



Axiomatics Connector 1.0

API Reference

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Axiomatics Connector API Reference

Overview

This guide contains the API reference for the Axiomatics Connector.

Contacting Axiomatics

Axiomatics welcomes your feedback on this Axiomatics Connector API Reference.

Send documentation-related comments to: doc.support@axiomatics.com

Axiomatics Customer Support

Use the Axiomatics Customer Support web site for all questions regarding the product:

<https://support.axiomatics.com>

Knowledge Base

There is also a Knowledge Base on the Customer Support web site mentioned above that offers a number of articles to assist users of Axiomatics products.

Social media sites

Axiomatics also actively provides company news updates, blogs, tutorials, product demos, and webinar recordings on a number of social media sites:

[LinkedIn](#)

[Twitter](#)

[YouTube](#)



Chapter 1

API Reference

Configuration

Default configuration

Parameters

Name	Type	Description	Default value	Required
Name	String	The name for this configuration. Connectors reference the configuration with this name.		x
Connection	<ul style="list-style-type: none"> ■ HTTP connection ■ HTTPS connection 	The connection types that can be provided to this configuration.		x
Expiration Policy	Expiration Policy	Configures the minimum amount of time that a dynamic configuration instance can remain idle before the runtime considers it eligible for expiration. This does not mean that the platform will expire the instance at the exact moment that it becomes eligible. The runtime will actually purge the instances when it sees fit.		

Connection types

HTTP connection

Parameters

Name	Type	Description	Default value	Required
Axiomatics URL	String	Axiomatics instance URL.		x



Name	Type	Description	Default value	Required
Axiomatics Version	Enumeration, one of: <ul style="list-style-type: none"> V1_0 V1_1 	Axiomatics instance version.	V1_1	
Username	String	Axiomatics instance username.		x
Password	String	Axiomatics instance password.		x
Reconnection	Reconnection	When the application is deployed, a connectivity test is performed on all connectors. If set to true, deployment will fail if the test doesn't pass after exhausting the associated reconnection strategy		
Pooling Profile	Pooling Profile	Characteristics of the connection pool		

HTTPS connection

Parameters

Name	Type	Description	Default value	Required
Axiomatics URL	String	Axiomatics instance URL.		x
Axiomatics Version	Enumeration, one of: <ul style="list-style-type: none"> V1_0 V1_1 	Axiomatics instance version.	V1_1	
Username	String	Axiomatics instance username.		x
Password	String	Axiomatics instance password.		x
Type	String	Type of the TrustStore	jks	
Path	String	TrustStore file path		x
Password	String	Trust store password		x
Reconnection	Reconnection	When the application is deployed, a connectivity test is performed on all connectors. If set to true, deployment will fail if the test doesn't pass after exhausting the associated reconnection strategy		
Pooling Profile	Pooling Profile	Characteristics of the connection pool		



Associated operations

- [Authorize](#)

Operations

Authorize

<axiomatics:authorize>

The operation returns Authorization decision with associated advice details based on input data.

Parameters

Name	Type	Description	Default value	Required
Name	Type	Description	Default value	Required
Configuration	String	The name of the configuration to use.		x
Return Policy Id List	Boolean	This attribute is used to request that the PDP return a list of all fully applicable policies and policy sets which were used in the decision as a part of the decision response. Defaults to false if not specified	false	
Access Subjects	Array of <i>Attribute</i>	Collection of subject-related attributes. Optional The subject is the system entity that initiated the access request. That is, the initial entity in a request chain.		
Resources	Array of <i>Attribute</i>	Collection of resource-related attributes. Optional		
Actions	Array of <i>Attribute</i>	Collection of action-related attributes. Optional		
Environments	Array of <i>Attribute</i>	Collection of environment-related attributes. Optional		
Target Variable	String	The name of a variable on which the operation's output will be placed		



Name	Type	Description	Default value	Required
Target Value	String	An expression that will be evaluated against the operation's output and the outcome of that expression will be stored in the target variable	#[payload]	
Reconnection Strategy	<ul style="list-style-type: none"> ■ <i>Reconnect</i> ■ <i>Reconnect Forever</i> 	A retry strategy in case of connectivity errors		

Output

Type *Axiomatics Response*

For configurations

- *Configuration*

Throws

- AXIOMATICS:EXECUTION
- AXIOMATICS:CONNECTIVITY
- AXIOMATICS:AUTHENTICATION



Types

Reconnection

Field	Type	Description	Default value	Required
Fails Deployment	Boolean	When the application is deployed, a connectivity test is performed on all connectors. If set to true, deployment will fail if the test doesn't pass after exhausting the associated reconnection strategy		
Reconnection Strategy	<ul style="list-style-type: none"> ■ Reconnect ■ Reconnect Forever 	The reconnection strategy to use		

Reconnect

Field	Type	Description	Default value	Required
Frequency	Number	How often (in ms) to reconnect		
Count	Number	How many reconnection attempts to make		

Reconnect Forever

Field	Type	Description	Default value	Required
Frequency	Number	How often (in ms) to reconnect		

Pooling Profile

Field	Type	Description	Default value	Required
Max Active	Number	Controls the maximum number of Mule components that can be borrowed from a session at one time. When set to a negative value, there is no limit to the number of components that may be active at one time. When maxActive is exceeded, the pool is said to be exhausted.		



Field	Type	Description	Default value	Required
Max Idle	Number	Controls the maximum number of Mule components that can sit idle in the pool at any time. When set to a negative value, there is no limit to the number of Mule components that may be idle at one time.		
Max Wait	Number	Specifies the number of milliseconds to wait for a pooled component to become available when the pool is exhausted and the exhaustedAction is set to WHEN_EXHAUSTED_WAIT.		
Min Eviction Millis	Number	Determines the minimum amount of time an object may sit idle in the pool before it is eligible for eviction. When non-positive, no objects will be evicted from the pool due to idle time alone.		
Eviction Check Interval Millis	Number	Specifies the number of milliseconds between runs of the object evictor. When non-positive, no object evictor is executed.		
Exhausted Action	Enumeration, one of: <ul style="list-style-type: none"> ■ WHEN_EXHAUSTED_GROW ■ WHEN_EXHAUSTED_WAIT ■ WHEN_EXHAUSTED_FAIL 	Specifies the behavior of the Mule component pool when the pool is exhausted. Possible values are: "WHEN_EXHAUSTED_FAIL", which will throw a NoSuchElementException, "WHEN_EXHAUSTED_WAIT", which will block by invoking Object.wait(long) until a new or idle object is available, or WHEN_EXHAUSTED_GROW, which will create a new Mule instance and return it, essentially making maxActive meaningless. If a positive maxWait value is supplied, it will block for at most that many milliseconds, after which a NoSuchElementException will be thrown. If maxThreadWait is a negative value, it will block indefinitely.		
Initialisation Policy	Enumeration, one of: <ul style="list-style-type: none"> ■ INITIALISE_NONE ■ INITIALISE_ONE ■ INITIALISE_ALL 	Determines how components in a pool should be initialized. The possible values are: INITIALISE_NONE (will not load any components into the pool on startup), INITIALISE_ONE (will load one initial component into the pool on startup), or INITIALISE_ALL (will load all components in the pool on startup)		
Disabled	Boolean	Whether pooling should be disabled		



Expiration Policy

Field	Type	Description	Default value	Required
Max Idle Time	Number	A scalar time value for the maximum amount of time a dynamic configuration instance should be allowed to be idle before it's considered eligible for expiration		
Time Unit	Enumeration, one of: <ul style="list-style-type: none"> ■ NANOSECONDS ■ MICROSECONDS ■ MILLISECONDS ■ SECONDS ■ MINUTES ■ HOURS ■ DAYS 	A time unit that qualifies the maxIdleTime attribute		

Axiomatics Response

Field	Type	Description	Default value	Required
Field	Type	■ Description	Default value	Required
Result	Array of Any	An authorization decision result. It MAY include a set of obligations that MUST be fulfilled by the PEP. If the PEP does not understand or cannot fulfill an obligation, then the action of the PEP is determined by its bias. It MAY include a set of advice with supplemental information which MAY be safely ignored by the PEP.		

Attribute

Field	Type	Description	Default value	Required
Attribute Id	String	The Attribute identifier		x
Value	String	One or more Attribute values. Can be an array of elements of the same type; either string, boolean, number (which maps to either a XACML integer or double as defined in Supported Data Types) or object.		x



Field	Type	Description	Default value	Required
Data Type	String	The data-type of the Attribute. Can be omitted in the JSON representation, thus null in object. Its default value will be http://www.w3.org/2001/XMLSchema#string , unless it can be safely assumed according to rules to the rules set in 3.3.1 Supported Data Types. In the case of an array of values, inference works as described in section 3.3.2.		
Issuer	String	The Attribute issuer.		
Include In Result	Boolean	Whether to include this Attribute in the result. This is useful to correlate requests with their responses in case of multiple requests.	false	

