

Policy Design API is publicly exposed for clients to Create/Read/Update/Delete policy types, policy type implementation and policies which can be recognized and executable by incorporated policy engines. It is an independent component running rest service that takes all policy design API calls from clients and then assign them to different API working functions. Besides that, API is also exposed for clients to retrieve healthcheck status of this API rest service and the statistics report including the counters of API invocation.

## HealthCheck

**GET** /policy/api/v1/healthcheck Perform a system healthcheck

### Implementation Notes

Returns healthy status of the Policy API component

### Response Class (Status 200)

successful operation

Model | Example Value

```

{
  "name": "string",
  "url": "string",
  "healthy": true,
  "code": 0,
  "message": "string"
}

```

Response Content Type

### Headers

Header	Description	Type	Other
X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string	
X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string	
X-LatestVersion	Used only to communicate an API's latest version	string	
X-ONAP-RequestID	Used to track REST transactions for logging purpose	string	format: uuid

### Parameters

Parameter	Value	Description	Parameter Type	Data Type
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

## Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Authentication Error		
403	Authorization Error		
500	Internal Server Error		

Try it out!

## Statistics

GET /policy/api/v1/statistics Retrieve current statistics

### Implementation Notes

Returns current statistics including the counters of API invocation

### Response Class (Status 200)

successful operation

Model | Example Value

```
{
  "code": 0,
  "totalApiCallCount": 0,
  "apiCallSuccessCount": 0,
  "apiCallFailureCount": 0,
  "totalPolicyGetCount": 0,
  "totalPolicyPostCount": 0,
  "totalPolicyTypeGetCount": 0,
  "totalPolicyTypePostCount": 0,
  "policyGetSuccessCount": 0,
  "policyGetFailureCount": 0
```

Response Content Type

### Headers

Header	Description	Type	Other
X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string	

Header	Description	Type	Other
X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string	
X-LatestVersion	Used only to communicate an API's latest version	string	
X-ONAP-RequestID	Used to track REST transactions for logging purpose	string	format: uuid

## Parameters

Parameter	Value	Description	Parameter Type	Data Type
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

## Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Authentication Error		
403	Authorization Error		
500	Internal Server Error		

Try it out!

## PolicyType

GET /policy/api/v1/policytypes Retrieve existing policy types

### Implementation Notes

Returns a list of existing policy types stored in Policy Framework

### Response Class (Status 200) i

successful operation

Model | Example Value

```
{
  "key": {
    "name": "string",
    "version": "string",
    "key": {},
    "id": "string",
    "keys": [
      {
        "id": "string",
        "nullKey": true,
        "key": {}
      }
    ]
  }
}
```

Response Content Type

### Headers

Header	Description	Type	Other
X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string	
X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string	
X-LatestVersion	Used only to communicate an API's latest version	string	
X-ONAP-RequestID	Used to track REST transactions for logging purpose	string	format: uuid

### Parameters

Parameter	Value	Description	Parameter Type	Data Type
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

### Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Authentication Error		
403	Authorization Error		
500	Internal Server Error		

Try it out!

**POST** /policy/api/v1/policytypes

Create a new policy type

### Implementation Notes

Client should provide TOSCA body of the new policy type

### Parameters



Parameter	Value	Description	Parameter Type	Data Type
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HTTP Status Code	Reason	Response Model	Headers
401	Authentication Error		
403	Authorization Error		
500	Internal Server Error		

Try it out!

DELETE
/policy/api/v1/policytypes/{policyTypeId}
Delete all versions of a policy type

### Implementation Notes

Rule 1: pre-defined policy types cannot be deleted; Rule 2: policy types that are in use (parameterized by a TOSCA policy) cannot be deleted. The parameterizing TOSCA policies must be deleted first;

### Parameters i

Parameter	Value	Description	Parameter Type	Data Type
<b>policyTypeId</b>	<input type="text" value="(required)"/>	<b>ID of policy type</b>	path	string
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

### Response Messages

HTTP Status Code	Reason	Response Model	Headers
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HTTP Status Code	Reason	Response Model	Headers		
204	Resources successfully deleted, no content returned		X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string
			X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string
			X-LatestVersion	Used only to communicate an API's latest version	string
			X-ONAP-RequestID	Used to track REST transactions for logging purpose	string
401	Authentication Error				
403	Authorization Error				
404	Resource Not Found				
409	Delete Conflict, Rule Violation				
500	Internal Server Error				

Try it out!

**GET** /policy/api/v1/policytypes/{policyTypeId} Retrieve all available versions of a policy type

### Implementation Notes

Returns a list of all available versions for the specified policy type



## Response Class (Status 200)

successful operation

Model | Example Value

```

    "id": "string",
    "nullKey": true,
    "key": {},
    "keys": [
      {}
    ]
  },
  "id": "string"
},
"keys": [
  {

```

Response Content Type

### Headers

Header	Description	Type	Other
X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string	
X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string	
X-LatestVersion	Used only to communicate an API's latest version	string	
X-ONAP-RequestID	Used to track REST transactions for logging purpose	string	format: uuid

### Parameters

Parameter	Value	Description	Parameter Type	Data Type
<b>policyTypeId</b>	<input type="text" value="(required)"/>	<b>ID of policy type</b>	path	string
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

### Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Authentication Error		
403	Authorization Error		
404	Resource Not Found		



HTTP Status Code	Reason	Response Model	Headers
500	Internal Server Error		

[Try it out!](#)

**DELETE**`/policy/api/v1/policytypes/{policyTypeId}/versions/{versionId}`

Delete one version of a policy type

### Implementation Notes

Rule 1: pre-defined policy types cannot be deleted; Rule 2: policy types that are in use (parameterized by a TOSCA policy) cannot be deleted. The parameterizing TOSCA policies must be deleted first;

### Parameters



Parameter	Value	Description	Parameter Type	Data Type
<b>policyTypeId</b>	<input type="text" value="(required)"/>	<b>ID of policy type</b>	path	string
<b>versionId</b>	<input type="text" value="(required)"/>	<b>Version of policy type</b>	path	string
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

### Response Messages

HTTP Status Code	Reason	Response Model	Headers
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HTTP Status Code	Reason	Response Model	Headers		
204	Resource successfully deleted, no content returned		X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string
			X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string
			X-LatestVersion	Used only to communicate an API's latest version	string
			X-ONAP-RequestID	Used to track REST transactions for logging purpose	string
401	Authentication Error				
403	Authorization Error				
404	Resource Not Found				
409	Delete Conflict, Rule Violation				
500	Internal Server Error				

Try it out!

**GET** /policy/api/v1/policytypes/{policyTypeId}/versions/{versionId}

Retrieve one particular version of a policy type

### Implementation Notes

Returns a particular version for the specified policy type



## Response Class (Status 200)

successful operation

Model | Example Value

```

{
  "key": {
    "name": "string",
    "version": "string",
    "key": {},
    "id": "string",
    "keys": [
      {
        "id": "string",
        "nullKey": true,
        "key": {}
      }
    ]
  }
}

```

Response Content Type

### Headers

Header	Description	Type	Other
X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string	
X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string	
X-LatestVersion	Used only to communicate an API's latest version	string	
X-ONAP-RequestID	Used to track REST transactions for logging purpose	string	format: uuid

### Parameters

Parameter	Value	Description	Parameter Type	Data Type
<b>policyTypeId</b>	<input type="text" value="(required)"/>	<b>ID of policy type</b>	path	string
<b>versionId</b>	<input type="text" value="(required)"/>	<b>Version of policy type</b>	path	string
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

### Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Authentication Error		
403	Authorization Error		

HTTP Status Code	Reason	Response Model	Headers
404	Resource Not Found		
500	Internal Server Error		

Try it out!

## Policy

**GET** /policy/api/v1/policytypes/{policyTypeId}/versions/{policyTypeVersion}/policies

Retrieve all versions of a policy created for a particular policy type version

### Implementation Notes

Returns a list of all versions of specified policy created for the specified policy type version

### Response Class (Status 200)

successful operation



Model | Example Value

```
{
  "key": {
    "name": "string",
    "version": "string",
    "key": {},
    "id": "string",
    "keys": [
      {
        "id": "string",
        "nullKey": true,
        "key": {}
      }
    ]
  }
}
```

Response Content Type

### Headers

Header	Description	Type	Other
X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string	
X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string	
X-LatestVersion	Used only to communicate an API's latest version	string	
X-ONAP-RequestID	Used to track REST transactions for logging purpose	string	format: uuid

### Parameters

Parameter	Value	Description	Parameter Type	Data Type
<b>policyTypeId</b>	<input type="text" value="(required)"/>	<b>ID of policy type</b>	path	string
<b>policyTypeVersion</b>	<input type="text" value="(required)"/>	<b>Version of policy type</b>	path	string
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

### Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Authentication Error		
403	Authorization Error		
404	Resource Not Found		
500	Internal Server Error		

[Try it out!](#)

**POST**

/policy/api/v1/policytypes/{policyTypeId}/versions/{policyTypeVersion}/policies

Create a new policy for a policy type version

### Implementation Notes

Client should provide TOSCA body of the new policy

### Parameters



Parameter	Value	Description	Parameter Type	Data Type
<b>policyTypeId</b>	<input type="text" value="(required)"/>	<b>ID of policy type</b>	path	string
<b>policyTypeVersion</b>	<input type="text" value="(required)"/>	<b>Version of policy type</b>	path	string
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string



HTTP Status Code	Reason	Response Model	Headers
404	Resource Not Found		
500	Internal Server Error		

Try it out!

**DELETE** /policy/api/v1/policytypes/{policyTypeId}/versions/{policyTypeVersion}/policies/{policyId} Delete all versions of a policy

**Implementation Notes**

Rule: the version that has been deployed in PDP group(s) cannot be deleted

**Parameters** 

Parameter	Value	Description	Parameter Type	Data Type
<b>policyTypeId</b>	<input type="text" value="(required)"/>	<b>ID of policy type</b>	path	string
<b>policyTypeVersion</b>	<input type="text" value="(required)"/>	<b>Version of policy type</b>	path	string
<b>policyId</b>	<input type="text" value="(required)"/>	<b>ID of policy</b>	path	string
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

**Response Messages**

HTTP Status Code	Reason	Response Model	Headers
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HTTP Status Code	Reason	Response Model	Headers		
204	Resources successfully deleted, no content returned		X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string
			X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string
			X-LatestVersion	Used only to communicate an API's latest version	string
			X-ONAP-RequestID	Used to track REST transactions for logging purpose	string
401	Authentication Error				
403	Authorization Error				
404	Resource Not Found				
409	Delete Conflict, Rule Violation				
500	Internal Server Error				

Try it out!

**GET** /policy/api/v1/policytypes/{policyTypeId}/versions/{policyTypeVersion}/policies/{policyId}

Retrieve all version details of a policy created for a particular policy type version

**Implementation Notes**  
Returns a list of all version details of the specified policy



## Response Class (Status 200)



successful operation

Model | Example Value

```

{
  "key": {
    "name": "string",
    "version": "string",
    "key": {},
    "id": "string",
    "keys": [
      {
        "id": "string",
        "nullKey": true,
        "key": {}
      }
    ]
  }
}
    
```

Response Content Type

### Headers

Header	Description	Type	Other
X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string	
X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string	
X-LatestVersion	Used only to communicate an API's latest version	string	
X-ONAP-RequestID	Used to track REST transactions for logging purpose	string	format: uuid

### Parameters

Parameter	Value	Description	Parameter Type	Data Type
<b>policyTypeId</b>	<input type="text" value="(required)"/>	<b>ID of policy type</b>	path	string
<b>policyTypeVersion</b>	<input type="text" value="(required)"/>	<b>Version of policy type</b>	path	string
<b>policyId</b>	<input type="text" value="(required)"/>	<b>ID of policy</b>	path	string
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

### Response Messages

HTTP Status Code	Reason	Response Model	Headers
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HTTP Status Code	Reason	Response Model	Headers
401	Authentication Error		
403	Authorization Error		
404	Resource Not Found		
500	Internal Server Error		

[Try it out!](#)

DELETE

`/policy/api/v1/policytypes/{policyTypeId}/versions/{policyTypeVersion}/policies/{policyId}/versions/{policyVersion}`

Delete a particular version of a policy

**Implementation Notes**

Rule: the version that has been deployed in PDP group(s) cannot be deleted

**Parameters** i

Parameter	Value	Description	Parameter Type	Data Type
<b>policyTypeId</b>	<input type="text" value="(required)"/>	<b>PolicyType ID</b>	path	string
<b>policyTypeVersion</b>	<input type="text" value="(required)"/>	<b>Version of policy type</b>	path	string
<b>policyId</b>	<input type="text" value="(required)"/>	<b>ID of policy</b>	path	string
<b>policyVersion</b>	<input type="text" value="(required)"/>	<b>Version of policy</b>	path	string
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

**Response Messages**

HTTP Status Code	Reason	Response Model	Headers
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HTTP Status Code	Reason	Response Model	Headers		
204	Resource successfully deleted, no content returned		X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string
			X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string
			X-LatestVersion	Used only to communicate an API's latest version	string
			X-ONAP-RequestID	Used to track REST transactions for logging purpose	string
401	Authentication Error				
403	Authorization Error				
404	Resource Not Found				
409	Delete Conflict, Rule Violation				
500	Internal Server Error				

Try it out!

GET

/policy/api/v1/policytypes/{policyTypeId}/versions/{policyTypeVersion}/policies/{policyId}/versions/{policyVersion}

Retrieve one version of a policy created for a particular policy type version

### Implementation Notes

Returns a particular version of specified policy created for the specified policy type version

## Response Class (Status 200)



successful operation

Model | Example Value

```

{
  "key": {
    "name": "string",
    "version": "string",
    "key": {},
    "id": "string",
    "keys": [
      {
        "id": "string",
        "nullKey": true,
        "key": {}
      }
    ]
  }
}

```

Response Content Type

### Headers

Header	Description	Type	Other
X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string	
X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string	
X-LatestVersion	Used only to communicate an API's latest version	string	
X-ONAP-RequestID	Used to track REST transactions for logging purpose	string	format: uuid

### Parameters

Parameter	Value	Description	Parameter Type	Data Type
<b>policyTypeId</b>	<input type="text" value="(required)"/>	<b>ID of policy type</b>	path	string
<b>policyTypeVersion</b>	<input type="text" value="(required)"/>	<b>Version of policy type</b>	path	string
<b>policyId</b>	<input type="text" value="(required)"/>	<b>ID of policy</b>	path	string
<b>policyVersion</b>	<input type="text" value="(required)"/>	<b>Version of policy</b>	path	string
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

### Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Authentication Error		
403	Authorization Error		
404	Resource Not Found		
500	Internal Server Error		

Try it out!

**GET** /policy/api/v1/policytypes/{policyTypeId}/versions/{policyTypeVersion}/policies/{policyId}/versions  
 Retrieve either latest or deployed version of a particular policy depending on query param

### Implementation Notes

Returns either latest or deployed version of specified policy depending on query param

### Response Class (Status 200)

successful operation



Model | Example Value

```
{
  "key": {
    "name": "string",
    "version": "string",
    "key": {},
    "id": "string",
    "keys": [
      {
        "id": "string",
        "nullKey": true,
        "key": {}
      }
    ]
  }
}
```

Response Content Type

### Headers

Header	Description	Type	Other
X-MinorVersion	Used to request or communicate a MINOR version back from the client to the server, and from the server back to the client	string	
X-PatchVersion	Used only to communicate a PATCH version in a response for troubleshooting purposes only, and will not be provided by the client on request	string	
X-LatestVersion	Used only to communicate an API's latest version	string	
X-ONAP-RequestID	Used to track REST transactions for logging purpose	string	format: uuid

## Parameters

Parameter	Value	Description	Parameter Type	Data Type
<b>policyTypeId</b>	<input type="text" value="(required)"/>	<b>ID of policy type</b>	path	string
<b>policyTypeVersion</b>	<input type="text" value="(required)"/>	<b>Version of policy type</b>	path	string
<b>policyId</b>	<input type="text" value="(required)"/>	<b>ID of policy</b>	path	string
<b>type</b>	<input type="text" value="(required)"/>	<b>Version that can only be 'latest' or 'deployed'</b>	query	string
X-ONAP-RequestID	<input type="text"/>	RequestID for http transaction	header	string

## Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Authentication Error		
403	Authorization Error		
404	Resource Not Found		
500	Internal Server Error		

[ BASE URL: / , API VERSION: Swagger Server ]