Method** setDefaultConnectionParameters(): Set default connection parameters

*Usage:*

```
GSShapefileDataStore$setDefaultConnectionParameters()
```

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSShapefileDataStore$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

**Examples**

```
GSShapefileDataStore$new(name = "ds", description = "des",  
                          enabled = TRUE, url = "file://data/shape.shp")
```

---

GSShapefileDirectoryDataStore

*Geoserver REST API ShapeFileDirectoryDataStore*

---

### Description

Geoserver REST API ShapeFileDirectoryDataStore

Geoserver REST API ShapeFileDirectoryDataStore

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) for modelling a GeoServer Shapefile directory dataStore

### Super classes

[geosapi::GSRESTResource](#) -> [geosapi::GSAbstractStore](#) -> [geosapi::GSAbstractDataStore](#)  
 -> [geosapi::GSShapefileDataStore](#) -> GSShapefileDirectoryDataStore

### Methods

#### Public methods:

- [GSShapefileDirectoryDataStore\\$new\(\)](#)
- [GSShapefileDirectoryDataStore\\$setUrl\(\)](#)
- [GSShapefileDirectoryDataStore\\$setCharset\(\)](#)
- [GSShapefileDirectoryDataStore\\$setCreateSpatialIndex\(\)](#)
- [GSShapefileDirectoryDataStore\\$setMemoryMappedBuffer\(\)](#)
- [GSShapefileDirectoryDataStore\\$setCacheReuseMemoryMaps\(\)](#)
- [GSShapefileDirectoryDataStore\\$setDefaultConnectionParameters\(\)](#)
- [GSShapefileDirectoryDataStore\\$clone\(\)](#)

**Method** `new()`: initializes a shapefile directory data store

*Usage:*

```
GSShapefileDirectoryDataStore$new(
  xml = NULL,
  name = NULL,
  description = "",
  enabled = TRUE,
  url
)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#) to create object from XML

name coverage store name  
description coverage store description  
enabled whether the store should be enabled or not. Default is TRUE  
url url

**Method** `setUrl()`: Set the spatial files data URL

*Usage:*

```
GSShapefileDirectoryDataStore$setUrl(url)
```

*Arguments:*

url url

**Method** `setCharset()`: Set the charset used for DBF file.

*Usage:*

```
GSShapefileDirectoryDataStore$setCharset(charset = "ISO-8859-1")
```

*Arguments:*

charset charset. Default value is 'ISO-8859-1'

**Method** `setCreateSpatialIndex()`: Set the 'Create Spatial Index' option

*Usage:*

```
GSShapefileDirectoryDataStore$setCreateSpatialIndex(create = TRUE)
```

*Arguments:*

create create. Default is TRUE

**Method** `setMemoryMappedBuffer()`: Set the 'Memory Mapped Buffer' option

*Usage:*

```
GSShapefileDirectoryDataStore$setMemoryMappedBuffer(buffer = FALSE)
```

*Arguments:*

buffer buffer. Default is FALSE

**Method** `setCacheReuseMemoryMaps()`: Set the 'Cache & Reuse Memory Maps' option.

*Usage:*

```
GSShapefileDirectoryDataStore$setCacheReuseMemoryMaps(maps = TRUE)
```

*Arguments:*

maps maps. Default is TRUE

**Method** `setDefaultConnectionParameters()`: Set default connection parameters

*Usage:*

```
GSShapefileDirectoryDataStore$setDefaultConnectionParameters()
```

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
GSShapefileDirectoryDataStore$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondell@gmail.com>

**Examples**

```
GSShapefileDirectoryDataStore$new(name = "ds", description = "des",
                                   enabled = TRUE, url = "file://data")
```

---

GSShinyMonitor

*Geoserver REST API DataStore*

---

**Description**

Geoserver REST API DataStore

Geoserver REST API DataStore

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for setting a GS Shiny monitoring app

**Methods****Public methods:**

- [GSShinyMonitor\\$new\(\)](#)
- [GSShinyMonitor\\$getMetric\(\)](#)
- [GSShinyMonitor\\$run\(\)](#)
- [GSShinyMonitor\\$clone\(\)](#)

**Method** `new()`: Initializes a Geoserver shiny monitoring tool

*Usage:*

```
GSShinyMonitor$new(manager, file = NULL, append = FALSE, sleep = 1)
```

*Arguments:*

manager object of class [GSManager](#)

file file File where to store monitoring results

append append. Whether results should be appended to existing file

sleep sleep. Interval in seconds to trigger monitor calls

**Method** `getMetric()`: Get metric

*Usage:*

```
GSShinyMonitor$getMetric(name)
```

*Arguments:*

name name

*Returns:* the Geoserver monitored metric

**Method** run(): Runs the application

*Usage:*

GSShinyMonitor\$run()

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

GSShinyMonitor\$clone(deep = FALSE)

*Arguments:*

deep Whether to make a deep clone.

#### Note

Internal class used for GSManager\$monitor method

#### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

---

GSStyleManager

*Geoserver REST API Style Manager*

---

#### Description

Geoserver REST API Style Manager

Geoserver REST API Style Manager

#### Format

[R6Class](#) object.

#### Value

Object of [R6Class](#) with methods for managing the styles of a GeoServer instance.

**Methods**

`new(url, user, pwd, logger)` This method is used to instantiate a GSManager with the url of the GeoServer and credentials to authenticate (user/pwd). By default, the logger argument will be set to NULL (no logger). This argument accepts two possible values: INFO: to print only geosapi logs, DEBUG: to print geosapi and CURL logs

`getStyles()`

`getStyleNames()`

`getStyle(style)`

`createStyle(file, sldBody, name, raw, ws)`

`updateStyle(file, sldBody, name, raw, ws)` Updates a GeoServer style. Returns TRUE if the style has been successfully updated, FALSE otherwise

`deleteStyle(style, recurse, purge, ws)` Deletes a GeoServer style given a name. Returns TRUE if the style has been successfully deleted, FALSE otherwise

`getSLDVersion(sldBody)` Get the SLD version from the XML object (of class XMLInternalDocument)

`getSLDBody(style, ws = NULL)` Get the SLD Body given a style name. This method is only supported for Geoserver >= 2.2.

**Super class**

`geosapi:GSManager` -> GSStyleManager

**Methods****Public methods:**

- `GSStyleManager$getStyles()`
- `GSStyleManager$getStyleNames()`
- `GSStyleManager$getStyle()`
- `GSStyleManager$createStyle()`
- `GSStyleManager$updateStyle()`
- `GSStyleManager$deleteStyle()`
- `GSStyleManager$getSLDVersion()`
- `GSStyleManager$getSLDBody()`
- `GSStyleManager$clone()`

**Method** `getStyles()`: Get the list of available styles.

*Usage:*

`GSStyleManager$getStyles()`

*Returns:* an object of class `list` containing items of class `GSStyle`

**Method** `getStyleNames()`: Get the list of available style names

*Usage:*

`GSStyleManager$getStyleNames()`

*Returns:* a vector of class `character`

**Method** `getStyle()`: Get a [GSStyle](#) object given a style name.

*Usage:*

```
GSStyleManager$getStyle(style, ws = NULL)
```

*Arguments:*

`style` style name

`ws` workspace name. Optional

*Returns:* object of class [GSStyle](#)

**Method** `createStyle()`: Creates a GeoServer style given a name.

*Usage:*

```
GSStyleManager$createStyle(file, sldBody = NULL, name, raw = FALSE, ws = NULL)
```

*Arguments:*

`file` file

`sldBody` SLD body

`name` name

`raw` raw

`ws` workspace name

*Returns:* TRUE if the style has been successfully created, FALSE otherwise

**Method** `updateStyle()`: Updates a GeoServer style given a name.

*Usage:*

```
GSStyleManager$updateStyle(file, sldBody = NULL, name, raw = FALSE, ws = NULL)
```

*Arguments:*

`file` file

`sldBody` SLD body

`name` name

`raw` raw

`ws` workspace name

*Returns:* TRUE if the style has been successfully updated, FALSE otherwise

**Method** `deleteStyle()`: Deletes a style given a name. By default, the option `recurse` is set to FALSE, ie datastore layers are not removed. To remove all coverage store layers, set this option to TRUE. The `purge` parameter is used to customize the delete of files on disk (in case the underlying reader implements a delete method).

*Usage:*

```
GSStyleManager$deleteStyle(name, recurse = FALSE, purge = FALSE, ws = NULL)
```

*Arguments:*

`name` name

`recurse` recurse

`purge` purge

`ws` workspace name

*Returns:* TRUE if the style has been successfully deleted, FALSE otherwise

**Method** getSLDVersion(): Get SLD version

*Usage:*

```
GSStyleManager$getSLDVersion(sldBody)
```

*Arguments:*

sldBody SLD body

**Method** getSLDBody(): Get SLD body

*Usage:*

```
GSStyleManager$getSLDBody(style, ws = NULL)
```

*Arguments:*

style style name

ws workspace name

*Returns:* an object of class [XMLInternalNode-class](#)

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSStyleManager$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

#### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

#### Examples

```
## Not run:  
GSStyleManager$new("http://localhost:8080/geoserver", "admin", "geoserver")  
  
## End(Not run)
```

---

GSUtils

*Geoserver REST API Manager Utils*

---

#### Description

Geoserver REST API Manager Utils

Geoserver REST API Manager Utils

#### Format

[R6Class](#) object.



**Value**

Object of [R6Class](#) with static util methods for communication with the REST API of a GeoServer instance.

**Static methods**

`getUserAgent()` This method is used to get the user agent for performing GeoServer API requests. Here the user agent will be compound by `geosapi` package name and version.

`getUserToken(user, pwd)` This method is used to get the user authentication token for performing GeoServer API requests. Token is given a Base64 encoded string.

`GET(url, user, pwd, path, verbose)` This method performs a GET request for a given path to GeoServer REST API

`PUT(url, user, pwd, path, filename, contentType, verbose)` This method performs a PUT request for a given path to GeoServer REST API, to upload a file of name `filename` with given `contentType`

`POST(url, user, pwd, path, content, contentType, verbose)` This method performs a POST request for a given path to GeoServer REST API, to post content of given `contentType`

`DELETE(url, user, pwd, path, verbose)` This method performs a DELETE request for a given GeoServer resource identified by a path in GeoServer REST API

`parseResponseXML(req)` Convenience method to parse XML response from GeoServer REST API. Although package `httr` suggests the use of `xml2` package for handling XML, `geosapi` still relies on the package `XML`. Response from `httr` is retrieved as text, and then parsed as XML using `xmlParse` function.

`getPayloadXML(obj)` Convenience method to create payload XML to send to GeoServer.

`setBbox(minx, miny, maxx, maxy, bbox, crs)` Creates an list object representing a bbox. Either from coordinates or from a bbox object (matrix).

**Methods****Public methods:**

- [GSUtils\\$clone\(\)](#)

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
GSUtils$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondell@gmail.com>

---

GSVersion

*A GeoServer version*

---

### Description

This class allows to grab the GeoServer version. By default, a tentative is made to fetch version from web admin default page, since Geoserver REST API did not support GET operation for the Geoserver version in past releases of Geoserver.

### Format

[R6Class](#) object.

### Details

Geoserver REST API - Geoserver Version

### Value

Object of [R6Class](#) for modelling a GeoServer version

### Public fields

version version

value value

### Methods

#### Public methods:

- [GSVersion\\$new\(\)](#)
- [GSVersion\\$lowerThan\(\)](#)
- [GSVersion\\$greaterThan\(\)](#)
- [GSVersion\\$equalTo\(\)](#)
- [GSVersion\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes an object of class [GSVersion](#)

*Usage:*

```
GSVersion$new(url, user, pwd)
```

*Arguments:*

url url

user user

pwd pwd

**Method** [lowerThan\(\)](#): Compares to a version and returns TRUE if it is lower, FALSE otherwise

*Usage:*

```
GSVersion$lowerThan(version)
```

*Arguments:*

version version

*Returns:* TRUE if lower, FALSE otherwise

**Method** greaterThan(): Compares to a version and returns TRUE if it is greater, FALSE otherwise

*Usage:*

```
GSVersion$greaterThan(version)
```

*Arguments:*

version version

*Returns:* TRUE if greater, FALSE otherwise

**Method** equalTo(): Compares to a version and returns TRUE if it is equal, FALSE otherwise

*Usage:*

```
GSVersion$equalTo(version)
```

*Arguments:*

version version

*Returns:* TRUE if equal, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSVersion$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

## Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

## Examples

```
## Not run:
version <- GSVersion$new(
  url = "http://localhost:8080/geoserver",
  user = "admin", pwd = "geoserver"
)

## End(Not run)
```

---

GSVirtualTable

*Geoserver REST API GSVirtualTable*

---

### Description

Geoserver REST API GSVirtualTable

Geoserver REST API GSVirtualTable

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) for modelling a GeoServer virtual table

### Methods

`new(xml)` This method is used to instantiate a GSVirtualTable

`decode(xml)` This method is used to decode a GSVirtualTable from XML

`encode()` This method is used to encode a GSVirtualTable to XML

`setName(name)` Sets the name of the virtual table

`setSql(sql)` Sets the sql of the virtual table

`setEscapeSql(escapeSql)` Sets the escapeSql. Default is FALSE

`setKeyColumn(keyColumn)` Sets the keyColumn. Name of the column to be the primary key

`setGeometry(vtg)` Sets the virtual table geometry

`addParameter(parameter)` Adds a virtual table parameter

`delParameter(parameter)` Removes a virtual table parameter.

### Super class

[geosapi:GSRESTResource](#) -> GSVirtualTable

### Public fields

`name` name

`sql` SQL statement

`escapeSql` escape SQL?

`keyColumn` key column

`geometry` geometry

`parameters` list of virtual parameters

**Methods****Public methods:**

- [GSVirtualTable\\$new\(\)](#)
- [GSVirtualTable\\$decode\(\)](#)
- [GSVirtualTable\\$setName\(\)](#)
- [GSVirtualTable\\$setSql\(\)](#)
- [GSVirtualTable\\$setEscapeSql\(\)](#)
- [GSVirtualTable\\$setKeyColumn\(\)](#)
- [GSVirtualTable\\$setGeometry\(\)](#)
- [GSVirtualTable\\$addParameter\(\)](#)
- [GSVirtualTable\\$delParameter\(\)](#)
- [GSVirtualTable\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes an object of class [GSVirtualTable](#)

*Usage:*

```
GSVirtualTable$new(xml = NULL)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** [decode\(\)](#): Decodes from XML

*Usage:*

```
GSVirtualTable$decode(xml)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method** [setName\(\)](#): Set name

*Usage:*

```
GSVirtualTable$setName(name)
```

*Arguments:*

name name

**Method** [setSql\(\)](#): Set SQL

*Usage:*

```
GSVirtualTable$setSql(sql)
```

*Arguments:*

sql sql

**Method** [setEscapeSql\(\)](#): Set escape SQL

*Usage:*

```
GSVirtualTable$setEscapeSql(escapeSql)
```

*Arguments:*

escapeSql escape SQL

**Method** setKeyColumn(): Set key column

*Usage:*

GSVirtualTable\$setKeyColumn(keyColumn)

*Arguments:*

keyColumn key column

**Method** setGeometry(): Set geometry

*Usage:*

GSVirtualTable\$setGeometry(vtg)

*Arguments:*

vtg object of class [GSVirtualTableGeometry](#)

**Method** addParameter(): Adds parameter

*Usage:*

GSVirtualTable\$addParameter(parameter)

*Arguments:*

parameter object of class [GSVirtualTableParameter](#)

*Returns:* TRUE if added, FALSE otherwise

**Method** delParameter(): Deletes parameter

*Usage:*

GSVirtualTable\$delParameter(parameter)

*Arguments:*

parameter object of class [GSVirtualTableParameter](#)

*Returns:* TRUE if deleted, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

GSVirtualTable\$clone(deep = FALSE)

*Arguments:*

deep Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

### Examples

```
GSVirtualTable$new()
```

---

GSVirtualTableGeometry

*Geoserver REST API GSVirtualTableGeometry*

---

### Description

Geoserver REST API GSVirtualTableGeometry

Geoserver REST API GSVirtualTableGeometry

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) for modelling a GeoServer virtual table geometry

### Super class

[geosapi::GSRESTResource](#) -> GSVirtualTableGeometry

### Public fields

name geometry name

type geometry type

srid geometry SRID

### Methods

#### Public methods:

- [GSVirtualTableGeometry\\$new\(\)](#)
- [GSVirtualTableGeometry\\$decode\(\)](#)
- [GSVirtualTableGeometry\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes an object of class [GSVirtualTableGeometry](#)

*Usage:*

```
GSVirtualTableGeometry$new(xml = NULL, name, type, srid)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

name name

type type

srid srid

**Method** [decode\(\)](#): Decodes from XML

*Usage:*

```
GSVirtualTableGeometry$decode(xml)
```

*Arguments:*

xml object of class [XMLInternalNode-class](#)

**Method clone():** The objects of this class are cloneable with this method.

*Usage:*

```
GSVirtualTableGeometry$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondell@gmail.com>

**Examples**

```
GSVirtualTableGeometry$new(name = "work", type = "MultiPolygon", srid = 4326)
```

---

GSVirtualTableParameter

*Geoserver REST API GSVirtualTableParameter*

---

**Description**

Geoserver REST API GSVirtualTableParameter

Geoserver REST API GSVirtualTableParameter

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a GeoServer virtual table parameter

**Super class**

[geosapi::GSRESTResource](#) -> GSVirtualTableParameter

**Public fields**

name parameter name

defaultValue parameter default value

regexValidator parameter regexp validator





GSWorkspace

*Geoserver REST API Workspace*

---

**Description**

Geoserver REST API Workspace

Geoserver REST API Workspace

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a GeoServer workspace

**Super class**

[geosapi::GSRESTResource](#) -> GSWorkspace

**Public fields**

name name

**Methods****Public methods:**

- [GSWorkspace\\$new\(\)](#)
- [GSWorkspace\\$decode\(\)](#)
- [GSWorkspace\\$clone\(\)](#)

**Method** [new\(\)](#): initializes a [GSWorkspace](#)

*Usage:*

[GSWorkspace\\$new](#)(xml = NULL, name)

*Arguments:*

xml an object of class [XMLInternalNode-class](#)

name name

**Method** [decode\(\)](#): Decodes from XML

*Usage:*

[GSWorkspace\\$decode](#)(xml)

*Arguments:*

xml an object of class [XMLInternalNode-class](#)

**Method** [clone\(\)](#): The objects of this class are cloneable with this method.

*Usage:*

```
GSWorkspace$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

**Examples**

```
GSWorkspace$new(name = "work")
```

---

GSWorkspaceManager      *Geoserver REST API Workspace Manager*

---

**Description**

Geoserver REST API Workspace Manager

Geoserver REST API Workspace Manager

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) with methods for managing the workspaces of a GeoServer instance.

**Super class**

[geosapi : :GManager](#) -> GSWorkspaceManager

**Methods****Public methods:**

- [GSWorkspaceManager\\$getWorkspaces\(\)](#)
- [GSWorkspaceManager\\$getWorkspaceNames\(\)](#)
- [GSWorkspaceManager\\$getWorkspace\(\)](#)
- [GSWorkspaceManager\\$createWorkspace\(\)](#)
- [GSWorkspaceManager\\$updateWorkspace\(\)](#)
- [GSWorkspaceManager\\$deleteWorkspace\(\)](#)
- [GSWorkspaceManager\\$getWorkspaceSettings\(\)](#)
- [GSWorkspaceManager\\$createWorkspaceSettings\(\)](#)
- [GSWorkspaceManager\\$updateWorkspaceSettings\(\)](#)

- [GSWorkspaceManager\\$deleteWorkspaceSettings\(\)](#)
- [GSWorkspaceManager\\$clone\(\)](#)

**Method** `getWorkspaces()`: Get the list of available workspace. Returns an object of class `List` containing items of class `GSWorkspace`

*Usage:*

```
GSWorkspaceManager$getWorkspaces()
```

*Arguments:*

a list of [GSWorkspace](#)

**Method** `getWorkspaceNames()`: Get the list of available workspace names. Returns an vector of class character

*Usage:*

```
GSWorkspaceManager$getWorkspaceNames()
```

*Returns:* a list of workspace names

**Method** `getWorkspace()`: Get a [GSWorkspace](#) object given a workspace name.

*Usage:*

```
GSWorkspaceManager$getWorkspace(ws)
```

*Arguments:*

ws workspace name

*Returns:* an object of class [GSWorkspace](#)

**Method** `createWorkspace()`: Creates a GeoServer workspace given a name, and an optional URI. If the URI is not specified, GeoServer will automatically create an associated Namespace with the URI being "http://workspaceName. If the URI is specified, the method invokes the method `createNamespace(ns, uri)` of the [GSNamespaceManager](#). Returns TRUE if the workspace has been successfully created, FALSE otherwise

*Usage:*

```
GSWorkspaceManager$createWorkspace(name, uri)
```

*Arguments:*

name name

uri uri

*Returns:* TRUE if created, FALSE otherwise

**Method** `updateWorkspace()`: Updates a GeoServer workspace given a name, and an optional URI. If the URI is not specified, GeoServer will automatically update the associated Namespace with the URI being "http://workspaceName. If the URI is specified, the method invokes the method `updateNamespace(ns, uri)` of the [GSNamespaceManager](#). Returns TRUE if the workspace has been successfully updated, FALSE otherwise

*Usage:*

```
GSWorkspaceManager$updateWorkspace(name, uri)
```

*Arguments:*

name name

uri uri

*Returns:* TRUE if created, FALSE otherwise

**Method** deleteWorkspace(): Deletes a GeoServer workspace given a name.

*Usage:*

GSWorkspaceManager\$deleteWorkspace(name, recurse = FALSE)

*Arguments:*

name name

recurse recurse

*Returns:* TRUE if the workspace has been successfully deleted, FALSE otherwise

**Method** getWorkspaceSettings(): Updates workspace settings

*Usage:*

GSWorkspaceManager\$getWorkspaceSettings(ws)

*Arguments:*

ws workspace name

*Returns:* an object of class [GSWorkspaceSettings](#)

**Method** createWorkspaceSettings(): Creates workspace settings

*Usage:*

GSWorkspaceManager\$createWorkspaceSettings(ws, workspaceSettings)

*Arguments:*

ws workspace name

workspaceSettings object of class [GSWorkspaceSettings](#)

*Returns:* TRUE if created, FALSE otherwise

**Method** updateWorkspaceSettings(): Updates workspace settings

*Usage:*

GSWorkspaceManager\$updateWorkspaceSettings(ws, workspaceSettings)

*Arguments:*

ws workspace name

workspaceSettings object of class [GSWorkspaceSettings](#)

*Returns:* TRUE if updated, FALSE otherwise

**Method** deleteWorkspaceSettings(): Deletes workspace settings

*Usage:*

GSWorkspaceManager\$deleteWorkspaceSettings(ws)

*Arguments:*

ws workspace name

*Returns:* TRUE if deleted, FALSE otherwise

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

GSWorkspaceManager\$clone(deep = FALSE)

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

**Examples**

```
## Not run:  
  GSWorkspaceManager$new("http://localhost:8080/geoserver", "admin", "geoserver")  
  
## End(Not run)
```

---

GSWorkspaceSettings    *Geoserver REST API Workspace Setting*

---

**Description**

Geoserver REST API Workspace Setting

Geoserver REST API Workspace Setting

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a GeoServer workspace settings

**Super class**

[geosapi::GSRESTResource](#) -> GSWorkspaceSettings

**Public fields**

contact contact

charset charset

numDecimals number of decimal

onlineResource online resource

verbose verbose

verboseExceptions verbose exceptions

localWorkspaceIncludesPrefix local workspace includes prefix

**Methods****Public methods:**

- [GSWorkspaceSettings\\$new\(\)](#)
- [GSWorkspaceSettings\\$decode\(\)](#)
- [GSWorkspaceSettings\\$setCharset\(\)](#)
- [GSWorkspaceSettings\\$setNumDecimals\(\)](#)
- [GSWorkspaceSettings\\$setOnlineResource\(\)](#)
- [GSWorkspaceSettings\\$setVerbose\(\)](#)
- [GSWorkspaceSettings\\$setVerboseExceptions\(\)](#)
- [GSWorkspaceSettings\\$setLocalWorkspaceIncludesPrefix\(\)](#)
- [GSWorkspaceSettings\\$clone\(\)](#)

**Method** `new()`: This method is used to instantiate a `GSWorkspaceSettings`. This settings object is required to activate a workspace configuration, using the method `GSManger#createWorkspaceSettings`. Supported from GeoServer 2.12

*Usage:*

```
GSWorkspaceSettings$new(xml = NULL)
```

*Arguments:*

`xml` object of class [XMLInternalNode-class](#)

**Method** `decode()`: Decodes from XML

*Usage:*

```
GSWorkspaceSettings$decode(xml)
```

*Arguments:*

`xml` object of class [XMLInternalNode-class](#)

**Method** `setCharset()`: Set charset

*Usage:*

```
GSWorkspaceSettings$setCharset(charset)
```

*Arguments:*

`charset` charset

**Method** `setNumDecimals()`: Set number of decimals

*Usage:*

```
GSWorkspaceSettings$setNumDecimals(numDecimals)
```

*Arguments:*

`numDecimals` number of decimals

**Method** `setOnlineResource()`: Set online resource

*Usage:*

```
GSWorkspaceSettings$setOnlineResource(onlineResource)
```

*Arguments:*

onlineResource online resource

**Method** setVerbose(): Set verbose

*Usage:*

```
GSWorkspaceSettings$setVerbose(verbose)
```

*Arguments:*

verbose verbose

**Method** setVerboseExceptions(): Set verbose exceptions

*Usage:*

```
GSWorkspaceSettings$setVerboseExceptions(verboseExceptions)
```

*Arguments:*

verboseExceptions verbose exceptions

**Method** setLocalWorkspaceIncludesPrefix(): Set local workspace includes prefix

*Usage:*

```
GSWorkspaceSettings$setLocalWorkspaceIncludesPrefix(includesPrefix)
```

*Arguments:*

includesPrefix includes prefix

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
GSWorkspaceSettings$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

### Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

### Examples

```
settings <- GSWorkspaceSettings$new()  
settings$setCharset("UTF-8")  
settings$setNumDecimals(5)
```



---

GSWorldImageCoverageStore  
*Geoserver REST API WorldImageCoverageStore*

---

### Description

Geoserver REST API WorldImageCoverageStore  
Geoserver REST API WorldImageCoverageStore

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) for modelling a GeoServer WorldImage CoverageStore

### Super classes

[geosapi::GSRESTResource](#) -> [geosapi::GSAbstractStore](#) -> [geosapi::GSAbstractCoverageStore](#)  
-> [GSWorldImageCoverageStore](#)

### Public fields

url url

### Methods

#### Public methods:

- [GSWorldImageCoverageStore\\$new\(\)](#)
- [GSWorldImageCoverageStore\\$clone\(\)](#)

**Method** [new\(\)](#): Initializes an WorldImage coverage store

*Usage:*

```
GSWorldImageCoverageStore$new(  
  xml = NULL,  
  name = NULL,  
  description = "",  
  enabled = TRUE,  
  url = NULL  
)
```

*Arguments:*

xml an object of class [XMLInternalNode-class](#) to create object from XML  
name coverage store name  
description coverage store description

enabled whether the store should be enabled or not. Default is TRUE  
url url

**Method clone():** The objects of this class are cloneable with this method.

*Usage:*

```
GSWorldImageCoverageStore$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

# Index

- \* **ArcGrid**
  - GSArcGridCoverageStore, [14](#)
- \* **CoverageStore**
  - GSAbstractCoverageStore, [3](#)
  - GSArcGridCoverageStore, [14](#)
  - GSCoverageStoreManager, [20](#)
  - GSGeoTIFFCoverageStore, [46](#)
  - GSIImageMosaicCoverageStore, [47](#)
  - GSWorldImageCoverageStore, [121](#)
- \* **DB**
  - GSAbstractDBDataStore, [7](#)
- \* **DataStore**
  - GSAbstractDataStore, [5](#)
  - GSAbstractDBDataStore, [7](#)
  - GSDataStoreManager, [29](#)
  - GSGeoPackageDataStore, [44](#)
  - GSOracleNGDataStore, [72](#)
  - GSPostGISDataStore, [74](#)
  - GSShapefileDataStore, [95](#)
  - GSShapefileDirectoryDataStore, [98](#)
- \* **ESRI**
  - GSShapefileDataStore, [95](#)
  - GSShapefileDirectoryDataStore, [98](#)
- \* **GeoPackage**
  - GSGeoPackageDataStore, [44](#)
- \* **GeoTIFF**
  - GSGeoTIFFCoverageStore, [46](#)
- \* **ImageMosaic**
  - GSIImageMosaicCoverageStore, [47](#)
- \* **Layer**
  - GSLayerManager, [59](#)
- \* **OGC**
  - GSServiceSettings, [91](#)
- \* **OWS**
  - GSServiceSettings, [91](#)
- \* **OracleNG**
  - GSOracleNGDataStore, [72](#)
- \* **PostGIS**
  - GSPostGISDataStore, [74](#)
- \* **WCS**
  - GSServiceSettings, [91](#)
- \* **WFS**
  - GSServiceSettings, [91](#)
- \* **WMS**
  - GSServiceSettings, [91](#)
- \* **WorldImage**
  - GSWorldImageCoverageStore, [121](#)
- \* **api**
  - GSAbstractCoverageStore, [3](#)
  - GSAbstractDataStore, [5](#)
  - GSAbstractDBDataStore, [7](#)
  - GSAbstractStore, [12](#)
  - GSArcGridCoverageStore, [14](#)
  - GSCoverage, [15](#)
  - GSCoverageBand, [17](#)
  - GSCoverageStoreManager, [20](#)
  - GSCoverageView, [27](#)
  - GSDataStoreManager, [29](#)
  - GSDimension, [38](#)
  - GSFeatureDimension, [40](#)
  - GSFeatureType, [42](#)
  - GSGeoPackageDataStore, [44](#)
  - GSGeoTIFFCoverageStore, [46](#)
  - GSIImageMosaicCoverageStore, [47](#)
  - GSInputCoverageBand, [48](#)
  - GSLayer, [50](#)
  - GSLayerGroup, [55](#)
  - GSLayerManager, [59](#)
  - GSManager, [62](#)
  - GSMetadataLink, [66](#)
  - GSNamespace, [68](#)
  - GSNamespaceManager, [70](#)
  - GSOracleNGDataStore, [72](#)
  - GSPostGISDataStore, [74](#)
  - GSPublishable, [75](#)
  - GSResource, [77](#)
  - GSRESTEntrySet, [83](#)
  - GSRESTResource, [85](#)

- GSServiceManager, 86
  - GSServiceSettings, 91
  - GSShapefileDataStore, 95
  - GSShapefileDirectoryDataStore, 98
  - GSStyleManager, 101
  - GSUtils, 104
  - GSVersion, 106
  - GSVirtualTable, 108
  - GSVirtualTableGeometry, 111
  - GSVirtualTableParameter, 112
  - GSWorkspace, 114
  - GSWorkspaceManager, 115
  - GSWorkspaceSettings, 118
  - GSWorldImageCoverageStore, 121
- \* **coverageBand**
  - GSCoverageBand, 17
- \* **coverageType**
  - GSCoverage, 15
- \* **coverageView**
  - GSCoverageView, 27
- \* **coverage**
  - GSLayer, 50
  - GSLayerGroup, 55
- \* **database**
  - GSAbstractDBDataStore, 7
- \* **dimension**
  - GSDimension, 38
  - GSFeatureDimension, 40
- \* **directory**
  - GSShapefileDirectoryDataStore, 98
- \* **entryset**
  - GSRESTEntrySet, 83
- \* **featureType**
  - GSFeatureType, 42
  - GSLayer, 50
  - GSLayerGroup, 55
- \* **geoserver**
  - GSAbstractCoverageStore, 3
  - GSAbstractDataStore, 5
  - GSAbstractDBDataStore, 7
  - GSAbstractStore, 12
  - GSArcGridCoverageStore, 14
  - GSCoverage, 15
  - GSCoverageBand, 17
  - GSCoverageStoreManager, 20
  - GSCoverageView, 27
  - GSDataStoreManager, 29
  - GSDimension, 38
  - GSFeatureDimension, 40
  - GSFeatureType, 42
  - GSGeoPackageDataStore, 44
  - GSGeoTIFFCoverageStore, 46
  - GSIImageMosaicCoverageStore, 47
  - GSInputCoverageBand, 48
  - GSLayer, 50
  - GSLayerGroup, 55
  - GSLayerManager, 59
  - GSManager, 62
  - GSMetadataLink, 66
  - GSNamespace, 68
  - GSNamespaceManager, 70
  - GSOracleNGDataStore, 72
  - GSPostGISDataStore, 74
  - GSPublishable, 75
  - GSResource, 77
  - GSRESTEntrySet, 83
  - GSRESTResource, 85
  - GSServiceManager, 86
  - GSServiceSettings, 91
  - GSShapefileDataStore, 95
  - GSShapefileDirectoryDataStore, 98
  - GSShinyMonitor, 100
  - GSStyleManager, 101
  - GSUtils, 104
  - GSVersion, 106
  - GSVirtualTable, 108
  - GSVirtualTableGeometry, 111
  - GSVirtualTableParameter, 112
  - GSWorkspace, 114
  - GSWorkspaceManager, 115
  - GSWorkspaceSettings, 118
  - GSWorldImageCoverageStore, 121
- \* **group**
  - GSLayerGroup, 55
  - GSPublishable, 75
- \* **inputCoverageBand**
  - GSInputCoverageBand, 48
- \* **layer**
  - GSLayer, 50
  - GSLayerGroup, 55
  - GSPublishable, 75
- \* **metadataLink**
  - GSMetadataLink, 66
- \* **monitoring**
  - GSShinyMonitor, 100
- \* **namespace**

- GSNamespace, 68
  - GSNamespaceManager, 70
  - \* **publishable**
    - GSPublishable, 75
  - \* **resource**
    - GSLayer, 50
  - \* **resource**
    - GSCoverage, 15
    - GSDimension, 38
    - GSFeatureDimension, 40
    - GSFeatureType, 42
    - GSLayer, 50
    - GSLayerGroup, 55
    - GSMetadataLink, 66
    - GSPublishable, 75
    - GSResource, 77
  - \* **rest**
    - GSAbstractCoverageStore, 3
    - GSAbstractDataStore, 5
    - GSAbstractDBDataStore, 7
    - GSAbstractStore, 12
    - GSArcGridCoverageStore, 14
    - GSCoverage, 15
    - GSCoverageBand, 17
    - GSCoverageStoreManager, 20
    - GSCoverageView, 27
    - GSDataStoreManager, 29
    - GSDimension, 38
    - GSFeatureDimension, 40
    - GSFeatureType, 42
    - GSGeoPackageDataStore, 44
    - GSGeoTIFFCoverageStore, 46
    - GSIImageMosaicCoverageStore, 47
    - GSInputCoverageBand, 48
    - GSLayer, 50
    - GSLayerGroup, 55
    - GSLayerManager, 59
    - GSManager, 62
    - GSMetadataLink, 66
    - GSNamespace, 68
    - GSNamespaceManager, 70
    - GSOracleNGDataStore, 72
    - GSPostGISDataStore, 74
    - GSPublishable, 75
    - GSResource, 77
    - GSRESTEntrySet, 83
    - GSRESTResource, 85
    - GSServiceManager, 86
    - GSServiceSettings, 91
    - GSShapefileDataStore, 95
    - GSShapefileDirectoryDataStore, 98
    - GSStyleManager, 101
    - GSUtils, 104
    - GSVersion, 106
    - GSVirtualTable, 108
    - GSVirtualTableGeometry, 111
    - GSVirtualTableParameter, 112
    - GSWorkspace, 114
    - GSWorkspaceManager, 115
    - GSWorkspaceSettings, 118
    - GSWorldImageCoverageStore, 121
  - \* **service**
    - GSServiceManager, 86
    - GSServiceSettings, 91
  - \* **settings**
    - GSWorkspaceSettings, 118
  - \* **shapefile**
    - GSShapefileDataStore, 95
    - GSShapefileDirectoryDataStore, 98
  - \* **store**
    - GSAbstractStore, 12
  - \* **style**
    - GSLayer, 50
    - GSStyleManager, 101
  - \* **version**
    - GSVersion, 106
  - \* **virtualTable**
    - GSVirtualTable, 108
    - GSVirtualTableGeometry, 111
    - GSVirtualTableParameter, 112
  - \* **workspace**
    - GSWorkspace, 114
    - GSWorkspaceManager, 115
    - GSWorkspaceSettings, 118
- geosapi, 3
- geosapi-package (geosapi), 3
- geosapi::GSAbstractCoverageStore, 14, 46, 47, 121
- geosapi::GSAbstractDataStore, 7, 45, 73, 74, 96, 98
- geosapi::GSAbstractDBDataStore, 45, 73, 74
- geosapi::GSAbstractStore, 4, 5, 7, 14, 45–47, 73, 74, 96, 98, 121
- geosapi::GSDimension, 40

- geosapi::GSManager, [20](#), [29](#), [59](#), [70](#), [87](#), [102](#), [115](#)
- geosapi::GSResource, [15](#), [42](#)
- geosapi::GSRESTResource, [4](#), [5](#), [7](#), [12](#), [14](#), [15](#), [17](#), [27](#), [38](#), [40](#), [42](#), [45–47](#), [49](#), [51](#), [53](#), [55](#), [67](#), [68](#), [73–75](#), [78](#), [83](#), [92](#), [96](#), [98](#), [108](#), [111](#), [112](#), [114](#), [118](#), [121](#)
- geosapi::GSShapefileDataStore, [98](#)
- GSAbstractCoverageStore, [3](#), [4](#), [21](#), [22](#)
- GSAbstractDataStore, [5](#), [6](#), [21](#), [30](#), [31](#)
- GSAbstractDBDataStore, [7](#)
- GSAbstractStore, [12](#)
- GSArcGridCoverageStore, [14](#)
- GSCoverage, [15](#), [16](#), [22](#), [23](#)
- GSCoverageBand, [17](#), [18](#), [28](#), [29](#)
- GSCoverageStoreManager, [20](#), [66](#)
- GSCoverageView, [16](#), [27](#), [27](#)
- GSDataStoreManager, [29](#), [65](#)
- GSDimension, [38](#), [39](#)
- GSFeatureDimension, [40](#), [41](#)
- GSFeatureType, [32](#), [33](#), [42](#), [42](#)
- GSGeoPackageDataStore, [44](#)
- GSGeoTIFFCoverageStore, [46](#)
- GSImageMosaicCoverageStore, [47](#)
- GSInputCoverageBand, [19](#), [48](#), [49](#)
- GSLayer, [33](#), [50](#), [51](#), [60](#)
- GSLayerGroup, [55](#), [56](#), [61](#)
- GSLayerManager, [59](#)
- GSManager, [62](#), [100](#)
- GSMetadataLink, [58](#), [66](#), [67](#), [81](#)
- GSNamespace, [68](#), [69–71](#)
- GSNamespaceManager, [65](#), [70](#), [116](#)
- GSOracleNGDataStore, [72](#)
- GSPostGISDataStore, [74](#)
- GSPublishable, [75](#), [75](#)
- GSResource, [77](#), [79](#)
- GSRESEntrySet, [6](#), [83](#), [83](#)
- GSRESTResource, [85](#), [85](#)
- GSServiceManager, [66](#), [86](#)
- GSServiceSettings, [88](#), [89](#), [91](#), [93](#)
- GSShapefileDataStore, [95](#)
- GSShapefileDirectoryDataStore, [98](#)
- GSShinyMonitor, [100](#)
- GSStyle, [52](#), [53](#), [102](#), [103](#)
- GSStyle (GSLayer), [50](#)
- GSStyleManager, [66](#), [101](#)
- GSUtils, [104](#)
- GSVersion, [106](#), [106](#)
- GSVirtualTable, [43](#), [108](#), [109](#)
- GSVirtualTableGeometry, [110](#), [111](#), [111](#)
- GSVirtualTableParameter, [110](#), [112](#), [113](#)
- GSWorkspace, [57](#), [114](#), [114](#), [116](#)
- GSWorkspaceManager, [65](#), [115](#)
- GSWorkspaceSettings, [117](#), [118](#)
- GSWorldImageCoverageStore, [121](#)
- R6Class, [3](#), [5](#), [7](#), [12](#), [14](#), [15](#), [17](#), [20](#), [27](#), [29](#), [38](#), [40](#), [42](#), [44](#), [46](#), [47](#), [49–51](#), [55](#), [59](#), [62](#), [66–68](#), [70](#), [72](#), [74](#), [75](#), [77](#), [83](#), [85](#), [86](#), [91](#), [95](#), [98](#), [100](#), [101](#), [104–106](#), [108](#), [111](#), [112](#), [114](#), [115](#), [118](#), [121](#)
- XMLInternalNode-class, [4](#), [6](#), [8](#), [13](#), [14](#), [16](#), [18](#), [28](#), [39](#), [41–43](#), [45](#), [47–49](#), [51](#), [52](#), [54](#), [56](#), [67](#), [69](#), [73](#), [74](#), [76](#), [79](#), [83–86](#), [93](#), [96](#), [98](#), [104](#), [109](#), [111–114](#), [119](#), [121](#)