# CatalogueDataObject

You can directly use instance of this class. [catalogueDataObject](../../../variable/index.html#static-variable-catalogueDataObject)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

Creates the Catalogue Data Object

## Member Summary

Public Members public get

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-description): \*

public set

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-description): \*

public get

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-guid): \*

public set

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-guid): \*

public get

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-language): \*

public set

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-language): \*

public get

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-objectName): \*

public set

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-objectName): \*

public set

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-signature)(signature: \*): \*

Set the signature to enables integrity and authenticity verification

public get

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-signature): \*

public set

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackage): \*

public get

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackage): \*

public get

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackageURL): \*

public set

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackageURL): \*

public set

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-type): \*

public get

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-type): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber18)

Creates the Catalogue Data Object

#### Params:

Name Type Attribute Description guid \* Global Unique identifier of the Catalogue Object (e.g. Hyperty descriptor, ProtocolStub descriptor, etc) enabling the same object to be stored and discovered in different Catalogues. That means, guid corresponds to [resource-type-id] per BNF of Resource Path. Couldn’t we have problems with too long URL paths?

type \* indicates the type of Catalogue Data Object e.g. Hyperty, ProtocolStub, etc

objectName \* human-understandable name of the catalogue object e.g. “My Awesome Hyperty”

description \* description of the source package

language \* the programming language used in the SourcePackage.SourceCode

sourcePackageURL \* A string containing the URL from where the source code package of the corresponding catalogue object, e.g. deployable packages containing executable code for Hyperties or ProtoStubs, can be downloaded

## Public Members

### public get description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber43)

### public set description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber94)

### public get guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber31)

### public set guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber79)

### public get language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber47)

### public set language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber99)

### public get objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber39)

### public set objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber89)

### public set signature(signature: \*): \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber69)

Set the signature to enables integrity and authenticity verification

### public get signature: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber51)

### public set sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber74)

### public get sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber55)

### public get sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber59)

### public set sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber104)

### public set type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber84)

### public get type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber35)

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You can directly use instance of this class. [catalogueDataObjectFactory](../../../variable/index.html#static-variable-catalogueDataObjectFactory)

#### Extends:

src/reTHINKObject/RethinkObject~RethinkObject → CatalogueDataObjectFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor

## Method Summary

Public Methods public

[createCatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createCatalogueDataObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html)

Create CatalogueDataObject

public

[createDataObjectSchema](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createDataObjectSchema)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html)

Create DataObjectSchema

public

[createHypertyDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html)

Create HypertyDescriptor

public

[createHypertyRuntimeDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyRuntimeDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html)

Create HypertyRuntimeDescriptor

public

[createPolicyEnforcerDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createPolicyEnforcerDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html)

Create PolicyEnforcerDescriptor

public

[createProtoStubDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createProtoStubDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html)

Create ProtocolStubDescriptor

public

[createSourcePackage](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createSourcePackage)(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html)

Create SourcePackage

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber29)

Constructor

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the schema

## Public Methods

### public createCatalogueDataObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber43)

Create CatalogueDataObject

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

type [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType) Indicates the type of Catalogue Data Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) |

### public createDataObjectSchema(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber179)

Create DataObjectSchema

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) |

### public createHypertyDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber67)

Create HypertyDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

hypertyType int A tag that identifies what type of hyperty is described in the object.

dataObjects URL.URLList Defines the Data Object Schemas supported by the Hyperty through a list of Catalogue URLs from where these schemas can be reached.

#### Return:

|  |
| --- |
| [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) |

### public createHypertyRuntimeDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber124)

Create HypertyRuntimeDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

runtimeType \* hypertyCapabilities \* Supported capabilities to execute Hyperties

protocolCapabilities \* Supported capabilities to execute Protocol Stubs

#### Return:

|  |
| --- |
| [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) |

### public createPolicyEnforcerDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber153)

Create PolicyEnforcerDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

configuration \* policies \*

#### Return:

|  |
| --- |
| [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) |

### public createProtoStubDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber95)

Create ProtocolStubDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

messageSchemas URL.URL Defines the Schema describing the Message Data Model used by the Hyperty through the Catalogue URL from where the Message schema can be reached. If not defined, by default it is assumed the standard Message Model is used.

configuration \* Data required to configure the ProtocolStub

constraints \* Describes capabilities required from the Hyperty Runtime in order to be able to execute the ProtocolStub

#### Return:

|  |
| --- |
| [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) |

### public createSourcePackage(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber198)

Create SourcePackage

#### Params:

Name Type Attribute Description sourceCodeClassname \* The Class-name of the SourceCode

sourceCode \* The source code of the catalogue object

#### Return:

|  |
| --- |
| [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) |

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* catalogue-factory
* C[CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html)
* C[CatalogueDataObjectFactory](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html)
* C[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html)
* C[ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html)
* C[ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html)
* C[DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html)
* C[HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html)
* C[IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)
* C[MessageDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html)
* C[HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html)
* C[HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html)
* C[PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html)
* C[ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html)
* C[RuntimeConstraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html)
* C[SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html)
* V[CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType)
* V[DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage)
* V[catalogueDataObject](../../../variable/index.html#static-variable-catalogueDataObject)
* V[catalogueDataObjectFactory](../../../variable/index.html#static-variable-catalogueDataObjectFactory)
* V[dataObjectSchema](../../../variable/index.html#static-variable-dataObjectSchema)
* V[HypertyType](../../../variable/index.html#static-variable-HypertyType)
* V[RuntimeHypertyCapabilityType](../../../variable/index.html#static-variable-RuntimeHypertyCapabilityType)
* V[hypertyDescriptor](../../../variable/index.html#static-variable-hypertyDescriptor)
* V[RuntimeHypertyCapabilityType](../../../variable/index.html#static-variable-RuntimeHypertyCapabilityType)
* V[RuntimeProtocolCapabilityType](../../../variable/index.html#static-variable-RuntimeProtocolCapabilityType)
* V[RuntimeType](../../../variable/index.html#static-variable-RuntimeType)
* V[hypertyRuntimeDescriptor](../../../variable/index.html#static-variable-hypertyRuntimeDescriptor)
* V[policyEnforcerDescriptor](../../../variable/index.html#static-variable-policyEnforcerDescriptor)
* V[protocolStubDescriptor](../../../variable/index.html#static-variable-protocolStubDescriptor)
* V[runtimeConstraint](../../../variable/index.html#static-variable-runtimeConstraint)
* V[sourcePackage](../../../variable/index.html#static-variable-sourcePackage)
* hyperty
* C[Connection](../../../class/src/hyperty/Connection.js~Connection.html)
* C[ConnectionController](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html)
* C[OwnerPeer](../../../class/src/hyperty/OwnerPeer.js~OwnerPeer.html)
* C[Peer](../../../class/src/hyperty/Peer.js~Peer.html)
* F[activate](../../../function/index.html#static-function-activate)
* V[connection](../../../variable/index.html#static-variable-connection)
* V[connectionController](../../../variable/index.html#static-variable-connectionController)
* V[ownerPeer](../../../variable/index.html#static-variable-ownerPeer)
* V[peer](../../../variable/index.html#static-variable-peer)
* hyperty-discovery
* C[HypertyDiscovery](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html)
* V[hypertyDiscovery](../../../variable/index.html#static-variable-hypertyDiscovery)
* message-factory
* C[Message](../../../class/src/message-factory/Message.js~Message.html)
* C[CreateMessageBody](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html)
* C[DeleteMessageBody](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html)
* C[ForwardMessageBody](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html)
* C[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)
* C[ReadMessageBody](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html)
* C[ResponseMessageBody](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html)
* C[UpdateMessageBody](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html)
* C[IdGenerator](../../../class/src/message-factory/MessageFactory.js~IdGenerator.html)
* C[MessageFactory](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html)
* F[Enum](../../../function/index.html#static-function-Enum)
* V[MessageType](../../../variable/index.html#static-variable-MessageType)
* V[REASON\_PHRASE](../../../variable/index.html#static-variable-REASON_PHRASE)
* V[RESPONSE\_CODE](../../../variable/index.html#static-variable-RESPONSE_CODE)
* V[messageFactory](../../../variable/index.html#static-variable-messageFactory)
* reTHINKObject
* C[RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html)
* syncher
* C[DataObject](../../../class/src/syncher/DataObject.js~DataObject.html)
* C[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)
* C[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)
* C[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)
* C[Syncher](../../../class/src/syncher/Syncher.js~Syncher.html)
* V[dataObject](../../../variable/index.html#static-variable-dataObject)
* V[dataObjectChild](../../../variable/index.html#static-variable-dataObjectChild)
* V[dataObjectObserver](../../../variable/index.html#static-variable-dataObjectObserver)
* V[dataObjectReporter](../../../variable/index.html#static-variable-dataObjectReporter)
* V[dataProvisional](../../../variable/index.html#static-variable-dataProvisional)
* V[ChangeType](../../../variable/index.html#static-variable-ChangeType)
* V[ObjectType](../../../variable/index.html#static-variable-ObjectType)
* V[syncObject](../../../variable/index.html#static-variable-syncObject)
* V[syncher](../../../variable/index.html#static-variable-syncher)
* utils
* C[EventEmitter](../../../class/src/utils/EventEmitter.js~EventEmitter.html)
* F[deepClone](../../../function/index.html#static-function-deepClone)
* F[divideURL](../../../typedef/index.html#static-typedef-divideURL)
* V[eventEmitter](../../../variable/index.html#static-variable-eventEmitter)
* T[divideURL](../../../typedef/index.html#static-typedef-divideURL)

import Connection from 'service-framework/src/hyperty/Connection.js'

public class | [source](../../../file/src/hyperty/Connection.js.html#lineNumber29)

# Connection

You can directly use instance of this class. [connection](../../../variable/index.html#static-variable-connection)

#### Extends:

[Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) → Connection

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Connection.js~Connection.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Connection.js.html#lineNumber31)

Generated by [ESDoc(0.4.3)](https://esdoc.org) ConnectionController {#connectioncontroller data-ice=“name”} ====================

You can directly use instance of this class. [connectionController](../../../variable/index.html#static-variable-connectionController)

#### Extends:

src/utils/EventEmitter~EventEmitter → ConnectionController

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-constructor-constructor)(syncher: \*)

## Member Summary

Public Members public set

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectObserver)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectObserver): ConnectionDataObject: \*

return the dataObject in the controller

public set

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectReporter)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectReporter): ConnectionDataObject: \*

return the dataObject in the controller

public set

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-remotePeerInformation)(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \*

Set Remote peer information, like Hyperty.

public get

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-remotePeerInformation): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \*

Get information relative to the Remote Peer;

## Method Summary

Public Methods public

[accept](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-accept)(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to accept an incoming connection request.

public

[addPeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-addPeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

public

[changePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-changePeerInformation)(dataObjectObserver: \*)

public

[createAnswer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createAnswer)()

public

[createOffer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createOffer)()

public

[decline](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-decline)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to decline an incoming connection request.

public

[disableCam](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableCam)(): \*

public

[disableMic](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableMic)(): \*

public

[disconnect](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disconnect)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to close an existing connection instance.

public

[getUserMedia](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-getUserMedia)(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Get WebRTC API resources

public

[infoError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-infoError)(err: \*)

public

[mute](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-mute)(): \*

public

[onLocalSessionCreated](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-onLocalSessionCreated)(description: \*)

public

[processPeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-processPeerInformation)(data: \*)

public

[remoteDescriptionError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionError)(error: \*)

public

[remoteDescriptionSuccess](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionSuccess)()

public

[removePeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-removePeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to remove a peer from an existing connection instance.

## Public Constructors

### public constructor(syncher: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber14)

#### Params:

Name Type Attribute Description syncher \*

## Public Members

### public set dataObjectObserver(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber160)

Set the dataObject in the controller

### public get dataObjectObserver: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber173)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set dataObjectReporter(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber112)

Set the dataObject in the controller

### public get dataObjectReporter: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber151)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set remotePeerInformation(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber94)

Set Remote peer information, like Hyperty.

### public get remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber103)

Get information relative to the Remote Peer;

#### Return:

|  |  |
| --- | --- |
| [Object](https://developer.moz%20%20illa.org/en-US/docs/Web/JavaScrip%20t/R%20eference/Global_Objects/Object)</spa n> | remotePeerInformation; |

## Public Methods

### public accept(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber294)

Used to accept an incoming connection request.

#### Params:

Name Type Attribute Description options \*

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public addPeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber382)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public changePeerInformation(dataObjectObserver: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber200)

#### Params:

Name Type Attribute Description dataObjectObserver \*

### public createAnswer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber255)

### public createOffer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber246)

### public decline(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber334)

Used to decline an incoming connection request.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public disableCam(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber415)

#### Return:

|  |
| --- |
| \* |

### public disableMic(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber396)

#### Return:

|  |
| --- |
| \* |

### public disconnect(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber356)

Used to close an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public getUserMedia(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber183)

Get WebRTC API resources

#### Params:

Name Type Attribute Description options [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) Object containing the information that resources will be used (camera, mic, resolution, etc);

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public infoError(err: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber285)

#### Params:

Name Type Attribute Description err \*

### public mute(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber434)

#### Return:

|  |
| --- |
| \* |

### public onLocalSessionCreated(description: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber263)

#### Params:

Name Type Attribute Description description \*

### public processPeerInformation(data: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber213)

#### Params:

Name Type Attribute Description data \*

### public remoteDescriptionError(error: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber242)

#### Params:

Name Type Attribute Description error \*

### public remoteDescriptionSuccess() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber238)

### public removePeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber391)

Used to remove a peer from an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObject {#dataobject data-ice=“name”} ==========

You can directly use instance of this class. [dataObject](../../../variable/index.html#static-variable-dataObject)

## Member Summary

Public Members public get

[children](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-children): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

public get

[data](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data structure to be synchronized.

public get

[schema](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-schema): SchemaURL

Object schema URL (this field is not yet stable, and is subsject to change)

public get

[status](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-status): Status

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

public get

[url](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-url): ObjectURL

Object URL of reporter or observer

## Method Summary

Public Methods public

[addChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-addChildren)(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

Create and add a children to the subscription group.

public

[onAddChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-onAddChildren)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete childrens

## Public Members

### public get children: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber88)

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObject.js.html#lineNumber82)

Data structure to be synchronized.

### public get schema: SchemaURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber70)

Object schema URL (this field is not yet stable, and is subsject to change)

### public get status: Status [source](../../../file/src/syncher/DataObject.js.html#lineNumber76)

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

### public get url: ObjectURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber64)

Object URL of reporter or observer

## Public Methods

### public addChildren(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber127)

Create and add a children to the subscription group.

#### Params:

Name Type Attribute Description resource [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Resource name, one of the items in the schema.properties.scheme of the parent object.

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the child

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectChild](.%20./.%20./../class/src/syncher/DataObj%20ectChi%20ld.js~DataObjectChild.html) &g t; | Return Promise to a new Children. |

### public onAddChildren(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObject.js.html#lineNumber160)

Setup the callback to process create and delete childrens

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectChild {#dataobjectchild data-ice=“name”} ===============

You can directly use instance of this class. [dataObjectChild](../../../variable/index.html#static-variable-dataObjectChild)

## Member Summary

Public Members public get

[childId](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-childId): URL

Children ID generated on addChildren.

public get

[data](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data Structure to be synchronized.

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onChange)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter child

public

[onResponse](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the creates

## Public Members

### public get childId: URL [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber35)

Children ID generated on addChildren. Unique identifier

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber41)

Data Structure to be synchronized.

## Public Methods

### public onChange(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber47)

Register the change listeners sent by the reporter child

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber57)

Setup the callback to process response notifications of the creates

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectObserver {#dataobjectobserver data-ice=“name”} ==================

You can directly use instance of this class. [dataObjectObserver](../../../variable/index.html#static-variable-dataObjectObserver)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectObserver

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html#instance-method-onChange)(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter

## Public Methods

### public onChange(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectObserver.js.html#lineNumber38)

Register the change listeners sent by the reporter

#### Params:

Name Type Attribute Description filter [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Filter that identifies the field (separeted dot path). Accepts \* at the end for a more unrestricted filtering.

callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectReporter {#dataobjectreporter data-ice=“name”} ==================

You can directly use instance of this class. [dataObjectReporter](../../../variable/index.html#static-variable-dataObjectReporter)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectReporter

## Member Summary

Public Members public get

[subscriptions](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-get-subscriptions): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription>

Subscriptions requested and accepted to this reporter

## Method Summary

Public Methods public

[onResponse](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the create’s

public

[onSubscription](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onSubscription)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process subscribe and unsubscribe notifications

## Public Members

### public get subscriptions: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription> [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber38)

Subscriptions requested and accepted to this reporter

## Public Methods

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber52)

Setup the callback to process response notifications of the create’s

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onSubscription(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber44)

Setup the callback to process subscribe and unsubscribe notifications

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) CommunicationDataObjectSchema {#communicationdataobjectschema data-ice=“name”} =============================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → CommunicationDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber31)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) ConnectionDataObjectSchema {#connectiondataobjectschema data-ice=“name”} ==========================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ConnectionDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber37)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) ContextDataObjectSchema {#contextdataobjectschema data-ice=“name”} =======================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ContextDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber49)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectSchema {#dataobjectschema data-ice=“name”} ================

You can directly use instance of this class. [dataObjectSchema](../../../variable/index.html#static-variable-dataObjectSchema)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → DataObjectSchema

#### Direct Subclass:

[HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html), [MessageDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html)

#### Indirect Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyDataObjectSchema {#hypertydataobjectschema data-ice=“name”} =======================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → HypertyDataObjectSchema

#### Direct Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber23)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) IdentifyDataObjectSchema {#identifydataobjectschema data-ice=“name”} ========================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → IdentifyDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber43)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) MessageDataObjectSchema {#messagedataobjectschema data-ice=“name”} =======================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → MessageDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber17)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) EventEmitter {#eventemitter data-ice=“name”} ============

You can directly use instance of this class. [eventEmitter](../../../variable/index.html#static-variable-eventEmitter)

EventEmitter All classes which extends this, can have addEventListener and trigger events;

## Method Summary

Public Methods public

[addEventListener](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-addEventListener)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function))

addEventListener listen for an eventType

public

[trigger](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-trigger)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object))

Invoke the eventType

## Public Methods

### public addEventListener(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber12)

addEventListener listen for an eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) listening for this type of event

cb [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function) callback function will be executed when the event it is invoked

### public trigger(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber22)

Invoke the eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) event will be invoked

params [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) parameters will be passed to the addEventListener

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyDescriptor {#hypertydescriptor data-ice=“name”} =================

You can directly use instance of this class. [hypertyDescriptor](../../../variable/index.html#static-variable-hypertyDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-constraints): \*

public get

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-dataObjects): \*

public set

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-dataObjects): \*

public set

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-hypertyType): \*

public get

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-hypertyType): \*

public get

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-messageSchema): \*

public set

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-messageSchema): \*

public get

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*) [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* hypertyType \* dataObjects \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber28)

### public set configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber54)

### public get constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber32)

### public set constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber59)

### public get dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber24)

### public set dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber49)

### public set hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber44)

### public get hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber20)

### public get messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber36)

### public set messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber64)

### public get policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber40)

### public set policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber69)

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyDiscovery {#hypertydiscovery data-ice=“name”} ================

You can directly use instance of this class. [hypertyDiscovery](../../../variable/index.html#static-variable-hypertyDiscovery)

Core HypertyDiscovery interface Hyperty Discovery class provides the functionality to query hyperties instances registered in Domain registry\* for a given user

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-constructor-constructor)(runtimeURL: RuntimeURL, msgBus: MessageBus)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

## Method Summary

Public Methods public

[discoverHypertyPerUser](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-method-discoverHypertyPerUser)(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Function to request about users registered in domain registry, and return the hyperty instance if found.

## Public Constructors

### public constructor(runtimeURL: RuntimeURL, msgBus: MessageBus) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber14)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

#### Params:

Name Type Attribute Description runtimeURL RuntimeURL runtimeURL

msgBus MessageBus msgBus

## Public Methods

### public discoverHypertyPerUser(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber28)

Function to request about users registered in domain registry, and return the hyperty instance if found.

#### Params:

Name Type Attribute Description userIdentifier Identity.Identity

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan> | Promise |

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyRuntimeDescriptor {#hypertyruntimedescriptor data-ice=“name”} ========================

You can directly use instance of this class. [hypertyRuntimeDescriptor](../../../variable/index.html#static-variable-hypertyRuntimeDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyRuntimeDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*)

## Member Summary

Public Members public get

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-hypertyCapabilities): \*

public set

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-hypertyCapabilities): \*

public get

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-protocolCapabilities): \*

public set

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-protocolCapabilities): \*

public get

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-runtimeType): \*

public set

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-runtimeType): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*) [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* runtimeType \* hypertyCapabilities \* protocolCapabilities \*

## Public Members

### public get hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber29)

### public set hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber42)

### public get protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber33)

### public set protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber47)

### public get runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber25)

### public set runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber37)

Generated by [ESDoc(0.4.3)](https://esdoc.org) Message {#message data-ice=“name”} =======

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/Message.js~Message.html#instance-constructor-constructor)(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html))

Generates a message data object

## Member Summary

Public Members public get

[body](../../../class/src/message-factory/Message.js~Message.html#instance-get-body): [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)

The Message body

public set

[body](../../../class/src/message-factory/Message.js~Message.html#instance-set-body)(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \*

set the message body

public get

[from](../../../class/src/message-factory/Message.js~Message.html#instance-get-from): URL.URL

The sender of the Message.

public set

[from](../../../class/src/message-factory/Message.js~Message.html#instance-set-from)(sender: URL.URL): \*

set the sender of the Message

public get

[id](../../../class/src/message-factory/Message.js~Message.html#instance-get-id): [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)

The Message identifier.

public get

[to](../../../class/src/message-factory/Message.js~Message.html#instance-get-to): URL.URLList

The recipient of the Message.

public set

[to](../../../class/src/message-factory/Message.js~Message.html#instance-set-to)(recipientList: URL.URLList): \*

set the list of recipients

public get

[type](../../../class/src/message-factory/Message.js~Message.html#instance-get-type): [MessageType](../../../variable/index.html#static-variable-MessageType)

The Message type.

public set

[type](../../../class/src/message-factory/Message.js~Message.html#instance-set-type)(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \*

set the message type

## Method Summary

Public Methods public

[addAccessToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addAccessToken)(token: Identity.JWT): Message.Message

Add an access token to the given message

public

[addIdToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addIdToken)(token: Identity.JWT): Message.Message

Adds an Id token to the given message

public

[assertIdentity](../../../class/src/message-factory/Message.js~Message.html#instance-method-assertIdentity)(token: Identity.JWT, identity: Identity.Identity): Message.Message

Adds the asserted identity to the message body and removes the given token from the message

## Public Constructors

### public constructor(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)) [source](../../../file/src/message-factory/Message.js.html#lineNumber23)

Generates a message data object

#### Params:

Name Type Attribute Description id [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) To be used to associate Response messages to the initial request message.

from URL.URL URL of Hyperty instance or User associated with it

toList URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

type [MessageType](../../../variable/index.html#static-variable-MessageType) The URL of the reTHINK Data Object Resource associated with the message that can be used for routing purposes

body [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) Optionally, all message bodies exchanged between different Runtime Messge BUS can contain JWT tokens for Access Control for Identity Assertion purposes that are inserted by the Identity Module before the message is routed to proto stubs

## Public Members

### public get body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) [source](../../../file/src/message-factory/Message.js.html#lineNumber60)

The Message body

### public set body(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber84)

set the message body

### public get from: URL.URL [source](../../../file/src/message-factory/Message.js.html#lineNumber42)

The sender of the Message.

### public set from(sender: URL.URL): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber66)

set the sender of the Message

### public get id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) [source](../../../file/src/message-factory/Message.js.html#lineNumber36)

The Message identifier.

### public get to: URL.URLList [source](../../../file/src/message-factory/Message.js.html#lineNumber48)

The recipient of the Message.

### public set to(recipientList: URL.URLList): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber93)

set the list of recipients

### public get type: [MessageType](../../../variable/index.html#static-variable-MessageType) [source](../../../file/src/message-factory/Message.js.html#lineNumber54)

The Message type.

### public set type(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber75)

set the message type

## Public Methods

### public addAccessToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber136)

Add an access token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT token to be added to the given message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated Message |

### public addIdToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber122)

Adds an Id token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT identity token to include in the message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated message |

### public assertIdentity(token: Identity.JWT, identity: Identity.Identity): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber104)

Adds the asserted identity to the message body and removes the given token from the message

#### Params:

Name Type Attribute Description token Identity.JWT idToken to remove from message

identity Identity.Identity asserted identity to include

#### Return:

|  |  |
| --- | --- |
| Message.Message | message - updated message |

Generated by [ESDoc(0.4.3)](https://esdoc.org) CreateMessageBody {#createmessagebody data-ice=“name”} =================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → CreateMessageBody

Class representation of the CreateMessageBody object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-constructor-constructor)(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-policy): \*

public set

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-policy): \*

public get

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-value): \*

public set

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-value): \*

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber123)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format.

policy URL.URL URL from where access policy control can be downloaded

idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber139)

### public set policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber141)

### public get value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber132)

### public set value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber134)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DeleteMessageBody {#deletemessagebody data-ice=“name”} =================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → DeleteMessageBody

Class representation of the DeleteMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber193)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

Generated by [ESDoc(0.4.3)](https://esdoc.org) ForwardMessageBody {#forwardmessagebody data-ice=“name”} ==================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ForwardMessageBody

Class representation of the ForwardMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber240)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

message [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be forwarded

Generated by [ESDoc(0.4.3)](https://esdoc.org) MessageBody {#messagebody data-ice=“name”} ===========

#### Direct Subclass:

[CreateMessageBody](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html), [DeleteMessageBody](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html), [ForwardMessageBody](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html), [ReadMessageBody](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html), [ResponseMessageBody](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html), [UpdateMessageBody](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber18)

#### Params:

Name Type Attribute Description idToken Identity.JWT token for Identity assertion purpose

accessToken Identity.JWT token for access control

resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get accessToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber42)

Get the access token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set accessToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber75)

set the access token

### public get assertedIdentity: Identity.Identity: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber60)

Return the asserted Identity

#### Return:

|  |
| --- |
| Identity.Identity |

### public set assertedIdentity(assertedIdentity: Identity.Identity): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber102)

set the asserted identity

### public get idToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber36)

Get the id token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set idToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber66)

set the token identifier

### public get resource: URL.URL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber48)

The the resource URL

#### Return:

|  |
| --- |
| URL.URL |

### public set resource: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber84)

set the resource

### public get schema: URL.HypertyCatalogueURL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber54)

Return the URL of the schema on the HypertyCatalogue

#### Return:

|  |
| --- |
| URL.HypertyCatalogueURL |

### public set schema(schema: URL.HypertyCatalogueURL): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber93)

set the schema URL

Generated by [ESDoc(0.4.3)](https://esdoc.org) ReadMessageBody {#readmessagebody data-ice=“name”} ===============

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ReadMessageBody

Class representation of the ReadMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber164)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the objec

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be read (optional)

criteriaSyntax [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria syntax used in criteria field. To be used for search purposes. Valid criteria Syntax are: “key-value”, “mongodb”, “sql”(?), …

criteria [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria to be used for search purposes. Syntax used to define the criteria is set in the criteriaSyntax.

Generated by [ESDoc(0.4.3)](https://esdoc.org) ResponseMessageBody {#responsemessagebody data-ice=“name”} ===================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ResponseMessageBody

Class representation of the ResponseMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*)

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber263)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

code \* A response code compliant with HTTP response codes (RFC7231)

value \* Contains a data value in JSON format. Applicable to Responses to READ MessageType.

Generated by [ESDoc(0.4.3)](https://esdoc.org) UpdateMessageBody {#updatemessagebody data-ice=“name”} =================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → UpdateMessageBody

Class representation of the UpdateMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber218)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the updated value object in JSON format.

Generated by [ESDoc(0.4.3)](https://esdoc.org) IdGenerator {#idgenerator data-ice=“name”} ===========

Message Identifier Generator that generates the id used to identifier message transactions

## Method Summary

Public Methods public

\* [idMaker](../../../class/src/message-factory/MessageFactory.js~IdGenerator.html#instance-method-idMaker)()

## Public Methods

### public \* idMaker() [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber219)

Generated by [ESDoc(0.4.3)](https://esdoc.org) MessageFactory {#messagefactory data-ice=“name”} ==============

You can directly use instance of this class. [messageFactory](../../../variable/index.html#static-variable-messageFactory)

#### Extends:

[RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) → MessageFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor to be used to instantiate an object of the Message Factory

## Member Summary

Public Members public

[myGenerator](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-member-myGenerator): \*

## Method Summary

Public Methods public

[createCreateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createCreateMessageRequest)(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \*

Creates a Message of TYPE CREATE and Create Message Body

public

[createDeleteMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createDeleteMessageRequest)(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Create Delete Message of Type DELETE and delete message body

public

[createForwardMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createForwardMessageRequest)(from: URL.URL, to-: URL.URLList, message: \*): Message.Message

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

public

[createMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createMessageResponse)(message: \*, code: \*, value: \*, source: \*): \*

Creates the response to the Message

public

[createReadMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createReadMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Creates a Message of type READ

public

[createSubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createSubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type SUBSCRIBE

public

[createUnsubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUnsubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type UNSUBSCRIBE

public

[createUpdateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUpdateMessageRequest)(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message

Creates an Update Message Request

public

[generateMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-generateMessageResponse)(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \*

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

public

[validate](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-validate)(data: \*): \*

Validates the message against the reTHINK Message Data Schema

## Inherited Summary

From class [RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber20)

Constructor to be used to instantiate an object of the Message Factory

#### Override:

[RethinkObject#constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the reTHINK Message Data Schema

## Public Members

### public myGenerator: \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber23)

## Public Methods

### public createCreateMessageRequest(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber44)

Creates a Message of TYPE CREATE and Create Message Body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format

policy URL.URL the sender of this message

#### Return:

|  |
| --- |
| \* |

### public createDeleteMessageRequest(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber83)

Create Delete Message of Type DELETE and delete message body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be deleted

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Delete Message Request |

### public createForwardMessageRequest(from: URL.URL, to-: URL.URLList, message: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber63)

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

message \* {Message.Message} message - the message to be forwarded

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Forward Message Request |

### public createMessageResponse(message: \*, code: \*, value: \*, source: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber177)

Creates the response to the Message

#### Params:

Name Type Attribute Description message \* the message request from which the response should be generated

code \* the response code compliant with HTTP response codes (RFC7231).

value \* contains a data value in JSON format. Applicable to Responses to READ MessageType.

source \* Contains the original creator of the response. Useful to identify the real source of the response to a one-to-many message delivery ie multiple responses coming coming from different sources.

#### Return:

|  |
| --- |
| \* |

### public createReadMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber124)

Creates a Message of type READ

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be read

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Read message request |

### public createSubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber142)

Creates a Message of type SUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUnsubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber159)

Creates a Message of type UNSUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUpdateMessageRequest(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber105)

Creates an Update Message Request

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

{URL.URLList}to \* One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value \* The new value of the attribute to be updated

resource URL.URL URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be updated

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Update message request |

### public generateMessageResponse(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber199)

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

#### Params:

Name Type Attribute Description data [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be updated

code ResponseCode response code compliant with HTTP response codes (RFC7231).

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains a data value in JSON format.

#### Return:

|  |
| --- |
| \* |

### public validate(data: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber31)

Validates the message against the reTHINK Message Data Schema

#### Override:

[RethinkObject#validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| \* |

Generated by [ESDoc(0.4.3)](https://esdoc.org) OwnerPeer {#ownerpeer data-ice=“name”} =========

You can directly use instance of this class. [ownerPeer](../../../variable/index.html#static-variable-ownerPeer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/OwnerPeer.js~OwnerPeer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/OwnerPeer.js.html#lineNumber3)

Generated by [ESDoc(0.4.3)](https://esdoc.org) Peer {#peer data-ice=“name”} ====

You can directly use instance of this class. [peer](../../../variable/index.html#static-variable-peer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Peer.js~Peer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Peer.js.html#lineNumber3)

Generated by [ESDoc(0.4.3)](https://esdoc.org) PolicyEnforcerDescriptor {#policyenforcerdescriptor data-ice=“name”} ========================

You can directly use instance of this class. [policyEnforcerDescriptor](../../../variable/index.html#static-variable-policyEnforcerDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → PolicyEnforcerDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-configuration): \*

public get

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*) [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber7)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* configuration \* policies \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber14)

### public set configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber26)

### public get policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber18)

### public set policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber22)

Generated by [ESDoc(0.4.3)](https://esdoc.org) ProtocolStubDescriptor {#protocolstubdescriptor data-ice=“name”} ======================

You can directly use instance of this class. [protocolStubDescriptor](../../../variable/index.html#static-variable-protocolStubDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → ProtocolStubDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-constraints): \*

public get

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-messageSchemas): \*

public set

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-messageSchemas): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*) [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* messageSchemas \* configuration \* constraints \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber33)

### public set configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber47)

### public get constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber29)

### public set constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber42)

### public get messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber25)

### public set messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber37)

Generated by [ESDoc(0.4.3)](https://esdoc.org) RethinkObject {#rethinkobject data-ice=“name”} =============

#### Direct Subclass:

[MessageFactory](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)(validation: \*, schema: \*)

## Member Summary

Public Members public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

## Method Summary

Public Methods public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: \*, schema: \*) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber5)

#### Params:

Name Type Attribute Description validation \* schema \*

## Public Members

### public schema: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber10)

### public validation: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber9)

## Public Methods

### public validate(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber13)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) |

Generated by [ESDoc(0.4.3)](https://esdoc.org) RuntimeConstraint {#runtimeconstraint data-ice=“name”} =================

You can directly use instance of this class. [runtimeConstraint](../../../variable/index.html#static-variable-runtimeConstraint)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-constructor-constructor)(constraint: \*, runtimeHypertyCapabilityType: \*)

## Member Summary

Public Members public get

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-constraint): \*

public set

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-constraint): \*

public get

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-runtimeHypertyCapabilityType): \*

public set

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-runtimeHypertyCapabilityType): \*

## Public Constructors

### public constructor(constraint: \*, runtimeHypertyCapabilityType: \*) [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber6)

#### Params:

Name Type Attribute Description constraint \* runtimeHypertyCapabilityType \*

## Public Members

### public get constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber11)

### public set constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber19)

### public get runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber15)

### public set runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber24)

Generated by [ESDoc(0.4.3)](https://esdoc.org) SourcePackage {#sourcepackage data-ice=“name”} =============

You can directly use instance of this class. [sourcePackage](../../../variable/index.html#static-variable-sourcePackage)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-constructor-constructor)(sourceCodeClassname: \*, sourceCode: \*)

## Member Summary

Public Members public get

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-encoding): \*

public set

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-encoding): \*

public get

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-signature): \*

public set

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-signature): \*

public get

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCode): \*

public set

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCode): \*

public get

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCodeClassname): \*

public set

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCodeClassname): \*

## Public Constructors

### public constructor(sourceCodeClassname: \*, sourceCode: \*) [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber5)

#### Params:

Name Type Attribute Description sourceCodeClassname \* sourceCode \*

## Public Members

### public get encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber21)

### public set encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber29)

### public get signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber25)

### public set signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber34)

### public get sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber13)

### public set sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber39)

### public get sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber17)

### public set sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber44)

Generated by [ESDoc(0.4.3)](https://esdoc.org) Syncher {#syncher data-ice=“name”} =======

You can directly use instance of this class. [syncher](../../../variable/index.html#static-variable-syncher)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/syncher/Syncher.js~Syncher.html#instance-constructor-constructor)(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON))

Constructor that should be used by the Hyperty owner

## Member Summary

Public Members public get

[observers](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-observers): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

All owned observers, the ones that were created by a local subscription

public get

[owner](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-owner): HypertyURL

The owner of the Syncher and all created reporters.

public get

[reporters](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-reporters): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

All owned reporters, the ones that were created by a create

## Method Summary

Public Methods public

[create](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-create)(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

Request a DataObjectReporter creation.

public

[onNotification](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-onNotification)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete events of remove Reporter objects.

public

[subscribe](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-subscribe)(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

Request a subscription to an existent object.

## Public Constructors

### public constructor(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber30)

Constructor that should be used by the Hyperty owner

#### Params:

Name Type Attribute Description owner HypertyURL Hyperty URL owner

bus MiniBus The internal sandbox MiniBus used by the Hyperty

config [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) The only required field for now is runtimeURL

## Public Members

### public get observers: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber67)

All owned observers, the ones that were created by a local subscription

### public get owner: HypertyURL [source](../../../file/src/syncher/Syncher.js.html#lineNumber55)

The owner of the Syncher and all created reporters.

### public get reporters: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber61)

All owned reporters, the ones that were created by a create

## Public Methods

### public create(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber76)

Request a DataObjectReporter creation. The URL will be be requested by the allocation mechanism.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

observers HypertyURL[] List of hyperties that are pre-authorized for subscription

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the reporter

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectReporter](.%20./../../class/src/syncher/Data%20Object%20Reporter.js~DataObjectRepor%20ter.html) > | Return Promise to a new Reporter. The reporter can be accepted or rejected by the PEP |

### public onNotification(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber147)

Setup the callback to process create and delete events of remove Reporter objects. This is releated to the messagens sent by create to the observers Hyperty array.

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public subscribe(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber110)

Request a subscription to an existent object.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

objURL ObjectURL Address of the existent reporter object

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectObserver](.%20./../../class/src/syncher/Data%20Object%20Observer.js~DataObjectObser%20ver.html) > | Return Promise to a new observer. |

Generated by [ESDoc(0.4.3)](https://esdoc.org) CatalogueDataObject {#cataloguedataobject data-ice=“name”} ===================

You can directly use instance of this class. [catalogueDataObject](../../../variable/index.html#static-variable-catalogueDataObject)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

Creates the Catalogue Data Object

## Member Summary

Public Members public get

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-description): \*

public set

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-description): \*

public get

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-guid): \*

public set

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-guid): \*

public get

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-language): \*

public set

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-language): \*

public get

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-objectName): \*

public set

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-objectName): \*

public set

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-signature)(signature: \*): \*

Set the signature to enables integrity and authenticity verification

public get

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-signature): \*

public set

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackage): \*

public get

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackage): \*

public get

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackageURL): \*

public set

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackageURL): \*

public set

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-type): \*

public get

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-type): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber18)

Creates the Catalogue Data Object

#### Params:

Name Type Attribute Description guid \* Global Unique identifier of the Catalogue Object (e.g. Hyperty descriptor, ProtocolStub descriptor, etc) enabling the same object to be stored and discovered in different Catalogues. That means, guid corresponds to [resource-type-id] per BNF of Resource Path. Couldn’t we have problems with too long URL paths?

type \* indicates the type of Catalogue Data Object e.g. Hyperty, ProtocolStub, etc

objectName \* human-understandable name of the catalogue object e.g. “My Awesome Hyperty”

description \* description of the source package

language \* the programming language used in the SourcePackage.SourceCode

sourcePackageURL \* A string containing the URL from where the source code package of the corresponding catalogue object, e.g. deployable packages containing executable code for Hyperties or ProtoStubs, can be downloaded

## Public Members

### public get description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber43)

### public set description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber94)

### public get guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber31)

### public set guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber79)

### public get language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber47)

### public set language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber99)

### public get objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber39)

### public set objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber89)

### public set signature(signature: \*): \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber69)

Set the signature to enables integrity and authenticity verification

### public get signature: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber51)

### public set sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber74)

### public get sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber55)

### public get sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber59)

### public set sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber104)

### public set type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber84)

### public get type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber35)

Generated by [ESDoc(0.4.3)](https://esdoc.org) CatalogueDataObjectFactory {#cataloguedataobjectfactory data-ice=“name”} ==========================

You can directly use instance of this class. [catalogueDataObjectFactory](../../../variable/index.html#static-variable-catalogueDataObjectFactory)

#### Extends:

src/reTHINKObject/RethinkObject~RethinkObject → CatalogueDataObjectFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor

## Method Summary

Public Methods public

[createCatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createCatalogueDataObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html)

Create CatalogueDataObject

public

[createDataObjectSchema](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createDataObjectSchema)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html)

Create DataObjectSchema

public

[createHypertyDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html)

Create HypertyDescriptor

public

[createHypertyRuntimeDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyRuntimeDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html)

Create HypertyRuntimeDescriptor

public

[createPolicyEnforcerDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createPolicyEnforcerDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html)

Create PolicyEnforcerDescriptor

public

[createProtoStubDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createProtoStubDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html)

Create ProtocolStubDescriptor

public

[createSourcePackage](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createSourcePackage)(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html)

Create SourcePackage

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber29)

Constructor

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the schema

## Public Methods

### public createCatalogueDataObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber43)

Create CatalogueDataObject

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

type [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType) Indicates the type of Catalogue Data Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) |

### public createDataObjectSchema(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber179)

Create DataObjectSchema

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) |

### public createHypertyDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber67)

Create HypertyDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

hypertyType int A tag that identifies what type of hyperty is described in the object.

dataObjects URL.URLList Defines the Data Object Schemas supported by the Hyperty through a list of Catalogue URLs from where these schemas can be reached.

#### Return:

|  |
| --- |
| [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) |

### public createHypertyRuntimeDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber124)

Create HypertyRuntimeDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

runtimeType \* hypertyCapabilities \* Supported capabilities to execute Hyperties

protocolCapabilities \* Supported capabilities to execute Protocol Stubs

#### Return:

|  |
| --- |
| [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) |

### public createPolicyEnforcerDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber153)

Create PolicyEnforcerDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

configuration \* policies \*

#### Return:

|  |
| --- |
| [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) |

### public createProtoStubDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber95)

Create ProtocolStubDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

messageSchemas URL.URL Defines the Schema describing the Message Data Model used by the Hyperty through the Catalogue URL from where the Message schema can be reached. If not defined, by default it is assumed the standard Message Model is used.

configuration \* Data required to configure the ProtocolStub

constraints \* Describes capabilities required from the Hyperty Runtime in order to be able to execute the ProtocolStub

#### Return:

|  |
| --- |
| [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) |

### public createSourcePackage(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber198)

Create SourcePackage

#### Params:

Name Type Attribute Description sourceCodeClassname \* The Class-name of the SourceCode

sourceCode \* The source code of the catalogue object

#### Return:

|  |
| --- |
| [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) |

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* catalogue-factory
* C[CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html)
* C[CatalogueDataObjectFactory](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html)
* C[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html)
* C[ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html)
* C[ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html)
* C[DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html)
* C[HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html)
* C[IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)
* C[MessageDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html)
* C[HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html)
* C[HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html)
* C[PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html)
* C[ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html)
* C[RuntimeConstraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html)
* C[SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html)
* V[CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType)
* V[DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage)
* V[catalogueDataObject](../../../variable/index.html#static-variable-catalogueDataObject)
* V[catalogueDataObjectFactory](../../../variable/index.html#static-variable-catalogueDataObjectFactory)
* V[dataObjectSchema](../../../variable/index.html#static-variable-dataObjectSchema)
* V[HypertyType](../../../variable/index.html#static-variable-HypertyType)
* V[RuntimeHypertyCapabilityType](../../../variable/index.html#static-variable-RuntimeHypertyCapabilityType)
* V[hypertyDescriptor](../../../variable/index.html#static-variable-hypertyDescriptor)
* V[RuntimeHypertyCapabilityType](../../../variable/index.html#static-variable-RuntimeHypertyCapabilityType)
* V[RuntimeProtocolCapabilityType](../../../variable/index.html#static-variable-RuntimeProtocolCapabilityType)
* V[RuntimeType](../../../variable/index.html#static-variable-RuntimeType)
* V[hypertyRuntimeDescriptor](../../../variable/index.html#static-variable-hypertyRuntimeDescriptor)
* V[policyEnforcerDescriptor](../../../variable/index.html#static-variable-policyEnforcerDescriptor)
* V[protocolStubDescriptor](../../../variable/index.html#static-variable-protocolStubDescriptor)
* V[runtimeConstraint](../../../variable/index.html#static-variable-runtimeConstraint)
* V[sourcePackage](../../../variable/index.html#static-variable-sourcePackage)
* hyperty
* C[Connection](../../../class/src/hyperty/Connection.js~Connection.html)
* C[ConnectionController](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html)
* C[OwnerPeer](../../../class/src/hyperty/OwnerPeer.js~OwnerPeer.html)
* C[Peer](../../../class/src/hyperty/Peer.js~Peer.html)
* F[activate](../../../function/index.html#static-function-activate)
* V[connection](../../../variable/index.html#static-variable-connection)
* V[connectionController](../../../variable/index.html#static-variable-connectionController)
* V[ownerPeer](../../../variable/index.html#static-variable-ownerPeer)
* V[peer](../../../variable/index.html#static-variable-peer)
* hyperty-discovery
* C[HypertyDiscovery](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html)
* V[hypertyDiscovery](../../../variable/index.html#static-variable-hypertyDiscovery)
* message-factory
* C[Message](../../../class/src/message-factory/Message.js~Message.html)
* C[CreateMessageBody](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html)
* C[DeleteMessageBody](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html)
* C[ForwardMessageBody](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html)
* C[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)
* C[ReadMessageBody](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html)
* C[ResponseMessageBody](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html)
* C[UpdateMessageBody](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html)
* C[IdGenerator](../../../class/src/message-factory/MessageFactory.js~IdGenerator.html)
* C[MessageFactory](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html)
* F[Enum](../../../function/index.html#static-function-Enum)
* V[MessageType](../../../variable/index.html#static-variable-MessageType)
* V[REASON\_PHRASE](../../../variable/index.html#static-variable-REASON_PHRASE)
* V[RESPONSE\_CODE](../../../variable/index.html#static-variable-RESPONSE_CODE)
* V[messageFactory](../../../variable/index.html#static-variable-messageFactory)
* reTHINKObject
* C[RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html)
* syncher
* C[DataObject](../../../class/src/syncher/DataObject.js~DataObject.html)
* C[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)
* C[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)
* C[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)
* C[Syncher](../../../class/src/syncher/Syncher.js~Syncher.html)
* V[dataObject](../../../variable/index.html#static-variable-dataObject)
* V[dataObjectChild](../../../variable/index.html#static-variable-dataObjectChild)
* V[dataObjectObserver](../../../variable/index.html#static-variable-dataObjectObserver)
* V[dataObjectReporter](../../../variable/index.html#static-variable-dataObjectReporter)
* V[dataProvisional](../../../variable/index.html#static-variable-dataProvisional)
* V[ChangeType](../../../variable/index.html#static-variable-ChangeType)
* V[ObjectType](../../../variable/index.html#static-variable-ObjectType)
* V[syncObject](../../../variable/index.html#static-variable-syncObject)
* V[syncher](../../../variable/index.html#static-variable-syncher)
* utils
* C[EventEmitter](../../../class/src/utils/EventEmitter.js~EventEmitter.html)
* F[deepClone](../../../function/index.html#static-function-deepClone)
* F[divideURL](../../../typedef/index.html#static-typedef-divideURL)
* V[eventEmitter](../../../variable/index.html#static-variable-eventEmitter)
* T[divideURL](../../../typedef/index.html#static-typedef-divideURL)

import Connection from 'service-framework/src/hyperty/Connection.js'

public class | [source](../../../file/src/hyperty/Connection.js.html#lineNumber29)

# Connection

You can directly use instance of this class. [connection](../../../variable/index.html#static-variable-connection)

#### Extends:

[Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) → Connection

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Connection.js~Connection.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Connection.js.html#lineNumber31)

Generated by [ESDoc(0.4.3)](https://esdoc.org) ConnectionController {#connectioncontroller data-ice=“name”} ====================

You can directly use instance of this class. [connectionController](../../../variable/index.html#static-variable-connectionController)

#### Extends:

src/utils/EventEmitter~EventEmitter → ConnectionController

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-constructor-constructor)(syncher: \*)

## Member Summary

Public Members public set

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectObserver)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectObserver): ConnectionDataObject: \*

return the dataObject in the controller

public set

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectReporter)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectReporter): ConnectionDataObject: \*

return the dataObject in the controller

public set

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-remotePeerInformation)(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \*

Set Remote peer information, like Hyperty.

public get

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-remotePeerInformation): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \*

Get information relative to the Remote Peer;

## Method Summary

Public Methods public

[accept](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-accept)(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to accept an incoming connection request.

public

[addPeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-addPeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

public

[changePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-changePeerInformation)(dataObjectObserver: \*)

public

[createAnswer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createAnswer)()

public

[createOffer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createOffer)()

public

[decline](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-decline)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to decline an incoming connection request.

public

[disableCam](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableCam)(): \*

public

[disableMic](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableMic)(): \*

public

[disconnect](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disconnect)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to close an existing connection instance.

public

[getUserMedia](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-getUserMedia)(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Get WebRTC API resources

public

[infoError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-infoError)(err: \*)

public

[mute](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-mute)(): \*

public

[onLocalSessionCreated](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-onLocalSessionCreated)(description: \*)

public

[processPeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-processPeerInformation)(data: \*)

public

[remoteDescriptionError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionError)(error: \*)

public

[remoteDescriptionSuccess](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionSuccess)()

public

[removePeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-removePeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to remove a peer from an existing connection instance.

## Public Constructors

### public constructor(syncher: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber14)

#### Params:

Name Type Attribute Description syncher \*

## Public Members

### public set dataObjectObserver(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber160)

Set the dataObject in the controller

### public get dataObjectObserver: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber173)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set dataObjectReporter(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber112)

Set the dataObject in the controller

### public get dataObjectReporter: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber151)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set remotePeerInformation(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber94)

Set Remote peer information, like Hyperty.

### public get remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber103)

Get information relative to the Remote Peer;

#### Return:

|  |  |
| --- | --- |
| [Object](https://developer.moz%20%20illa.org/en-US/docs/Web/JavaScrip%20t/R%20eference/Global_Objects/Object)</spa n> | remotePeerInformation; |

## Public Methods

### public accept(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber294)

Used to accept an incoming connection request.

#### Params:

Name Type Attribute Description options \*

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public addPeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber382)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public changePeerInformation(dataObjectObserver: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber200)

#### Params:

Name Type Attribute Description dataObjectObserver \*

### public createAnswer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber255)

### public createOffer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber246)

### public decline(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber334)

Used to decline an incoming connection request.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public disableCam(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber415)

#### Return:

|  |
| --- |
| \* |

### public disableMic(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber396)

#### Return:

|  |
| --- |
| \* |

### public disconnect(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber356)

Used to close an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public getUserMedia(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber183)

Get WebRTC API resources

#### Params:

Name Type Attribute Description options [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) Object containing the information that resources will be used (camera, mic, resolution, etc);

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public infoError(err: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber285)

#### Params:

Name Type Attribute Description err \*

### public mute(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber434)

#### Return:

|  |
| --- |
| \* |

### public onLocalSessionCreated(description: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber263)

#### Params:

Name Type Attribute Description description \*

### public processPeerInformation(data: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber213)

#### Params:

Name Type Attribute Description data \*

### public remoteDescriptionError(error: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber242)

#### Params:

Name Type Attribute Description error \*

### public remoteDescriptionSuccess() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber238)

### public removePeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber391)

Used to remove a peer from an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObject {#dataobject data-ice=“name”} ==========

You can directly use instance of this class. [dataObject](../../../variable/index.html#static-variable-dataObject)

## Member Summary

Public Members public get

[children](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-children): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

public get

[data](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data structure to be synchronized.

public get

[schema](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-schema): SchemaURL

Object schema URL (this field is not yet stable, and is subsject to change)

public get

[status](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-status): Status

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

public get

[url](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-url): ObjectURL

Object URL of reporter or observer

## Method Summary

Public Methods public

[addChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-addChildren)(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

Create and add a children to the subscription group.

public

[onAddChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-onAddChildren)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete childrens

## Public Members

### public get children: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber88)

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObject.js.html#lineNumber82)

Data structure to be synchronized.

### public get schema: SchemaURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber70)

Object schema URL (this field is not yet stable, and is subsject to change)

### public get status: Status [source](../../../file/src/syncher/DataObject.js.html#lineNumber76)

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

### public get url: ObjectURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber64)

Object URL of reporter or observer

## Public Methods

### public addChildren(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber127)

Create and add a children to the subscription group.

#### Params:

Name Type Attribute Description resource [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Resource name, one of the items in the schema.properties.scheme of the parent object.

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the child

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectChild](.%20./.%20./../class/src/syncher/DataObj%20ectChi%20ld.js~DataObjectChild.html) &g t; | Return Promise to a new Children. |

### public onAddChildren(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObject.js.html#lineNumber160)

Setup the callback to process create and delete childrens

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectChild {#dataobjectchild data-ice=“name”} ===============

You can directly use instance of this class. [dataObjectChild](../../../variable/index.html#static-variable-dataObjectChild)

## Member Summary

Public Members public get

[childId](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-childId): URL

Children ID generated on addChildren.

public get

[data](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data Structure to be synchronized.

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onChange)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter child

public

[onResponse](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the creates

## Public Members

### public get childId: URL [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber35)

Children ID generated on addChildren. Unique identifier

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber41)

Data Structure to be synchronized.

## Public Methods

### public onChange(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber47)

Register the change listeners sent by the reporter child

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber57)

Setup the callback to process response notifications of the creates

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectObserver {#dataobjectobserver data-ice=“name”} ==================

You can directly use instance of this class. [dataObjectObserver](../../../variable/index.html#static-variable-dataObjectObserver)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectObserver

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html#instance-method-onChange)(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter

## Public Methods

### public onChange(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectObserver.js.html#lineNumber38)

Register the change listeners sent by the reporter

#### Params:

Name Type Attribute Description filter [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Filter that identifies the field (separeted dot path). Accepts \* at the end for a more unrestricted filtering.

callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectReporter {#dataobjectreporter data-ice=“name”} ==================

You can directly use instance of this class. [dataObjectReporter](../../../variable/index.html#static-variable-dataObjectReporter)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectReporter

## Member Summary

Public Members public get

[subscriptions](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-get-subscriptions): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription>

Subscriptions requested and accepted to this reporter

## Method Summary

Public Methods public

[onResponse](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the create’s

public

[onSubscription](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onSubscription)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process subscribe and unsubscribe notifications

## Public Members

### public get subscriptions: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription> [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber38)

Subscriptions requested and accepted to this reporter

## Public Methods

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber52)

Setup the callback to process response notifications of the create’s

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onSubscription(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber44)

Setup the callback to process subscribe and unsubscribe notifications

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) CommunicationDataObjectSchema {#communicationdataobjectschema data-ice=“name”} =============================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → CommunicationDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber31)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) ConnectionDataObjectSchema {#connectiondataobjectschema data-ice=“name”} ==========================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ConnectionDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber37)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) ContextDataObjectSchema {#contextdataobjectschema data-ice=“name”} =======================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ContextDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber49)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectSchema {#dataobjectschema data-ice=“name”} ================

You can directly use instance of this class. [dataObjectSchema](../../../variable/index.html#static-variable-dataObjectSchema)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → DataObjectSchema

#### Direct Subclass:

[HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html), [MessageDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html)

#### Indirect Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyDataObjectSchema {#hypertydataobjectschema data-ice=“name”} =======================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → HypertyDataObjectSchema

#### Direct Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber23)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) IdentifyDataObjectSchema {#identifydataobjectschema data-ice=“name”} ========================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → IdentifyDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber43)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) MessageDataObjectSchema {#messagedataobjectschema data-ice=“name”} =======================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → MessageDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber17)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) EventEmitter {#eventemitter data-ice=“name”} ============

You can directly use instance of this class. [eventEmitter](../../../variable/index.html#static-variable-eventEmitter)

EventEmitter All classes which extends this, can have addEventListener and trigger events;

## Method Summary

Public Methods public

[addEventListener](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-addEventListener)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function))

addEventListener listen for an eventType

public

[trigger](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-trigger)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object))

Invoke the eventType

## Public Methods

### public addEventListener(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber12)

addEventListener listen for an eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) listening for this type of event

cb [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function) callback function will be executed when the event it is invoked

### public trigger(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber22)

Invoke the eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) event will be invoked

params [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) parameters will be passed to the addEventListener

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyDescriptor {#hypertydescriptor data-ice=“name”} =================

You can directly use instance of this class. [hypertyDescriptor](../../../variable/index.html#static-variable-hypertyDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-constraints): \*

public get

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-dataObjects): \*

public set

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-dataObjects): \*

public set

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-hypertyType): \*

public get

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-hypertyType): \*

public get

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-messageSchema): \*

public set

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-messageSchema): \*

public get

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*) [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* hypertyType \* dataObjects \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber28)

### public set configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber54)

### public get constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber32)

### public set constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber59)

### public get dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber24)

### public set dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber49)

### public set hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber44)

### public get hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber20)

### public get messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber36)

### public set messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber64)

### public get policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber40)

### public set policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber69)

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyDiscovery {#hypertydiscovery data-ice=“name”} ================

You can directly use instance of this class. [hypertyDiscovery](../../../variable/index.html#static-variable-hypertyDiscovery)

Core HypertyDiscovery interface Hyperty Discovery class provides the functionality to query hyperties instances registered in Domain registry\* for a given user

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-constructor-constructor)(runtimeURL: RuntimeURL, msgBus: MessageBus)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

## Method Summary

Public Methods public

[discoverHypertyPerUser](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-method-discoverHypertyPerUser)(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Function to request about users registered in domain registry, and return the hyperty instance if found.

## Public Constructors

### public constructor(runtimeURL: RuntimeURL, msgBus: MessageBus) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber14)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

#### Params:

Name Type Attribute Description runtimeURL RuntimeURL runtimeURL

msgBus MessageBus msgBus

## Public Methods

### public discoverHypertyPerUser(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber28)

Function to request about users registered in domain registry, and return the hyperty instance if found.

#### Params:

Name Type Attribute Description userIdentifier Identity.Identity

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan> | Promise |

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyRuntimeDescriptor {#hypertyruntimedescriptor data-ice=“name”} ========================

You can directly use instance of this class. [hypertyRuntimeDescriptor](../../../variable/index.html#static-variable-hypertyRuntimeDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyRuntimeDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*)

## Member Summary

Public Members public get

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-hypertyCapabilities): \*

public set

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-hypertyCapabilities): \*

public get

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-protocolCapabilities): \*

public set

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-protocolCapabilities): \*

public get

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-runtimeType): \*

public set

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-runtimeType): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*) [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* runtimeType \* hypertyCapabilities \* protocolCapabilities \*

## Public Members

### public get hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber29)

### public set hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber42)

### public get protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber33)

### public set protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber47)

### public get runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber25)

### public set runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber37)

Generated by [ESDoc(0.4.3)](https://esdoc.org) Message {#message data-ice=“name”} =======

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/Message.js~Message.html#instance-constructor-constructor)(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html))

Generates a message data object

## Member Summary

Public Members public get

[body](../../../class/src/message-factory/Message.js~Message.html#instance-get-body): [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)

The Message body

public set

[body](../../../class/src/message-factory/Message.js~Message.html#instance-set-body)(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \*

set the message body

public get

[from](../../../class/src/message-factory/Message.js~Message.html#instance-get-from): URL.URL

The sender of the Message.

public set

[from](../../../class/src/message-factory/Message.js~Message.html#instance-set-from)(sender: URL.URL): \*

set the sender of the Message

public get

[id](../../../class/src/message-factory/Message.js~Message.html#instance-get-id): [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)

The Message identifier.

public get

[to](../../../class/src/message-factory/Message.js~Message.html#instance-get-to): URL.URLList

The recipient of the Message.

public set

[to](../../../class/src/message-factory/Message.js~Message.html#instance-set-to)(recipientList: URL.URLList): \*

set the list of recipients

public get

[type](../../../class/src/message-factory/Message.js~Message.html#instance-get-type): [MessageType](../../../variable/index.html#static-variable-MessageType)

The Message type.

public set

[type](../../../class/src/message-factory/Message.js~Message.html#instance-set-type)(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \*

set the message type

## Method Summary

Public Methods public

[addAccessToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addAccessToken)(token: Identity.JWT): Message.Message

Add an access token to the given message

public

[addIdToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addIdToken)(token: Identity.JWT): Message.Message

Adds an Id token to the given message

public

[assertIdentity](../../../class/src/message-factory/Message.js~Message.html#instance-method-assertIdentity)(token: Identity.JWT, identity: Identity.Identity): Message.Message

Adds the asserted identity to the message body and removes the given token from the message

## Public Constructors

### public constructor(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)) [source](../../../file/src/message-factory/Message.js.html#lineNumber23)

Generates a message data object

#### Params:

Name Type Attribute Description id [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) To be used to associate Response messages to the initial request message.

from URL.URL URL of Hyperty instance or User associated with it

toList URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

type [MessageType](../../../variable/index.html#static-variable-MessageType) The URL of the reTHINK Data Object Resource associated with the message that can be used for routing purposes

body [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) Optionally, all message bodies exchanged between different Runtime Messge BUS can contain JWT tokens for Access Control for Identity Assertion purposes that are inserted by the Identity Module before the message is routed to proto stubs

## Public Members

### public get body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) [source](../../../file/src/message-factory/Message.js.html#lineNumber60)

The Message body

### public set body(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber84)

set the message body

### public get from: URL.URL [source](../../../file/src/message-factory/Message.js.html#lineNumber42)

The sender of the Message.

### public set from(sender: URL.URL): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber66)

set the sender of the Message

### public get id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) [source](../../../file/src/message-factory/Message.js.html#lineNumber36)

The Message identifier.

### public get to: URL.URLList [source](../../../file/src/message-factory/Message.js.html#lineNumber48)

The recipient of the Message.

### public set to(recipientList: URL.URLList): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber93)

set the list of recipients

### public get type: [MessageType](../../../variable/index.html#static-variable-MessageType) [source](../../../file/src/message-factory/Message.js.html#lineNumber54)

The Message type.

### public set type(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber75)

set the message type

## Public Methods

### public addAccessToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber136)

Add an access token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT token to be added to the given message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated Message |

### public addIdToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber122)

Adds an Id token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT identity token to include in the message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated message |

### public assertIdentity(token: Identity.JWT, identity: Identity.Identity): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber104)

Adds the asserted identity to the message body and removes the given token from the message

#### Params:

Name Type Attribute Description token Identity.JWT idToken to remove from message

identity Identity.Identity asserted identity to include

#### Return:

|  |  |
| --- | --- |
| Message.Message | message - updated message |

Generated by [ESDoc(0.4.3)](https://esdoc.org) CreateMessageBody {#createmessagebody data-ice=“name”} =================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → CreateMessageBody

Class representation of the CreateMessageBody object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-constructor-constructor)(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-policy): \*

public set

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-policy): \*

public get

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-value): \*

public set

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-value): \*

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber123)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format.

policy URL.URL URL from where access policy control can be downloaded

idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber139)

### public set policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber141)

### public get value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber132)

### public set value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber134)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DeleteMessageBody {#deletemessagebody data-ice=“name”} =================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → DeleteMessageBody

Class representation of the DeleteMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber193)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

Generated by [ESDoc(0.4.3)](https://esdoc.org) ForwardMessageBody {#forwardmessagebody data-ice=“name”} ==================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ForwardMessageBody

Class representation of the ForwardMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber240)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

message [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be forwarded

Generated by [ESDoc(0.4.3)](https://esdoc.org) MessageBody {#messagebody data-ice=“name”} ===========

#### Direct Subclass:

[CreateMessageBody](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html), [DeleteMessageBody](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html), [ForwardMessageBody](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html), [ReadMessageBody](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html), [ResponseMessageBody](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html), [UpdateMessageBody](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber18)

#### Params:

Name Type Attribute Description idToken Identity.JWT token for Identity assertion purpose

accessToken Identity.JWT token for access control

resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get accessToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber42)

Get the access token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set accessToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber75)

set the access token

### public get assertedIdentity: Identity.Identity: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber60)

Return the asserted Identity

#### Return:

|  |
| --- |
| Identity.Identity |

### public set assertedIdentity(assertedIdentity: Identity.Identity): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber102)

set the asserted identity

### public get idToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber36)

Get the id token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set idToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber66)

set the token identifier

### public get resource: URL.URL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber48)

The the resource URL

#### Return:

|  |
| --- |
| URL.URL |

### public set resource: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber84)

set the resource

### public get schema: URL.HypertyCatalogueURL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber54)

Return the URL of the schema on the HypertyCatalogue

#### Return:

|  |
| --- |
| URL.HypertyCatalogueURL |

### public set schema(schema: URL.HypertyCatalogueURL): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber93)

set the schema URL

Generated by [ESDoc(0.4.3)](https://esdoc.org) ReadMessageBody {#readmessagebody data-ice=“name”} ===============

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ReadMessageBody

Class representation of the ReadMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber164)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the objec

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be read (optional)

criteriaSyntax [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria syntax used in criteria field. To be used for search purposes. Valid criteria Syntax are: “key-value”, “mongodb”, “sql”(?), …

criteria [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria to be used for search purposes. Syntax used to define the criteria is set in the criteriaSyntax.

Generated by [ESDoc(0.4.3)](https://esdoc.org) ResponseMessageBody {#responsemessagebody data-ice=“name”} ===================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ResponseMessageBody

Class representation of the ResponseMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*)

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber263)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

code \* A response code compliant with HTTP response codes (RFC7231)

value \* Contains a data value in JSON format. Applicable to Responses to READ MessageType.

Generated by [ESDoc(0.4.3)](https://esdoc.org) UpdateMessageBody {#updatemessagebody data-ice=“name”} =================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → UpdateMessageBody

Class representation of the UpdateMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber218)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the updated value object in JSON format.

Generated by [ESDoc(0.4.3)](https://esdoc.org) IdGenerator {#idgenerator data-ice=“name”} ===========

Message Identifier Generator that generates the id used to identifier message transactions

## Method Summary

Public Methods public

\* [idMaker](../../../class/src/message-factory/MessageFactory.js~IdGenerator.html#instance-method-idMaker)()

## Public Methods

### public \* idMaker() [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber219)

Generated by [ESDoc(0.4.3)](https://esdoc.org) MessageFactory {#messagefactory data-ice=“name”} ==============

You can directly use instance of this class. [messageFactory](../../../variable/index.html#static-variable-messageFactory)

#### Extends:

[RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) → MessageFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor to be used to instantiate an object of the Message Factory

## Member Summary

Public Members public

[myGenerator](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-member-myGenerator): \*

## Method Summary

Public Methods public

[createCreateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createCreateMessageRequest)(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \*

Creates a Message of TYPE CREATE and Create Message Body

public

[createDeleteMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createDeleteMessageRequest)(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Create Delete Message of Type DELETE and delete message body

public

[createForwardMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createForwardMessageRequest)(from: URL.URL, to-: URL.URLList, message: \*): Message.Message

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

public

[createMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createMessageResponse)(message: \*, code: \*, value: \*, source: \*): \*

Creates the response to the Message

public

[createReadMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createReadMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Creates a Message of type READ

public

[createSubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createSubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type SUBSCRIBE

public

[createUnsubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUnsubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type UNSUBSCRIBE

public

[createUpdateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUpdateMessageRequest)(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message

Creates an Update Message Request

public

[generateMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-generateMessageResponse)(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \*

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

public

[validate](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-validate)(data: \*): \*

Validates the message against the reTHINK Message Data Schema

## Inherited Summary

From class [RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber20)

Constructor to be used to instantiate an object of the Message Factory

#### Override:

[RethinkObject#constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the reTHINK Message Data Schema

## Public Members

### public myGenerator: \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber23)

## Public Methods

### public createCreateMessageRequest(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber44)

Creates a Message of TYPE CREATE and Create Message Body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format

policy URL.URL the sender of this message

#### Return:

|  |
| --- |
| \* |

### public createDeleteMessageRequest(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber83)

Create Delete Message of Type DELETE and delete message body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be deleted

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Delete Message Request |

### public createForwardMessageRequest(from: URL.URL, to-: URL.URLList, message: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber63)

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

message \* {Message.Message} message - the message to be forwarded

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Forward Message Request |

### public createMessageResponse(message: \*, code: \*, value: \*, source: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber177)

Creates the response to the Message

#### Params:

Name Type Attribute Description message \* the message request from which the response should be generated

code \* the response code compliant with HTTP response codes (RFC7231).

value \* contains a data value in JSON format. Applicable to Responses to READ MessageType.

source \* Contains the original creator of the response. Useful to identify the real source of the response to a one-to-many message delivery ie multiple responses coming coming from different sources.

#### Return:

|  |
| --- |
| \* |

### public createReadMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber124)

Creates a Message of type READ

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be read

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Read message request |

### public createSubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber142)

Creates a Message of type SUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUnsubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber159)

Creates a Message of type UNSUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUpdateMessageRequest(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber105)

Creates an Update Message Request

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

{URL.URLList}to \* One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value \* The new value of the attribute to be updated

resource URL.URL URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be updated

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Update message request |

### public generateMessageResponse(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber199)

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

#### Params:

Name Type Attribute Description data [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be updated

code ResponseCode response code compliant with HTTP response codes (RFC7231).

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains a data value in JSON format.

#### Return:

|  |
| --- |
| \* |

### public validate(data: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber31)

Validates the message against the reTHINK Message Data Schema

#### Override:

[RethinkObject#validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| \* |

Generated by [ESDoc(0.4.3)](https://esdoc.org) OwnerPeer {#ownerpeer data-ice=“name”} =========

You can directly use instance of this class. [ownerPeer](../../../variable/index.html#static-variable-ownerPeer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/OwnerPeer.js~OwnerPeer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/OwnerPeer.js.html#lineNumber3)

Generated by [ESDoc(0.4.3)](https://esdoc.org) Peer {#peer data-ice=“name”} ====

You can directly use instance of this class. [peer](../../../variable/index.html#static-variable-peer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Peer.js~Peer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Peer.js.html#lineNumber3)

Generated by [ESDoc(0.4.3)](https://esdoc.org) PolicyEnforcerDescriptor {#policyenforcerdescriptor data-ice=“name”} ========================

You can directly use instance of this class. [policyEnforcerDescriptor](../../../variable/index.html#static-variable-policyEnforcerDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → PolicyEnforcerDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-configuration): \*

public get

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*) [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber7)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* configuration \* policies \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber14)

### public set configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber26)

### public get policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber18)

### public set policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber22)

Generated by [ESDoc(0.4.3)](https://esdoc.org) ProtocolStubDescriptor {#protocolstubdescriptor data-ice=“name”} ======================

You can directly use instance of this class. [protocolStubDescriptor](../../../variable/index.html#static-variable-protocolStubDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → ProtocolStubDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-constraints): \*

public get

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-messageSchemas): \*

public set

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-messageSchemas): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*) [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* messageSchemas \* configuration \* constraints \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber33)

### public set configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber47)

### public get constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber29)

### public set constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber42)

### public get messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber25)

### public set messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber37)

Generated by [ESDoc(0.4.3)](https://esdoc.org) RethinkObject {#rethinkobject data-ice=“name”} =============

#### Direct Subclass:

[MessageFactory](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)(validation: \*, schema: \*)

## Member Summary

Public Members public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

## Method Summary

Public Methods public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: \*, schema: \*) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber5)

#### Params:

Name Type Attribute Description validation \* schema \*

## Public Members

### public schema: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber10)

### public validation: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber9)

## Public Methods

### public validate(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber13)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) |

Generated by [ESDoc(0.4.3)](https://esdoc.org) RuntimeConstraint {#runtimeconstraint data-ice=“name”} =================

You can directly use instance of this class. [runtimeConstraint](../../../variable/index.html#static-variable-runtimeConstraint)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-constructor-constructor)(constraint: \*, runtimeHypertyCapabilityType: \*)

## Member Summary

Public Members public get

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-constraint): \*

public set

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-constraint): \*

public get

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-runtimeHypertyCapabilityType): \*

public set

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-runtimeHypertyCapabilityType): \*

## Public Constructors

### public constructor(constraint: \*, runtimeHypertyCapabilityType: \*) [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber6)

#### Params:

Name Type Attribute Description constraint \* runtimeHypertyCapabilityType \*

## Public Members

### public get constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber11)

### public set constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber19)

### public get runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber15)

### public set runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber24)

Generated by [ESDoc(0.4.3)](https://esdoc.org) SourcePackage {#sourcepackage data-ice=“name”} =============

You can directly use instance of this class. [sourcePackage](../../../variable/index.html#static-variable-sourcePackage)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-constructor-constructor)(sourceCodeClassname: \*, sourceCode: \*)

## Member Summary

Public Members public get

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-encoding): \*

public set

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-encoding): \*

public get

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-signature): \*

public set

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-signature): \*

public get

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCode): \*

public set

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCode): \*

public get

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCodeClassname): \*

public set

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCodeClassname): \*

## Public Constructors

### public constructor(sourceCodeClassname: \*, sourceCode: \*) [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber5)

#### Params:

Name Type Attribute Description sourceCodeClassname \* sourceCode \*

## Public Members

### public get encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber21)

### public set encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber29)

### public get signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber25)

### public set signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber34)

### public get sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber13)

### public set sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber39)

### public get sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber17)

### public set sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber44)

Generated by [ESDoc(0.4.3)](https://esdoc.org) Syncher {#syncher data-ice=“name”} =======

You can directly use instance of this class. [syncher](../../../variable/index.html#static-variable-syncher)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/syncher/Syncher.js~Syncher.html#instance-constructor-constructor)(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON))

Constructor that should be used by the Hyperty owner

## Member Summary

Public Members public get

[observers](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-observers): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

All owned observers, the ones that were created by a local subscription

public get

[owner](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-owner): HypertyURL

The owner of the Syncher and all created reporters.

public get

[reporters](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-reporters): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

All owned reporters, the ones that were created by a create

## Method Summary

Public Methods public

[create](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-create)(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

Request a DataObjectReporter creation.

public

[onNotification](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-onNotification)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete events of remove Reporter objects.

public

[subscribe](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-subscribe)(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

Request a subscription to an existent object.

## Public Constructors

### public constructor(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber30)

Constructor that should be used by the Hyperty owner

#### Params:

Name Type Attribute Description owner HypertyURL Hyperty URL owner

bus MiniBus The internal sandbox MiniBus used by the Hyperty

config [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) The only required field for now is runtimeURL

## Public Members

### public get observers: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber67)

All owned observers, the ones that were created by a local subscription

### public get owner: HypertyURL [source](../../../file/src/syncher/Syncher.js.html#lineNumber55)

The owner of the Syncher and all created reporters.

### public get reporters: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber61)

All owned reporters, the ones that were created by a create

## Public Methods

### public create(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber76)

Request a DataObjectReporter creation. The URL will be be requested by the allocation mechanism.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

observers HypertyURL[] List of hyperties that are pre-authorized for subscription

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the reporter

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectReporter](.%20./../../class/src/syncher/Data%20Object%20Reporter.js~DataObjectRepor%20ter.html) > | Return Promise to a new Reporter. The reporter can be accepted or rejected by the PEP |

### public onNotification(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber147)

Setup the callback to process create and delete events of remove Reporter objects. This is releated to the messagens sent by create to the observers Hyperty array.

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public subscribe(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber110)

Request a subscription to an existent object.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

objURL ObjectURL Address of the existent reporter object

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectObserver](.%20./../../class/src/syncher/Data%20Object%20Observer.js~DataObjectObser%20ver.html) > | Return Promise to a new observer. |

Generated by [ESDoc(0.4.3)](https://esdoc.org) CatalogueDataObject {#cataloguedataobject data-ice=“name”} ===================

You can directly use instance of this class. [catalogueDataObject](../../../variable/index.html#static-variable-catalogueDataObject)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

Creates the Catalogue Data Object

## Member Summary

Public Members public get

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-description): \*

public set

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-description): \*

public get

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-guid): \*

public set

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-guid): \*

public get

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-language): \*

public set

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-language): \*

public get

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-objectName): \*

public set

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-objectName): \*

public set

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-signature)(signature: \*): \*

Set the signature to enables integrity and authenticity verification

public get

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-signature): \*

public set

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackage): \*

public get

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackage): \*

public get

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackageURL): \*

public set

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackageURL): \*

public set

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-type): \*

public get

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-type): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber18)

Creates the Catalogue Data Object

#### Params:

Name Type Attribute Description guid \* Global Unique identifier of the Catalogue Object (e.g. Hyperty descriptor, ProtocolStub descriptor, etc) enabling the same object to be stored and discovered in different Catalogues. That means, guid corresponds to [resource-type-id] per BNF of Resource Path. Couldn’t we have problems with too long URL paths?

type \* indicates the type of Catalogue Data Object e.g. Hyperty, ProtocolStub, etc

objectName \* human-understandable name of the catalogue object e.g. “My Awesome Hyperty”

description \* description of the source package

language \* the programming language used in the SourcePackage.SourceCode

sourcePackageURL \* A string containing the URL from where the source code package of the corresponding catalogue object, e.g. deployable packages containing executable code for Hyperties or ProtoStubs, can be downloaded

## Public Members

### public get description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber43)

### public set description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber94)

### public get guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber31)

### public set guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber79)

### public get language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber47)

### public set language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber99)

### public get objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber39)

### public set objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber89)

### public set signature(signature: \*): \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber69)

Set the signature to enables integrity and authenticity verification

### public get signature: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber51)

### public set sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber74)

### public get sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber55)

### public get sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber59)

### public set sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber104)

### public set type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber84)

### public get type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber35)

Generated by [ESDoc(0.4.3)](https://esdoc.org) CatalogueDataObjectFactory {#cataloguedataobjectfactory data-ice=“name”} ==========================

You can directly use instance of this class. [catalogueDataObjectFactory](../../../variable/index.html#static-variable-catalogueDataObjectFactory)

#### Extends:

src/reTHINKObject/RethinkObject~RethinkObject → CatalogueDataObjectFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor

## Method Summary

Public Methods public

[createCatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createCatalogueDataObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html)

Create CatalogueDataObject

public

[createDataObjectSchema](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createDataObjectSchema)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html)

Create DataObjectSchema

public

[createHypertyDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html)

Create HypertyDescriptor

public

[createHypertyRuntimeDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyRuntimeDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html)

Create HypertyRuntimeDescriptor

public

[createPolicyEnforcerDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createPolicyEnforcerDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html)

Create PolicyEnforcerDescriptor

public

[createProtoStubDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createProtoStubDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html)

Create ProtocolStubDescriptor

public

[createSourcePackage](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createSourcePackage)(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html)

Create SourcePackage

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber29)

Constructor

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the schema

## Public Methods

### public createCatalogueDataObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber43)

Create CatalogueDataObject

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

type [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType) Indicates the type of Catalogue Data Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) |

### public createDataObjectSchema(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber179)

Create DataObjectSchema

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) |

### public createHypertyDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber67)

Create HypertyDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

hypertyType int A tag that identifies what type of hyperty is described in the object.

dataObjects URL.URLList Defines the Data Object Schemas supported by the Hyperty through a list of Catalogue URLs from where these schemas can be reached.

#### Return:

|  |
| --- |
| [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) |

### public createHypertyRuntimeDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber124)

Create HypertyRuntimeDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

runtimeType \* hypertyCapabilities \* Supported capabilities to execute Hyperties

protocolCapabilities \* Supported capabilities to execute Protocol Stubs

#### Return:

|  |
| --- |
| [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) |

### public createPolicyEnforcerDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber153)

Create PolicyEnforcerDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

configuration \* policies \*

#### Return:

|  |
| --- |
| [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) |

### public createProtoStubDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber95)

Create ProtocolStubDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

messageSchemas URL.URL Defines the Schema describing the Message Data Model used by the Hyperty through the Catalogue URL from where the Message schema can be reached. If not defined, by default it is assumed the standard Message Model is used.

configuration \* Data required to configure the ProtocolStub

constraints \* Describes capabilities required from the Hyperty Runtime in order to be able to execute the ProtocolStub

#### Return:

|  |
| --- |
| [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) |

### public createSourcePackage(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber198)

Create SourcePackage

#### Params:

Name Type Attribute Description sourceCodeClassname \* The Class-name of the SourceCode

sourceCode \* The source code of the catalogue object

#### Return:

|  |
| --- |
| [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) |

Generated by [ESDoc(0.4.3)](https://esdoc.org) [Home](../../.././) [Reference](../../../identifiers.html) [Source](../../../source.html) [Repository](git+ssh://git@github.com/reTHINK-project/core-framework.git)

* catalogue-factory
* C[CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html)
* C[CatalogueDataObjectFactory](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html)
* C[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html)
* C[ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html)
* C[ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html)
* C[DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html)
* C[HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html)
* C[IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)
* C[MessageDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html)
* C[HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html)
* C[HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html)
* C[PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html)
* C[ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html)
* C[RuntimeConstraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html)
* C[SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html)
* V[CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType)
* V[DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage)
* V[catalogueDataObject](../../../variable/index.html#static-variable-catalogueDataObject)
* V[catalogueDataObjectFactory](../../../variable/index.html#static-variable-catalogueDataObjectFactory)
* V[dataObjectSchema](../../../variable/index.html#static-variable-dataObjectSchema)
* V[HypertyType](../../../variable/index.html#static-variable-HypertyType)
* V[RuntimeHypertyCapabilityType](../../../variable/index.html#static-variable-RuntimeHypertyCapabilityType)
* V[hypertyDescriptor](../../../variable/index.html#static-variable-hypertyDescriptor)
* V[RuntimeHypertyCapabilityType](../../../variable/index.html#static-variable-RuntimeHypertyCapabilityType)
* V[RuntimeProtocolCapabilityType](../../../variable/index.html#static-variable-RuntimeProtocolCapabilityType)
* V[RuntimeType](../../../variable/index.html#static-variable-RuntimeType)
* V[hypertyRuntimeDescriptor](../../../variable/index.html#static-variable-hypertyRuntimeDescriptor)
* V[policyEnforcerDescriptor](../../../variable/index.html#static-variable-policyEnforcerDescriptor)
* V[protocolStubDescriptor](../../../variable/index.html#static-variable-protocolStubDescriptor)
* V[runtimeConstraint](../../../variable/index.html#static-variable-runtimeConstraint)
* V[sourcePackage](../../../variable/index.html#static-variable-sourcePackage)
* hyperty
* C[Connection](../../../class/src/hyperty/Connection.js~Connection.html)
* C[ConnectionController](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html)
* C[OwnerPeer](../../../class/src/hyperty/OwnerPeer.js~OwnerPeer.html)
* C[Peer](../../../class/src/hyperty/Peer.js~Peer.html)
* F[activate](../../../function/index.html#static-function-activate)
* V[connection](../../../variable/index.html#static-variable-connection)
* V[connectionController](../../../variable/index.html#static-variable-connectionController)
* V[ownerPeer](../../../variable/index.html#static-variable-ownerPeer)
* V[peer](../../../variable/index.html#static-variable-peer)
* hyperty-discovery
* C[HypertyDiscovery](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html)
* V[hypertyDiscovery](../../../variable/index.html#static-variable-hypertyDiscovery)
* message-factory
* C[Message](../../../class/src/message-factory/Message.js~Message.html)
* C[CreateMessageBody](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html)
* C[DeleteMessageBody](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html)
* C[ForwardMessageBody](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html)
* C[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)
* C[ReadMessageBody](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html)
* C[ResponseMessageBody](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html)
* C[UpdateMessageBody](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html)
* C[IdGenerator](../../../class/src/message-factory/MessageFactory.js~IdGenerator.html)
* C[MessageFactory](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html)
* F[Enum](../../../function/index.html#static-function-Enum)
* V[MessageType](../../../variable/index.html#static-variable-MessageType)
* V[REASON\_PHRASE](../../../variable/index.html#static-variable-REASON_PHRASE)
* V[RESPONSE\_CODE](../../../variable/index.html#static-variable-RESPONSE_CODE)
* V[messageFactory](../../../variable/index.html#static-variable-messageFactory)
* reTHINKObject
* C[RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html)
* syncher
* C[DataObject](../../../class/src/syncher/DataObject.js~DataObject.html)
* C[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)
* C[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)
* C[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)
* C[Syncher](../../../class/src/syncher/Syncher.js~Syncher.html)
* V[dataObject](../../../variable/index.html#static-variable-dataObject)
* V[dataObjectChild](../../../variable/index.html#static-variable-dataObjectChild)
* V[dataObjectObserver](../../../variable/index.html#static-variable-dataObjectObserver)
* V[dataObjectReporter](../../../variable/index.html#static-variable-dataObjectReporter)
* V[dataProvisional](../../../variable/index.html#static-variable-dataProvisional)
* V[ChangeType](../../../variable/index.html#static-variable-ChangeType)
* V[ObjectType](../../../variable/index.html#static-variable-ObjectType)
* V[syncObject](../../../variable/index.html#static-variable-syncObject)
* V[syncher](../../../variable/index.html#static-variable-syncher)
* utils
* C[EventEmitter](../../../class/src/utils/EventEmitter.js~EventEmitter.html)
* F[deepClone](../../../function/index.html#static-function-deepClone)
* F[divideURL](../../../typedef/index.html#static-typedef-divideURL)
* V[eventEmitter](../../../variable/index.html#static-variable-eventEmitter)
* T[divideURL](../../../typedef/index.html#static-typedef-divideURL)

import Connection from 'service-framework/src/hyperty/Connection.js'

public class | [source](../../../file/src/hyperty/Connection.js.html#lineNumber29)

# Connection

You can directly use instance of this class. [connection](../../../variable/index.html#static-variable-connection)

#### Extends:

[Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) → Connection

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Connection.js~Connection.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Connection.js.html#lineNumber31)

Generated by [ESDoc(0.4.3)](https://esdoc.org) ConnectionController {#connectioncontroller data-ice=“name”} ====================

You can directly use instance of this class. [connectionController](../../../variable/index.html#static-variable-connectionController)

#### Extends:

src/utils/EventEmitter~EventEmitter → ConnectionController

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-constructor-constructor)(syncher: \*)

## Member Summary

Public Members public set

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectObserver)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectObserver): ConnectionDataObject: \*

return the dataObject in the controller

public set

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectReporter)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectReporter): ConnectionDataObject: \*

return the dataObject in the controller

public set

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-remotePeerInformation)(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \*

Set Remote peer information, like Hyperty.

public get

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-remotePeerInformation): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \*

Get information relative to the Remote Peer;

## Method Summary

Public Methods public

[accept](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-accept)(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to accept an incoming connection request.

public

[addPeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-addPeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

public

[changePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-changePeerInformation)(dataObjectObserver: \*)

public

[createAnswer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createAnswer)()

public

[createOffer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createOffer)()

public

[decline](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-decline)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to decline an incoming connection request.

public

[disableCam](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableCam)(): \*

public

[disableMic](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableMic)(): \*

public

[disconnect](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disconnect)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to close an existing connection instance.

public

[getUserMedia](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-getUserMedia)(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Get WebRTC API resources

public

[infoError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-infoError)(err: \*)

public

[mute](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-mute)(): \*

public

[onLocalSessionCreated](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-onLocalSessionCreated)(description: \*)

public

[processPeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-processPeerInformation)(data: \*)

public

[remoteDescriptionError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionError)(error: \*)

public

[remoteDescriptionSuccess](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionSuccess)()

public

[removePeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-removePeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to remove a peer from an existing connection instance.

## Public Constructors

### public constructor(syncher: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber14)

#### Params:

Name Type Attribute Description syncher \*

## Public Members

### public set dataObjectObserver(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber160)

Set the dataObject in the controller

### public get dataObjectObserver: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber173)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set dataObjectReporter(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber112)

Set the dataObject in the controller

### public get dataObjectReporter: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber151)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set remotePeerInformation(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber94)

Set Remote peer information, like Hyperty.

### public get remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber103)

Get information relative to the Remote Peer;

#### Return:

|  |  |
| --- | --- |
| [Object](https://developer.moz%20%20illa.org/en-US/docs/Web/JavaScrip%20t/R%20eference/Global_Objects/Object)</spa n> | remotePeerInformation; |

## Public Methods

### public accept(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber294)

Used to accept an incoming connection request.

#### Params:

Name Type Attribute Description options \*

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public addPeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber382)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public changePeerInformation(dataObjectObserver: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber200)

#### Params:

Name Type Attribute Description dataObjectObserver \*

### public createAnswer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber255)

### public createOffer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber246)

### public decline(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber334)

Used to decline an incoming connection request.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public disableCam(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber415)

#### Return:

|  |
| --- |
| \* |

### public disableMic(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber396)

#### Return:

|  |
| --- |
| \* |

### public disconnect(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber356)

Used to close an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public getUserMedia(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber183)

Get WebRTC API resources

#### Params:

Name Type Attribute Description options [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) Object containing the information that resources will be used (camera, mic, resolution, etc);

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public infoError(err: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber285)

#### Params:

Name Type Attribute Description err \*

### public mute(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber434)

#### Return:

|  |
| --- |
| \* |

### public onLocalSessionCreated(description: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber263)

#### Params:

Name Type Attribute Description description \*

### public processPeerInformation(data: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber213)

#### Params:

Name Type Attribute Description data \*

### public remoteDescriptionError(error: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber242)

#### Params:

Name Type Attribute Description error \*

### public remoteDescriptionSuccess() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber238)

### public removePeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber391)

Used to remove a peer from an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObject {#dataobject data-ice=“name”} ==========

You can directly use instance of this class. [dataObject](../../../variable/index.html#static-variable-dataObject)

## Member Summary

Public Members public get

[children](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-children): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

public get

[data](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data structure to be synchronized.

public get

[schema](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-schema): SchemaURL

Object schema URL (this field is not yet stable, and is subsject to change)

public get

[status](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-status): Status

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

public get

[url](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-url): ObjectURL

Object URL of reporter or observer

## Method Summary

Public Methods public

[addChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-addChildren)(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

Create and add a children to the subscription group.

public

[onAddChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-onAddChildren)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete childrens

## Public Members

### public get children: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber88)

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObject.js.html#lineNumber82)

Data structure to be synchronized.

### public get schema: SchemaURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber70)

Object schema URL (this field is not yet stable, and is subsject to change)

### public get status: Status [source](../../../file/src/syncher/DataObject.js.html#lineNumber76)

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

### public get url: ObjectURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber64)

Object URL of reporter or observer

## Public Methods

### public addChildren(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber127)

Create and add a children to the subscription group.

#### Params:

Name Type Attribute Description resource [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Resource name, one of the items in the schema.properties.scheme of the parent object.

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the child

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectChild](.%20./.%20./../class/src/syncher/DataObj%20ectChi%20ld.js~DataObjectChild.html) &g t; | Return Promise to a new Children. |

### public onAddChildren(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObject.js.html#lineNumber160)

Setup the callback to process create and delete childrens

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectChild {#dataobjectchild data-ice=“name”} ===============

You can directly use instance of this class. [dataObjectChild](../../../variable/index.html#static-variable-dataObjectChild)

## Member Summary

Public Members public get

[childId](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-childId): URL

Children ID generated on addChildren.

public get

[data](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data Structure to be synchronized.

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onChange)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter child

public

[onResponse](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the creates

## Public Members

### public get childId: URL [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber35)

Children ID generated on addChildren. Unique identifier

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber41)

Data Structure to be synchronized.

## Public Methods

### public onChange(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber47)

Register the change listeners sent by the reporter child

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber57)

Setup the callback to process response notifications of the creates

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectObserver {#dataobjectobserver data-ice=“name”} ==================

You can directly use instance of this class. [dataObjectObserver](../../../variable/index.html#static-variable-dataObjectObserver)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectObserver

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html#instance-method-onChange)(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter

## Public Methods

### public onChange(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectObserver.js.html#lineNumber38)

Register the change listeners sent by the reporter

#### Params:

Name Type Attribute Description filter [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Filter that identifies the field (separeted dot path). Accepts \* at the end for a more unrestricted filtering.

callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectReporter {#dataobjectreporter data-ice=“name”} ==================

You can directly use instance of this class. [dataObjectReporter](../../../variable/index.html#static-variable-dataObjectReporter)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectReporter

## Member Summary

Public Members public get

[subscriptions](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-get-subscriptions): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription>

Subscriptions requested and accepted to this reporter

## Method Summary

Public Methods public

[onResponse](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the create’s

public

[onSubscription](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onSubscription)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process subscribe and unsubscribe notifications

## Public Members

### public get subscriptions: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription> [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber38)

Subscriptions requested and accepted to this reporter

## Public Methods

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber52)

Setup the callback to process response notifications of the create’s

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onSubscription(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber44)

Setup the callback to process subscribe and unsubscribe notifications

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) CommunicationDataObjectSchema {#communicationdataobjectschema data-ice=“name”} =============================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → CommunicationDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber31)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) ConnectionDataObjectSchema {#connectiondataobjectschema data-ice=“name”} ==========================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ConnectionDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber37)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) ContextDataObjectSchema {#contextdataobjectschema data-ice=“name”} =======================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ContextDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber49)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectSchema {#dataobjectschema data-ice=“name”} ================

You can directly use instance of this class. [dataObjectSchema](../../../variable/index.html#static-variable-dataObjectSchema)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → DataObjectSchema

#### Direct Subclass:

[HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html), [MessageDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html)

#### Indirect Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyDataObjectSchema {#hypertydataobjectschema data-ice=“name”} =======================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → HypertyDataObjectSchema

#### Direct Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber23)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) IdentifyDataObjectSchema {#identifydataobjectschema data-ice=“name”} ========================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → IdentifyDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber43)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) MessageDataObjectSchema {#messagedataobjectschema data-ice=“name”} =======================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → MessageDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber17)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) EventEmitter {#eventemitter data-ice=“name”} ============

You can directly use instance of this class. [eventEmitter](../../../variable/index.html#static-variable-eventEmitter)

EventEmitter All classes which extends this, can have addEventListener and trigger events;

## Method Summary

Public Methods public

[addEventListener](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-addEventListener)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function))

addEventListener listen for an eventType

public

[trigger](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-trigger)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object))

Invoke the eventType

## Public Methods

### public addEventListener(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber12)

addEventListener listen for an eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) listening for this type of event

cb [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function) callback function will be executed when the event it is invoked

### public trigger(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber22)

Invoke the eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) event will be invoked

params [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) parameters will be passed to the addEventListener

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyDescriptor {#hypertydescriptor data-ice=“name”} =================

You can directly use instance of this class. [hypertyDescriptor](../../../variable/index.html#static-variable-hypertyDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-constraints): \*

public get

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-dataObjects): \*

public set

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-dataObjects): \*

public set

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-hypertyType): \*

public get

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-hypertyType): \*

public get

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-messageSchema): \*

public set

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-messageSchema): \*

public get

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*) [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* hypertyType \* dataObjects \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber28)

### public set configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber54)

### public get constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber32)

### public set constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber59)

### public get dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber24)

### public set dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber49)

### public set hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber44)

### public get hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber20)

### public get messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber36)

### public set messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber64)

### public get policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber40)

### public set policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber69)

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyDiscovery {#hypertydiscovery data-ice=“name”} ================

You can directly use instance of this class. [hypertyDiscovery](../../../variable/index.html#static-variable-hypertyDiscovery)

Core HypertyDiscovery interface Hyperty Discovery class provides the functionality to query hyperties instances registered in Domain registry\* for a given user

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-constructor-constructor)(runtimeURL: RuntimeURL, msgBus: MessageBus)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

## Method Summary

Public Methods public

[discoverHypertyPerUser](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-method-discoverHypertyPerUser)(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Function to request about users registered in domain registry, and return the hyperty instance if found.

## Public Constructors

### public constructor(runtimeURL: RuntimeURL, msgBus: MessageBus) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber14)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

#### Params:

Name Type Attribute Description runtimeURL RuntimeURL runtimeURL

msgBus MessageBus msgBus

## Public Methods

### public discoverHypertyPerUser(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber28)

Function to request about users registered in domain registry, and return the hyperty instance if found.

#### Params:

Name Type Attribute Description userIdentifier Identity.Identity

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan> | Promise |

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyRuntimeDescriptor {#hypertyruntimedescriptor data-ice=“name”} ========================

You can directly use instance of this class. [hypertyRuntimeDescriptor](../../../variable/index.html#static-variable-hypertyRuntimeDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyRuntimeDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*)

## Member Summary

Public Members public get

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-hypertyCapabilities): \*

public set

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-hypertyCapabilities): \*

public get

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-protocolCapabilities): \*

public set

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-protocolCapabilities): \*

public get

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-runtimeType): \*

public set

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-runtimeType): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*) [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* runtimeType \* hypertyCapabilities \* protocolCapabilities \*

## Public Members

### public get hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber29)

### public set hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber42)

### public get protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber33)

### public set protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber47)

### public get runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber25)

### public set runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber37)

Generated by [ESDoc(0.4.3)](https://esdoc.org) Message {#message data-ice=“name”} =======

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/Message.js~Message.html#instance-constructor-constructor)(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html))

Generates a message data object

## Member Summary

Public Members public get

[body](../../../class/src/message-factory/Message.js~Message.html#instance-get-body): [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)

The Message body

public set

[body](../../../class/src/message-factory/Message.js~Message.html#instance-set-body)(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \*

set the message body

public get

[from](../../../class/src/message-factory/Message.js~Message.html#instance-get-from): URL.URL

The sender of the Message.

public set

[from](../../../class/src/message-factory/Message.js~Message.html#instance-set-from)(sender: URL.URL): \*

set the sender of the Message

public get

[id](../../../class/src/message-factory/Message.js~Message.html#instance-get-id): [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)

The Message identifier.

public get

[to](../../../class/src/message-factory/Message.js~Message.html#instance-get-to): URL.URLList

The recipient of the Message.

public set

[to](../../../class/src/message-factory/Message.js~Message.html#instance-set-to)(recipientList: URL.URLList): \*

set the list of recipients

public get

[type](../../../class/src/message-factory/Message.js~Message.html#instance-get-type): [MessageType](../../../variable/index.html#static-variable-MessageType)

The Message type.

public set

[type](../../../class/src/message-factory/Message.js~Message.html#instance-set-type)(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \*

set the message type

## Method Summary

Public Methods public

[addAccessToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addAccessToken)(token: Identity.JWT): Message.Message

Add an access token to the given message

public

[addIdToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addIdToken)(token: Identity.JWT): Message.Message

Adds an Id token to the given message

public

[assertIdentity](../../../class/src/message-factory/Message.js~Message.html#instance-method-assertIdentity)(token: Identity.JWT, identity: Identity.Identity): Message.Message

Adds the asserted identity to the message body and removes the given token from the message

## Public Constructors

### public constructor(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)) [source](../../../file/src/message-factory/Message.js.html#lineNumber23)

Generates a message data object

#### Params:

Name Type Attribute Description id [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) To be used to associate Response messages to the initial request message.

from URL.URL URL of Hyperty instance or User associated with it

toList URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

type [MessageType](../../../variable/index.html#static-variable-MessageType) The URL of the reTHINK Data Object Resource associated with the message that can be used for routing purposes

body [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) Optionally, all message bodies exchanged between different Runtime Messge BUS can contain JWT tokens for Access Control for Identity Assertion purposes that are inserted by the Identity Module before the message is routed to proto stubs

## Public Members

### public get body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) [source](../../../file/src/message-factory/Message.js.html#lineNumber60)

The Message body

### public set body(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber84)

set the message body

### public get from: URL.URL [source](../../../file/src/message-factory/Message.js.html#lineNumber42)

The sender of the Message.

### public set from(sender: URL.URL): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber66)

set the sender of the Message

### public get id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) [source](../../../file/src/message-factory/Message.js.html#lineNumber36)

The Message identifier.

### public get to: URL.URLList [source](../../../file/src/message-factory/Message.js.html#lineNumber48)

The recipient of the Message.

### public set to(recipientList: URL.URLList): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber93)

set the list of recipients

### public get type: [MessageType](../../../variable/index.html#static-variable-MessageType) [source](../../../file/src/message-factory/Message.js.html#lineNumber54)

The Message type.

### public set type(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber75)

set the message type

## Public Methods

### public addAccessToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber136)

Add an access token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT token to be added to the given message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated Message |

### public addIdToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber122)

Adds an Id token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT identity token to include in the message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated message |

### public assertIdentity(token: Identity.JWT, identity: Identity.Identity): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber104)

Adds the asserted identity to the message body and removes the given token from the message

#### Params:

Name Type Attribute Description token Identity.JWT idToken to remove from message

identity Identity.Identity asserted identity to include

#### Return:

|  |  |
| --- | --- |
| Message.Message | message - updated message |

Generated by [ESDoc(0.4.3)](https://esdoc.org) CreateMessageBody {#createmessagebody data-ice=“name”} =================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → CreateMessageBody

Class representation of the CreateMessageBody object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-constructor-constructor)(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-policy): \*

public set

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-policy): \*

public get

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-value): \*

public set

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-value): \*

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber123)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format.

policy URL.URL URL from where access policy control can be downloaded

idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber139)

### public set policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber141)

### public get value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber132)

### public set value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber134)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DeleteMessageBody {#deletemessagebody data-ice=“name”} =================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → DeleteMessageBody

Class representation of the DeleteMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber193)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

Generated by [ESDoc(0.4.3)](https://esdoc.org) ForwardMessageBody {#forwardmessagebody data-ice=“name”} ==================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ForwardMessageBody

Class representation of the ForwardMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber240)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

message [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be forwarded

Generated by [ESDoc(0.4.3)](https://esdoc.org) MessageBody {#messagebody data-ice=“name”} ===========

#### Direct Subclass:

[CreateMessageBody](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html), [DeleteMessageBody](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html), [ForwardMessageBody](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html), [ReadMessageBody](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html), [ResponseMessageBody](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html), [UpdateMessageBody](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber18)

#### Params:

Name Type Attribute Description idToken Identity.JWT token for Identity assertion purpose

accessToken Identity.JWT token for access control

resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get accessToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber42)

Get the access token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set accessToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber75)

set the access token

### public get assertedIdentity: Identity.Identity: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber60)

Return the asserted Identity

#### Return:

|  |
| --- |
| Identity.Identity |

### public set assertedIdentity(assertedIdentity: Identity.Identity): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber102)

set the asserted identity

### public get idToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber36)

Get the id token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set idToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber66)

set the token identifier

### public get resource: URL.URL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber48)

The the resource URL

#### Return:

|  |
| --- |
| URL.URL |

### public set resource: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber84)

set the resource

### public get schema: URL.HypertyCatalogueURL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber54)

Return the URL of the schema on the HypertyCatalogue

#### Return:

|  |
| --- |
| URL.HypertyCatalogueURL |

### public set schema(schema: URL.HypertyCatalogueURL): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber93)

set the schema URL

Generated by [ESDoc(0.4.3)](https://esdoc.org) ReadMessageBody {#readmessagebody data-ice=“name”} ===============

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ReadMessageBody

Class representation of the ReadMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber164)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the objec

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be read (optional)

criteriaSyntax [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria syntax used in criteria field. To be used for search purposes. Valid criteria Syntax are: “key-value”, “mongodb”, “sql”(?), …

criteria [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria to be used for search purposes. Syntax used to define the criteria is set in the criteriaSyntax.

Generated by [ESDoc(0.4.3)](https://esdoc.org) ResponseMessageBody {#responsemessagebody data-ice=“name”} ===================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ResponseMessageBody

Class representation of the ResponseMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*)

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber263)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

code \* A response code compliant with HTTP response codes (RFC7231)

value \* Contains a data value in JSON format. Applicable to Responses to READ MessageType.

Generated by [ESDoc(0.4.3)](https://esdoc.org) UpdateMessageBody {#updatemessagebody data-ice=“name”} =================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → UpdateMessageBody

Class representation of the UpdateMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber218)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the updated value object in JSON format.

Generated by [ESDoc(0.4.3)](https://esdoc.org) IdGenerator {#idgenerator data-ice=“name”} ===========

Message Identifier Generator that generates the id used to identifier message transactions

## Method Summary

Public Methods public

\* [idMaker](../../../class/src/message-factory/MessageFactory.js~IdGenerator.html#instance-method-idMaker)()

## Public Methods

### public \* idMaker() [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber219)

Generated by [ESDoc(0.4.3)](https://esdoc.org) MessageFactory {#messagefactory data-ice=“name”} ==============

You can directly use instance of this class. [messageFactory](../../../variable/index.html#static-variable-messageFactory)

#### Extends:

[RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) → MessageFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor to be used to instantiate an object of the Message Factory

## Member Summary

Public Members public

[myGenerator](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-member-myGenerator): \*

## Method Summary

Public Methods public

[createCreateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createCreateMessageRequest)(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \*

Creates a Message of TYPE CREATE and Create Message Body

public

[createDeleteMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createDeleteMessageRequest)(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Create Delete Message of Type DELETE and delete message body

public

[createForwardMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createForwardMessageRequest)(from: URL.URL, to-: URL.URLList, message: \*): Message.Message

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

public

[createMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createMessageResponse)(message: \*, code: \*, value: \*, source: \*): \*

Creates the response to the Message

public

[createReadMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createReadMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Creates a Message of type READ

public

[createSubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createSubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type SUBSCRIBE

public

[createUnsubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUnsubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type UNSUBSCRIBE

public

[createUpdateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUpdateMessageRequest)(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message

Creates an Update Message Request

public

[generateMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-generateMessageResponse)(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \*

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

public

[validate](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-validate)(data: \*): \*

Validates the message against the reTHINK Message Data Schema

## Inherited Summary

From class [RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber20)

Constructor to be used to instantiate an object of the Message Factory

#### Override:

[RethinkObject#constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the reTHINK Message Data Schema

## Public Members

### public myGenerator: \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber23)

## Public Methods

### public createCreateMessageRequest(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber44)

Creates a Message of TYPE CREATE and Create Message Body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format

policy URL.URL the sender of this message

#### Return:

|  |
| --- |
| \* |

### public createDeleteMessageRequest(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber83)

Create Delete Message of Type DELETE and delete message body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be deleted

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Delete Message Request |

### public createForwardMessageRequest(from: URL.URL, to-: URL.URLList, message: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber63)

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

message \* {Message.Message} message - the message to be forwarded

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Forward Message Request |

### public createMessageResponse(message: \*, code: \*, value: \*, source: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber177)

Creates the response to the Message

#### Params:

Name Type Attribute Description message \* the message request from which the response should be generated

code \* the response code compliant with HTTP response codes (RFC7231).

value \* contains a data value in JSON format. Applicable to Responses to READ MessageType.

source \* Contains the original creator of the response. Useful to identify the real source of the response to a one-to-many message delivery ie multiple responses coming coming from different sources.

#### Return:

|  |
| --- |
| \* |

### public createReadMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber124)

Creates a Message of type READ

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be read

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Read message request |

### public createSubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber142)

Creates a Message of type SUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUnsubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber159)

Creates a Message of type UNSUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUpdateMessageRequest(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber105)

Creates an Update Message Request

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

{URL.URLList}to \* One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value \* The new value of the attribute to be updated

resource URL.URL URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be updated

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Update message request |

### public generateMessageResponse(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber199)

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

#### Params:

Name Type Attribute Description data [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be updated

code ResponseCode response code compliant with HTTP response codes (RFC7231).

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains a data value in JSON format.

#### Return:

|  |
| --- |
| \* |

### public validate(data: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber31)

Validates the message against the reTHINK Message Data Schema

#### Override:

[RethinkObject#validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| \* |

Generated by [ESDoc(0.4.3)](https://esdoc.org) OwnerPeer {#ownerpeer data-ice=“name”} =========

You can directly use instance of this class. [ownerPeer](../../../variable/index.html#static-variable-ownerPeer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/OwnerPeer.js~OwnerPeer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/OwnerPeer.js.html#lineNumber3)

Generated by [ESDoc(0.4.3)](https://esdoc.org) Peer {#peer data-ice=“name”} ====

You can directly use instance of this class. [peer](../../../variable/index.html#static-variable-peer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Peer.js~Peer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Peer.js.html#lineNumber3)

Generated by [ESDoc(0.4.3)](https://esdoc.org) PolicyEnforcerDescriptor {#policyenforcerdescriptor data-ice=“name”} ========================

You can directly use instance of this class. [policyEnforcerDescriptor](../../../variable/index.html#static-variable-policyEnforcerDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → PolicyEnforcerDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-configuration): \*

public get

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*) [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber7)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* configuration \* policies \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber14)

### public set configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber26)

### public get policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber18)

### public set policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber22)

Generated by [ESDoc(0.4.3)](https://esdoc.org) ProtocolStubDescriptor {#protocolstubdescriptor data-ice=“name”} ======================

You can directly use instance of this class. [protocolStubDescriptor](../../../variable/index.html#static-variable-protocolStubDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → ProtocolStubDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-constraints): \*

public get

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-messageSchemas): \*

public set

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-messageSchemas): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*) [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* messageSchemas \* configuration \* constraints \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber33)

### public set configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber47)

### public get constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber29)

### public set constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber42)

### public get messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber25)

### public set messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber37)

Generated by [ESDoc(0.4.3)](https://esdoc.org) RethinkObject {#rethinkobject data-ice=“name”} =============

#### Direct Subclass:

[MessageFactory](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)(validation: \*, schema: \*)

## Member Summary

Public Members public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

## Method Summary

Public Methods public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: \*, schema: \*) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber5)

#### Params:

Name Type Attribute Description validation \* schema \*

## Public Members

### public schema: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber10)

### public validation: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber9)

## Public Methods

### public validate(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber13)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) |

Generated by [ESDoc(0.4.3)](https://esdoc.org) RuntimeConstraint {#runtimeconstraint data-ice=“name”} =================

You can directly use instance of this class. [runtimeConstraint](../../../variable/index.html#static-variable-runtimeConstraint)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-constructor-constructor)(constraint: \*, runtimeHypertyCapabilityType: \*)

## Member Summary

Public Members public get

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-constraint): \*

public set

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-constraint): \*

public get

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-runtimeHypertyCapabilityType): \*

public set

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-runtimeHypertyCapabilityType): \*

## Public Constructors

### public constructor(constraint: \*, runtimeHypertyCapabilityType: \*) [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber6)

#### Params:

Name Type Attribute Description constraint \* runtimeHypertyCapabilityType \*

## Public Members

### public get constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber11)

### public set constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber19)

### public get runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber15)

### public set runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber24)

Generated by [ESDoc(0.4.3)](https://esdoc.org) SourcePackage {#sourcepackage data-ice=“name”} =============

You can directly use instance of this class. [sourcePackage](../../../variable/index.html#static-variable-sourcePackage)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-constructor-constructor)(sourceCodeClassname: \*, sourceCode: \*)

## Member Summary

Public Members public get

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-encoding): \*

public set

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-encoding): \*

public get

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-signature): \*

public set

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-signature): \*

public get

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCode): \*

public set

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCode): \*

public get

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCodeClassname): \*

public set

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCodeClassname): \*

## Public Constructors

### public constructor(sourceCodeClassname: \*, sourceCode: \*) [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber5)

#### Params:

Name Type Attribute Description sourceCodeClassname \* sourceCode \*

## Public Members

### public get encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber21)

### public set encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber29)

### public get signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber25)

### public set signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber34)

### public get sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber13)

### public set sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber39)

### public get sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber17)

### public set sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber44)

Generated by [ESDoc(0.4.3)](https://esdoc.org) Syncher {#syncher data-ice=“name”} =======

You can directly use instance of this class. [syncher](../../../variable/index.html#static-variable-syncher)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/syncher/Syncher.js~Syncher.html#instance-constructor-constructor)(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON))

Constructor that should be used by the Hyperty owner

## Member Summary

Public Members public get

[observers](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-observers): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

All owned observers, the ones that were created by a local subscription

public get

[owner](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-owner): HypertyURL

The owner of the Syncher and all created reporters.

public get

[reporters](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-reporters): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

All owned reporters, the ones that were created by a create

## Method Summary

Public Methods public

[create](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-create)(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

Request a DataObjectReporter creation.

public

[onNotification](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-onNotification)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete events of remove Reporter objects.

public

[subscribe](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-subscribe)(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

Request a subscription to an existent object.

## Public Constructors

### public constructor(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber30)

Constructor that should be used by the Hyperty owner

#### Params:

Name Type Attribute Description owner HypertyURL Hyperty URL owner

bus MiniBus The internal sandbox MiniBus used by the Hyperty

config [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) The only required field for now is runtimeURL

## Public Members

### public get observers: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber67)

All owned observers, the ones that were created by a local subscription

### public get owner: HypertyURL [source](../../../file/src/syncher/Syncher.js.html#lineNumber55)

The owner of the Syncher and all created reporters.

### public get reporters: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber61)

All owned reporters, the ones that were created by a create

## Public Methods

### public create(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber76)

Request a DataObjectReporter creation. The URL will be be requested by the allocation mechanism.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

observers HypertyURL[] List of hyperties that are pre-authorized for subscription

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the reporter

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectReporter](.%20./../../class/src/syncher/Data%20Object%20Reporter.js~DataObjectRepor%20ter.html) > | Return Promise to a new Reporter. The reporter can be accepted or rejected by the PEP |

### public onNotification(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber147)

Setup the callback to process create and delete events of remove Reporter objects. This is releated to the messagens sent by create to the observers Hyperty array.

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public subscribe(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber110)

Request a subscription to an existent object.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

objURL ObjectURL Address of the existent reporter object

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectObserver](.%20./../../class/src/syncher/Data%20Object%20Observer.js~DataObjectObser%20ver.html) > | Return Promise to a new observer. |

Generated by [ESDoc(0.4.3)](https://esdoc.org) CatalogueDataObject {#cataloguedataobject data-ice=“name”} ===================

You can directly use instance of this class. [catalogueDataObject](../../../variable/index.html#static-variable-catalogueDataObject)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

Creates the Catalogue Data Object

## Member Summary

Public Members public get

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-description): \*

public set

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-description): \*

public get

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-guid): \*

public set

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-guid): \*

public get

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-language): \*

public set

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-language): \*

public get

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-objectName): \*

public set

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-objectName): \*

public set

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-signature)(signature: \*): \*

Set the signature to enables integrity and authenticity verification

public get

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-signature): \*

public set

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackage): \*

public get

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackage): \*

public get

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackageURL): \*

public set

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackageURL): \*

public set

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-type): \*

public get

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-type): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber18)

Creates the Catalogue Data Object

#### Params:

Name Type Attribute Description guid \* Global Unique identifier of the Catalogue Object (e.g. Hyperty descriptor, ProtocolStub descriptor, etc) enabling the same object to be stored and discovered in different Catalogues. That means, guid corresponds to [resource-type-id] per BNF of Resource Path. Couldn’t we have problems with too long URL paths?

type \* indicates the type of Catalogue Data Object e.g. Hyperty, ProtocolStub, etc

objectName \* human-understandable name of the catalogue object e.g. “My Awesome Hyperty”

description \* description of the source package

language \* the programming language used in the SourcePackage.SourceCode

sourcePackageURL \* A string containing the URL from where the source code package of the corresponding catalogue object, e.g. deployable packages containing executable code for Hyperties or ProtoStubs, can be downloaded

## Public Members

### public get description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber43)

### public set description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber94)

### public get guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber31)

### public set guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber79)

### public get language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber47)

### public set language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber99)

### public get objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber39)

### public set objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber89)

### public set signature(signature: \*): \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber69)

Set the signature to enables integrity and authenticity verification

### public get signature: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber51)

### public set sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber74)

### public get sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber55)

### public get sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber59)

### public set sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber104)

### public set type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber84)

### public get type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber35)

Generated by [ESDoc(0.4.3)](https://esdoc.org) CatalogueDataObjectFactory {#cataloguedataobjectfactory data-ice=“name”} ==========================

You can directly use instance of this class. [catalogueDataObjectFactory](../../../variable/index.html#static-variable-catalogueDataObjectFactory)

#### Extends:

src/reTHINKObject/RethinkObject~RethinkObject → CatalogueDataObjectFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor

## Method Summary

Public Methods public

[createCatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createCatalogueDataObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html)

Create CatalogueDataObject

public

[createDataObjectSchema](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createDataObjectSchema)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html)

Create DataObjectSchema

public

[createHypertyDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html)

Create HypertyDescriptor

public

[createHypertyRuntimeDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyRuntimeDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html)

Create HypertyRuntimeDescriptor

public

[createPolicyEnforcerDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createPolicyEnforcerDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html)

Create PolicyEnforcerDescriptor

public

[createProtoStubDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createProtoStubDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html)

Create ProtocolStubDescriptor

public

[createSourcePackage](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createSourcePackage)(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html)

Create SourcePackage

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber29)

Constructor

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the schema

## Public Methods

### public createCatalogueDataObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber43)

Create CatalogueDataObject

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

type [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType) Indicates the type of Catalogue Data Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) |

### public createDataObjectSchema(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber179)

Create DataObjectSchema

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) |

### public createHypertyDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber67)

Create HypertyDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

hypertyType int A tag that identifies what type of hyperty is described in the object.

dataObjects URL.URLList Defines the Data Object Schemas supported by the Hyperty through a list of Catalogue URLs from where these schemas can be reached.

#### Return:

|  |
| --- |
| [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) |

### public createHypertyRuntimeDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber124)

Create HypertyRuntimeDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

runtimeType \* hypertyCapabilities \* Supported capabilities to execute Hyperties

protocolCapabilities \* Supported capabilities to execute Protocol Stubs

#### Return:

|  |
| --- |
| [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) |

### public createPolicyEnforcerDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber153)

Create PolicyEnforcerDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

configuration \* policies \*

#### Return:

|  |
| --- |
| [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) |

### public createProtoStubDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber95)

Create ProtocolStubDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

messageSchemas URL.URL Defines the Schema describing the Message Data Model used by the Hyperty through the Catalogue URL from where the Message schema can be reached. If not defined, by default it is assumed the standard Message Model is used.

configuration \* Data required to configure the ProtocolStub

constraints \* Describes capabilities required from the Hyperty Runtime in order to be able to execute the ProtocolStub

#### Return:

|  |
| --- |
| [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) |

### public createSourcePackage(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber198)

Create SourcePackage

#### Params:

Name Type Attribute Description sourceCodeClassname \* The Class-name of the SourceCode

sourceCode \* The source code of the catalogue object

#### Return:

|  |
| --- |
| [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) |

Generated by [ESDoc(0.4.3)](https://esdoc.org) Connection {#connection data-ice=“name”} ==========

You can directly use instance of this class. [connection](../../../variable/index.html#static-variable-connection)

#### Extends:

[Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) → Connection

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Connection.js~Connection.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Connection.js.html#lineNumber31)

Generated by [ESDoc(0.4.3)](https://esdoc.org) ConnectionController {#connectioncontroller data-ice=“name”} ====================

You can directly use instance of this class. [connectionController](../../../variable/index.html#static-variable-connectionController)

#### Extends:

src/utils/EventEmitter~EventEmitter → ConnectionController

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-constructor-constructor)(syncher: \*)

## Member Summary

Public Members public set

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectObserver)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectObserver): ConnectionDataObject: \*

return the dataObject in the controller

public set

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectReporter)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectReporter): ConnectionDataObject: \*

return the dataObject in the controller

public set

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-remotePeerInformation)(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \*

Set Remote peer information, like Hyperty.

public get

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-remotePeerInformation): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \*

Get information relative to the Remote Peer;

## Method Summary

Public Methods public

[accept](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-accept)(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to accept an incoming connection request.

public

[addPeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-addPeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

public

[changePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-changePeerInformation)(dataObjectObserver: \*)

public

[createAnswer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createAnswer)()

public

[createOffer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createOffer)()

public

[decline](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-decline)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to decline an incoming connection request.

public

[disableCam](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableCam)(): \*

public

[disableMic](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableMic)(): \*

public

[disconnect](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disconnect)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to close an existing connection instance.

public

[getUserMedia](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-getUserMedia)(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Get WebRTC API resources

public

[infoError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-infoError)(err: \*)

public

[mute](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-mute)(): \*

public

[onLocalSessionCreated](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-onLocalSessionCreated)(description: \*)

public

[processPeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-processPeerInformation)(data: \*)

public

[remoteDescriptionError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionError)(error: \*)

public

[remoteDescriptionSuccess](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionSuccess)()

public

[removePeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-removePeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to remove a peer from an existing connection instance.

## Public Constructors

### public constructor(syncher: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber14)

#### Params:

Name Type Attribute Description syncher \*

## Public Members

### public set dataObjectObserver(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber160)

Set the dataObject in the controller

### public get dataObjectObserver: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber173)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set dataObjectReporter(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber112)

Set the dataObject in the controller

### public get dataObjectReporter: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber151)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set remotePeerInformation(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber94)

Set Remote peer information, like Hyperty.

### public get remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber103)

Get information relative to the Remote Peer;

#### Return:

|  |  |
| --- | --- |
| [Object](https://developer.moz%20%20illa.org/en-US/docs/Web/JavaScrip%20t/R%20eference/Global_Objects/Object)</spa n> | remotePeerInformation; |

## Public Methods

### public accept(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber294)

Used to accept an incoming connection request.

#### Params:

Name Type Attribute Description options \*

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public addPeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber382)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public changePeerInformation(dataObjectObserver: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber200)

#### Params:

Name Type Attribute Description dataObjectObserver \*

### public createAnswer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber255)

### public createOffer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber246)

### public decline(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber334)

Used to decline an incoming connection request.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public disableCam(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber415)

#### Return:

|  |
| --- |
| \* |

### public disableMic(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber396)

#### Return:

|  |
| --- |
| \* |

### public disconnect(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber356)

Used to close an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public getUserMedia(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber183)

Get WebRTC API resources

#### Params:

Name Type Attribute Description options [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) Object containing the information that resources will be used (camera, mic, resolution, etc);

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public infoError(err: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber285)

#### Params:

Name Type Attribute Description err \*

### public mute(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber434)

#### Return:

|  |
| --- |
| \* |

### public onLocalSessionCreated(description: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber263)

#### Params:

Name Type Attribute Description description \*

### public processPeerInformation(data: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber213)

#### Params:

Name Type Attribute Description data \*

### public remoteDescriptionError(error: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber242)

#### Params:

Name Type Attribute Description error \*

### public remoteDescriptionSuccess() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber238)

### public removePeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber391)

Used to remove a peer from an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObject {#dataobject data-ice=“name”} ==========

You can directly use instance of this class. [dataObject](../../../variable/index.html#static-variable-dataObject)

## Member Summary

Public Members public get

[children](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-children): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

public get

[data](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data structure to be synchronized.

public get

[schema](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-schema): SchemaURL

Object schema URL (this field is not yet stable, and is subsject to change)

public get

[status](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-status): Status

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

public get

[url](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-url): ObjectURL

Object URL of reporter or observer

## Method Summary

Public Methods public

[addChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-addChildren)(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

Create and add a children to the subscription group.

public

[onAddChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-onAddChildren)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete childrens

## Public Members

### public get children: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber88)

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObject.js.html#lineNumber82)

Data structure to be synchronized.

### public get schema: SchemaURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber70)

Object schema URL (this field is not yet stable, and is subsject to change)

### public get status: Status [source](../../../file/src/syncher/DataObject.js.html#lineNumber76)

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

### public get url: ObjectURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber64)

Object URL of reporter or observer

## Public Methods

### public addChildren(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber127)

Create and add a children to the subscription group.

#### Params:

Name Type Attribute Description resource [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Resource name, one of the items in the schema.properties.scheme of the parent object.

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the child

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectChild](.%20./.%20./../class/src/syncher/DataObj%20ectChi%20ld.js~DataObjectChild.html) &g t; | Return Promise to a new Children. |

### public onAddChildren(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObject.js.html#lineNumber160)

Setup the callback to process create and delete childrens

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectChild {#dataobjectchild data-ice=“name”} ===============

You can directly use instance of this class. [dataObjectChild](../../../variable/index.html#static-variable-dataObjectChild)

## Member Summary

Public Members public get

[childId](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-childId): URL

Children ID generated on addChildren.

public get

[data](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data Structure to be synchronized.

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onChange)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter child

public

[onResponse](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the creates

## Public Members

### public get childId: URL [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber35)

Children ID generated on addChildren. Unique identifier

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber41)

Data Structure to be synchronized.

## Public Methods

### public onChange(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber47)

Register the change listeners sent by the reporter child

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber57)

Setup the callback to process response notifications of the creates

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectObserver {#dataobjectobserver data-ice=“name”} ==================

You can directly use instance of this class. [dataObjectObserver](../../../variable/index.html#static-variable-dataObjectObserver)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectObserver

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html#instance-method-onChange)(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter

## Public Methods

### public onChange(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectObserver.js.html#lineNumber38)

Register the change listeners sent by the reporter

#### Params:

Name Type Attribute Description filter [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Filter that identifies the field (separeted dot path). Accepts \* at the end for a more unrestricted filtering.

callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectReporter {#dataobjectreporter data-ice=“name”} ==================

You can directly use instance of this class. [dataObjectReporter](../../../variable/index.html#static-variable-dataObjectReporter)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectReporter

## Member Summary

Public Members public get

[subscriptions](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-get-subscriptions): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription>

Subscriptions requested and accepted to this reporter

## Method Summary

Public Methods public

[onResponse](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the create’s

public

[onSubscription](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onSubscription)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process subscribe and unsubscribe notifications

## Public Members

### public get subscriptions: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription> [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber38)

Subscriptions requested and accepted to this reporter

## Public Methods

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber52)

Setup the callback to process response notifications of the create’s

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onSubscription(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber44)

Setup the callback to process subscribe and unsubscribe notifications

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org) CommunicationDataObjectSchema {#communicationdataobjectschema data-ice=“name”} =============================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → CommunicationDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber31)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) ConnectionDataObjectSchema {#connectiondataobjectschema data-ice=“name”} ==========================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ConnectionDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber37)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) ContextDataObjectSchema {#contextdataobjectschema data-ice=“name”} =======================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ContextDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber49)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) DataObjectSchema {#dataobjectschema data-ice=“name”} ================

You can directly use instance of this class. [dataObjectSchema](../../../variable/index.html#static-variable-dataObjectSchema)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → DataObjectSchema

#### Direct Subclass:

[HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html), [MessageDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html)

#### Indirect Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyDataObjectSchema {#hypertydataobjectschema data-ice=“name”} =======================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → HypertyDataObjectSchema

#### Direct Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber23)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) IdentifyDataObjectSchema {#identifydataobjectschema data-ice=“name”} ========================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → IdentifyDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber43)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) MessageDataObjectSchema {#messagedataobjectschema data-ice=“name”} =======================

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → MessageDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber17)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

Generated by [ESDoc(0.4.3)](https://esdoc.org) EventEmitter {#eventemitter data-ice=“name”} ============

You can directly use instance of this class. [eventEmitter](../../../variable/index.html#static-variable-eventEmitter)

EventEmitter All classes which extends this, can have addEventListener and trigger events;

## Method Summary

Public Methods public

[addEventListener](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-addEventListener)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function))

addEventListener listen for an eventType

public

[trigger](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-trigger)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object))

Invoke the eventType

## Public Methods

### public addEventListener(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber12)

addEventListener listen for an eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) listening for this type of event

cb [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function) callback function will be executed when the event it is invoked

### public trigger(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber22)

Invoke the eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) event will be invoked

params [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) parameters will be passed to the addEventListener

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyDescriptor {#hypertydescriptor data-ice=“name”} =================

You can directly use instance of this class. [hypertyDescriptor](../../../variable/index.html#static-variable-hypertyDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-constraints): \*

public get

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-dataObjects): \*

public set

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-dataObjects): \*

public set

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-hypertyType): \*

public get

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-hypertyType): \*

public get

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-messageSchema): \*

public set

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-messageSchema): \*

public get

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*) [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* hypertyType \* dataObjects \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber28)

### public set configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber54)

### public get constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber32)

### public set constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber59)

### public get dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber24)

### public set dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber49)

### public set hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber44)

### public get hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber20)

### public get messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber36)

### public set messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber64)

### public get policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber40)

### public set policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber69)

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyDiscovery {#hypertydiscovery data-ice=“name”} ================

You can directly use instance of this class. [hypertyDiscovery](../../../variable/index.html#static-variable-hypertyDiscovery)

Core HypertyDiscovery interface Hyperty Discovery class provides the functionality to query hyperties instances registered in Domain registry\* for a given user

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-constructor-constructor)(runtimeURL: RuntimeURL, msgBus: MessageBus)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

## Method Summary

Public Methods public

[discoverHypertyPerUser](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-method-discoverHypertyPerUser)(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Function to request about users registered in domain registry, and return the hyperty instance if found.

## Public Constructors

### public constructor(runtimeURL: RuntimeURL, msgBus: MessageBus) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber14)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

#### Params:

Name Type Attribute Description runtimeURL RuntimeURL runtimeURL

msgBus MessageBus msgBus

## Public Methods

### public discoverHypertyPerUser(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber28)

Function to request about users registered in domain registry, and return the hyperty instance if found.

#### Params:

Name Type Attribute Description userIdentifier Identity.Identity

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan> | Promise |

Generated by [ESDoc(0.4.3)](https://esdoc.org) HypertyRuntimeDescriptor {#hypertyruntimedescriptor data-ice=“name”} ========================

You can directly use instance of this class. [hypertyRuntimeDescriptor](../../../variable/index.html#static-variable-hypertyRuntimeDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyRuntimeDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*)

## Member Summary

Public Members public get

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-hypertyCapabilities): \*

public set

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-hypertyCapabilities): \*

public get

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-protocolCapabilities): \*

public set

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-protocolCapabilities): \*

public get

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-runtimeType): \*

public set

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-runtimeType): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*) [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* runtimeType \* hypertyCapabilities \* protocolCapabilities \*

## Public Members

### public get hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber29)

### public set hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber42)

### public get protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber33)

### public set protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber47)

### public get runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber25)

### public set runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber37)

Generated by [ESDoc(0.4.3)](https://esdoc.org) Message {#message data-ice=“name”} =======

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/Message.js~Message.html#instance-constructor-constructor)(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html))

Generates a message data object

## Member Summary

Public Members public get

[body](../../../class/src/message-factory/Message.js~Message.html#instance-get-body): [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)

The Message body

public set

[body](../../../class/src/message-factory/Message.js~Message.html#instance-set-body)(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \*

set the message body

public get

[from](../../../class/src/message-factory/Message.js~Message.html#instance-get-from): URL.URL

The sender of the Message.

public set

[from](../../../class/src/message-factory/Message.js~Message.html#instance-set-from)(sender: URL.URL): \*

set the sender of the Message

public get

[id](../../../class/src/message-factory/Message.js~Message.html#instance-get-id): [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)

The Message identifier.

public get

[to](../../../class/src/message-factory/Message.js~Message.html#instance-get-to): URL.URLList

The recipient of the Message.

public set

[to](../../../class/src/message-factory/Message.js~Message.html#instance-set-to)(recipientList: URL.URLList): \*

set the list of recipients

public get

[type](../../../class/src/message-factory/Message.js~Message.html#instance-get-type): [MessageType](../../../variable/index.html#static-variable-MessageType)

The Message type.

public set

[type](../../../class/src/message-factory/Message.js~Message.html#instance-set-type)(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \*

set the message type

## Method Summary

Public Methods public

[addAccessToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addAccessToken)(token: Identity.JWT): Message.Message

Add an access token to the given message

public

[addIdToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addIdToken)(token: Identity.JWT): Message.Message

Adds an Id token to the given message

public

[assertIdentity](../../../class/src/message-factory/Message.js~Message.html#instance-method-assertIdentity)(token: Identity.JWT, identity: Identity.Identity): Message.Message

Adds the asserted identity to the message body and removes the given token from the message

## Public Constructors

### public constructor(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)) [source](../../../file/src/message-factory/Message.js.html#lineNumber23)

Generates a message data object

#### Params:

Name Type Attribute Description id [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) To be used to associate Response messages to the initial request message.

from URL.URL URL of Hyperty instance or User associated with it

toList URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

type [MessageType](../../../variable/index.html#static-variable-MessageType) The URL of the reTHINK Data Object Resource associated with the message that can be used for routing purposes

body [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) Optionally, all message bodies exchanged between different Runtime Messge BUS can contain JWT tokens for Access Control for Identity Assertion purposes that are inserted by the Identity Module before the message is routed to proto stubs

## Public Members

### public get body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) [source](../../../file/src/message-factory/Message.js.html#lineNumber60)

The Message body

### public set body(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber84)

set the message body

### public get from: URL.URL [source](../../../file/src/message-factory/Message.js.html#lineNumber42)

The sender of the Message.

### public set from(sender: URL.URL): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber66)

set the sender of the Message

### public get id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) [source](../../../file/src/message-factory/Message.js.html#lineNumber36)

The Message identifier.

### public get to: URL.URLList [source](../../../file/src/message-factory/Message.js.html#lineNumber48)

The recipient of the Message.

### public set to(recipientList: URL.URLList): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber93)

set the list of recipients

### public get type: [MessageType](../../../variable/index.html#static-variable-MessageType) [source](../../../file/src/message-factory/Message.js.html#lineNumber54)

The Message type.

### public set type(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber75)

set the message type

## Public Methods

### public addAccessToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber136)

Add an access token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT token to be added to the given message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated Message |

### public addIdToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber122)

Adds an Id token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT identity token to include in the message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated message |

### public assertIdentity(token: Identity.JWT, identity: Identity.Identity): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber104)

Adds the asserted identity to the message body and removes the given token from the message

#### Params:

Name Type Attribute Description token Identity.JWT idToken to remove from message

identity Identity.Identity asserted identity to include

#### Return:

|  |  |
| --- | --- |
| Message.Message | message - updated message |

Generated by [ESDoc(0.4.3)](https://esdoc.org) CreateMessageBody {#createmessagebody data-ice=“name”} =================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → CreateMessageBody

Class representation of the CreateMessageBody object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-constructor-constructor)(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-policy): \*

public set

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-policy): \*

public get

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-value): \*

public set

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-value): \*

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber123)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format.

policy URL.URL URL from where access policy control can be downloaded

idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber139)

### public set policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber141)

### public get value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber132)

### public set value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber134)

Generated by [ESDoc(0.4.3)](https://esdoc.org) DeleteMessageBody {#deletemessagebody data-ice=“name”} =================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → DeleteMessageBody

Class representation of the DeleteMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber193)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

Generated by [ESDoc(0.4.3)](https://esdoc.org) ForwardMessageBody {#forwardmessagebody data-ice=“name”} ==================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ForwardMessageBody

Class representation of the ForwardMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber240)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

message [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be forwarded

Generated by [ESDoc(0.4.3)](https://esdoc.org) MessageBody {#messagebody data-ice=“name”} ===========

#### Direct Subclass:

[CreateMessageBody](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html), [DeleteMessageBody](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html), [ForwardMessageBody](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html), [ReadMessageBody](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html), [ResponseMessageBody](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html), [UpdateMessageBody](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber18)

#### Params:

Name Type Attribute Description idToken Identity.JWT token for Identity assertion purpose

accessToken Identity.JWT token for access control

resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get accessToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber42)

Get the access token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set accessToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber75)

set the access token

### public get assertedIdentity: Identity.Identity: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber60)

Return the asserted Identity

#### Return:

|  |
| --- |
| Identity.Identity |

### public set assertedIdentity(assertedIdentity: Identity.Identity): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber102)

set the asserted identity

### public get idToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber36)

Get the id token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set idToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber66)

set the token identifier

### public get resource: URL.URL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber48)

The the resource URL

#### Return:

|  |
| --- |
| URL.URL |

### public set resource: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber84)

set the resource

### public get schema: URL.HypertyCatalogueURL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber54)

Return the URL of the schema on the HypertyCatalogue

#### Return:

|  |
| --- |
| URL.HypertyCatalogueURL |

### public set schema(schema: URL.HypertyCatalogueURL): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber93)

set the schema URL

Generated by [ESDoc(0.4.3)](https://esdoc.org) ReadMessageBody {#readmessagebody data-ice=“name”} ===============

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ReadMessageBody

Class representation of the ReadMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber164)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the objec

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be read (optional)

criteriaSyntax [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria syntax used in criteria field. To be used for search purposes. Valid criteria Syntax are: “key-value”, “mongodb”, “sql”(?), …

criteria [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria to be used for search purposes. Syntax used to define the criteria is set in the criteriaSyntax.

Generated by [ESDoc(0.4.3)](https://esdoc.org) ResponseMessageBody {#responsemessagebody data-ice=“name”} ===================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ResponseMessageBody

Class representation of the ResponseMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*)

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber263)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

code \* A response code compliant with HTTP response codes (RFC7231)

value \* Contains a data value in JSON format. Applicable to Responses to READ MessageType.

Generated by [ESDoc(0.4.3)](https://esdoc.org) UpdateMessageBody {#updatemessagebody data-ice=“name”} =================

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → UpdateMessageBody

Class representation of the UpdateMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber218)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the updated value object in JSON format.

Generated by [ESDoc(0.4.3)](https://esdoc.org) IdGenerator {#idgenerator data-ice=“name”} ===========

Message Identifier Generator that generates the id used to identifier message transactions

## Method Summary

Public Methods public

\* [idMaker](../../../class/src/message-factory/MessageFactory.js~IdGenerator.html#instance-method-idMaker)()

## Public Methods

### public \* idMaker() [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber219)

Generated by [ESDoc(0.4.3)](https://esdoc.org) MessageFactory {#messagefactory data-ice=“name”} ==============

You can directly use instance of this class. [messageFactory](../../../variable/index.html#static-variable-messageFactory)

#### Extends:

[RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) → MessageFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor to be used to instantiate an object of the Message Factory

## Member Summary

Public Members public

[myGenerator](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-member-myGenerator): \*

## Method Summary

Public Methods public

[createCreateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createCreateMessageRequest)(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \*

Creates a Message of TYPE CREATE and Create Message Body

public

[createDeleteMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createDeleteMessageRequest)(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Create Delete Message of Type DELETE and delete message body

public

[createForwardMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createForwardMessageRequest)(from: URL.URL, to-: URL.URLList, message: \*): Message.Message

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

public

[createMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createMessageResponse)(message: \*, code: \*, value: \*, source: \*): \*

Creates the response to the Message

public

[createReadMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createReadMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Creates a Message of type READ

public

[createSubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createSubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type SUBSCRIBE

public

[createUnsubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUnsubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type UNSUBSCRIBE

public

[createUpdateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUpdateMessageRequest)(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message

Creates an Update Message Request

public

[generateMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-generateMessageResponse)(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \*

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

public

[validate](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-validate)(data: \*): \*

Validates the message against the reTHINK Message Data Schema

## Inherited Summary

From class [RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber20)

Constructor to be used to instantiate an object of the Message Factory

#### Override:

[RethinkObject#constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the reTHINK Message Data Schema

## Public Members

### public myGenerator: \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber23)

## Public Methods

### public createCreateMessageRequest(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber44)

Creates a Message of TYPE CREATE and Create Message Body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format

policy URL.URL the sender of this message

#### Return:

|  |
| --- |
| \* |

### public createDeleteMessageRequest(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber83)

Create Delete Message of Type DELETE and delete message body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be deleted

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Delete Message Request |

### public createForwardMessageRequest(from: URL.URL, to-: URL.URLList, message: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber63)

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

message \* {Message.Message} message - the message to be forwarded

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Forward Message Request |

### public createMessageResponse(message: \*, code: \*, value: \*, source: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber177)

Creates the response to the Message

#### Params:

Name Type Attribute Description message \* the message request from which the response should be generated

code \* the response code compliant with HTTP response codes (RFC7231).

value \* contains a data value in JSON format. Applicable to Responses to READ MessageType.

source \* Contains the original creator of the response. Useful to identify the real source of the response to a one-to-many message delivery ie multiple responses coming coming from different sources.

#### Return:

|  |
| --- |
| \* |

### public createReadMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber124)

Creates a Message of type READ

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be read

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Read message request |

### public createSubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber142)

Creates a Message of type SUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUnsubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber159)

Creates a Message of type UNSUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUpdateMessageRequest(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber105)

Creates an Update Message Request

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

{URL.URLList}to \* One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value \* The new value of the attribute to be updated

resource URL.URL URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be updated

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Update message request |

### public generateMessageResponse(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber199)

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

#### Params:

Name Type Attribute Description data [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be updated

code ResponseCode response code compliant with HTTP response codes (RFC7231).

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains a data value in JSON format.

#### Return:

|  |
| --- |
| \* |

### public validate(data: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber31)

Validates the message against the reTHINK Message Data Schema

#### Override:

[RethinkObject#validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| \* |

Generated by [ESDoc(0.4.3)](https://esdoc.org) OwnerPeer {#ownerpeer data-ice=“name”} =========

You can directly use instance of this class. [ownerPeer](../../../variable/index.html#static-variable-ownerPeer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/OwnerPeer.js~OwnerPeer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/OwnerPeer.js.html#lineNumber3)

Generated by [ESDoc(0.4.3)](https://esdoc.org) Peer {#peer data-ice=“name”} ====

You can directly use instance of this class. [peer](../../../variable/index.html#static-variable-peer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Peer.js~Peer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Peer.js.html#lineNumber3)

Generated by [ESDoc(0.4.3)](https://esdoc.org) PolicyEnforcerDescriptor {#policyenforcerdescriptor data-ice=“name”} ========================

You can directly use instance of this class. [policyEnforcerDescriptor](../../../variable/index.html#static-variable-policyEnforcerDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → PolicyEnforcerDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-configuration): \*

public get

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*) [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber7)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* configuration \* policies \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber14)

### public set configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber26)

### public get policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber18)

### public set policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber22)

Generated by [ESDoc(0.4.3)](https://esdoc.org) ProtocolStubDescriptor {#protocolstubdescriptor data-ice=“name”} ======================

You can directly use instance of this class. [protocolStubDescriptor](../../../variable/index.html#static-variable-protocolStubDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → ProtocolStubDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-constraints): \*

public get

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-messageSchemas): \*

public set

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-messageSchemas): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*) [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* messageSchemas \* configuration \* constraints \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber33)

### public set configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber47)

### public get constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber29)

### public set constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber42)

### public get messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber25)

### public set messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber37)

Generated by [ESDoc(0.4.3)](https://esdoc.org) RethinkObject {#rethinkobject data-ice=“name”} =============

#### Direct Subclass:

[MessageFactory](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)(validation: \*, schema: \*)

## Member Summary

Public Members public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

## Method Summary

Public Methods public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: \*, schema: \*) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber5)

#### Params:

Name Type Attribute Description validation \* schema \*

## Public Members

### public schema: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber10)

### public validation: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber9)

## Public Methods

### public validate(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber13)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) |

Generated by [ESDoc(0.4.3)](https://esdoc.org) RuntimeConstraint {#runtimeconstraint data-ice=“name”} =================

You can directly use instance of this class. [runtimeConstraint](../../../variable/index.html#static-variable-runtimeConstraint)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-constructor-constructor)(constraint: \*, runtimeHypertyCapabilityType: \*)

## Member Summary

Public Members public get

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-constraint): \*

public set

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-constraint): \*

public get

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-runtimeHypertyCapabilityType): \*

public set

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-runtimeHypertyCapabilityType): \*

## Public Constructors

### public constructor(constraint: \*, runtimeHypertyCapabilityType: \*) [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber6)

#### Params:

Name Type Attribute Description constraint \* runtimeHypertyCapabilityType \*

## Public Members

### public get constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber11)

### public set constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber19)

### public get runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber15)

### public set runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber24)

Generated by [ESDoc(0.4.3)](https://esdoc.org) SourcePackage {#sourcepackage data-ice=“name”} =============

You can directly use instance of this class. [sourcePackage](../../../variable/index.html#static-variable-sourcePackage)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-constructor-constructor)(sourceCodeClassname: \*, sourceCode: \*)

## Member Summary

Public Members public get

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-encoding): \*

public set

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-encoding): \*

public get

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-signature): \*

public set

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-signature): \*

public get

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCode): \*

public set

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCode): \*

public get

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCodeClassname): \*

public set

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCodeClassname): \*

## Public Constructors

### public constructor(sourceCodeClassname: \*, sourceCode: \*) [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber5)

#### Params:

Name Type Attribute Description sourceCodeClassname \* sourceCode \*

## Public Members

### public get encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber21)

### public set encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber29)

### public get signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber25)

### public set signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber34)

### public get sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber13)

### public set sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber39)

### public get sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber17)

### public set sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber44)

Generated by [ESDoc(0.4.3)](https://esdoc.org) Syncher {#syncher data-ice=“name”} =======

You can directly use instance of this class. [syncher](../../../variable/index.html#static-variable-syncher)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/syncher/Syncher.js~Syncher.html#instance-constructor-constructor)(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON))

Constructor that should be used by the Hyperty owner

## Member Summary

Public Members public get

[observers](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-observers): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

All owned observers, the ones that were created by a local subscription

public get

[owner](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-owner): HypertyURL

The owner of the Syncher and all created reporters.

public get

[reporters](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-reporters): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

All owned reporters, the ones that were created by a create

## Method Summary

Public Methods public

[create](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-create)(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

Request a DataObjectReporter creation.

public

[onNotification](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-onNotification)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete events of remove Reporter objects.

public

[subscribe](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-subscribe)(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

Request a subscription to an existent object.

## Public Constructors

### public constructor(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber30)

Constructor that should be used by the Hyperty owner

#### Params:

Name Type Attribute Description owner HypertyURL Hyperty URL owner

bus MiniBus The internal sandbox MiniBus used by the Hyperty

config [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) The only required field for now is runtimeURL

## Public Members

### public get observers: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber67)

All owned observers, the ones that were created by a local subscription

### public get owner: HypertyURL [source](../../../file/src/syncher/Syncher.js.html#lineNumber55)

The owner of the Syncher and all created reporters.

### public get reporters: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber61)

All owned reporters, the ones that were created by a create

## Public Methods

### public create(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber76)

Request a DataObjectReporter creation. The URL will be be requested by the allocation mechanism.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

observers HypertyURL[] List of hyperties that are pre-authorized for subscription

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the reporter

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectReporter](.%20./../../class/src/syncher/Data%20Object%20Reporter.js~DataObjectRepor%20ter.html) > | Return Promise to a new Reporter. The reporter can be accepted or rejected by the PEP |

### public onNotification(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber147)

Setup the callback to process create and delete events of remove Reporter objects. This is releated to the messagens sent by create to the observers Hyperty array.

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public subscribe(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber110)

Request a subscription to an existent object.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

objURL ObjectURL Address of the existent reporter object

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectObserver](.%20./../../class/src/syncher/Data%20Object%20Observer.js~DataObjectObser%20ver.html) > | Return Promise to a new observer. |

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# CatalogueDataObject

You can directly use instance of this class. [catalogueDataObject](../../../variable/index.html#static-variable-catalogueDataObject)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

Creates the Catalogue Data Object

## Member Summary

Public Members public get

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-description): \*

public set

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-description): \*

public get

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-guid): \*

public set

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-guid): \*

public get

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-language): \*

public set

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-language): \*

public get

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-objectName): \*

public set

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-objectName): \*

public set

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-signature)(signature: \*): \*

Set the signature to enables integrity and authenticity verification

public get

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-signature): \*

public set

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackage): \*

public get

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackage): \*

public get

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackageURL): \*

public set

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackageURL): \*

public set

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-type): \*

public get

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-type): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber18)

Creates the Catalogue Data Object

#### Params:

Name Type Attribute Description guid \* Global Unique identifier of the Catalogue Object (e.g. Hyperty descriptor, ProtocolStub descriptor, etc) enabling the same object to be stored and discovered in different Catalogues. That means, guid corresponds to [resource-type-id] per BNF of Resource Path. Couldn’t we have problems with too long URL paths?

type \* indicates the type of Catalogue Data Object e.g. Hyperty, ProtocolStub, etc

objectName \* human-understandable name of the catalogue object e.g. “My Awesome Hyperty”

description \* description of the source package

language \* the programming language used in the SourcePackage.SourceCode

sourcePackageURL \* A string containing the URL from where the source code package of the corresponding catalogue object, e.g. deployable packages containing executable code for Hyperties or ProtoStubs, can be downloaded

## Public Members

### public get description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber43)

### public set description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber94)

### public get guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber31)

### public set guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber79)

### public get language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber47)

### public set language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber99)

### public get objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber39)

### public set objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber89)

### public set signature(signature: \*): \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber69)

Set the signature to enables integrity and authenticity verification

### public get signature: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber51)

### public set sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber74)

### public get sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber55)

### public get sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber59)

### public set sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber104)

### public set type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber84)

### public get type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber35)

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# CatalogueDataObjectFactory

You can directly use instance of this class. [catalogueDataObjectFactory](../../../variable/index.html#static-variable-catalogueDataObjectFactory)

#### Extends:

src/reTHINKObject/RethinkObject~RethinkObject → CatalogueDataObjectFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor

## Method Summary

Public Methods public

[createCatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createCatalogueDataObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html)

Create CatalogueDataObject

public

[createDataObjectSchema](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createDataObjectSchema)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html)

Create DataObjectSchema

public

[createHypertyDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html)

Create HypertyDescriptor

public

[createHypertyRuntimeDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyRuntimeDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html)

Create HypertyRuntimeDescriptor

public

[createPolicyEnforcerDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createPolicyEnforcerDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html)

Create PolicyEnforcerDescriptor

public

[createProtoStubDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createProtoStubDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html)

Create ProtocolStubDescriptor

public

[createSourcePackage](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createSourcePackage)(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html)

Create SourcePackage

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber29)

Constructor

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the schema

## Public Methods

### public createCatalogueDataObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber43)

Create CatalogueDataObject

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

type [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType) Indicates the type of Catalogue Data Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) |

### public createDataObjectSchema(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber179)

Create DataObjectSchema

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) |

### public createHypertyDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber67)

Create HypertyDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

hypertyType int A tag that identifies what type of hyperty is described in the object.

dataObjects URL.URLList Defines the Data Object Schemas supported by the Hyperty through a list of Catalogue URLs from where these schemas can be reached.

#### Return:

|  |
| --- |
| [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) |

### public createHypertyRuntimeDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber124)

Create HypertyRuntimeDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

runtimeType \* hypertyCapabilities \* Supported capabilities to execute Hyperties

protocolCapabilities \* Supported capabilities to execute Protocol Stubs

#### Return:

|  |
| --- |
| [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) |

### public createPolicyEnforcerDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber153)

Create PolicyEnforcerDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

configuration \* policies \*

#### Return:

|  |
| --- |
| [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) |

### public createProtoStubDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber95)

Create ProtocolStubDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

messageSchemas URL.URL Defines the Schema describing the Message Data Model used by the Hyperty through the Catalogue URL from where the Message schema can be reached. If not defined, by default it is assumed the standard Message Model is used.

configuration \* Data required to configure the ProtocolStub

constraints \* Describes capabilities required from the Hyperty Runtime in order to be able to execute the ProtocolStub

#### Return:

|  |
| --- |
| [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) |

### public createSourcePackage(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber198)

Create SourcePackage

#### Params:

Name Type Attribute Description sourceCodeClassname \* The Class-name of the SourceCode

sourceCode \* The source code of the catalogue object

#### Return:

|  |
| --- |
| [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) |

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# Connection

You can directly use instance of this class. [connection](../../../variable/index.html#static-variable-connection)

#### Extends:

[Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) → Connection

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Connection.js~Connection.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Connection.js.html#lineNumber31)

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# ConnectionController

You can directly use instance of this class. [connectionController](../../../variable/index.html#static-variable-connectionController)

#### Extends:

src/utils/EventEmitter~EventEmitter → ConnectionController

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-constructor-constructor)(syncher: \*)

## Member Summary

Public Members public set

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectObserver)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectObserver): ConnectionDataObject: \*

return the dataObject in the controller

public set

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectReporter)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectReporter): ConnectionDataObject: \*

return the dataObject in the controller

public set

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-remotePeerInformation)(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \*

Set Remote peer information, like Hyperty.

public get

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-remotePeerInformation): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \*

Get information relative to the Remote Peer;

## Method Summary

Public Methods public

[accept](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-accept)(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to accept an incoming connection request.

public

[addPeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-addPeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

public

[changePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-changePeerInformation)(dataObjectObserver: \*)

public

[createAnswer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createAnswer)()

public

[createOffer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createOffer)()

public

[decline](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-decline)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to decline an incoming connection request.

public

[disableCam](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableCam)(): \*

public

[disableMic](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableMic)(): \*

public

[disconnect](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disconnect)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to close an existing connection instance.

public

[getUserMedia](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-getUserMedia)(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Get WebRTC API resources

public

[infoError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-infoError)(err: \*)

public

[mute](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-mute)(): \*

public

[onLocalSessionCreated](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-onLocalSessionCreated)(description: \*)

public

[processPeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-processPeerInformation)(data: \*)

public

[remoteDescriptionError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionError)(error: \*)

public

[remoteDescriptionSuccess](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionSuccess)()

public

[removePeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-removePeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to remove a peer from an existing connection instance.

## Public Constructors

### public constructor(syncher: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber14)

#### Params:

Name Type Attribute Description syncher \*

## Public Members

### public set dataObjectObserver(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber160)

Set the dataObject in the controller

### public get dataObjectObserver: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber173)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set dataObjectReporter(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber112)

Set the dataObject in the controller

### public get dataObjectReporter: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber151)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set remotePeerInformation(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber94)

Set Remote peer information, like Hyperty.

### public get remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber103)

Get information relative to the Remote Peer;

#### Return:

|  |  |
| --- | --- |
| [Object](https://developer.moz%20%20illa.org/en-US/docs/Web/JavaScrip%20t/R%20eference/Global_Objects/Object)</spa n> | remotePeerInformation; |

## Public Methods

### public accept(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber294)

Used to accept an incoming connection request.

#### Params:

Name Type Attribute Description options \*

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public addPeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber382)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public changePeerInformation(dataObjectObserver: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber200)

#### Params:

Name Type Attribute Description dataObjectObserver \*

### public createAnswer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber255)

### public createOffer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber246)

### public decline(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber334)

Used to decline an incoming connection request.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public disableCam(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber415)

#### Return:

|  |
| --- |
| \* |

### public disableMic(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber396)

#### Return:

|  |
| --- |
| \* |

### public disconnect(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber356)

Used to close an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public getUserMedia(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber183)

Get WebRTC API resources

#### Params:

Name Type Attribute Description options [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) Object containing the information that resources will be used (camera, mic, resolution, etc);

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public infoError(err: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber285)

#### Params:

Name Type Attribute Description err \*

### public mute(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber434)

#### Return:

|  |
| --- |
| \* |

### public onLocalSessionCreated(description: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber263)

#### Params:

Name Type Attribute Description description \*

### public processPeerInformation(data: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber213)

#### Params:

Name Type Attribute Description data \*

### public remoteDescriptionError(error: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber242)

#### Params:

Name Type Attribute Description error \*

### public remoteDescriptionSuccess() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber238)

### public removePeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber391)

Used to remove a peer from an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

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# DataObject

You can directly use instance of this class. [dataObject](../../../variable/index.html#static-variable-dataObject)

## Member Summary

Public Members public get

[children](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-children): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

public get

[data](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data structure to be synchronized.

public get

[schema](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-schema): SchemaURL

Object schema URL (this field is not yet stable, and is subsject to change)

public get

[status](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-status): Status

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

public get

[url](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-url): ObjectURL

Object URL of reporter or observer

## Method Summary

Public Methods public

[addChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-addChildren)(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

Create and add a children to the subscription group.

public

[onAddChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-onAddChildren)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete childrens

## Public Members

### public get children: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber88)

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObject.js.html#lineNumber82)

Data structure to be synchronized.

### public get schema: SchemaURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber70)

Object schema URL (this field is not yet stable, and is subsject to change)

### public get status: Status [source](../../../file/src/syncher/DataObject.js.html#lineNumber76)

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

### public get url: ObjectURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber64)

Object URL of reporter or observer

## Public Methods

### public addChildren(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber127)

Create and add a children to the subscription group.

#### Params:

Name Type Attribute Description resource [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Resource name, one of the items in the schema.properties.scheme of the parent object.

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the child

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectChild](.%20./.%20./../class/src/syncher/DataObj%20ectChi%20ld.js~DataObjectChild.html) &g t; | Return Promise to a new Children. |

### public onAddChildren(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObject.js.html#lineNumber160)

Setup the callback to process create and delete childrens

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# DataObjectChild

You can directly use instance of this class. [dataObjectChild](../../../variable/index.html#static-variable-dataObjectChild)

## Member Summary

Public Members public get

[childId](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-childId): URL

Children ID generated on addChildren.

public get

[data](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data Structure to be synchronized.

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onChange)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter child

public

[onResponse](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the creates

## Public Members

### public get childId: URL [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber35)

Children ID generated on addChildren. Unique identifier

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber41)

Data Structure to be synchronized.

## Public Methods

### public onChange(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber47)

Register the change listeners sent by the reporter child

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber57)

Setup the callback to process response notifications of the creates

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# DataObjectObserver

You can directly use instance of this class. [dataObjectObserver](../../../variable/index.html#static-variable-dataObjectObserver)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectObserver

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html#instance-method-onChange)(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter

## Public Methods

### public onChange(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectObserver.js.html#lineNumber38)

Register the change listeners sent by the reporter

#### Params:

Name Type Attribute Description filter [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Filter that identifies the field (separeted dot path). Accepts \* at the end for a more unrestricted filtering.

callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org)

# DataObjectReporter

You can directly use instance of this class. [dataObjectReporter](../../../variable/index.html#static-variable-dataObjectReporter)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectReporter

## Member Summary

Public Members public get

[subscriptions](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-get-subscriptions): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription>

Subscriptions requested and accepted to this reporter

## Method Summary

Public Methods public

[onResponse](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the create’s

public

[onSubscription](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onSubscription)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process subscribe and unsubscribe notifications

## Public Members

### public get subscriptions: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription> [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber38)

Subscriptions requested and accepted to this reporter

## Public Methods

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber52)

Setup the callback to process response notifications of the create’s

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onSubscription(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber44)

Setup the callback to process subscribe and unsubscribe notifications

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# CommunicationDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → CommunicationDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber31)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# ConnectionDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ConnectionDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber37)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# ContextDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ContextDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber49)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# DataObjectSchema

You can directly use instance of this class. [dataObjectSchema](../../../variable/index.html#static-variable-dataObjectSchema)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → DataObjectSchema

#### Direct Subclass:

[HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html), [MessageDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html)

#### Indirect Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

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# HypertyDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → HypertyDataObjectSchema

#### Direct Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber23)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# IdentifyDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → IdentifyDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber43)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# MessageDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → MessageDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber17)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

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# EventEmitter

You can directly use instance of this class. [eventEmitter](../../../variable/index.html#static-variable-eventEmitter)

EventEmitter All classes which extends this, can have addEventListener and trigger events;

## Method Summary

Public Methods public

[addEventListener](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-addEventListener)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function))

addEventListener listen for an eventType

public

[trigger](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-trigger)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object))

Invoke the eventType

## Public Methods

### public addEventListener(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber12)

addEventListener listen for an eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) listening for this type of event

cb [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function) callback function will be executed when the event it is invoked

### public trigger(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber22)

Invoke the eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) event will be invoked

params [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) parameters will be passed to the addEventListener

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# HypertyDescriptor

You can directly use instance of this class. [hypertyDescriptor](../../../variable/index.html#static-variable-hypertyDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-constraints): \*

public get

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-dataObjects): \*

public set

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-dataObjects): \*

public set

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-hypertyType): \*

public get

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-hypertyType): \*

public get

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-messageSchema): \*

public set

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-messageSchema): \*

public get

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*) [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* hypertyType \* dataObjects \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber28)

### public set configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber54)

### public get constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber32)

### public set constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber59)

### public get dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber24)

### public set dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber49)

### public set hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber44)

### public get hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber20)

### public get messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber36)

### public set messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber64)

### public get policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber40)

### public set policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber69)

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# HypertyDiscovery

You can directly use instance of this class. [hypertyDiscovery](../../../variable/index.html#static-variable-hypertyDiscovery)

Core HypertyDiscovery interface Hyperty Discovery class provides the functionality to query hyperties instances registered in Domain registry\* for a given user

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-constructor-constructor)(runtimeURL: RuntimeURL, msgBus: MessageBus)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

## Method Summary

Public Methods public

[discoverHypertyPerUser](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-method-discoverHypertyPerUser)(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Function to request about users registered in domain registry, and return the hyperty instance if found.

## Public Constructors

### public constructor(runtimeURL: RuntimeURL, msgBus: MessageBus) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber14)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

#### Params:

Name Type Attribute Description runtimeURL RuntimeURL runtimeURL

msgBus MessageBus msgBus

## Public Methods

### public discoverHypertyPerUser(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber28)

Function to request about users registered in domain registry, and return the hyperty instance if found.

#### Params:

Name Type Attribute Description userIdentifier Identity.Identity

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan> | Promise |

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# HypertyRuntimeDescriptor

You can directly use instance of this class. [hypertyRuntimeDescriptor](../../../variable/index.html#static-variable-hypertyRuntimeDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyRuntimeDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*)

## Member Summary

Public Members public get

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-hypertyCapabilities): \*

public set

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-hypertyCapabilities): \*

public get

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-protocolCapabilities): \*

public set

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-protocolCapabilities): \*

public get

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-runtimeType): \*

public set

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-runtimeType): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*) [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* runtimeType \* hypertyCapabilities \* protocolCapabilities \*

## Public Members

### public get hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber29)

### public set hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber42)

### public get protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber33)

### public set protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber47)

### public get runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber25)

### public set runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber37)

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# Message

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/Message.js~Message.html#instance-constructor-constructor)(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html))

Generates a message data object

## Member Summary

Public Members public get

[body](../../../class/src/message-factory/Message.js~Message.html#instance-get-body): [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)

The Message body

public set

[body](../../../class/src/message-factory/Message.js~Message.html#instance-set-body)(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \*

set the message body

public get

[from](../../../class/src/message-factory/Message.js~Message.html#instance-get-from): URL.URL

The sender of the Message.

public set

[from](../../../class/src/message-factory/Message.js~Message.html#instance-set-from)(sender: URL.URL): \*

set the sender of the Message

public get

[id](../../../class/src/message-factory/Message.js~Message.html#instance-get-id): [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)

The Message identifier.

public get

[to](../../../class/src/message-factory/Message.js~Message.html#instance-get-to): URL.URLList

The recipient of the Message.

public set

[to](../../../class/src/message-factory/Message.js~Message.html#instance-set-to)(recipientList: URL.URLList): \*

set the list of recipients

public get

[type](../../../class/src/message-factory/Message.js~Message.html#instance-get-type): [MessageType](../../../variable/index.html#static-variable-MessageType)

The Message type.

public set

[type](../../../class/src/message-factory/Message.js~Message.html#instance-set-type)(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \*

set the message type

## Method Summary

Public Methods public

[addAccessToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addAccessToken)(token: Identity.JWT): Message.Message

Add an access token to the given message

public

[addIdToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addIdToken)(token: Identity.JWT): Message.Message

Adds an Id token to the given message

public

[assertIdentity](../../../class/src/message-factory/Message.js~Message.html#instance-method-assertIdentity)(token: Identity.JWT, identity: Identity.Identity): Message.Message

Adds the asserted identity to the message body and removes the given token from the message

## Public Constructors

### public constructor(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)) [source](../../../file/src/message-factory/Message.js.html#lineNumber23)

Generates a message data object

#### Params:

Name Type Attribute Description id [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) To be used to associate Response messages to the initial request message.

from URL.URL URL of Hyperty instance or User associated with it

toList URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

type [MessageType](../../../variable/index.html#static-variable-MessageType) The URL of the reTHINK Data Object Resource associated with the message that can be used for routing purposes

body [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) Optionally, all message bodies exchanged between different Runtime Messge BUS can contain JWT tokens for Access Control for Identity Assertion purposes that are inserted by the Identity Module before the message is routed to proto stubs

## Public Members

### public get body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) [source](../../../file/src/message-factory/Message.js.html#lineNumber60)

The Message body

### public set body(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber84)

set the message body

### public get from: URL.URL [source](../../../file/src/message-factory/Message.js.html#lineNumber42)

The sender of the Message.

### public set from(sender: URL.URL): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber66)

set the sender of the Message

### public get id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) [source](../../../file/src/message-factory/Message.js.html#lineNumber36)

The Message identifier.

### public get to: URL.URLList [source](../../../file/src/message-factory/Message.js.html#lineNumber48)

The recipient of the Message.

### public set to(recipientList: URL.URLList): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber93)

set the list of recipients

### public get type: [MessageType](../../../variable/index.html#static-variable-MessageType) [source](../../../file/src/message-factory/Message.js.html#lineNumber54)

The Message type.

### public set type(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber75)

set the message type

## Public Methods

### public addAccessToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber136)

Add an access token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT token to be added to the given message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated Message |

### public addIdToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber122)

Adds an Id token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT identity token to include in the message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated message |

### public assertIdentity(token: Identity.JWT, identity: Identity.Identity): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber104)

Adds the asserted identity to the message body and removes the given token from the message

#### Params:

Name Type Attribute Description token Identity.JWT idToken to remove from message

identity Identity.Identity asserted identity to include

#### Return:

|  |  |
| --- | --- |
| Message.Message | message - updated message |

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# CreateMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → CreateMessageBody

Class representation of the CreateMessageBody object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-constructor-constructor)(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-policy): \*

public set

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-policy): \*

public get

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-value): \*

public set

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-value): \*

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber123)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format.

policy URL.URL URL from where access policy control can be downloaded

idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber139)

### public set policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber141)

### public get value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber132)

### public set value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber134)

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# DeleteMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → DeleteMessageBody

Class representation of the DeleteMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber193)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

Generated by [ESDoc(0.4.3)](https://esdoc.org)

# ForwardMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ForwardMessageBody

Class representation of the ForwardMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber240)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

message [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be forwarded

Generated by [ESDoc(0.4.3)](https://esdoc.org)

# MessageBody

#### Direct Subclass:

[CreateMessageBody](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html), [DeleteMessageBody](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html), [ForwardMessageBody](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html), [ReadMessageBody](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html), [ResponseMessageBody](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html), [UpdateMessageBody](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber18)

#### Params:

Name Type Attribute Description idToken Identity.JWT token for Identity assertion purpose

accessToken Identity.JWT token for access control

resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get accessToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber42)

Get the access token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set accessToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber75)

set the access token

### public get assertedIdentity: Identity.Identity: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber60)

Return the asserted Identity

#### Return:

|  |
| --- |
| Identity.Identity |

### public set assertedIdentity(assertedIdentity: Identity.Identity): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber102)

set the asserted identity

### public get idToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber36)

Get the id token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set idToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber66)

set the token identifier

### public get resource: URL.URL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber48)

The the resource URL

#### Return:

|  |
| --- |
| URL.URL |

### public set resource: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber84)

set the resource

### public get schema: URL.HypertyCatalogueURL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber54)

Return the URL of the schema on the HypertyCatalogue

#### Return:

|  |
| --- |
| URL.HypertyCatalogueURL |

### public set schema(schema: URL.HypertyCatalogueURL): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber93)

set the schema URL

Generated by [ESDoc(0.4.3)](https://esdoc.org)

# ReadMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ReadMessageBody

Class representation of the ReadMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber164)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the objec

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be read (optional)

criteriaSyntax [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria syntax used in criteria field. To be used for search purposes. Valid criteria Syntax are: “key-value”, “mongodb”, “sql”(?), …

criteria [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria to be used for search purposes. Syntax used to define the criteria is set in the criteriaSyntax.

Generated by [ESDoc(0.4.3)](https://esdoc.org)

# ResponseMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ResponseMessageBody

Class representation of the ResponseMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*)

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber263)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

code \* A response code compliant with HTTP response codes (RFC7231)

value \* Contains a data value in JSON format. Applicable to Responses to READ MessageType.

Generated by [ESDoc(0.4.3)](https://esdoc.org)

# UpdateMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → UpdateMessageBody

Class representation of the UpdateMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber218)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the updated value object in JSON format.

Generated by [ESDoc(0.4.3)](https://esdoc.org)

# IdGenerator

Message Identifier Generator that generates the id used to identifier message transactions

## Method Summary

Public Methods public

\* [idMaker](../../../class/src/message-factory/MessageFactory.js~IdGenerator.html#instance-method-idMaker)()

## Public Methods

### public \* idMaker() [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber219)

Generated by [ESDoc(0.4.3)](https://esdoc.org)

# MessageFactory

You can directly use instance of this class. [messageFactory](../../../variable/index.html#static-variable-messageFactory)

#### Extends:

[RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) → MessageFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor to be used to instantiate an object of the Message Factory

## Member Summary

Public Members public

[myGenerator](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-member-myGenerator): \*

## Method Summary

Public Methods public

[createCreateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createCreateMessageRequest)(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \*

Creates a Message of TYPE CREATE and Create Message Body

public

[createDeleteMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createDeleteMessageRequest)(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Create Delete Message of Type DELETE and delete message body

public

[createForwardMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createForwardMessageRequest)(from: URL.URL, to-: URL.URLList, message: \*): Message.Message

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

public

[createMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createMessageResponse)(message: \*, code: \*, value: \*, source: \*): \*

Creates the response to the Message

public

[createReadMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createReadMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Creates a Message of type READ

public

[createSubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createSubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type SUBSCRIBE

public

[createUnsubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUnsubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type UNSUBSCRIBE

public

[createUpdateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUpdateMessageRequest)(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message

Creates an Update Message Request

public

[generateMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-generateMessageResponse)(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \*

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

public

[validate](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-validate)(data: \*): \*

Validates the message against the reTHINK Message Data Schema

## Inherited Summary

From class [RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber20)

Constructor to be used to instantiate an object of the Message Factory

#### Override:

[RethinkObject#constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the reTHINK Message Data Schema

## Public Members

### public myGenerator: \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber23)

## Public Methods

### public createCreateMessageRequest(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber44)

Creates a Message of TYPE CREATE and Create Message Body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format

policy URL.URL the sender of this message

#### Return:

|  |
| --- |
| \* |

### public createDeleteMessageRequest(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber83)

Create Delete Message of Type DELETE and delete message body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be deleted

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Delete Message Request |

### public createForwardMessageRequest(from: URL.URL, to-: URL.URLList, message: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber63)

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

message \* {Message.Message} message - the message to be forwarded

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Forward Message Request |

### public createMessageResponse(message: \*, code: \*, value: \*, source: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber177)

Creates the response to the Message

#### Params:

Name Type Attribute Description message \* the message request from which the response should be generated

code \* the response code compliant with HTTP response codes (RFC7231).

value \* contains a data value in JSON format. Applicable to Responses to READ MessageType.

source \* Contains the original creator of the response. Useful to identify the real source of the response to a one-to-many message delivery ie multiple responses coming coming from different sources.

#### Return:

|  |
| --- |
| \* |

### public createReadMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber124)

Creates a Message of type READ

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be read

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Read message request |

### public createSubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber142)

Creates a Message of type SUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUnsubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber159)

Creates a Message of type UNSUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUpdateMessageRequest(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber105)

Creates an Update Message Request

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

{URL.URLList}to \* One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value \* The new value of the attribute to be updated

resource URL.URL URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be updated

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Update message request |

### public generateMessageResponse(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber199)

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

#### Params:

Name Type Attribute Description data [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be updated

code ResponseCode response code compliant with HTTP response codes (RFC7231).

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains a data value in JSON format.

#### Return:

|  |
| --- |
| \* |

### public validate(data: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber31)

Validates the message against the reTHINK Message Data Schema

#### Override:

[RethinkObject#validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| \* |

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# OwnerPeer

You can directly use instance of this class. [ownerPeer](../../../variable/index.html#static-variable-ownerPeer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/OwnerPeer.js~OwnerPeer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/OwnerPeer.js.html#lineNumber3)

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# Peer

You can directly use instance of this class. [peer](../../../variable/index.html#static-variable-peer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Peer.js~Peer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Peer.js.html#lineNumber3)

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# PolicyEnforcerDescriptor

You can directly use instance of this class. [policyEnforcerDescriptor](../../../variable/index.html#static-variable-policyEnforcerDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → PolicyEnforcerDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-configuration): \*

public get

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*) [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber7)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* configuration \* policies \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber14)

### public set configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber26)

### public get policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber18)

### public set policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber22)

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# ProtocolStubDescriptor

You can directly use instance of this class. [protocolStubDescriptor](../../../variable/index.html#static-variable-protocolStubDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → ProtocolStubDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-constraints): \*

public get

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-messageSchemas): \*

public set

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-messageSchemas): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*) [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* messageSchemas \* configuration \* constraints \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber33)

### public set configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber47)

### public get constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber29)

### public set constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber42)

### public get messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber25)

### public set messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber37)

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# RethinkObject

#### Direct Subclass:

[MessageFactory](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)(validation: \*, schema: \*)

## Member Summary

Public Members public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

## Method Summary

Public Methods public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: \*, schema: \*) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber5)

#### Params:

Name Type Attribute Description validation \* schema \*

## Public Members

### public schema: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber10)

### public validation: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber9)

## Public Methods

### public validate(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber13)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) |

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# RuntimeConstraint

You can directly use instance of this class. [runtimeConstraint](../../../variable/index.html#static-variable-runtimeConstraint)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-constructor-constructor)(constraint: \*, runtimeHypertyCapabilityType: \*)

## Member Summary

Public Members public get

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-constraint): \*

public set

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-constraint): \*

public get

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-runtimeHypertyCapabilityType): \*

public set

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-runtimeHypertyCapabilityType): \*

## Public Constructors

### public constructor(constraint: \*, runtimeHypertyCapabilityType: \*) [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber6)

#### Params:

Name Type Attribute Description constraint \* runtimeHypertyCapabilityType \*

## Public Members

### public get constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber11)

### public set constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber19)

### public get runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber15)

### public set runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber24)

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# SourcePackage

You can directly use instance of this class. [sourcePackage](../../../variable/index.html#static-variable-sourcePackage)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-constructor-constructor)(sourceCodeClassname: \*, sourceCode: \*)

## Member Summary

Public Members public get

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-encoding): \*

public set

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-encoding): \*

public get

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-signature): \*

public set

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-signature): \*

public get

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCode): \*

public set

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCode): \*

public get

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCodeClassname): \*

public set

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCodeClassname): \*

## Public Constructors

### public constructor(sourceCodeClassname: \*, sourceCode: \*) [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber5)

#### Params:

Name Type Attribute Description sourceCodeClassname \* sourceCode \*

## Public Members

### public get encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber21)

### public set encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber29)

### public get signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber25)

### public set signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber34)

### public get sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber13)

### public set sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber39)

### public get sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber17)

### public set sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber44)

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# Syncher

You can directly use instance of this class. [syncher](../../../variable/index.html#static-variable-syncher)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/syncher/Syncher.js~Syncher.html#instance-constructor-constructor)(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON))

Constructor that should be used by the Hyperty owner

## Member Summary

Public Members public get

[observers](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-observers): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

All owned observers, the ones that were created by a local subscription

public get

[owner](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-owner): HypertyURL

The owner of the Syncher and all created reporters.

public get

[reporters](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-reporters): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

All owned reporters, the ones that were created by a create

## Method Summary

Public Methods public

[create](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-create)(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

Request a DataObjectReporter creation.

public

[onNotification](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-onNotification)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete events of remove Reporter objects.

public

[subscribe](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-subscribe)(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

Request a subscription to an existent object.

## Public Constructors

### public constructor(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber30)

Constructor that should be used by the Hyperty owner

#### Params:

Name Type Attribute Description owner HypertyURL Hyperty URL owner

bus MiniBus The internal sandbox MiniBus used by the Hyperty

config [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) The only required field for now is runtimeURL

## Public Members

### public get observers: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber67)

All owned observers, the ones that were created by a local subscription

### public get owner: HypertyURL [source](../../../file/src/syncher/Syncher.js.html#lineNumber55)

The owner of the Syncher and all created reporters.

### public get reporters: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber61)

All owned reporters, the ones that were created by a create

## Public Methods

### public create(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber76)

Request a DataObjectReporter creation. The URL will be be requested by the allocation mechanism.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

observers HypertyURL[] List of hyperties that are pre-authorized for subscription

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the reporter

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectReporter](.%20./../../class/src/syncher/Data%20Object%20Reporter.js~DataObjectRepor%20ter.html) > | Return Promise to a new Reporter. The reporter can be accepted or rejected by the PEP |

### public onNotification(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber147)

Setup the callback to process create and delete events of remove Reporter objects. This is releated to the messagens sent by create to the observers Hyperty array.

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public subscribe(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber110)

Request a subscription to an existent object.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

objURL ObjectURL Address of the existent reporter object

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectObserver](.%20./../../class/src/syncher/Data%20Object%20Observer.js~DataObjectObser%20ver.html) > | Return Promise to a new observer. |

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# CatalogueDataObject

You can directly use instance of this class. [catalogueDataObject](../../../variable/index.html#static-variable-catalogueDataObject)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

Creates the Catalogue Data Object

## Member Summary

Public Members public get

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-description): \*

public set

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-description): \*

public get

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-guid): \*

public set

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-guid): \*

public get

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-language): \*

public set

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-language): \*

public get

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-objectName): \*

public set

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-objectName): \*

public set

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-signature)(signature: \*): \*

Set the signature to enables integrity and authenticity verification

public get

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-signature): \*

public set

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackage): \*

public get

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackage): \*

public get

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackageURL): \*

public set

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackageURL): \*

public set

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-type): \*

public get

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-type): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber18)

Creates the Catalogue Data Object

#### Params:

Name Type Attribute Description guid \* Global Unique identifier of the Catalogue Object (e.g. Hyperty descriptor, ProtocolStub descriptor, etc) enabling the same object to be stored and discovered in different Catalogues. That means, guid corresponds to [resource-type-id] per BNF of Resource Path. Couldn’t we have problems with too long URL paths?

type \* indicates the type of Catalogue Data Object e.g. Hyperty, ProtocolStub, etc

objectName \* human-understandable name of the catalogue object e.g. “My Awesome Hyperty”

description \* description of the source package

language \* the programming language used in the SourcePackage.SourceCode

sourcePackageURL \* A string containing the URL from where the source code package of the corresponding catalogue object, e.g. deployable packages containing executable code for Hyperties or ProtoStubs, can be downloaded

## Public Members

### public get description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber43)

### public set description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber94)

### public get guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber31)

### public set guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber79)

### public get language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber47)

### public set language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber99)

### public get objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber39)

### public set objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber89)

### public set signature(signature: \*): \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber69)

Set the signature to enables integrity and authenticity verification

### public get signature: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber51)

### public set sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber74)

### public get sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber55)

### public get sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber59)

### public set sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber104)

### public set type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber84)

### public get type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber35)

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# CatalogueDataObjectFactory

You can directly use instance of this class. [catalogueDataObjectFactory](../../../variable/index.html#static-variable-catalogueDataObjectFactory)

#### Extends:

src/reTHINKObject/RethinkObject~RethinkObject → CatalogueDataObjectFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor

## Method Summary

Public Methods public

[createCatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createCatalogueDataObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html)

Create CatalogueDataObject

public

[createDataObjectSchema](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createDataObjectSchema)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html)

Create DataObjectSchema

public

[createHypertyDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html)

Create HypertyDescriptor

public

[createHypertyRuntimeDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyRuntimeDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html)

Create HypertyRuntimeDescriptor

public

[createPolicyEnforcerDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createPolicyEnforcerDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html)

Create PolicyEnforcerDescriptor

public

[createProtoStubDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createProtoStubDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html)

Create ProtocolStubDescriptor

public

[createSourcePackage](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createSourcePackage)(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html)

Create SourcePackage

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber29)

Constructor

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the schema

## Public Methods

### public createCatalogueDataObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber43)

Create CatalogueDataObject

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

type [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType) Indicates the type of Catalogue Data Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) |

### public createDataObjectSchema(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber179)

Create DataObjectSchema

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) |

### public createHypertyDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber67)

Create HypertyDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

hypertyType int A tag that identifies what type of hyperty is described in the object.

dataObjects URL.URLList Defines the Data Object Schemas supported by the Hyperty through a list of Catalogue URLs from where these schemas can be reached.

#### Return:

|  |
| --- |
| [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) |

### public createHypertyRuntimeDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber124)

Create HypertyRuntimeDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

runtimeType \* hypertyCapabilities \* Supported capabilities to execute Hyperties

protocolCapabilities \* Supported capabilities to execute Protocol Stubs

#### Return:

|  |
| --- |
| [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) |

### public createPolicyEnforcerDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber153)

Create PolicyEnforcerDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

configuration \* policies \*

#### Return:

|  |
| --- |
| [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) |

### public createProtoStubDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber95)

Create ProtocolStubDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

messageSchemas URL.URL Defines the Schema describing the Message Data Model used by the Hyperty through the Catalogue URL from where the Message schema can be reached. If not defined, by default it is assumed the standard Message Model is used.

configuration \* Data required to configure the ProtocolStub

constraints \* Describes capabilities required from the Hyperty Runtime in order to be able to execute the ProtocolStub

#### Return:

|  |
| --- |
| [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) |

### public createSourcePackage(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber198)

Create SourcePackage

#### Params:

Name Type Attribute Description sourceCodeClassname \* The Class-name of the SourceCode

sourceCode \* The source code of the catalogue object

#### Return:

|  |
| --- |
| [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) |

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# Connection

You can directly use instance of this class. [connection](../../../variable/index.html#static-variable-connection)

#### Extends:

[Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) → Connection

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Connection.js~Connection.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Connection.js.html#lineNumber31)

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# ConnectionController

You can directly use instance of this class. [connectionController](../../../variable/index.html#static-variable-connectionController)

#### Extends:

src/utils/EventEmitter~EventEmitter → ConnectionController

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-constructor-constructor)(syncher: \*)

## Member Summary

Public Members public set

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectObserver)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectObserver): ConnectionDataObject: \*

return the dataObject in the controller

public set

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectReporter)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectReporter): ConnectionDataObject: \*

return the dataObject in the controller

public set

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-remotePeerInformation)(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \*

Set Remote peer information, like Hyperty.

public get

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-remotePeerInformation): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \*

Get information relative to the Remote Peer;

## Method Summary

Public Methods public

[accept](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-accept)(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to accept an incoming connection request.

public

[addPeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-addPeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

public

[changePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-changePeerInformation)(dataObjectObserver: \*)

public

[createAnswer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createAnswer)()

public

[createOffer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createOffer)()

public

[decline](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-decline)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to decline an incoming connection request.

public

[disableCam](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableCam)(): \*

public

[disableMic](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableMic)(): \*

public

[disconnect](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disconnect)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to close an existing connection instance.

public

[getUserMedia](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-getUserMedia)(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Get WebRTC API resources

public

[infoError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-infoError)(err: \*)

public

[mute](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-mute)(): \*

public

[onLocalSessionCreated](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-onLocalSessionCreated)(description: \*)

public

[processPeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-processPeerInformation)(data: \*)

public

[remoteDescriptionError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionError)(error: \*)

public

[remoteDescriptionSuccess](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionSuccess)()

public

[removePeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-removePeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to remove a peer from an existing connection instance.

## Public Constructors

### public constructor(syncher: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber14)

#### Params:

Name Type Attribute Description syncher \*

## Public Members

### public set dataObjectObserver(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber160)

Set the dataObject in the controller

### public get dataObjectObserver: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber173)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set dataObjectReporter(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber112)

Set the dataObject in the controller

### public get dataObjectReporter: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber151)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set remotePeerInformation(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber94)

Set Remote peer information, like Hyperty.

### public get remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber103)

Get information relative to the Remote Peer;

#### Return:

|  |  |
| --- | --- |
| [Object](https://developer.moz%20%20illa.org/en-US/docs/Web/JavaScrip%20t/R%20eference/Global_Objects/Object)</spa n> | remotePeerInformation; |

## Public Methods

### public accept(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber294)

Used to accept an incoming connection request.

#### Params:

Name Type Attribute Description options \*

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public addPeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber382)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public changePeerInformation(dataObjectObserver: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber200)

#### Params:

Name Type Attribute Description dataObjectObserver \*

### public createAnswer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber255)

### public createOffer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber246)

### public decline(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber334)

Used to decline an incoming connection request.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public disableCam(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber415)

#### Return:

|  |
| --- |
| \* |

### public disableMic(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber396)

#### Return:

|  |
| --- |
| \* |

### public disconnect(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber356)

Used to close an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public getUserMedia(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber183)

Get WebRTC API resources

#### Params:

Name Type Attribute Description options [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) Object containing the information that resources will be used (camera, mic, resolution, etc);

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public infoError(err: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber285)

#### Params:

Name Type Attribute Description err \*

### public mute(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber434)

#### Return:

|  |
| --- |
| \* |

### public onLocalSessionCreated(description: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber263)

#### Params:

Name Type Attribute Description description \*

### public processPeerInformation(data: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber213)

#### Params:

Name Type Attribute Description data \*

### public remoteDescriptionError(error: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber242)

#### Params:

Name Type Attribute Description error \*

### public remoteDescriptionSuccess() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber238)

### public removePeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber391)

Used to remove a peer from an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

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# DataObject

You can directly use instance of this class. [dataObject](../../../variable/index.html#static-variable-dataObject)

## Member Summary

Public Members public get

[children](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-children): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

public get

[data](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data structure to be synchronized.

public get

[schema](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-schema): SchemaURL

Object schema URL (this field is not yet stable, and is subsject to change)

public get

[status](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-status): Status

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

public get

[url](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-url): ObjectURL

Object URL of reporter or observer

## Method Summary

Public Methods public

[addChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-addChildren)(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

Create and add a children to the subscription group.

public

[onAddChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-onAddChildren)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete childrens

## Public Members

### public get children: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber88)

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObject.js.html#lineNumber82)

Data structure to be synchronized.

### public get schema: SchemaURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber70)

Object schema URL (this field is not yet stable, and is subsject to change)

### public get status: Status [source](../../../file/src/syncher/DataObject.js.html#lineNumber76)

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

### public get url: ObjectURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber64)

Object URL of reporter or observer

## Public Methods

### public addChildren(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber127)

Create and add a children to the subscription group.

#### Params:

Name Type Attribute Description resource [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Resource name, one of the items in the schema.properties.scheme of the parent object.

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the child

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectChild](.%20./.%20./../class/src/syncher/DataObj%20ectChi%20ld.js~DataObjectChild.html) &g t; | Return Promise to a new Children. |

### public onAddChildren(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObject.js.html#lineNumber160)

Setup the callback to process create and delete childrens

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# DataObjectChild

You can directly use instance of this class. [dataObjectChild](../../../variable/index.html#static-variable-dataObjectChild)

## Member Summary

Public Members public get

[childId](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-childId): URL

Children ID generated on addChildren.

public get

[data](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data Structure to be synchronized.

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onChange)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter child

public

[onResponse](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the creates

## Public Members

### public get childId: URL [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber35)

Children ID generated on addChildren. Unique identifier

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber41)

Data Structure to be synchronized.

## Public Methods

### public onChange(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber47)

Register the change listeners sent by the reporter child

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber57)

Setup the callback to process response notifications of the creates

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# DataObjectObserver

You can directly use instance of this class. [dataObjectObserver](../../../variable/index.html#static-variable-dataObjectObserver)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectObserver

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html#instance-method-onChange)(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter

## Public Methods

### public onChange(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectObserver.js.html#lineNumber38)

Register the change listeners sent by the reporter

#### Params:

Name Type Attribute Description filter [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Filter that identifies the field (separeted dot path). Accepts \* at the end for a more unrestricted filtering.

callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# DataObjectReporter

You can directly use instance of this class. [dataObjectReporter](../../../variable/index.html#static-variable-dataObjectReporter)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectReporter

## Member Summary

Public Members public get

[subscriptions](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-get-subscriptions): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription>

Subscriptions requested and accepted to this reporter

## Method Summary

Public Methods public

[onResponse](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the create’s

public

[onSubscription](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onSubscription)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process subscribe and unsubscribe notifications

## Public Members

### public get subscriptions: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription> [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber38)

Subscriptions requested and accepted to this reporter

## Public Methods

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber52)

Setup the callback to process response notifications of the create’s

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onSubscription(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber44)

Setup the callback to process subscribe and unsubscribe notifications

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# CommunicationDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → CommunicationDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber31)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# ConnectionDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ConnectionDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber37)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# ContextDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ContextDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber49)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# DataObjectSchema

You can directly use instance of this class. [dataObjectSchema](../../../variable/index.html#static-variable-dataObjectSchema)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → DataObjectSchema

#### Direct Subclass:

[HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html), [MessageDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html)

#### Indirect Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

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# HypertyDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → HypertyDataObjectSchema

#### Direct Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber23)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# IdentifyDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → IdentifyDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber43)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# MessageDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → MessageDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber17)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

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# EventEmitter

You can directly use instance of this class. [eventEmitter](../../../variable/index.html#static-variable-eventEmitter)

EventEmitter All classes which extends this, can have addEventListener and trigger events;

## Method Summary

Public Methods public

[addEventListener](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-addEventListener)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function))

addEventListener listen for an eventType

public

[trigger](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-trigger)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object))

Invoke the eventType

## Public Methods

### public addEventListener(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber12)

addEventListener listen for an eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) listening for this type of event

cb [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function) callback function will be executed when the event it is invoked

### public trigger(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber22)

Invoke the eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) event will be invoked

params [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) parameters will be passed to the addEventListener

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# HypertyDescriptor

You can directly use instance of this class. [hypertyDescriptor](../../../variable/index.html#static-variable-hypertyDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-constraints): \*

public get

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-dataObjects): \*

public set

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-dataObjects): \*

public set

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-hypertyType): \*

public get

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-hypertyType): \*

public get

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-messageSchema): \*

public set

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-messageSchema): \*

public get

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*) [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* hypertyType \* dataObjects \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber28)

### public set configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber54)

### public get constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber32)

### public set constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber59)

### public get dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber24)

### public set dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber49)

### public set hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber44)

### public get hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber20)

### public get messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber36)

### public set messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber64)

### public get policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber40)

### public set policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber69)

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# HypertyDiscovery

You can directly use instance of this class. [hypertyDiscovery](../../../variable/index.html#static-variable-hypertyDiscovery)

Core HypertyDiscovery interface Hyperty Discovery class provides the functionality to query hyperties instances registered in Domain registry\* for a given user

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-constructor-constructor)(runtimeURL: RuntimeURL, msgBus: MessageBus)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

## Method Summary

Public Methods public

[discoverHypertyPerUser](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-method-discoverHypertyPerUser)(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Function to request about users registered in domain registry, and return the hyperty instance if found.

## Public Constructors

### public constructor(runtimeURL: RuntimeURL, msgBus: MessageBus) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber14)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

#### Params:

Name Type Attribute Description runtimeURL RuntimeURL runtimeURL

msgBus MessageBus msgBus

## Public Methods

### public discoverHypertyPerUser(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber28)

Function to request about users registered in domain registry, and return the hyperty instance if found.

#### Params:

Name Type Attribute Description userIdentifier Identity.Identity

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan> | Promise |

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# HypertyRuntimeDescriptor

You can directly use instance of this class. [hypertyRuntimeDescriptor](../../../variable/index.html#static-variable-hypertyRuntimeDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyRuntimeDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*)

## Member Summary

Public Members public get

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-hypertyCapabilities): \*

public set

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-hypertyCapabilities): \*

public get

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-protocolCapabilities): \*

public set

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-protocolCapabilities): \*

public get

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-runtimeType): \*

public set

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-runtimeType): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*) [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* runtimeType \* hypertyCapabilities \* protocolCapabilities \*

## Public Members

### public get hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber29)

### public set hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber42)

### public get protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber33)

### public set protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber47)

### public get runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber25)

### public set runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber37)

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# Message

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/Message.js~Message.html#instance-constructor-constructor)(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html))

Generates a message data object

## Member Summary

Public Members public get

[body](../../../class/src/message-factory/Message.js~Message.html#instance-get-body): [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)

The Message body

public set

[body](../../../class/src/message-factory/Message.js~Message.html#instance-set-body)(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \*

set the message body

public get

[from](../../../class/src/message-factory/Message.js~Message.html#instance-get-from): URL.URL

The sender of the Message.

public set

[from](../../../class/src/message-factory/Message.js~Message.html#instance-set-from)(sender: URL.URL): \*

set the sender of the Message

public get

[id](../../../class/src/message-factory/Message.js~Message.html#instance-get-id): [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)

The Message identifier.

public get

[to](../../../class/src/message-factory/Message.js~Message.html#instance-get-to): URL.URLList

The recipient of the Message.

public set

[to](../../../class/src/message-factory/Message.js~Message.html#instance-set-to)(recipientList: URL.URLList): \*

set the list of recipients

public get

[type](../../../class/src/message-factory/Message.js~Message.html#instance-get-type): [MessageType](../../../variable/index.html#static-variable-MessageType)

The Message type.

public set

[type](../../../class/src/message-factory/Message.js~Message.html#instance-set-type)(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \*

set the message type

## Method Summary

Public Methods public

[addAccessToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addAccessToken)(token: Identity.JWT): Message.Message

Add an access token to the given message

public

[addIdToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addIdToken)(token: Identity.JWT): Message.Message

Adds an Id token to the given message

public

[assertIdentity](../../../class/src/message-factory/Message.js~Message.html#instance-method-assertIdentity)(token: Identity.JWT, identity: Identity.Identity): Message.Message

Adds the asserted identity to the message body and removes the given token from the message

## Public Constructors

### public constructor(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)) [source](../../../file/src/message-factory/Message.js.html#lineNumber23)

Generates a message data object

#### Params:

Name Type Attribute Description id [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) To be used to associate Response messages to the initial request message.

from URL.URL URL of Hyperty instance or User associated with it

toList URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

type [MessageType](../../../variable/index.html#static-variable-MessageType) The URL of the reTHINK Data Object Resource associated with the message that can be used for routing purposes

body [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) Optionally, all message bodies exchanged between different Runtime Messge BUS can contain JWT tokens for Access Control for Identity Assertion purposes that are inserted by the Identity Module before the message is routed to proto stubs

## Public Members

### public get body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) [source](../../../file/src/message-factory/Message.js.html#lineNumber60)

The Message body

### public set body(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber84)

set the message body

### public get from: URL.URL [source](../../../file/src/message-factory/Message.js.html#lineNumber42)

The sender of the Message.

### public set from(sender: URL.URL): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber66)

set the sender of the Message

### public get id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) [source](../../../file/src/message-factory/Message.js.html#lineNumber36)

The Message identifier.

### public get to: URL.URLList [source](../../../file/src/message-factory/Message.js.html#lineNumber48)

The recipient of the Message.

### public set to(recipientList: URL.URLList): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber93)

set the list of recipients

### public get type: [MessageType](../../../variable/index.html#static-variable-MessageType) [source](../../../file/src/message-factory/Message.js.html#lineNumber54)

The Message type.

### public set type(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber75)

set the message type

## Public Methods

### public addAccessToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber136)

Add an access token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT token to be added to the given message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated Message |

### public addIdToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber122)

Adds an Id token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT identity token to include in the message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated message |

### public assertIdentity(token: Identity.JWT, identity: Identity.Identity): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber104)

Adds the asserted identity to the message body and removes the given token from the message

#### Params:

Name Type Attribute Description token Identity.JWT idToken to remove from message

identity Identity.Identity asserted identity to include

#### Return:

|  |  |
| --- | --- |
| Message.Message | message - updated message |

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# CreateMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → CreateMessageBody

Class representation of the CreateMessageBody object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-constructor-constructor)(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-policy): \*

public set

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-policy): \*

public get

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-value): \*

public set

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-value): \*

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber123)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format.

policy URL.URL URL from where access policy control can be downloaded

idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber139)

### public set policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber141)

### public get value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber132)

### public set value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber134)

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# DeleteMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → DeleteMessageBody

Class representation of the DeleteMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber193)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

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# ForwardMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ForwardMessageBody

Class representation of the ForwardMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber240)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

message [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be forwarded

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# MessageBody

#### Direct Subclass:

[CreateMessageBody](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html), [DeleteMessageBody](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html), [ForwardMessageBody](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html), [ReadMessageBody](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html), [ResponseMessageBody](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html), [UpdateMessageBody](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber18)

#### Params:

Name Type Attribute Description idToken Identity.JWT token for Identity assertion purpose

accessToken Identity.JWT token for access control

resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get accessToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber42)

Get the access token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set accessToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber75)

set the access token

### public get assertedIdentity: Identity.Identity: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber60)

Return the asserted Identity

#### Return:

|  |
| --- |
| Identity.Identity |

### public set assertedIdentity(assertedIdentity: Identity.Identity): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber102)

set the asserted identity

### public get idToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber36)

Get the id token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set idToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber66)

set the token identifier

### public get resource: URL.URL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber48)

The the resource URL

#### Return:

|  |
| --- |
| URL.URL |

### public set resource: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber84)

set the resource

### public get schema: URL.HypertyCatalogueURL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber54)

Return the URL of the schema on the HypertyCatalogue

#### Return:

|  |
| --- |
| URL.HypertyCatalogueURL |

### public set schema(schema: URL.HypertyCatalogueURL): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber93)

set the schema URL

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# ReadMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ReadMessageBody

Class representation of the ReadMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber164)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the objec

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be read (optional)

criteriaSyntax [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria syntax used in criteria field. To be used for search purposes. Valid criteria Syntax are: “key-value”, “mongodb”, “sql”(?), …

criteria [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria to be used for search purposes. Syntax used to define the criteria is set in the criteriaSyntax.

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# ResponseMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ResponseMessageBody

Class representation of the ResponseMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*)

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber263)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

code \* A response code compliant with HTTP response codes (RFC7231)

value \* Contains a data value in JSON format. Applicable to Responses to READ MessageType.

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# UpdateMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → UpdateMessageBody

Class representation of the UpdateMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber218)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the updated value object in JSON format.

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# IdGenerator

Message Identifier Generator that generates the id used to identifier message transactions

## Method Summary

Public Methods public

\* [idMaker](../../../class/src/message-factory/MessageFactory.js~IdGenerator.html#instance-method-idMaker)()

## Public Methods

### public \* idMaker() [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber219)

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# MessageFactory

You can directly use instance of this class. [messageFactory](../../../variable/index.html#static-variable-messageFactory)

#### Extends:

[RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) → MessageFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor to be used to instantiate an object of the Message Factory

## Member Summary

Public Members public

[myGenerator](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-member-myGenerator): \*

## Method Summary

Public Methods public

[createCreateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createCreateMessageRequest)(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \*

Creates a Message of TYPE CREATE and Create Message Body

public

[createDeleteMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createDeleteMessageRequest)(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Create Delete Message of Type DELETE and delete message body

public

[createForwardMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createForwardMessageRequest)(from: URL.URL, to-: URL.URLList, message: \*): Message.Message

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

public

[createMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createMessageResponse)(message: \*, code: \*, value: \*, source: \*): \*

Creates the response to the Message

public

[createReadMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createReadMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Creates a Message of type READ

public

[createSubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createSubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type SUBSCRIBE

public

[createUnsubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUnsubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type UNSUBSCRIBE

public

[createUpdateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUpdateMessageRequest)(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message

Creates an Update Message Request

public

[generateMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-generateMessageResponse)(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \*

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

public

[validate](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-validate)(data: \*): \*

Validates the message against the reTHINK Message Data Schema

## Inherited Summary

From class [RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber20)

Constructor to be used to instantiate an object of the Message Factory

#### Override:

[RethinkObject#constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the reTHINK Message Data Schema

## Public Members

### public myGenerator: \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber23)

## Public Methods

### public createCreateMessageRequest(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber44)

Creates a Message of TYPE CREATE and Create Message Body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format

policy URL.URL the sender of this message

#### Return:

|  |
| --- |
| \* |

### public createDeleteMessageRequest(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber83)

Create Delete Message of Type DELETE and delete message body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be deleted

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Delete Message Request |

### public createForwardMessageRequest(from: URL.URL, to-: URL.URLList, message: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber63)

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

message \* {Message.Message} message - the message to be forwarded

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Forward Message Request |

### public createMessageResponse(message: \*, code: \*, value: \*, source: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber177)

Creates the response to the Message

#### Params:

Name Type Attribute Description message \* the message request from which the response should be generated

code \* the response code compliant with HTTP response codes (RFC7231).

value \* contains a data value in JSON format. Applicable to Responses to READ MessageType.

source \* Contains the original creator of the response. Useful to identify the real source of the response to a one-to-many message delivery ie multiple responses coming coming from different sources.

#### Return:

|  |
| --- |
| \* |

### public createReadMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber124)

Creates a Message of type READ

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be read

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Read message request |

### public createSubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber142)

Creates a Message of type SUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUnsubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber159)

Creates a Message of type UNSUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUpdateMessageRequest(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber105)

Creates an Update Message Request

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

{URL.URLList}to \* One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value \* The new value of the attribute to be updated

resource URL.URL URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be updated

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Update message request |

### public generateMessageResponse(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber199)

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

#### Params:

Name Type Attribute Description data [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be updated

code ResponseCode response code compliant with HTTP response codes (RFC7231).

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains a data value in JSON format.

#### Return:

|  |
| --- |
| \* |

### public validate(data: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber31)

Validates the message against the reTHINK Message Data Schema

#### Override:

[RethinkObject#validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| \* |

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# OwnerPeer

You can directly use instance of this class. [ownerPeer](../../../variable/index.html#static-variable-ownerPeer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/OwnerPeer.js~OwnerPeer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/OwnerPeer.js.html#lineNumber3)

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# Peer

You can directly use instance of this class. [peer](../../../variable/index.html#static-variable-peer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Peer.js~Peer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Peer.js.html#lineNumber3)

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# PolicyEnforcerDescriptor

You can directly use instance of this class. [policyEnforcerDescriptor](../../../variable/index.html#static-variable-policyEnforcerDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → PolicyEnforcerDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-configuration): \*

public get

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*) [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber7)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* configuration \* policies \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber14)

### public set configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber26)

### public get policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber18)

### public set policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber22)

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# ProtocolStubDescriptor

You can directly use instance of this class. [protocolStubDescriptor](../../../variable/index.html#static-variable-protocolStubDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → ProtocolStubDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-constraints): \*

public get

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-messageSchemas): \*

public set

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-messageSchemas): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*) [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* messageSchemas \* configuration \* constraints \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber33)

### public set configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber47)

### public get constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber29)

### public set constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber42)

### public get messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber25)

### public set messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber37)

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# RethinkObject

#### Direct Subclass:

[MessageFactory](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)(validation: \*, schema: \*)

## Member Summary

Public Members public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

## Method Summary

Public Methods public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: \*, schema: \*) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber5)

#### Params:

Name Type Attribute Description validation \* schema \*

## Public Members

### public schema: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber10)

### public validation: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber9)

## Public Methods

### public validate(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber13)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) |

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# RuntimeConstraint

You can directly use instance of this class. [runtimeConstraint](../../../variable/index.html#static-variable-runtimeConstraint)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-constructor-constructor)(constraint: \*, runtimeHypertyCapabilityType: \*)

## Member Summary

Public Members public get

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-constraint): \*

public set

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-constraint): \*

public get

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-runtimeHypertyCapabilityType): \*

public set

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-runtimeHypertyCapabilityType): \*

## Public Constructors

### public constructor(constraint: \*, runtimeHypertyCapabilityType: \*) [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber6)

#### Params:

Name Type Attribute Description constraint \* runtimeHypertyCapabilityType \*

## Public Members

### public get constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber11)

### public set constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber19)

### public get runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber15)

### public set runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber24)

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# SourcePackage

You can directly use instance of this class. [sourcePackage](../../../variable/index.html#static-variable-sourcePackage)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-constructor-constructor)(sourceCodeClassname: \*, sourceCode: \*)

## Member Summary

Public Members public get

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-encoding): \*

public set

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-encoding): \*

public get

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-signature): \*

public set

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-signature): \*

public get

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCode): \*

public set

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCode): \*

public get

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCodeClassname): \*

public set

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCodeClassname): \*

## Public Constructors

### public constructor(sourceCodeClassname: \*, sourceCode: \*) [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber5)

#### Params:

Name Type Attribute Description sourceCodeClassname \* sourceCode \*

## Public Members

### public get encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber21)

### public set encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber29)

### public get signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber25)

### public set signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber34)

### public get sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber13)

### public set sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber39)

### public get sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber17)

### public set sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber44)

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# Syncher

You can directly use instance of this class. [syncher](../../../variable/index.html#static-variable-syncher)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/syncher/Syncher.js~Syncher.html#instance-constructor-constructor)(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON))

Constructor that should be used by the Hyperty owner

## Member Summary

Public Members public get

[observers](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-observers): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

All owned observers, the ones that were created by a local subscription

public get

[owner](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-owner): HypertyURL

The owner of the Syncher and all created reporters.

public get

[reporters](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-reporters): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

All owned reporters, the ones that were created by a create

## Method Summary

Public Methods public

[create](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-create)(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

Request a DataObjectReporter creation.

public

[onNotification](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-onNotification)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete events of remove Reporter objects.

public

[subscribe](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-subscribe)(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

Request a subscription to an existent object.

## Public Constructors

### public constructor(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber30)

Constructor that should be used by the Hyperty owner

#### Params:

Name Type Attribute Description owner HypertyURL Hyperty URL owner

bus MiniBus The internal sandbox MiniBus used by the Hyperty

config [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) The only required field for now is runtimeURL

## Public Members

### public get observers: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber67)

All owned observers, the ones that were created by a local subscription

### public get owner: HypertyURL [source](../../../file/src/syncher/Syncher.js.html#lineNumber55)

The owner of the Syncher and all created reporters.

### public get reporters: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber61)

All owned reporters, the ones that were created by a create

## Public Methods

### public create(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber76)

Request a DataObjectReporter creation. The URL will be be requested by the allocation mechanism.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

observers HypertyURL[] List of hyperties that are pre-authorized for subscription

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the reporter

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectReporter](.%20./../../class/src/syncher/Data%20Object%20Reporter.js~DataObjectRepor%20ter.html) > | Return Promise to a new Reporter. The reporter can be accepted or rejected by the PEP |

### public onNotification(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber147)

Setup the callback to process create and delete events of remove Reporter objects. This is releated to the messagens sent by create to the observers Hyperty array.

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public subscribe(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber110)

Request a subscription to an existent object.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

objURL ObjectURL Address of the existent reporter object

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectObserver](.%20./../../class/src/syncher/Data%20Object%20Observer.js~DataObjectObser%20ver.html) > | Return Promise to a new observer. |

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# CatalogueDataObject

You can directly use instance of this class. [catalogueDataObject](../../../variable/index.html#static-variable-catalogueDataObject)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

Creates the Catalogue Data Object

## Member Summary

Public Members public get

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-description): \*

public set

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-description): \*

public get

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-guid): \*

public set

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-guid): \*

public get

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-language): \*

public set

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-language): \*

public get

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-objectName): \*

public set

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-objectName): \*

public set

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-signature)(signature: \*): \*

Set the signature to enables integrity and authenticity verification

public get

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-signature): \*

public set

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackage): \*

public get

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackage): \*

public get

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackageURL): \*

public set

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackageURL): \*

public set

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-type): \*

public get

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-type): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber18)

Creates the Catalogue Data Object

#### Params:

Name Type Attribute Description guid \* Global Unique identifier of the Catalogue Object (e.g. Hyperty descriptor, ProtocolStub descriptor, etc) enabling the same object to be stored and discovered in different Catalogues. That means, guid corresponds to [resource-type-id] per BNF of Resource Path. Couldn’t we have problems with too long URL paths?

type \* indicates the type of Catalogue Data Object e.g. Hyperty, ProtocolStub, etc

objectName \* human-understandable name of the catalogue object e.g. “My Awesome Hyperty”

description \* description of the source package

language \* the programming language used in the SourcePackage.SourceCode

sourcePackageURL \* A string containing the URL from where the source code package of the corresponding catalogue object, e.g. deployable packages containing executable code for Hyperties or ProtoStubs, can be downloaded

## Public Members

### public get description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber43)

### public set description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber94)

### public get guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber31)

### public set guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber79)

### public get language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber47)

### public set language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber99)

### public get objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber39)

### public set objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber89)

### public set signature(signature: \*): \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber69)

Set the signature to enables integrity and authenticity verification

### public get signature: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber51)

### public set sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber74)

### public get sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber55)

### public get sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber59)

### public set sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber104)

### public set type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber84)

### public get type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber35)

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# CatalogueDataObjectFactory

You can directly use instance of this class. [catalogueDataObjectFactory](../../../variable/index.html#static-variable-catalogueDataObjectFactory)

#### Extends:

src/reTHINKObject/RethinkObject~RethinkObject → CatalogueDataObjectFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor

## Method Summary

Public Methods public

[createCatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createCatalogueDataObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html)

Create CatalogueDataObject

public

[createDataObjectSchema](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createDataObjectSchema)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html)

Create DataObjectSchema

public

[createHypertyDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html)

Create HypertyDescriptor

public

[createHypertyRuntimeDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyRuntimeDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html)

Create HypertyRuntimeDescriptor

public

[createPolicyEnforcerDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createPolicyEnforcerDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html)

Create PolicyEnforcerDescriptor

public

[createProtoStubDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createProtoStubDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html)

Create ProtocolStubDescriptor

public

[createSourcePackage](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createSourcePackage)(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html)

Create SourcePackage

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber29)

Constructor

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the schema

## Public Methods

### public createCatalogueDataObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber43)

Create CatalogueDataObject

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

type [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType) Indicates the type of Catalogue Data Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) |

### public createDataObjectSchema(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber179)

Create DataObjectSchema

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) |

### public createHypertyDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber67)

Create HypertyDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

hypertyType int A tag that identifies what type of hyperty is described in the object.

dataObjects URL.URLList Defines the Data Object Schemas supported by the Hyperty through a list of Catalogue URLs from where these schemas can be reached.

#### Return:

|  |
| --- |
| [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) |

### public createHypertyRuntimeDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber124)

Create HypertyRuntimeDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

runtimeType \* hypertyCapabilities \* Supported capabilities to execute Hyperties

protocolCapabilities \* Supported capabilities to execute Protocol Stubs

#### Return:

|  |
| --- |
| [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) |

### public createPolicyEnforcerDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber153)

Create PolicyEnforcerDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

configuration \* policies \*

#### Return:

|  |
| --- |
| [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) |

### public createProtoStubDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber95)

Create ProtocolStubDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

messageSchemas URL.URL Defines the Schema describing the Message Data Model used by the Hyperty through the Catalogue URL from where the Message schema can be reached. If not defined, by default it is assumed the standard Message Model is used.

configuration \* Data required to configure the ProtocolStub

constraints \* Describes capabilities required from the Hyperty Runtime in order to be able to execute the ProtocolStub

#### Return:

|  |
| --- |
| [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) |

### public createSourcePackage(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber198)

Create SourcePackage

#### Params:

Name Type Attribute Description sourceCodeClassname \* The Class-name of the SourceCode

sourceCode \* The source code of the catalogue object

#### Return:

|  |
| --- |
| [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) |

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# Connection

You can directly use instance of this class. [connection](../../../variable/index.html#static-variable-connection)

#### Extends:

[Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) → Connection

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Connection.js~Connection.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Connection.js.html#lineNumber31)

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# ConnectionController

You can directly use instance of this class. [connectionController](../../../variable/index.html#static-variable-connectionController)

#### Extends:

src/utils/EventEmitter~EventEmitter → ConnectionController

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-constructor-constructor)(syncher: \*)

## Member Summary

Public Members public set

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectObserver)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectObserver): ConnectionDataObject: \*

return the dataObject in the controller

public set

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectReporter)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectReporter): ConnectionDataObject: \*

return the dataObject in the controller

public set

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-remotePeerInformation)(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \*

Set Remote peer information, like Hyperty.

public get

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-remotePeerInformation): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \*

Get information relative to the Remote Peer;

## Method Summary

Public Methods public

[accept](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-accept)(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to accept an incoming connection request.

public

[addPeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-addPeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

public

[changePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-changePeerInformation)(dataObjectObserver: \*)

public

[createAnswer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createAnswer)()

public

[createOffer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createOffer)()

public

[decline](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-decline)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to decline an incoming connection request.

public

[disableCam](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableCam)(): \*

public

[disableMic](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableMic)(): \*

public

[disconnect](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disconnect)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to close an existing connection instance.

public

[getUserMedia](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-getUserMedia)(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Get WebRTC API resources

public

[infoError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-infoError)(err: \*)

public

[mute](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-mute)(): \*

public

[onLocalSessionCreated](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-onLocalSessionCreated)(description: \*)

public

[processPeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-processPeerInformation)(data: \*)

public

[remoteDescriptionError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionError)(error: \*)

public

[remoteDescriptionSuccess](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionSuccess)()

public

[removePeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-removePeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to remove a peer from an existing connection instance.

## Public Constructors

### public constructor(syncher: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber14)

#### Params:

Name Type Attribute Description syncher \*

## Public Members

### public set dataObjectObserver(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber160)

Set the dataObject in the controller

### public get dataObjectObserver: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber173)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set dataObjectReporter(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber112)

Set the dataObject in the controller

### public get dataObjectReporter: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber151)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set remotePeerInformation(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber94)

Set Remote peer information, like Hyperty.

### public get remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber103)

Get information relative to the Remote Peer;

#### Return:

|  |  |
| --- | --- |
| [Object](https://developer.moz%20%20illa.org/en-US/docs/Web/JavaScrip%20t/R%20eference/Global_Objects/Object)</spa n> | remotePeerInformation; |

## Public Methods

### public accept(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber294)

Used to accept an incoming connection request.

#### Params:

Name Type Attribute Description options \*

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public addPeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber382)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public changePeerInformation(dataObjectObserver: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber200)

#### Params:

Name Type Attribute Description dataObjectObserver \*

### public createAnswer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber255)

### public createOffer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber246)

### public decline(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber334)

Used to decline an incoming connection request.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public disableCam(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber415)

#### Return:

|  |
| --- |
| \* |

### public disableMic(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber396)

#### Return:

|  |
| --- |
| \* |

### public disconnect(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber356)

Used to close an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public getUserMedia(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber183)

Get WebRTC API resources

#### Params:

Name Type Attribute Description options [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) Object containing the information that resources will be used (camera, mic, resolution, etc);

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public infoError(err: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber285)

#### Params:

Name Type Attribute Description err \*

### public mute(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber434)

#### Return:

|  |
| --- |
| \* |

### public onLocalSessionCreated(description: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber263)

#### Params:

Name Type Attribute Description description \*

### public processPeerInformation(data: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber213)

#### Params:

Name Type Attribute Description data \*

### public remoteDescriptionError(error: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber242)

#### Params:

Name Type Attribute Description error \*

### public remoteDescriptionSuccess() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber238)

### public removePeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber391)

Used to remove a peer from an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

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# DataObject

You can directly use instance of this class. [dataObject](../../../variable/index.html#static-variable-dataObject)

## Member Summary

Public Members public get

[children](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-children): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

public get

[data](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data structure to be synchronized.

public get

[schema](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-schema): SchemaURL

Object schema URL (this field is not yet stable, and is subsject to change)

public get

[status](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-status): Status

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

public get

[url](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-url): ObjectURL

Object URL of reporter or observer

## Method Summary

Public Methods public

[addChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-addChildren)(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

Create and add a children to the subscription group.

public

[onAddChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-onAddChildren)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete childrens

## Public Members

### public get children: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber88)

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObject.js.html#lineNumber82)

Data structure to be synchronized.

### public get schema: SchemaURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber70)

Object schema URL (this field is not yet stable, and is subsject to change)

### public get status: Status [source](../../../file/src/syncher/DataObject.js.html#lineNumber76)

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

### public get url: ObjectURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber64)

Object URL of reporter or observer

## Public Methods

### public addChildren(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber127)

Create and add a children to the subscription group.

#### Params:

Name Type Attribute Description resource [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Resource name, one of the items in the schema.properties.scheme of the parent object.

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the child

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectChild](.%20./.%20./../class/src/syncher/DataObj%20ectChi%20ld.js~DataObjectChild.html) &g t; | Return Promise to a new Children. |

### public onAddChildren(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObject.js.html#lineNumber160)

Setup the callback to process create and delete childrens

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# DataObjectChild

You can directly use instance of this class. [dataObjectChild](../../../variable/index.html#static-variable-dataObjectChild)

## Member Summary

Public Members public get

[childId](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-childId): URL

Children ID generated on addChildren.

public get

[data](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data Structure to be synchronized.

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onChange)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter child

public

[onResponse](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the creates

## Public Members

### public get childId: URL [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber35)

Children ID generated on addChildren. Unique identifier

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber41)

Data Structure to be synchronized.

## Public Methods

### public onChange(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber47)

Register the change listeners sent by the reporter child

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber57)

Setup the callback to process response notifications of the creates

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# DataObjectObserver

You can directly use instance of this class. [dataObjectObserver](../../../variable/index.html#static-variable-dataObjectObserver)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectObserver

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html#instance-method-onChange)(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter

## Public Methods

### public onChange(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectObserver.js.html#lineNumber38)

Register the change listeners sent by the reporter

#### Params:

Name Type Attribute Description filter [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Filter that identifies the field (separeted dot path). Accepts \* at the end for a more unrestricted filtering.

callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# DataObjectReporter

You can directly use instance of this class. [dataObjectReporter](../../../variable/index.html#static-variable-dataObjectReporter)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectReporter

## Member Summary

Public Members public get

[subscriptions](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-get-subscriptions): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription>

Subscriptions requested and accepted to this reporter

## Method Summary

Public Methods public

[onResponse](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the create’s

public

[onSubscription](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onSubscription)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process subscribe and unsubscribe notifications

## Public Members

### public get subscriptions: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription> [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber38)

Subscriptions requested and accepted to this reporter

## Public Methods

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber52)

Setup the callback to process response notifications of the create’s

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onSubscription(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber44)

Setup the callback to process subscribe and unsubscribe notifications

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# CommunicationDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → CommunicationDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber31)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# ConnectionDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ConnectionDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber37)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# ContextDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ContextDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber49)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# DataObjectSchema

You can directly use instance of this class. [dataObjectSchema](../../../variable/index.html#static-variable-dataObjectSchema)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → DataObjectSchema

#### Direct Subclass:

[HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html), [MessageDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html)

#### Indirect Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

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# HypertyDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → HypertyDataObjectSchema

#### Direct Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber23)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# IdentifyDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → IdentifyDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber43)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# MessageDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → MessageDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber17)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

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# EventEmitter

You can directly use instance of this class. [eventEmitter](../../../variable/index.html#static-variable-eventEmitter)

EventEmitter All classes which extends this, can have addEventListener and trigger events;

## Method Summary

Public Methods public

[addEventListener](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-addEventListener)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function))

addEventListener listen for an eventType

public

[trigger](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-trigger)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object))

Invoke the eventType

## Public Methods

### public addEventListener(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber12)

addEventListener listen for an eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) listening for this type of event

cb [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function) callback function will be executed when the event it is invoked

### public trigger(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber22)

Invoke the eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) event will be invoked

params [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) parameters will be passed to the addEventListener

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# HypertyDescriptor

You can directly use instance of this class. [hypertyDescriptor](../../../variable/index.html#static-variable-hypertyDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-constraints): \*

public get

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-dataObjects): \*

public set

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-dataObjects): \*

public set

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-hypertyType): \*

public get

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-hypertyType): \*

public get

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-messageSchema): \*

public set

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-messageSchema): \*

public get

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*) [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* hypertyType \* dataObjects \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber28)

### public set configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber54)

### public get constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber32)

### public set constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber59)

### public get dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber24)

### public set dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber49)

### public set hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber44)

### public get hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber20)

### public get messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber36)

### public set messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber64)

### public get policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber40)

### public set policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber69)

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# HypertyDiscovery

You can directly use instance of this class. [hypertyDiscovery](../../../variable/index.html#static-variable-hypertyDiscovery)

Core HypertyDiscovery interface Hyperty Discovery class provides the functionality to query hyperties instances registered in Domain registry\* for a given user

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-constructor-constructor)(runtimeURL: RuntimeURL, msgBus: MessageBus)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

## Method Summary

Public Methods public

[discoverHypertyPerUser](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-method-discoverHypertyPerUser)(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Function to request about users registered in domain registry, and return the hyperty instance if found.

## Public Constructors

### public constructor(runtimeURL: RuntimeURL, msgBus: MessageBus) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber14)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

#### Params:

Name Type Attribute Description runtimeURL RuntimeURL runtimeURL

msgBus MessageBus msgBus

## Public Methods

### public discoverHypertyPerUser(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber28)

Function to request about users registered in domain registry, and return the hyperty instance if found.

#### Params:

Name Type Attribute Description userIdentifier Identity.Identity

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan> | Promise |

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# HypertyRuntimeDescriptor

You can directly use instance of this class. [hypertyRuntimeDescriptor](../../../variable/index.html#static-variable-hypertyRuntimeDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyRuntimeDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*)

## Member Summary

Public Members public get

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-hypertyCapabilities): \*

public set

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-hypertyCapabilities): \*

public get

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-protocolCapabilities): \*

public set

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-protocolCapabilities): \*

public get

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-runtimeType): \*

public set

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-runtimeType): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*) [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* runtimeType \* hypertyCapabilities \* protocolCapabilities \*

## Public Members

### public get hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber29)

### public set hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber42)

### public get protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber33)

### public set protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber47)

### public get runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber25)

### public set runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber37)

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# Message

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/Message.js~Message.html#instance-constructor-constructor)(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html))

Generates a message data object

## Member Summary

Public Members public get

[body](../../../class/src/message-factory/Message.js~Message.html#instance-get-body): [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)

The Message body

public set

[body](../../../class/src/message-factory/Message.js~Message.html#instance-set-body)(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \*

set the message body

public get

[from](../../../class/src/message-factory/Message.js~Message.html#instance-get-from): URL.URL

The sender of the Message.

public set

[from](../../../class/src/message-factory/Message.js~Message.html#instance-set-from)(sender: URL.URL): \*

set the sender of the Message

public get

[id](../../../class/src/message-factory/Message.js~Message.html#instance-get-id): [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)

The Message identifier.

public get

[to](../../../class/src/message-factory/Message.js~Message.html#instance-get-to): URL.URLList

The recipient of the Message.

public set

[to](../../../class/src/message-factory/Message.js~Message.html#instance-set-to)(recipientList: URL.URLList): \*

set the list of recipients

public get

[type](../../../class/src/message-factory/Message.js~Message.html#instance-get-type): [MessageType](../../../variable/index.html#static-variable-MessageType)

The Message type.

public set

[type](../../../class/src/message-factory/Message.js~Message.html#instance-set-type)(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \*

set the message type

## Method Summary

Public Methods public

[addAccessToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addAccessToken)(token: Identity.JWT): Message.Message

Add an access token to the given message

public

[addIdToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addIdToken)(token: Identity.JWT): Message.Message

Adds an Id token to the given message

public

[assertIdentity](../../../class/src/message-factory/Message.js~Message.html#instance-method-assertIdentity)(token: Identity.JWT, identity: Identity.Identity): Message.Message

Adds the asserted identity to the message body and removes the given token from the message

## Public Constructors

### public constructor(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)) [source](../../../file/src/message-factory/Message.js.html#lineNumber23)

Generates a message data object

#### Params:

Name Type Attribute Description id [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) To be used to associate Response messages to the initial request message.

from URL.URL URL of Hyperty instance or User associated with it

toList URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

type [MessageType](../../../variable/index.html#static-variable-MessageType) The URL of the reTHINK Data Object Resource associated with the message that can be used for routing purposes

body [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) Optionally, all message bodies exchanged between different Runtime Messge BUS can contain JWT tokens for Access Control for Identity Assertion purposes that are inserted by the Identity Module before the message is routed to proto stubs

## Public Members

### public get body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) [source](../../../file/src/message-factory/Message.js.html#lineNumber60)

The Message body

### public set body(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber84)

set the message body

### public get from: URL.URL [source](../../../file/src/message-factory/Message.js.html#lineNumber42)

The sender of the Message.

### public set from(sender: URL.URL): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber66)

set the sender of the Message

### public get id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) [source](../../../file/src/message-factory/Message.js.html#lineNumber36)

The Message identifier.

### public get to: URL.URLList [source](../../../file/src/message-factory/Message.js.html#lineNumber48)

The recipient of the Message.

### public set to(recipientList: URL.URLList): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber93)

set the list of recipients

### public get type: [MessageType](../../../variable/index.html#static-variable-MessageType) [source](../../../file/src/message-factory/Message.js.html#lineNumber54)

The Message type.

### public set type(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber75)

set the message type

## Public Methods

### public addAccessToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber136)

Add an access token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT token to be added to the given message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated Message |

### public addIdToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber122)

Adds an Id token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT identity token to include in the message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated message |

### public assertIdentity(token: Identity.JWT, identity: Identity.Identity): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber104)

Adds the asserted identity to the message body and removes the given token from the message

#### Params:

Name Type Attribute Description token Identity.JWT idToken to remove from message

identity Identity.Identity asserted identity to include

#### Return:

|  |  |
| --- | --- |
| Message.Message | message - updated message |

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# CreateMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → CreateMessageBody

Class representation of the CreateMessageBody object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-constructor-constructor)(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-policy): \*

public set

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-policy): \*

public get

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-value): \*

public set

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-value): \*

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber123)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format.

policy URL.URL URL from where access policy control can be downloaded

idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber139)

### public set policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber141)

### public get value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber132)

### public set value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber134)

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# DeleteMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → DeleteMessageBody

Class representation of the DeleteMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber193)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

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# ForwardMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ForwardMessageBody

Class representation of the ForwardMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber240)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

message [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be forwarded

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# MessageBody

#### Direct Subclass:

[CreateMessageBody](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html), [DeleteMessageBody](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html), [ForwardMessageBody](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html), [ReadMessageBody](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html), [ResponseMessageBody](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html), [UpdateMessageBody](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber18)

#### Params:

Name Type Attribute Description idToken Identity.JWT token for Identity assertion purpose

accessToken Identity.JWT token for access control

resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get accessToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber42)

Get the access token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set accessToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber75)

set the access token

### public get assertedIdentity: Identity.Identity: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber60)

Return the asserted Identity

#### Return:

|  |
| --- |
| Identity.Identity |

### public set assertedIdentity(assertedIdentity: Identity.Identity): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber102)

set the asserted identity

### public get idToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber36)

Get the id token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set idToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber66)

set the token identifier

### public get resource: URL.URL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber48)

The the resource URL

#### Return:

|  |
| --- |
| URL.URL |

### public set resource: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber84)

set the resource

### public get schema: URL.HypertyCatalogueURL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber54)

Return the URL of the schema on the HypertyCatalogue

#### Return:

|  |
| --- |
| URL.HypertyCatalogueURL |

### public set schema(schema: URL.HypertyCatalogueURL): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber93)

set the schema URL

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# ReadMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ReadMessageBody

Class representation of the ReadMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber164)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the objec

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be read (optional)

criteriaSyntax [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria syntax used in criteria field. To be used for search purposes. Valid criteria Syntax are: “key-value”, “mongodb”, “sql”(?), …

criteria [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria to be used for search purposes. Syntax used to define the criteria is set in the criteriaSyntax.

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# ResponseMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ResponseMessageBody

Class representation of the ResponseMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*)

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber263)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

code \* A response code compliant with HTTP response codes (RFC7231)

value \* Contains a data value in JSON format. Applicable to Responses to READ MessageType.

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# UpdateMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → UpdateMessageBody

Class representation of the UpdateMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber218)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the updated value object in JSON format.

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# IdGenerator

Message Identifier Generator that generates the id used to identifier message transactions

## Method Summary

Public Methods public

\* [idMaker](../../../class/src/message-factory/MessageFactory.js~IdGenerator.html#instance-method-idMaker)()

## Public Methods

### public \* idMaker() [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber219)

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# MessageFactory

You can directly use instance of this class. [messageFactory](../../../variable/index.html#static-variable-messageFactory)

#### Extends:

[RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) → MessageFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor to be used to instantiate an object of the Message Factory

## Member Summary

Public Members public

[myGenerator](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-member-myGenerator): \*

## Method Summary

Public Methods public

[createCreateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createCreateMessageRequest)(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \*

Creates a Message of TYPE CREATE and Create Message Body

public

[createDeleteMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createDeleteMessageRequest)(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Create Delete Message of Type DELETE and delete message body

public

[createForwardMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createForwardMessageRequest)(from: URL.URL, to-: URL.URLList, message: \*): Message.Message

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

public

[createMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createMessageResponse)(message: \*, code: \*, value: \*, source: \*): \*

Creates the response to the Message

public

[createReadMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createReadMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Creates a Message of type READ

public

[createSubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createSubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type SUBSCRIBE

public

[createUnsubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUnsubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type UNSUBSCRIBE

public

[createUpdateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUpdateMessageRequest)(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message

Creates an Update Message Request

public

[generateMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-generateMessageResponse)(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \*

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

public

[validate](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-validate)(data: \*): \*

Validates the message against the reTHINK Message Data Schema

## Inherited Summary

From class [RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber20)

Constructor to be used to instantiate an object of the Message Factory

#### Override:

[RethinkObject#constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the reTHINK Message Data Schema

## Public Members

### public myGenerator: \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber23)

## Public Methods

### public createCreateMessageRequest(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber44)

Creates a Message of TYPE CREATE and Create Message Body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format

policy URL.URL the sender of this message

#### Return:

|  |
| --- |
| \* |

### public createDeleteMessageRequest(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber83)

Create Delete Message of Type DELETE and delete message body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be deleted

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Delete Message Request |

### public createForwardMessageRequest(from: URL.URL, to-: URL.URLList, message: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber63)

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

message \* {Message.Message} message - the message to be forwarded

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Forward Message Request |

### public createMessageResponse(message: \*, code: \*, value: \*, source: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber177)

Creates the response to the Message

#### Params:

Name Type Attribute Description message \* the message request from which the response should be generated

code \* the response code compliant with HTTP response codes (RFC7231).

value \* contains a data value in JSON format. Applicable to Responses to READ MessageType.

source \* Contains the original creator of the response. Useful to identify the real source of the response to a one-to-many message delivery ie multiple responses coming coming from different sources.

#### Return:

|  |
| --- |
| \* |

### public createReadMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber124)

Creates a Message of type READ

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be read

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Read message request |

### public createSubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber142)

Creates a Message of type SUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUnsubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber159)

Creates a Message of type UNSUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUpdateMessageRequest(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber105)

Creates an Update Message Request

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

{URL.URLList}to \* One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value \* The new value of the attribute to be updated

resource URL.URL URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be updated

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Update message request |

### public generateMessageResponse(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber199)

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

#### Params:

Name Type Attribute Description data [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be updated

code ResponseCode response code compliant with HTTP response codes (RFC7231).

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains a data value in JSON format.

#### Return:

|  |
| --- |
| \* |

### public validate(data: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber31)

Validates the message against the reTHINK Message Data Schema

#### Override:

[RethinkObject#validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| \* |

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# OwnerPeer

You can directly use instance of this class. [ownerPeer](../../../variable/index.html#static-variable-ownerPeer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/OwnerPeer.js~OwnerPeer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/OwnerPeer.js.html#lineNumber3)

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# Peer

You can directly use instance of this class. [peer](../../../variable/index.html#static-variable-peer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Peer.js~Peer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Peer.js.html#lineNumber3)

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# PolicyEnforcerDescriptor

You can directly use instance of this class. [policyEnforcerDescriptor](../../../variable/index.html#static-variable-policyEnforcerDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → PolicyEnforcerDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-configuration): \*

public get

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*) [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber7)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* configuration \* policies \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber14)

### public set configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber26)

### public get policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber18)

### public set policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber22)

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# ProtocolStubDescriptor

You can directly use instance of this class. [protocolStubDescriptor](../../../variable/index.html#static-variable-protocolStubDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → ProtocolStubDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-constraints): \*

public get

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-messageSchemas): \*

public set

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-messageSchemas): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*) [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* messageSchemas \* configuration \* constraints \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber33)

### public set configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber47)

### public get constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber29)

### public set constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber42)

### public get messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber25)

### public set messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber37)

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# RethinkObject

#### Direct Subclass:

[MessageFactory](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)(validation: \*, schema: \*)

## Member Summary

Public Members public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

## Method Summary

Public Methods public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: \*, schema: \*) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber5)

#### Params:

Name Type Attribute Description validation \* schema \*

## Public Members

### public schema: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber10)

### public validation: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber9)

## Public Methods

### public validate(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber13)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) |

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# RuntimeConstraint

You can directly use instance of this class. [runtimeConstraint](../../../variable/index.html#static-variable-runtimeConstraint)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-constructor-constructor)(constraint: \*, runtimeHypertyCapabilityType: \*)

## Member Summary

Public Members public get

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-constraint): \*

public set

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-constraint): \*

public get

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-runtimeHypertyCapabilityType): \*

public set

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-runtimeHypertyCapabilityType): \*

## Public Constructors

### public constructor(constraint: \*, runtimeHypertyCapabilityType: \*) [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber6)

#### Params:

Name Type Attribute Description constraint \* runtimeHypertyCapabilityType \*

## Public Members

### public get constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber11)

### public set constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber19)

### public get runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber15)

### public set runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber24)

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# SourcePackage

You can directly use instance of this class. [sourcePackage](../../../variable/index.html#static-variable-sourcePackage)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-constructor-constructor)(sourceCodeClassname: \*, sourceCode: \*)

## Member Summary

Public Members public get

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-encoding): \*

public set

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-encoding): \*

public get

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-signature): \*

public set

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-signature): \*

public get

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCode): \*

public set

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCode): \*

public get

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCodeClassname): \*

public set

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCodeClassname): \*

## Public Constructors

### public constructor(sourceCodeClassname: \*, sourceCode: \*) [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber5)

#### Params:

Name Type Attribute Description sourceCodeClassname \* sourceCode \*

## Public Members

### public get encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber21)

### public set encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber29)

### public get signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber25)

### public set signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber34)

### public get sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber13)

### public set sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber39)

### public get sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber17)

### public set sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber44)

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# Syncher

You can directly use instance of this class. [syncher](../../../variable/index.html#static-variable-syncher)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/syncher/Syncher.js~Syncher.html#instance-constructor-constructor)(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON))

Constructor that should be used by the Hyperty owner

## Member Summary

Public Members public get

[observers](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-observers): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

All owned observers, the ones that were created by a local subscription

public get

[owner](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-owner): HypertyURL

The owner of the Syncher and all created reporters.

public get

[reporters](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-reporters): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

All owned reporters, the ones that were created by a create

## Method Summary

Public Methods public

[create](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-create)(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

Request a DataObjectReporter creation.

public

[onNotification](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-onNotification)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete events of remove Reporter objects.

public

[subscribe](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-subscribe)(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

Request a subscription to an existent object.

## Public Constructors

### public constructor(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber30)

Constructor that should be used by the Hyperty owner

#### Params:

Name Type Attribute Description owner HypertyURL Hyperty URL owner

bus MiniBus The internal sandbox MiniBus used by the Hyperty

config [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) The only required field for now is runtimeURL

## Public Members

### public get observers: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber67)

All owned observers, the ones that were created by a local subscription

### public get owner: HypertyURL [source](../../../file/src/syncher/Syncher.js.html#lineNumber55)

The owner of the Syncher and all created reporters.

### public get reporters: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber61)

All owned reporters, the ones that were created by a create

## Public Methods

### public create(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber76)

Request a DataObjectReporter creation. The URL will be be requested by the allocation mechanism.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

observers HypertyURL[] List of hyperties that are pre-authorized for subscription

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the reporter

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectReporter](.%20./../../class/src/syncher/Data%20Object%20Reporter.js~DataObjectRepor%20ter.html) > | Return Promise to a new Reporter. The reporter can be accepted or rejected by the PEP |

### public onNotification(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber147)

Setup the callback to process create and delete events of remove Reporter objects. This is releated to the messagens sent by create to the observers Hyperty array.

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public subscribe(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber110)

Request a subscription to an existent object.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

objURL ObjectURL Address of the existent reporter object

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectObserver](.%20./../../class/src/syncher/Data%20Object%20Observer.js~DataObjectObser%20ver.html) > | Return Promise to a new observer. |

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# CatalogueDataObject

You can directly use instance of this class. [catalogueDataObject](../../../variable/index.html#static-variable-catalogueDataObject)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

Creates the Catalogue Data Object

## Member Summary

Public Members public get

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-description): \*

public set

[description](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-description): \*

public get

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-guid): \*

public set

[guid](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-guid): \*

public get

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-language): \*

public set

[language](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-language): \*

public get

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-objectName): \*

public set

[objectName](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-objectName): \*

public set

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-signature)(signature: \*): \*

Set the signature to enables integrity and authenticity verification

public get

[signature](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-signature): \*

public set

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackage): \*

public get

[sourcePackage](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackage): \*

public get

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-sourcePackageURL): \*

public set

[sourcePackageURL](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-sourcePackageURL): \*

public set

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-set-type): \*

public get

[type](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html#instance-get-type): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber18)

Creates the Catalogue Data Object

#### Params:

Name Type Attribute Description guid \* Global Unique identifier of the Catalogue Object (e.g. Hyperty descriptor, ProtocolStub descriptor, etc) enabling the same object to be stored and discovered in different Catalogues. That means, guid corresponds to [resource-type-id] per BNF of Resource Path. Couldn’t we have problems with too long URL paths?

type \* indicates the type of Catalogue Data Object e.g. Hyperty, ProtocolStub, etc

objectName \* human-understandable name of the catalogue object e.g. “My Awesome Hyperty”

description \* description of the source package

language \* the programming language used in the SourcePackage.SourceCode

sourcePackageURL \* A string containing the URL from where the source code package of the corresponding catalogue object, e.g. deployable packages containing executable code for Hyperties or ProtoStubs, can be downloaded

## Public Members

### public get description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber43)

### public set description: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber94)

### public get guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber31)

### public set guid: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber79)

### public get language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber47)

### public set language: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber99)

### public get objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber39)

### public set objectName: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber89)

### public set signature(signature: \*): \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber69)

Set the signature to enables integrity and authenticity verification

### public get signature: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber51)

### public set sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber74)

### public get sourcePackage: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber55)

### public get sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber59)

### public set sourcePackageURL: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber104)

### public set type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber84)

### public get type: \* [source](../../../file/src/catalogue-factory/CatalogueDataObject.js.html#lineNumber35)

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# CatalogueDataObjectFactory

You can directly use instance of this class. [catalogueDataObjectFactory](../../../variable/index.html#static-variable-catalogueDataObjectFactory)

#### Extends:

src/reTHINKObject/RethinkObject~RethinkObject → CatalogueDataObjectFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor

## Method Summary

Public Methods public

[createCatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createCatalogueDataObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html)

Create CatalogueDataObject

public

[createDataObjectSchema](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createDataObjectSchema)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html)

Create DataObjectSchema

public

[createHypertyDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html)

Create HypertyDescriptor

public

[createHypertyRuntimeDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createHypertyRuntimeDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html)

Create HypertyRuntimeDescriptor

public

[createPolicyEnforcerDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createPolicyEnforcerDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html)

Create PolicyEnforcerDescriptor

public

[createProtoStubDescriptorObject](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createProtoStubDescriptorObject)(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html)

Create ProtocolStubDescriptor

public

[createSourcePackage](../../../class/src/catalogue-factory/CatalogueDataObjectFactory.js~CatalogueDataObjectFactory.html#instance-method-createSourcePackage)(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html)

Create SourcePackage

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber29)

Constructor

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the schema

## Public Methods

### public createCatalogueDataObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), type: [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber43)

Create CatalogueDataObject

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

type [CatalogueObjectType](../../../variable/index.html#static-variable-CatalogueObjectType) Indicates the type of Catalogue Data Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [CatalogueDataObject](../../../class/src/catalogue-factory/CatalogueDataObject.js~CatalogueDataObject.html) |

### public createDataObjectSchema(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber179)

Create DataObjectSchema

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

#### Return:

|  |
| --- |
| [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) |

### public createHypertyDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), hypertyType: int, dataObjects: URL.URLList): [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber67)

Create HypertyDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

hypertyType int A tag that identifies what type of hyperty is described in the object.

dataObjects URL.URLList Defines the Data Object Schemas supported by the Hyperty through a list of Catalogue URLs from where these schemas can be reached.

#### Return:

|  |
| --- |
| [HypertyDescriptor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html) |

### public createHypertyRuntimeDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*): [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber124)

Create HypertyRuntimeDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

runtimeType \* hypertyCapabilities \* Supported capabilities to execute Hyperties

protocolCapabilities \* Supported capabilities to execute Protocol Stubs

#### Return:

|  |
| --- |
| [HypertyRuntimeDescriptor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html) |

### public createPolicyEnforcerDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), configuration: \*, policies: \*): [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber153)

Create PolicyEnforcerDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

configuration \* policies \*

#### Return:

|  |
| --- |
| [PolicyEnforcerDescriptor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html) |

### public createProtoStubDescriptorObject(guid: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), objectName: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), description: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), language: [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage), sourcePackageURL: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), messageSchemas: URL.URL, configuration: \*, constraints: \*): [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber95)

Create ProtocolStubDescriptor

#### Params:

Name Type Attribute Description guid [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Catalogue Global Unique identifier of the Catalogue Object

objectName [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Human-understandable name of the catalogue object

description [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) language [DataObjectSourceLanguage](../../../variable/index.html#static-variable-DataObjectSourceLanguage) Programming language used in the SourcePackage

sourcePackageURL [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) URL from where the source code package of the corresponding catalogue object can be downloaded.

messageSchemas URL.URL Defines the Schema describing the Message Data Model used by the Hyperty through the Catalogue URL from where the Message schema can be reached. If not defined, by default it is assumed the standard Message Model is used.

configuration \* Data required to configure the ProtocolStub

constraints \* Describes capabilities required from the Hyperty Runtime in order to be able to execute the ProtocolStub

#### Return:

|  |
| --- |
| [ProtocolStubDescriptor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html) |

### public createSourcePackage(sourceCodeClassname: \*, sourceCode: \*): [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) [source](../../../file/src/catalogue-factory/CatalogueDataObjectFactory.js.html#lineNumber198)

Create SourcePackage

#### Params:

Name Type Attribute Description sourceCodeClassname \* The Class-name of the SourceCode

sourceCode \* The source code of the catalogue object

#### Return:

|  |
| --- |
| [SourcePackage](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html) |

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# Connection

You can directly use instance of this class. [connection](../../../variable/index.html#static-variable-connection)

#### Extends:

[Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) → Connection

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Connection.js~Connection.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Connection.js.html#lineNumber31)

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# ConnectionController

You can directly use instance of this class. [connectionController](../../../variable/index.html#static-variable-connectionController)

#### Extends:

src/utils/EventEmitter~EventEmitter → ConnectionController

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-constructor-constructor)(syncher: \*)

## Member Summary

Public Members public set

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectObserver)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectObserver](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectObserver): ConnectionDataObject: \*

return the dataObject in the controller

public set

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-dataObjectReporter)(dataObject: ConnectionDataObject): \*

Set the dataObject in the controller

public get

[dataObjectReporter](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-dataObjectReporter): ConnectionDataObject: \*

return the dataObject in the controller

public set

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-set-remotePeerInformation)(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \*

Set Remote peer information, like Hyperty.

public get

[remotePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-get-remotePeerInformation): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \*

Get information relative to the Remote Peer;

## Method Summary

Public Methods public

[accept](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-accept)(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to accept an incoming connection request.

public

[addPeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-addPeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

public

[changePeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-changePeerInformation)(dataObjectObserver: \*)

public

[createAnswer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createAnswer)()

public

[createOffer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-createOffer)()

public

[decline](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-decline)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to decline an incoming connection request.

public

[disableCam](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableCam)(): \*

public

[disableMic](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disableMic)(): \*

public

[disconnect](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-disconnect)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to close an existing connection instance.

public

[getUserMedia](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-getUserMedia)(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Get WebRTC API resources

public

[infoError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-infoError)(err: \*)

public

[mute](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-mute)(): \*

public

[onLocalSessionCreated](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-onLocalSessionCreated)(description: \*)

public

[processPeerInformation](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-processPeerInformation)(data: \*)

public

[remoteDescriptionError](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionError)(error: \*)

public

[remoteDescriptionSuccess](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-remoteDescriptionSuccess)()

public

[removePeer](../../../class/src/hyperty/ConnectionController.js~ConnectionController.html#instance-method-removePeer)(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Used to remove a peer from an existing connection instance.

## Public Constructors

### public constructor(syncher: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber14)

#### Params:

Name Type Attribute Description syncher \*

## Public Members

### public set dataObjectObserver(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber160)

Set the dataObject in the controller

### public get dataObjectObserver: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber173)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set dataObjectReporter(dataObject: ConnectionDataObject): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber112)

Set the dataObject in the controller

### public get dataObjectReporter: ConnectionDataObject: \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber151)

return the dataObject in the controller

#### Return:

|  |  |
| --- | --- |
| ConnectionDataObject | dataObject |

### public set remotePeerInformation(remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber94)

Set Remote peer information, like Hyperty.

### public get remotePeerInformation: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber103)

Get information relative to the Remote Peer;

#### Return:

|  |  |
| --- | --- |
| [Object](https://developer.moz%20%20illa.org/en-US/docs/Web/JavaScrip%20t/R%20eference/Global_Objects/Object)</spa n> | remotePeerInformation; |

## Public Methods

### public accept(options: \*): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber294)

Used to accept an incoming connection request.

#### Params:

Name Type Attribute Description options \*

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public addPeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber382)

Used to add/invite new peers on an existing connection instance (for multiparty connections).

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public changePeerInformation(dataObjectObserver: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber200)

#### Params:

Name Type Attribute Description dataObjectObserver \*

### public createAnswer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber255)

### public createOffer() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber246)

### public decline(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber334)

Used to decline an incoming connection request.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public disableCam(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber415)

#### Return:

|  |
| --- |
| \* |

### public disableMic(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber396)

#### Return:

|  |
| --- |
| \* |

### public disconnect(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber356)

Used to close an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public getUserMedia(options: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber183)

Get WebRTC API resources

#### Params:

Name Type Attribute Description options [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) Object containing the information that resources will be used (camera, mic, resolution, etc);

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

### public infoError(err: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber285)

#### Params:

Name Type Attribute Description err \*

### public mute(): \* [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber434)

#### Return:

|  |
| --- |
| \* |

### public onLocalSessionCreated(description: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber263)

#### Params:

Name Type Attribute Description description \*

### public processPeerInformation(data: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber213)

#### Params:

Name Type Attribute Description data \*

### public remoteDescriptionError(error: \*) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber242)

#### Params:

Name Type Attribute Description error \*

### public remoteDescriptionSuccess() [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber238)

### public removePeer(): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty/ConnectionController.js.html#lineNumber391)

Used to remove a peer from an existing connection instance.

#### Return:

|  |
| --- |
| [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) |

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# DataObject

You can directly use instance of this class. [dataObject](../../../variable/index.html#static-variable-dataObject)

## Member Summary

Public Members public get

[children](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-children): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

public get

[data](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data structure to be synchronized.

public get

[schema](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-schema): SchemaURL

Object schema URL (this field is not yet stable, and is subsject to change)

public get

[status](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-status): Status

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

public get

[url](../../../class/src/syncher/DataObject.js~DataObject.html#instance-get-url): ObjectURL

Object URL of reporter or observer

## Method Summary

Public Methods public

[addChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-addChildren)(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)>

Create and add a children to the subscription group.

public

[onAddChildren](../../../class/src/syncher/DataObject.js~DataObject.html#instance-method-onAddChildren)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete childrens

## Public Members

### public get children: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<ChildId, [DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber88)

All created children’s since the subscription, doesn’t contain all children’s since reporter creation.

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObject.js.html#lineNumber82)

Data structure to be synchronized.

### public get schema: SchemaURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber70)

Object schema URL (this field is not yet stable, and is subsject to change)

### public get status: Status [source](../../../file/src/syncher/DataObject.js.html#lineNumber76)

Status of the reporter or observer connection (this field is not yet stable, and is subsject to change)

### public get url: ObjectURL [source](../../../file/src/syncher/DataObject.js.html#lineNumber64)

Object URL of reporter or observer

## Public Methods

### public addChildren(resource: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectChild](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html)> [source](../../../file/src/syncher/DataObject.js.html#lineNumber127)

Create and add a children to the subscription group.

#### Params:

Name Type Attribute Description resource [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Resource name, one of the items in the schema.properties.scheme of the parent object.

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the child

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectChild](.%20./.%20./../class/src/syncher/DataObj%20ectChi%20ld.js~DataObjectChild.html) &g t; | Return Promise to a new Children. |

### public onAddChildren(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObject.js.html#lineNumber160)

Setup the callback to process create and delete childrens

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# DataObjectChild

You can directly use instance of this class. [dataObjectChild](../../../variable/index.html#static-variable-dataObjectChild)

## Member Summary

Public Members public get

[childId](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-childId): URL

Children ID generated on addChildren.

public get

[data](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-get-data): [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)

Data Structure to be synchronized.

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onChange)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter child

public

[onResponse](../../../class/src/syncher/DataObjectChild.js~DataObjectChild.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the creates

## Public Members

### public get childId: URL [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber35)

Children ID generated on addChildren. Unique identifier

### public get data: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber41)

Data Structure to be synchronized.

## Public Methods

### public onChange(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber47)

Register the change listeners sent by the reporter child

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectChild.js.html#lineNumber57)

Setup the callback to process response notifications of the creates

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

Generated by [ESDoc(0.4.3)](https://esdoc.org)

# DataObjectObserver

You can directly use instance of this class. [dataObjectObserver](../../../variable/index.html#static-variable-dataObjectObserver)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectObserver

## Method Summary

Public Methods public

[onChange](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html#instance-method-onChange)(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Register the change listeners sent by the reporter

## Public Methods

### public onChange(filter: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectObserver.js.html#lineNumber38)

Register the change listeners sent by the reporter

#### Params:

Name Type Attribute Description filter [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Filter that identifies the field (separeted dot path). Accepts \* at the end for a more unrestricted filtering.

callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# DataObjectReporter

You can directly use instance of this class. [dataObjectReporter](../../../variable/index.html#static-variable-dataObjectReporter)

#### Extends:

src/syncher/DataObject~DataObject → DataObjectReporter

## Member Summary

Public Members public get

[subscriptions](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-get-subscriptions): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription>

Subscriptions requested and accepted to this reporter

## Method Summary

Public Methods public

[onResponse](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onResponse)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process response notifications of the create’s

public

[onSubscription](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html#instance-method-onSubscription)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process subscribe and unsubscribe notifications

## Public Members

### public get subscriptions: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<HypertyURL, SyncSubscription> [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber38)

Subscriptions requested and accepted to this reporter

## Public Methods

### public onResponse(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber52)

Setup the callback to process response notifications of the create’s

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public onSubscription(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/DataObjectReporter.js.html#lineNumber44)

Setup the callback to process subscribe and unsubscribe notifications

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

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# CommunicationDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → CommunicationDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber31)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# ConnectionDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ConnectionDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber37)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# ContextDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → ContextDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber49)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# DataObjectSchema

You can directly use instance of this class. [dataObjectSchema](../../../variable/index.html#static-variable-dataObjectSchema)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → DataObjectSchema

#### Direct Subclass:

[HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html), [MessageDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html)

#### Indirect Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

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# HypertyDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → HypertyDataObjectSchema

#### Direct Subclass:

[CommunicationDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~CommunicationDataObjectSchema.html), [ConnectionDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ConnectionDataObjectSchema.html), [ContextDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~ContextDataObjectSchema.html), [IdentifyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber23)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# IdentifyDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → [HypertyDataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html) → IdentifyDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~IdentifyDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, accessControlPolicy: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber43)

#### Override:

[HypertyDataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~HypertyDataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* accessControlPolicy \*

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# MessageDataObjectSchema

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → [DataObjectSchema](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html) → MessageDataObjectSchema

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~MessageDataObjectSchema.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*)

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*) [source](../../../file/src/catalogue-factory/DataObjectSchema.js.html#lineNumber17)

#### Override:

[DataObjectSchema#constructor](../../../class/src/catalogue-factory/DataObjectSchema.js~DataObjectSchema.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \*

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# EventEmitter

You can directly use instance of this class. [eventEmitter](../../../variable/index.html#static-variable-eventEmitter)

EventEmitter All classes which extends this, can have addEventListener and trigger events;

## Method Summary

Public Methods public

[addEventListener](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-addEventListener)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function))

addEventListener listen for an eventType

public

[trigger](../../../class/src/utils/EventEmitter.js~EventEmitter.html#instance-method-trigger)(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object))

Invoke the eventType

## Public Methods

### public addEventListener(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), cb: [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber12)

addEventListener listen for an eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) listening for this type of event

cb [Function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function) callback function will be executed when the event it is invoked

### public trigger(eventType: [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), params: [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)) [source](../../../file/src/utils/EventEmitter.js.html#lineNumber22)

Invoke the eventType

#### Params:

Name Type Attribute Description eventType [string](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) event will be invoked

params [object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object) parameters will be passed to the addEventListener

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# HypertyDescriptor

You can directly use instance of this class. [hypertyDescriptor](../../../variable/index.html#static-variable-hypertyDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-constraints): \*

public get

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-dataObjects): \*

public set

[dataObjects](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-dataObjects): \*

public set

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-hypertyType): \*

public get

[hypertyType](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-hypertyType): \*

public get

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-messageSchema): \*

public set

[messageSchema](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-messageSchema): \*

public get

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/HypertyDescriptor.js~HypertyDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, hypertyType: \*, dataObjects: \*) [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber8)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* hypertyType \* dataObjects \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber28)

### public set configuration: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber54)

### public get constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber32)

### public set constraints: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber59)

### public get dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber24)

### public set dataObjects: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber49)

### public set hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber44)

### public get hypertyType: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber20)

### public get messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber36)

### public set messageSchema: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber64)

### public get policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber40)

### public set policies: \* [source](../../../file/src/catalogue-factory/HypertyDescriptor.js.html#lineNumber69)

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# HypertyDiscovery

You can directly use instance of this class. [hypertyDiscovery](../../../variable/index.html#static-variable-hypertyDiscovery)

Core HypertyDiscovery interface Hyperty Discovery class provides the functionality to query hyperties instances registered in Domain registry\* for a given user

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-constructor-constructor)(runtimeURL: RuntimeURL, msgBus: MessageBus)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

## Method Summary

Public Methods public

[discoverHypertyPerUser](../../../class/src/hyperty-discovery/HypertyDiscovery.js~HypertyDiscovery.html#instance-method-discoverHypertyPerUser)(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)

Function to request about users registered in domain registry, and return the hyperty instance if found.

## Public Constructors

### public constructor(runtimeURL: RuntimeURL, msgBus: MessageBus) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber14)

To initialise the HypertyDiscover, which will provide the support for hyperties to query users registered in outside the internal core.

#### Params:

Name Type Attribute Description runtimeURL RuntimeURL runtimeURL

msgBus MessageBus msgBus

## Public Methods

### public discoverHypertyPerUser(userIdentifier: Identity.Identity): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise) [source](../../../file/src/hyperty-discovery/HypertyDiscovery.js.html#lineNumber28)

Function to request about users registered in domain registry, and return the hyperty instance if found.

#### Params:

Name Type Attribute Description userIdentifier Identity.Identity

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan> | Promise |

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# HypertyRuntimeDescriptor

You can directly use instance of this class. [hypertyRuntimeDescriptor](../../../variable/index.html#static-variable-hypertyRuntimeDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → HypertyRuntimeDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-constructor-constructor)(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*)

## Member Summary

Public Members public get

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-hypertyCapabilities): \*

public set

[hypertyCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-hypertyCapabilities): \*

public get

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-protocolCapabilities): \*

public set

[protocolCapabilities](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-protocolCapabilities): \*

public get

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-get-runtimeType): \*

public set

[runtimeType](../../../class/src/catalogue-factory/HypertyRuntimeDescriptor.js~HypertyRuntimeDescriptor.html#instance-set-runtimeType): \*

## Public Constructors

### public constructor(guid: \*, catalogueType: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, runtimeType: \*, hypertyCapabilities: \*, protocolCapabilities: \*) [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* catalogueType \* objectName \* description \* language \* sourcePackageURL \* runtimeType \* hypertyCapabilities \* protocolCapabilities \*

## Public Members

### public get hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber29)

### public set hypertyCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber42)

### public get protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber33)

### public set protocolCapabilities: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber47)

### public get runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber25)

### public set runtimeType: \* [source](../../../file/src/catalogue-factory/HypertyRuntimeDescriptor.js.html#lineNumber37)

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# Message

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/Message.js~Message.html#instance-constructor-constructor)(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html))

Generates a message data object

## Member Summary

Public Members public get

[body](../../../class/src/message-factory/Message.js~Message.html#instance-get-body): [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)

The Message body

public set

[body](../../../class/src/message-factory/Message.js~Message.html#instance-set-body)(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \*

set the message body

public get

[from](../../../class/src/message-factory/Message.js~Message.html#instance-get-from): URL.URL

The sender of the Message.

public set

[from](../../../class/src/message-factory/Message.js~Message.html#instance-set-from)(sender: URL.URL): \*

set the sender of the Message

public get

[id](../../../class/src/message-factory/Message.js~Message.html#instance-get-id): [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)

The Message identifier.

public get

[to](../../../class/src/message-factory/Message.js~Message.html#instance-get-to): URL.URLList

The recipient of the Message.

public set

[to](../../../class/src/message-factory/Message.js~Message.html#instance-set-to)(recipientList: URL.URLList): \*

set the list of recipients

public get

[type](../../../class/src/message-factory/Message.js~Message.html#instance-get-type): [MessageType](../../../variable/index.html#static-variable-MessageType)

The Message type.

public set

[type](../../../class/src/message-factory/Message.js~Message.html#instance-set-type)(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \*

set the message type

## Method Summary

Public Methods public

[addAccessToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addAccessToken)(token: Identity.JWT): Message.Message

Add an access token to the given message

public

[addIdToken](../../../class/src/message-factory/Message.js~Message.html#instance-method-addIdToken)(token: Identity.JWT): Message.Message

Adds an Id token to the given message

public

[assertIdentity](../../../class/src/message-factory/Message.js~Message.html#instance-method-assertIdentity)(token: Identity.JWT, identity: Identity.Identity): Message.Message

Adds the asserted identity to the message body and removes the given token from the message

## Public Constructors

### public constructor(id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), from: URL.URL, toList: URL.URLList, type: [MessageType](../../../variable/index.html#static-variable-MessageType), body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)) [source](../../../file/src/message-factory/Message.js.html#lineNumber23)

Generates a message data object

#### Params:

Name Type Attribute Description id [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) To be used to associate Response messages to the initial request message.

from URL.URL URL of Hyperty instance or User associated with it

toList URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

type [MessageType](../../../variable/index.html#static-variable-MessageType) The URL of the reTHINK Data Object Resource associated with the message that can be used for routing purposes

body [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) Optionally, all message bodies exchanged between different Runtime Messge BUS can contain JWT tokens for Access Control for Identity Assertion purposes that are inserted by the Identity Module before the message is routed to proto stubs

## Public Members

### public get body: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) [source](../../../file/src/message-factory/Message.js.html#lineNumber60)

The Message body

### public set body(msgBody: [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber84)

set the message body

### public get from: URL.URL [source](../../../file/src/message-factory/Message.js.html#lineNumber42)

The sender of the Message.

### public set from(sender: URL.URL): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber66)

set the sender of the Message

### public get id: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) [source](../../../file/src/message-factory/Message.js.html#lineNumber36)

The Message identifier.

### public get to: URL.URLList [source](../../../file/src/message-factory/Message.js.html#lineNumber48)

The recipient of the Message.

### public set to(recipientList: URL.URLList): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber93)

set the list of recipients

### public get type: [MessageType](../../../variable/index.html#static-variable-MessageType) [source](../../../file/src/message-factory/Message.js.html#lineNumber54)

The Message type.

### public set type(msgType: [MessageType](../../../variable/index.html#static-variable-MessageType)): \* [source](../../../file/src/message-factory/Message.js.html#lineNumber75)

set the message type

## Public Methods

### public addAccessToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber136)

Add an access token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT token to be added to the given message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated Message |

### public addIdToken(token: Identity.JWT): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber122)

Adds an Id token to the given message

#### Params:

Name Type Attribute Description token Identity.JWT identity token to include in the message

#### Return:

|  |  |
| --- | --- |
| Message.Message | the updated message |

### public assertIdentity(token: Identity.JWT, identity: Identity.Identity): Message.Message [source](../../../file/src/message-factory/Message.js.html#lineNumber104)

Adds the asserted identity to the message body and removes the given token from the message

#### Params:

Name Type Attribute Description token Identity.JWT idToken to remove from message

identity Identity.Identity asserted identity to include

#### Return:

|  |  |
| --- | --- |
| Message.Message | message - updated message |

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# CreateMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → CreateMessageBody

Class representation of the CreateMessageBody object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-constructor-constructor)(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-policy): \*

public set

[policy](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-policy): \*

public get

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-get-value): \*

public set

[value](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html#instance-set-value): \*

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL, idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber123)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format.

policy URL.URL URL from where access policy control can be downloaded

idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber139)

### public set policy: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber141)

### public get value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber132)

### public set value: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber134)

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# DeleteMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → DeleteMessageBody

Class representation of the DeleteMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber193)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

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# ForwardMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ForwardMessageBody

Class representation of the ForwardMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, message: [Message](../../../class/src/message-factory/Message.js~Message.html)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber240)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

message [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be forwarded

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# MessageBody

#### Direct Subclass:

[CreateMessageBody](../../../class/src/message-factory/MessageBody.js~CreateMessageBody.html), [DeleteMessageBody](../../../class/src/message-factory/MessageBody.js~DeleteMessageBody.html), [ForwardMessageBody](../../../class/src/message-factory/MessageBody.js~ForwardMessageBody.html), [ReadMessageBody](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html), [ResponseMessageBody](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html), [UpdateMessageBody](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity)

## Member Summary

Public Members public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber18)

#### Params:

Name Type Attribute Description idToken Identity.JWT token for Identity assertion purpose

accessToken Identity.JWT token for access control

resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

## Public Members

### public get accessToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber42)

Get the access token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set accessToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber75)

set the access token

### public get assertedIdentity: Identity.Identity: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber60)

Return the asserted Identity

#### Return:

|  |
| --- |
| Identity.Identity |

### public set assertedIdentity(assertedIdentity: Identity.Identity): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber102)

set the asserted identity

### public get idToken: Identity.JWT: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber36)

Get the id token

#### Return:

|  |
| --- |
| Identity.JWT |

### public set idToken(token: Identity.JWT): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber66)

set the token identifier

### public get resource: URL.URL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber48)

The the resource URL

#### Return:

|  |
| --- |
| URL.URL |

### public set resource: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber84)

set the resource

### public get schema: URL.HypertyCatalogueURL: \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber54)

Return the URL of the schema on the HypertyCatalogue

#### Return:

|  |
| --- |
| URL.HypertyCatalogueURL |

### public set schema(schema: URL.HypertyCatalogueURL): \* [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber93)

set the schema URL

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# ReadMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ReadMessageBody

Class representation of the ReadMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ReadMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteriaSyntax: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), criteria: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber164)

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the objec

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be read (optional)

criteriaSyntax [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria syntax used in criteria field. To be used for search purposes. Valid criteria Syntax are: “key-value”, “mongodb”, “sql”(?), …

criteria [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Defines the criteria to be used for search purposes. Syntax used to define the criteria is set in the criteriaSyntax.

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# ResponseMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → ResponseMessageBody

Class representation of the ResponseMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~ResponseMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*)

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, code: \*, value: \*) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber263)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

code \* A response code compliant with HTTP response codes (RFC7231)

value \* Contains a data value in JSON format. Applicable to Responses to READ MessageType.

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# UpdateMessageBody

#### Extends:

[MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) → UpdateMessageBody

Class representation of the UpdateMessageBody data object

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageBody.js~UpdateMessageBody.html#instance-constructor-constructor)(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String))

Constructor to create the object

## Inherited Summary

From class [MessageBody](../../../class/src/message-factory/MessageBody.js~MessageBody.html) public get

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-accessToken): Identity.JWT: \*

Get the access token

public set

[accessToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-accessToken)(token: Identity.JWT): \*

set the access token

public get

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-assertedIdentity): Identity.Identity: \*

Return the asserted Identity

public set

[assertedIdentity](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-assertedIdentity)(assertedIdentity: Identity.Identity): \*

set the asserted identity

public get

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-idToken): Identity.JWT: \*

Get the id token

public set

[idToken](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-idToken)(token: Identity.JWT): \*

set the token identifier

public get

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-resource): URL.URL: \*

The the resource URL

public set

[resource](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-resource): \*

set the resource

public get

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-get-schema): URL.HypertyCatalogueURL: \*

Return the URL of the schema on the HypertyCatalogue

public set

[schema](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-set-schema)(schema: URL.HypertyCatalogueURL): \*

set the schema URL

## Public Constructors

### public constructor(idToken: Identity.JWT, accessToken: Identity.JWT, resource: URL.URL, schema: URL.HypertyCatalogueURL, assertedIdentity: Identity.Identity, attribute: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)) [source](../../../file/src/message-factory/MessageBody.js.html#lineNumber218)

Constructor to create the object

#### Override:

[MessageBody#constructor](../../../class/src/message-factory/MessageBody.js~MessageBody.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description idToken Identity.JWT accessToken Identity.JWT resource URL.URL URL of the object

schema URL.HypertyCatalogueURL URL of the Data object schema stored in the Catalogue

assertedIdentity Identity.Identity AssertedIdentity is compliant with User Identity Data Model

attribute [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Identifies the attribute in the Object to be deleted (optional)

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the updated value object in JSON format.

Generated by [ESDoc(0.4.3)](https://esdoc.org)

# IdGenerator

Message Identifier Generator that generates the id used to identifier message transactions

## Method Summary

Public Methods public

\* [idMaker](../../../class/src/message-factory/MessageFactory.js~IdGenerator.html#instance-method-idMaker)()

## Public Methods

### public \* idMaker() [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber219)

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# MessageFactory

You can directly use instance of this class. [messageFactory](../../../variable/index.html#static-variable-messageFactory)

#### Extends:

[RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) → MessageFactory

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-constructor-constructor)(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL )

Constructor to be used to instantiate an object of the Message Factory

## Member Summary

Public Members public

[myGenerator](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-member-myGenerator): \*

## Method Summary

Public Methods public

[createCreateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createCreateMessageRequest)(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \*

Creates a Message of TYPE CREATE and Create Message Body

public

[createDeleteMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createDeleteMessageRequest)(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Create Delete Message of Type DELETE and delete message body

public

[createForwardMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createForwardMessageRequest)(from: URL.URL, to-: URL.URLList, message: \*): Message.Message

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

public

[createMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createMessageResponse)(message: \*, code: \*, value: \*, source: \*): \*

Creates the response to the Message

public

[createReadMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createReadMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message

Creates a Message of type READ

public

[createSubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createSubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type SUBSCRIBE

public

[createUnsubscribeMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUnsubscribeMessageRequest)(from: URL.URL, to-: URL.URLList, resource: URL.URL): \*

Creates a Message of type UNSUBSCRIBE

public

[createUpdateMessageRequest](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-createUpdateMessageRequest)(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message

Creates an Update Message Request

public

[generateMessageResponse](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-generateMessageResponse)(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \*

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

public

[validate](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html#instance-method-validate)(data: \*): \*

Validates the message against the reTHINK Message Data Schema

## Inherited Summary

From class [RethinkObject](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html) public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean), schema: URL.URL ) [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber20)

Constructor to be used to instantiate an object of the Message Factory

#### Override:

[RethinkObject#constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)

#### Params:

Name Type Attribute Description validation [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) schema URL.URL link to the reTHINK Message Data Schema

## Public Members

### public myGenerator: \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber23)

## Public Methods

### public createCreateMessageRequest(from: URL.URL, to-: URL.URLList, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), policy: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber44)

Creates a Message of TYPE CREATE and Create Message Body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains the created object in JSON format

policy URL.URL the sender of this message

#### Return:

|  |
| --- |
| \* |

### public createDeleteMessageRequest(from: URL.URL, to: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber83)

Create Delete Message of Type DELETE and delete message body

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be deleted

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Delete Message Request |

### public createForwardMessageRequest(from: URL.URL, to-: URL.URLList, message: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber63)

Creates a Message of TYPE FORWARD and Forward Message Body, which contains the message to be forwarded

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

message \* {Message.Message} message - the message to be forwarded

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Forward Message Request |

### public createMessageResponse(message: \*, code: \*, value: \*, source: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber177)

Creates the response to the Message

#### Params:

Name Type Attribute Description message \* the message request from which the response should be generated

code \* the response code compliant with HTTP response codes (RFC7231).

value \* contains a data value in JSON format. Applicable to Responses to READ MessageType.

source \* Contains the original creator of the response. Useful to identify the real source of the response to a one-to-many message delivery ie multiple responses coming coming from different sources.

#### Return:

|  |
| --- |
| \* |

### public createReadMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URl, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber124)

Creates a Message of type READ

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URl URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be read

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Read message request |

### public createSubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber142)

Creates a Message of type SUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUnsubscribeMessageRequest(from: URL.URL, to-: URL.URLList, resource: URL.URL): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber159)

Creates a Message of type UNSUBSCRIBE

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

to- URL.URLList One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

resource URL.URL URL of the object

#### Return:

|  |
| --- |
| \* |

### public createUpdateMessageRequest(from: URL.URL, value: \*, resource: URL.URL, attribute: \*): Message.Message [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber105)

Creates an Update Message Request

#### Params:

Name Type Attribute Description from URL.URL the sender of this message

{URL.URLList}to \* One or more URLs of Message recipients. According to the URL scheme it may be handled in different ways

value \* The new value of the attribute to be updated

resource URL.URL URL of Data Object Resource associated with the message

attribute \* Identifies the attribute in the Object to be updated

#### Return:

|  |  |
| --- | --- |
| Message.Message | Message - the Update message request |

### public generateMessageResponse(data: [Message](../../../class/src/message-factory/Message.js~Message.html), code: ResponseCode, value: [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String)): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber199)

Generate a response to the given Message Request - Response transactions A Response to a Request message should follow this rule: Response.from = Request.to Response.to = Request.from Response.id = Request.id It should be note, the Request.id MUST be incremented every time a new Request message is created.

#### Params:

Name Type Attribute Description data [Message](../../../class/src/message-factory/Message.js~Message.html) Message to be updated

code ResponseCode response code compliant with HTTP response codes (RFC7231).

value [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String) Contains a data value in JSON format.

#### Return:

|  |
| --- |
| \* |

### public validate(data: \*): \* [source](../../../file/src/message-factory/MessageFactory.js.html#lineNumber31)

Validates the message against the reTHINK Message Data Schema

#### Override:

[RethinkObject#validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| \* |

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# OwnerPeer

You can directly use instance of this class. [ownerPeer](../../../variable/index.html#static-variable-ownerPeer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/OwnerPeer.js~OwnerPeer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/OwnerPeer.js.html#lineNumber3)

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# Peer

You can directly use instance of this class. [peer](../../../variable/index.html#static-variable-peer)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/hyperty/Peer.js~Peer.html#instance-constructor-constructor)

## Public Constructors

### public constructor [source](../../../file/src/hyperty/Peer.js.html#lineNumber3)

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# PolicyEnforcerDescriptor

You can directly use instance of this class. [policyEnforcerDescriptor](../../../variable/index.html#static-variable-policyEnforcerDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → PolicyEnforcerDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-configuration): \*

public get

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-get-policies): \*

public set

[policies](../../../class/src/catalogue-factory/PolicyEnforcerDescriptor.js~PolicyEnforcerDescriptor.html#instance-set-policies): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, configuration: \*, policies: \*) [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber7)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* configuration \* policies \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber14)

### public set configuration: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber26)

### public get policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber18)

### public set policies: \* [source](../../../file/src/catalogue-factory/PolicyEnforcerDescriptor.js.html#lineNumber22)

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# ProtocolStubDescriptor

You can directly use instance of this class. [protocolStubDescriptor](../../../variable/index.html#static-variable-protocolStubDescriptor)

#### Extends:

src/catalogue-factory/CatalogueDataObject~CatalogueDataObject → ProtocolStubDescriptor

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-constructor-constructor)(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*)

## Member Summary

Public Members public get

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-configuration): \*

public set

[configuration](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-configuration): \*

public get

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-constraints): \*

public set

[constraints](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-constraints): \*

public get

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-get-messageSchemas): \*

public set

[messageSchemas](../../../class/src/catalogue-factory/ProtocolStubDescriptor.js~ProtocolStubDescriptor.html#instance-set-messageSchemas): \*

## Public Constructors

### public constructor(guid: \*, type: \*, objectName: \*, description: \*, language: \*, sourcePackageURL: \*, messageSchemas: \*, configuration: \*, constraints: \*) [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber9)

#### Params:

Name Type Attribute Description guid \* type \* objectName \* description \* language \* sourcePackageURL \* messageSchemas \* configuration \* constraints \*

## Public Members

### public get configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber33)

### public set configuration: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber47)

### public get constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber29)

### public set constraints: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber42)

### public get messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber25)

### public set messageSchemas: \* [source](../../../file/src/catalogue-factory/ProtocolStubDescriptor.js.html#lineNumber37)

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# RethinkObject

#### Direct Subclass:

[MessageFactory](../../../class/src/message-factory/MessageFactory.js~MessageFactory.html)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-constructor-constructor)(validation: \*, schema: \*)

## Member Summary

Public Members public

[schema](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-schema): \*

public

[validation](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-member-validation): \*

## Method Summary

Public Methods public

[validate](../../../class/src/reTHINKObject/RethinkObject.js~RethinkObject.html#instance-method-validate)(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean)

## Public Constructors

### public constructor(validation: \*, schema: \*) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber5)

#### Params:

Name Type Attribute Description validation \* schema \*

## Public Members

### public schema: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber10)

### public validation: \* [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber9)

## Public Methods

### public validate(data: \*): [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) [source](../../../file/src/reTHINKObject/RethinkObject.js.html#lineNumber13)

#### Params:

Name Type Attribute Description data \*

#### Return:

|  |
| --- |
| [boolean](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Boolean) |

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# RuntimeConstraint

You can directly use instance of this class. [runtimeConstraint](../../../variable/index.html#static-variable-runtimeConstraint)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-constructor-constructor)(constraint: \*, runtimeHypertyCapabilityType: \*)

## Member Summary

Public Members public get

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-constraint): \*

public set

[constraint](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-constraint): \*

public get

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-get-runtimeHypertyCapabilityType): \*

public set

[runtimeHypertyCapabilityType](../../../class/src/catalogue-factory/RuntimeConstraint.js~RuntimeConstraint.html#instance-set-runtimeHypertyCapabilityType): \*

## Public Constructors

### public constructor(constraint: \*, runtimeHypertyCapabilityType: \*) [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber6)

#### Params:

Name Type Attribute Description constraint \* runtimeHypertyCapabilityType \*

## Public Members

### public get constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber11)

### public set constraint: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber19)

### public get runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber15)

### public set runtimeHypertyCapabilityType: \* [source](../../../file/src/catalogue-factory/RuntimeConstraint.js.html#lineNumber24)

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# SourcePackage

You can directly use instance of this class. [sourcePackage](../../../variable/index.html#static-variable-sourcePackage)

Created by amo on 14/11/2015.

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-constructor-constructor)(sourceCodeClassname: \*, sourceCode: \*)

## Member Summary

Public Members public get

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-encoding): \*

public set

[encoding](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-encoding): \*

public get

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-signature): \*

public set

[signature](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-signature): \*

public get

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCode): \*

public set

[sourceCode](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCode): \*

public get

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-get-sourceCodeClassname): \*

public set

[sourceCodeClassname](../../../class/src/catalogue-factory/SourcePackage.js~SourcePackage.html#instance-set-sourceCodeClassname): \*

## Public Constructors

### public constructor(sourceCodeClassname: \*, sourceCode: \*) [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber5)

#### Params:

Name Type Attribute Description sourceCodeClassname \* sourceCode \*

## Public Members

### public get encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber21)

### public set encoding: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber29)

### public get signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber25)

### public set signature: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber34)

### public get sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber13)

### public set sourceCode: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber39)

### public get sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber17)

### public set sourceCodeClassname: \* [source](../../../file/src/catalogue-factory/SourcePackage.js.html#lineNumber44)

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# Syncher

You can directly use instance of this class. [syncher](../../../variable/index.html#static-variable-syncher)

## Constructor Summary

Public Constructor public

[constructor](../../../class/src/syncher/Syncher.js~Syncher.html#instance-constructor-constructor)(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON))

Constructor that should be used by the Hyperty owner

## Member Summary

Public Members public get

[observers](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-observers): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

All owned observers, the ones that were created by a local subscription

public get

[owner](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-owner): HypertyURL

The owner of the Syncher and all created reporters.

public get

[reporters](../../../class/src/syncher/Syncher.js~Syncher.html#instance-get-reporters): [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

All owned reporters, the ones that were created by a create

## Method Summary

Public Methods public

[create](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-create)(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)>

Request a DataObjectReporter creation.

public

[onNotification](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-onNotification)(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent))

Setup the callback to process create and delete events of remove Reporter objects.

public

[subscribe](../../../class/src/syncher/Syncher.js~Syncher.html#instance-method-subscribe)(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)>

Request a subscription to an existent object.

## Public Constructors

### public constructor(owner: HypertyURL, bus: MiniBus, config: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber30)

Constructor that should be used by the Hyperty owner

#### Params:

Name Type Attribute Description owner HypertyURL Hyperty URL owner

bus MiniBus The internal sandbox MiniBus used by the Hyperty

config [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) The only required field for now is runtimeURL

## Public Members

### public get observers: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber67)

All owned observers, the ones that were created by a local subscription

### public get owner: HypertyURL [source](../../../file/src/syncher/Syncher.js.html#lineNumber55)

The owner of the Syncher and all created reporters.

### public get reporters: [Object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Object)<URL, [DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber61)

All owned reporters, the ones that were created by a create

## Public Methods

### public create(schema: SchemaURL, observers: HypertyURL[], initialData: [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON)): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectReporter](../../../class/src/syncher/DataObjectReporter.js~DataObjectReporter.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber76)

Request a DataObjectReporter creation. The URL will be be requested by the allocation mechanism.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

observers HypertyURL[] List of hyperties that are pre-authorized for subscription

initialData [JSON](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) Initial data of the reporter

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectReporter](.%20./../../class/src/syncher/Data%20Object%20Reporter.js~DataObjectRepor%20ter.html) > | Return Promise to a new Reporter. The reporter can be accepted or rejected by the PEP |

### public onNotification(callback: [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)) [source](../../../file/src/syncher/Syncher.js.html#lineNumber147)

Setup the callback to process create and delete events of remove Reporter objects. This is releated to the messagens sent by create to the observers Hyperty array.

#### Params:

Name Type Attribute Description callback [function](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Function)(event: MsgEvent)

### public subscribe(schema: SchemaURL, objURL: ObjectURL): [Promise](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Promise)<[DataObjectObserver](../../../class/src/syncher/DataObjectObserver.js~DataObjectObserver.html)> [source](../../../file/src/syncher/Syncher.js.html#lineNumber110)

Request a subscription to an existent object.

#### Params:

Name Type Attribute Description schema SchemaURL URL of the object descriptor

objURL ObjectURL Address of the existent reporter object

#### Return:

|  |  |
| --- | --- |
| [Promise](https://developer.mo%20%20zilla.org/en-US/docs/Web/JavaScri%20pt/%20Reference/Global_Objects/Promi%20se)</s pan><[DataObjectObserver](.%20./../../class/src/syncher/Data%20Object%20Observer.js~DataObjectObser%20ver.html) > | Return Promise to a new observer. |

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