

# pydnsshim

## API Documentation

May 8, 2009

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# 1 Package pydnsshim

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## 1.2 Variables

Name	Description
__package__	Value: None

## 2 Module `pydnsshim.AddUserRequest`

### 2.1 Variables

Name	Description
<code>--package--</code>	<b>Value:</b> <code>'pydnsshim'</code>

### 2.2 Class `AddUserRequest`

`pydnsshim.RestrictOperation.RestrictOperation` —  
`pydnsshim.AddUserRequest.AddUserRequest`

Request object for the `addUser` operation (add a new user to DNSSHIM).

#### 2.2.1 Methods

<code>__init__(self)</code>
Default constructor

<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b> Request XML document

#### 2.2.2 Class Variables

Name	Description
<code>TEMPLATE</code>	XML template for the request <b>Value:</b> <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
<code>sessionId</code>	

#### 2.2.3 Instance Variables

Name	Description
<code>username</code>	Username of the new user
<code>password</code>	Password in plain text

### 3 Module pydnsshim.AddZoneUserRequest

#### 3.1 Variables

Name	Description
<code>--package--</code>	<b>Value:</b> 'pydnsshim'

#### 3.2 Class AddZoneUserRequest

pydnsshim.RestrictOperation.RestrictOperation —  
 pydnsshim.AddZoneUserRequest.AddZoneUserRequest

Request object for the addZoneUser operation (grant permission to an user over a zone).

##### 3.2.1 Methods

<code>__init__(self)</code>
Default constructor

<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

##### 3.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request <b>Value:</b> '\n<?xml version="1.0" encoding="UTF-8"?>\n<dnsshim versi...
<i>Inherited from pydnsshim.RestrictOperation.RestrictOperation (Section 56.2)</i>	
sessionId	

##### 3.2.3 Instance Variables

Name	Description
username	User receiving permission to manage a zone
zone	Zonename

## 4 Module *pydnsshim.ChangeKeyStatusRequest*

### 4.1 Variables

Name	Description
<code>--package--</code>	<b>Value:</b> 'pydnsshim'

### 4.2 Class *ChangeKeyStatusRequest*

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.ChangeKeyStatusRequest.ChangeKeyStatusRequest`

Request object for the `changeKeyStatus` operation (change a key's status).

#### 4.2.1 Methods

<code>__init__(self)</code>
Default constructor

<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b> Request XML document

#### 4.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request <b>Value:</b> <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
sessionId	

#### 4.2.3 Instance Variables

Name	Description
zone	Zonename
key	Name of the key having the status changed
oldStatus	Current status of the key
newStatus	New status of the key

## 5 Module *pydnsshim.ChangeKeyStatusResponse*

### 5.1 Variables

Name	Description
<code>--package--</code>	Value: 'pydnsshim'

### 5.2 Class *ChangeKeyStatusResponse*



Response object for the `changeKeyStatus` operation (change a key's status).

#### 5.2.1 Methods

<code>__init__(self)</code>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<code>parseXml(self, xml)</code>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

*Inherited from `pydnsshim.Response.Response` (Section 54.2)*

`__str__()`

#### 5.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	
message, status	

#### 5.2.3 Instance Variables

Name	Description
keytag	Keytag of the key

*continued on next page*

<b>Name</b>	<b>Description</b>
digestType	Hash algorithm of the key's DS digest
digest	DS digest of the key



## 6 Module *pydnsshim.ChangePasswordRequest*

### 6.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 6.2 Class *ChangePasswordRequest*

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.ChangePasswordRequest.ChangePasswordRequest`

Request object for the `changePassword` operation (change a user's password).

#### 6.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 6.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request Value: ' <code>\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code> '
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
sessionId	

#### 6.2.3 Instance Variables

Name	Description
username	Username

*continued on next page*

<b>Name</b>	<b>Description</b>
oldPassword	User's current password in plain text
newPassword	User's new password in plain text

## 7 Module *pydnsshim.DnsClass*

### 7.1 Variables

Name	Description
<code>__package__</code>	Value: None

### 7.2 Class *DnsClass*

DNS Class representation class

#### 7.2.1 Class Variables

Name	Description
IN	Value: 1
CHAOS	Value: 3
NONE	Value: 254
ANY	Value: 255

## 8 Module *pydnsshim.DnskeyAlgorithm*

### 8.1 Variables

Name	Description
<code>__package__</code>	Value: None

### 8.2 Class *DnskeyAlgorithm*

DNSKEY algorithm representation class

#### 8.2.1 Class Variables

Name	Description
UNKNOWN	Value: 0
RSASHA1	Value: 5
RSASHA1_NSEC3	Value: 7
DSA	Value: 3
DSA_NSEC3	Value: 6

## 9 Module *pydnsshim.DnskeyFlags*

### 9.1 Variables

Name	Description
<code>__package__</code>	Value: None

### 9.2 Class *DnskeyFlags*

DNSKEY flags representation class (SEP BIT state)

#### 9.2.1 Class Variables

Name	Description
<code>SEP_OFF</code>	Value: 256
<code>SEP_ON</code>	Value: 257

## 10 Module *pydnsshim.DnskeyProtocol*

### 10.1 Variables

Name	Description
<code>__package__</code>	Value: None

### 10.2 Class *DnskeyProtocol*

DNSKEY Protocol representation class

#### 10.2.1 Class Variables

Name	Description
PROTOCOL	Value: 3

## 11 Module *pydnsshim.DnskeyStatus*

### 11.1 Variables

Name	Description
<code>__package__</code>	<b>Value:</b> None

### 11.2 Class *DnskeyStatus*

DNSKEY status representation class

#### 11.2.1 Methods

<code>__init__(self, name='SIGN')</code>
Default constructor

<code>getName(self)</code>
Get the string representation of the status

<code>__str__(self)</code>
String representation of the object

#### 11.2.2 Class Variables

Name	Description
SIGN	<b>Value:</b> 1
PUBLISH	<b>Value:</b> 2
NONE	<b>Value:</b> 3

## 12 Module *pydnsshim.DnskeyType*

### 12.1 Variables

Name	Description
<code>__package__</code>	Value: None

### 12.2 Class *DnskeyType*

DNSKEY type representation class (ZSK or KSK)

#### 12.2.1 Class Variables

Name	Description
ZSK	Value: 1
KSK	Value: 2



## 13 Module *pydnsshim.DsDigestType*

### 13.1 Variables

Name	Description
<code>__package__</code>	Value: None

### 13.2 Class *DsDigestType*

DS digest hash algorithm class (SHA1 or SHA256)

#### 13.2.1 Class Variables

Name	Description
SHA1	Value: 1
SHA256	Value: 2

## 14 Module *pydnsshim.DsInfo*

### 14.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 14.2 Class *DsInfo*

DS information class

#### 14.2.1 Methods

<code>__init__(self)</code>
-----------------------------

<code>__str__(self)</code>
String representation of the object

#### 14.2.2 Instance Variables

Name	Description
<code>keytag</code>	Keytag
<code>digestType</code>	DS digest hash algorithm
<code>digest</code>	DS digest

## 15 Module `pydnsshim>HelloRequest`

### 15.1 Variables

Name	Description
<code>__package__</code>	<b>Value:</b> <code>'pydnsshim'</code>

### 15.2 Class `HelloRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim>HelloRequest>HelloRequest`

Request object for the hello operation (keep the session with DNSSHIM alive).

#### 15.2.1 Methods

<b>toXml</b> ( <i>self</i> )
Generate the request XML
<b>Return Value</b>
Request XML document

#### 15.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request <b>Value:</b> <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
sessionId	

## 16 Module `pydnsshim.ImportKeyRequest`

### 16.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 16.2 Class `ImportKeyRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.ImportKeyRequest.ImportKeyRequest`

Request object for the `importKey` operation (import a RSASHA1 DNSKEY into a zone).

#### 16.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 16.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request Value: <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
sessionId	

#### 16.2.3 Instance Variables

Name	Description
zone	Zonename

*continued on next page*

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<b>Name</b>	<b>Description</b>
algorithm	DNSKEY algorithm (only RSASHA1 supported)
flags	DNSKEY flags attribute
keyType	Key type (ZSK or KSK)
keyStatus	Key status (PUBLISH, SIGN or NONE)
modulus	Modulus of the key
publicExponent	Public exponent
privateExponent	Private exponent
prime1	Prime1 parameter
prime2	Prime2 parameter
exponent1	Exponent1 parameter
exponent2	Exponent2 parameter
coefficient	Coefficient parameter

## 17 Module `pydnsshim.ImportKeyResponse`

### 17.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 17.2 Class `ImportKeyResponse`

`pydnsshim.Response.Response` — `pydnsshim.ImportKeyResponse.ImportKeyResponse`

Response object for the `importKey` operation (import a RSASHA1 DNSKEY into a zone ).

#### 17.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 17.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	<code>message</code> , <code>status</code>

**17.2.3 Instance Variables**

<b>Name</b>	<b>Description</b>
zone	Zonename
keyName	Name of the new key in the DNSSHIM
keytag	Keytag of the new key
digest	DS digest
digestType	DS digest algorithm (default is SHA1)

## 18 Module `pydnsshim.ImportZoneRequest`

### 18.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 18.2 Class `ImportZoneRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.ImportZoneRequest.ImportZoneRequest`

Request object for the `importZone` operation (import an existing zone into DNSSSHIM via AXFR).

#### 18.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 18.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request Value: <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
sessionId	

#### 18.2.3 Instance Variables

*continued on next page*



Name	Description
zone	Zonename
server	IP address of the authoritative server
port	Port number of the authoritative server (default is 53)

## 19 Module `pydnsshim.ImportZoneResponse`

### 19.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 19.2 Class `ImportZoneResponse`

`pydnsshim.Response.Response` — `pydnsshim.ImportZoneResponse.ImportZoneResponse`

Response object for the `importZone` operation (import an existing zone into DNSSHIM via AXFR).

#### 19.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 19.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	
<code>message</code> , <code>status</code>	

### 19.2.3 Instance Variables

Name	Description
zone	Zonename

## 20 Module *pydnsshim.ListKeysRequest*

### 20.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 20.2 Class *ListKeysRequest*

`pydnsshim.RestrictOperation.RestrictOperation` └─  
`pydnsshim.ListKeysRequest.ListKeysRequest`

Request object for the `listKeys` operation (list all the keys of a zone).

#### 20.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 20.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request Value: <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
sessionId	

#### 20.2.3 Instance Variables

Name	Description
zone	Zonename

## 21 Module `pydnsshim.ListKeysResponse`

### 21.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 21.2 Class `ListKeysResponse`

`pydnsshim.Response.Response` — `pydnsshim.ListKeysResponse.ListKeysResponse`

Response object for the `listKeys` operation (list all the keys of a zone).

#### 21.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 21.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	<i>message, status</i>

**21.2.3 Instance Variables**

<b>Name</b>	<b>Description</b>
zone	Zonename
noneKeys	List of keys with status NONE
publishKeys	List of keys with status PUBLISH
signKeys	List of keys with status SIGN

## 22 Module *pydnsshim.ListSlaveGroupRequest*

### 22.1 Variables

Name	Description
<code>__package__</code>	<b>Value:</b> <code>'pydnsshim'</code>

### 22.2 Class *ListSlaveGroupRequest*

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.ListSlaveGroupRequest.ListSlaveGroupRequest`

Request object for the `listSlaveGroup` operation (list all available slavegroups).

#### 22.2.1 Methods

<b>toXml</b> ( <i>self</i> )
Generate the request XML
<b>Return Value</b>
Request XML document

#### 22.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request <b>Value:</b> <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from pydnsshim.RestrictOperation.RestrictOperation (Section 56.2)</i>	
sessionId	

## 23 Module `pydnsshim.ListSlaveGroupResponse`

### 23.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 23.2 Class `ListSlaveGroupResponse`

`pydnsshim.Response.Response` └─ **`pydnsshim.ListSlaveGroupResponse.ListSlaveGroupResponse`**

Request object for the `listSlaveGroup` operation (list all available slavegroups).

#### 23.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 23.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	
	message, status



### 23.2.3 Instance Variables

Name	Description
slaveGroups	List of slavegroups

## 24 Module `pydnsshim.ListSlavesRequest`

### 24.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 24.2 Class `ListSlavesRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.ListSlavesRequest.ListSlavesRequest`

Request object for the `listSlaves` operation (list all the slaves of a zone).

#### 24.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 24.2.2 Class Variables

Name	Description
<code>TEMPLATE</code>	XML template for the request Value: <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
<code>sessionId</code>	

#### 24.2.3 Instance Variables

Name	Description
<code>zone</code>	Zonename

## 25 Module *pydnsshim.ListSlavesResponse*

### 25.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 25.2 Class *ListSlavesResponse*

`pydnsshim.Response.Response` — `pydnsshim.ListSlavesResponse.ListSlavesResponse`

Response object for the `listSlaves` operation (list all the slaves of a zone).

#### 25.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 25.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	<i>message, status</i>

**25.2.3 Instance Variables**

Name	Description
zone	Zonename
slaveGroups	Dictionary containing the slavegroup name as key and a list of slaves as value

## 26 Module *pydnsshim.ListTsigKeysRequest*

### 26.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 26.2 Class *ListTsigKeysRequest*

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.ListTsigKeysRequest.ListTsigKeysRequest`

Request object for the `listTsigKeys` operation (list the TSIG keys associated to a server).

#### 26.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 26.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request Value: ' <code>\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code> '
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
sessionId	

#### 26.2.3 Instance Variables

Name	Description
host	IP address of the server

## 27 Module *pydnsshim.ListTsigKeysResponse*

### 27.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 27.2 Class *ListTsigKeysResponse*

`pydnsshim.Response.Response` — `pydnsshim.ListTsigKeysResponse.ListTsigKeysResponse`

Response object for the `listTsigKeys` operation (list the TSIG keys associated to a server).

#### 27.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 27.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	<i>message, status</i>

**27.2.3 Instance Variables**

<b>Name</b>	<b>Description</b>
host	IP address of the server
keys	Dictionary mapping the key name to the key secret

## 28 Module `pydnsshim.ListZonesBySlaveGroupRequest`

### 28.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 28.2 Class `ListZonesBySlaveGroupRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.ListZonesBySlaveGroupRequest.ListZonesBySlaveGroupRequest`

Request object for the `listZonesBySlaveGroup` operation (list the zones associated to a slave-group).

#### 28.2.1 Methods

<code>__init__(self)</code>
Default constructor

<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b> Request XML document

#### 28.2.2 Class Variables

Name	Description
<code>TEMPLATE</code>	XML template for the request Value: <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
<code>sessionId</code>	

#### 28.2.3 Instance Variables

*continued on next page*



<b>Name</b>	<b>Description</b>
-------------	--------------------

<b>Name</b>	<b>Description</b>
slaveGroup	Slavegroup name

## 29 Module `pydnsshim.ListZonesBySlaveGroupResponse`

### 29.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 29.2 Class `ListZonesBySlaveGroupResponse`

`pydnsshim.Response.Response` └─  
   `pydnsshim.ListZonesBySlaveGroupResponse.ListZonesBySlave`

Response object for the `listZonesBySlaveGroup` operation (list the zones associated to a slavegroup).

#### 29.2.1 Methods

<code>__init__(self)</code>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<code>__str__(self)</code>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<code>parseXml(self, xml)</code>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 29.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	
<code>message</code> , <code>status</code>	

### 29.2.3 Instance Variables

Name	Description
slaveGroup	Slavegroup name
zones	List of zones

## 30 Module `pydnsshim.ListZonesRequest`

### 30.1 Variables

Name	Description
<code>__package__</code>	<b>Value:</b> <code>'pydnsshim'</code>

### 30.2 Class `ListZonesRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.ListZonesRequest.ListZonesRequest`

Request object for the `listZones` operation (list all the zones managed by the current user).

#### 30.2.1 Methods

<b>toXml</b> ( <i>self</i> )
Generate the request XML
<b>Return Value</b>
Request XML document

#### 30.2.2 Class Variables

Name	Description
<code>TEMPLATE</code>	XML template for the request <b>Value:</b> <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
<code>sessionId</code>	

## 31 Module `pydnsshim.ListZonesResponse`

### 31.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 31.2 Class `ListZonesResponse`

`pydnsshim.Response.Response` —  
`pydnsshim.ListZonesResponse.ListZonesResponse`

Response object for the `listZones` operation (list all the zones managed by the current user).

#### 31.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 31.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	<i>message, status</i>

### 31.2.3 Instance Variables

Name	Description
zones	List of zones

## 32 Module pydnsshim.LoginRequest

### 32.1 Variables

Name	Description
<code>__package__</code>	<b>Value:</b> 'pydnsshim'

### 32.2 Class LoginRequest

pydnsshim.RestrictOperation.RestrictOperation —  
 pydnsshim.LoginRequest.LoginRequest

Request object for the login operation (log into the DNSSHIM server using username and password).

#### 32.2.1 Methods

<code>__init__(self)</code>
Default constructor

<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b> Request XML document

#### 32.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request <b>Value:</b> ' <code>\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code> '
<i>Inherited from pydnsshim.RestrictOperation.RestrictOperation (Section 56.2)</i>	
sessionId	

#### 32.2.3 Instance Variables

*continued on next page*

Name	Description
username	Username trying to login
password	User's password in plain text



## 33 Module `pydnsshim.LoginResponse`

### 33.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 33.2 Class `LoginResponse`

`pydnsshim.Response.Response` — `pydnsshim.LoginResponse.LoginResponse`

Response object for the login operation (log into the DNSSHIM server using username and password).

#### 33.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 33.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	
<code>message</code> , <code>status</code>	

### 33.2.3 Instance Variables


Name	Description
sessionId	The session ID for the newly created session

## 34 Module pydnsshim.LogoutRequest

### 34.1 Variables

Name	Description
<code>--package--</code>	<b>Value:</b> 'pydnsshim'

### 34.2 Class LogoutRequest

pydnsshim.RestrictOperation.RestrictOperation  pydnsshim.LogoutRequest.LogoutRequest

Request object for the logout operation (terminate the current session with DNSSHIM).

#### 34.2.1 Methods

<b>toXml</b> ( <i>self</i> )
Generate the request XML
<b>Return Value</b>
Request XML document

#### 34.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request <b>Value:</b> '\n<?xml version="1.0" encoding="UTF-8"?>\n<dnsshim versi...
<i>Inherited from pydnsshim.RestrictOperation.RestrictOperation (Section 56.2)</i>	
sessionId	

## 35 Module `pydnsshim.NewKeyRequest`

### 35.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 35.2 Class `NewKeyRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.NewKeyRequest.NewKeyRequest`

Request object for the `newKey` operation (Generate a new DNSKEY for a zone).

#### 35.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 35.2.2 Class Variables

Name	Description
<code>TEMPLATE</code>	XML template for the request Value: <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
<code>sessionId</code>	

#### 35.2.3 Instance Variables

Name	Description
<code>zone</code>	Zonename

*continued on next page*

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<b>Name</b>	<b>Description</b>
keySize	Size of the new key (default is 1024)
algorithm	Algorithm of the new key (default is RSASHA1)
flags	Flags attribute of the new key (default is SEP_ON or 257)
keyStatus	Key status (PUBLISH, SIGN or NONE) (default is SIGN)
protocol	Key protocol
keyType	Keytype (ZSK or KSK) (default is ZSK)

## 36 Module `pydnsshim.NewKeyResponse`

### 36.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 36.2 Class `NewKeyResponse`

`pydnsshim.Response.Response` —  
`pydnsshim.NewKeyResponse.NewKeyResponse`

Response object for the `newKey` operation (Generate a new DNSKEY for a zone).

#### 36.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 36.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	<code>message</code> , <code>status</code>

**36.2.3 Instance Variables**

<b>Name</b>	<b>Description</b>
zone	Zonename
keyName	Name of the new key in the DNSSHIM
keytag	Keytag of the new key
digest	DS digest
digestType	DS digest algorithm (default is SHA1)

## 37 Module `pydnsshim.NewTsigKeyRequest`

### 37.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 37.2 Class `NewTsigKeyRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.NewTsigKeyRequest.NewTsigKeyRequest`

Request object for the `newTsigKey` operation (generate a new TSIG key for a server).

#### 37.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 37.2.2 Class Variables

Name	Description
<code>TEMPLATE</code>	XML template for the request Value: <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
<code>sessionId</code>	

#### 37.2.3 Instance Variables

Name	Description
<code>host</code>	IP address of the server

*continued on next page*



<b>Name</b>	<b>Description</b>
keyName	Name of the new TSIG key

## 38 Module `pydnsshim.NewTsigKeyResponse`

### 38.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 38.2 Class `NewTsigKeyResponse`

`pydnsshim.Response.Response` — `pydnsshim.NewTsigKeyResponse.NewTsigKeyResponse`

Response object for the `newTsigKey` operation (generate a new TSIG key for a server).

#### 38.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 38.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	<code>message</code> , <code>status</code>

**38.2.3 Instance Variables**

<b>Name</b>	<b>Description</b>
host	IP address of the server
keyName	Name of the new TSIG key
secret	Secret of the new TSIG key

## 39 Module `pydnsshim.NewZoneRequest`

### 39.1 Variables

Name	Description
<code>__package__</code>	<b>Value:</b> <code>'pydnsshim'</code>

### 39.2 Class `NewZoneRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.NewZoneRequest.NewZoneRequest`

Request object for the `newZone` operation (create a new zone).

#### 39.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document
<code>isSigned(self)</code>

#### 39.2.2 Class Variables

Name	Description
<code>TEMPLATE</code>	XML template for the request <b>Value:</b> <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
<code>sessionId</code>	

#### 39.2.3 Instance Variables

<b>Name</b>	<b>Description</b>
zone	Zonename
ttl	SOA TTL (default is 86400)
mname	SOA MNAME
rname	SOA RNAME
serial	SOA SERIAL number (default is 1)
refresh	SOA REFRESH field (default is 86400)
retry	SOA RETRY field (default is 900)
expire	SOA EXPIRE field (default is 604800)
minimum	SOA MINIMUM field (default is 900)
signed	Whether the zone is signed or not (default is TRUE)
keySize	Keysize of the zone's DNSKEY (default is 1024)
algorithm	Algorithm of the zone's DNSKEY (default is RSASHA1)
expirationPeriod	Validity period of the zone's signatures (default is 2592000 or 1 month)

## 40 Module `pydnsshim.NewZoneResponse`

### 40.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 40.2 Class `NewZoneResponse`

`pydnsshim.Response.Response` —  
`pydnsshim.NewZoneResponse.NewZoneResponse`

Response object for the `newZone` operation (create a new zone).

#### 40.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 40.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	<i>message, status</i>

**40.2.3 Instance Variables**

<b>Name</b>	<b>Description</b>
zone	Zonename
signed	Whether the new zone is signed or not
keyName	Name of the DNSKEY of the zone (in case it's signed)
keytag	Keytag of the DNSKEY of the zone (in case it's signed)
digestType	Hash algorithm for the DS digest (in case the zone is signed)
digest	DS digest to be included in the parent zone (in case the zone is signed)

## 41 Module `pydnsshim.PrintSlaveGroupRequest`

### 41.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 41.2 Class `PrintSlaveGroupRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.PrintSlaveGroupRequest.PrintSlave`

Request object for the `printSlaveGroup` operation (print the slaves in a slavegroup).

#### 41.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 41.2.2 Class Variables

Name	Description
<code>TEMPLATE</code>	XML template for the request Value: <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
<code>sessionId</code>	

#### 41.2.3 Instance Variables

Name	Description
<code>slaveGroup</code>	Slavegroup name



## 42 Module `pydnsshim.PrintSlaveGroupResponse`

### 42.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 42.2 Class `PrintSlaveGroupResponse`

`pydnsshim.Response.Response` — `pydnsshim.PrintSlaveGroupResponse.PrintSlaveGroupResponse`

Response object for the `printSlaveGroup` operation (print the slaves in a slavegroup).

#### 42.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 42.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	<i>message, status</i>

### 42.2.3 Instance Variables

Name	Description
slaveGroup	Slavegroup name
slaves	List of all the slaves in the slavegroup

## 43 Module `pydnsshim.PrintZoneRequest`

### 43.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 43.2 Class `PrintZoneRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.PrintZoneRequest.PrintZoneRequest`

Request object for the `printZone` operation (print a zone's Resource Records).

#### 43.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 43.2.2 Class Variables

Name	Description
<code>TEMPLATE</code>	XML template for the request Value: <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
<code>sessionId</code>	

#### 43.2.3 Instance Variables

Name	Description
<code>zone</code>	Zonename

## 44 Module `pydnsshim.PrintZoneResponse`

### 44.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 44.2 Class `PrintZoneResponse`

`pydnsshim.Response.Response` — `pydnsshim.PrintZoneResponse.PrintZoneResponse`

Response object for the `printZone` operation (print a zone's Resource Records).

#### 44.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 44.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	<i>message, status</i>

**44.2.3 Instance Variables**

Name	Description
zone	Zonename
records	List of Resource Records in the zone
dsInfo	List of DS information for the DNSKEYs in the zone

## 45 Module pydnsshim.PubZoneRequest

### 45.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 45.2 Class PubZoneRequest

pydnsshim.RestrictOperation.RestrictOperation —  
 pydnsshim.PubZoneRequest.PubZoneRequest

Request object for the pubZone operation (do a full or incremental zone publication).

#### 45.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 45.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request Value: ' <code>\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code> '
<i>Inherited from pydnsshim.RestrictOperation.RestrictOperation (Section 56.2)</i>	
sessionId	

#### 45.2.3 Instance Variables

Name	Description
zone	Zonename

*continued on next page*

<b>Name</b>	<b>Description</b>
serial	New serial number of the zone
full	Whether the publication is full or incremental (default is full)

## 46 Module pydnsshim.PubZoneResponse

### 46.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 46.2 Class PubZoneResponse

pydnsshim.Response.Response —  
   pydnsshim.PubZoneResponse.PubZoneResponse

Response object for the pubZone operation (do a full or incremental zone publication).

#### 46.2.1 Methods

<code>__init__(self)</code>
Default constructor
Overrides: pydnsshim.Response.Response.__init__

<code>__str__(self)</code>
String representation of the object
Overrides: pydnsshim.Response.Response.__str__

<code>parseXml(self, xml)</code>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: pydnsshim.Response.Response.parseXml

#### 46.2.2 Class Variables

Name	Description
<i>Inherited from pydnsshim.Response.Response (Section 54.2)</i>	
message, status	



### 46.2.3 Instance Variables

Name	Description
zone	Zonename
serial	New serial number of the zone

## 47 Module pydnsshim.RemoveKeyRequest

### 47.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 47.2 Class RemoveKeyRequest

pydnsshim.RestrictOperation.RestrictOperation —  
 pydnsshim.RemoveKeyRequest.RemoveKeyRequest

Request object for the removeKey operation (remove a DNSKEY from a zone).

#### 47.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 47.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request Value: ' <code>\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code> '
<i>Inherited from pydnsshim.RestrictOperation.RestrictOperation (Section 56.2)</i>	
sessionId	

#### 47.2.3 Instance Variables

Name	Description
zone	Zonename

*continued on next page*

<b>Name</b>	<b>Description</b>
key	Name of the key to be removed

## 48 Module pydnsshim.RemoveKeyResponse

### 48.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 48.2 Class RemoveKeyResponse

pydnsshim.Response.Response —  
**pydnsshim.RemoveKeyResponse.RemoveKeyResponse**

Response object for the removeKey operation (remove a DNSKEY from a zone).

#### 48.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: pydnsshim.Response.Response.__init__

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: pydnsshim.Response.Response.__str__

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: pydnsshim.Response.Response.parseXml

#### 48.2.2 Class Variables

Name	Description
<i>Inherited from pydnsshim.Response.Response (Section 54.2)</i>	message, status

## 49 Module `pydnsshim.RemoveTsigKeyRequest`

### 49.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 49.2 Class `RemoveTsigKeyRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.RemoveTsigKeyRequest.RemoveTsigKeyRequest`

Request object for the `removeTsigKey` operation (remove a TSIG key).

#### 49.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 49.2.2 Class Variables

Name	Description
<code>TEMPLATE</code>	XML template for the request Value: <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
<code>sessionId</code>	

#### 49.2.3 Instance Variables

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<b>Name</b>	<b>Description</b>
<b>Name</b>	<b>Description</b>
host	IP address of the server the TSIG key is associated with
keyName	Name of the TSIG key to be removed

## 50 Module pydnsshim.RemoveZoneRequest

### 50.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 50.2 Class RemoveZoneRequest

pydnsshim.RestrictOperation.RestrictOperation —  
 pydnsshim.RemoveZoneRequest.RemoveZoneRequest

Request object for the removeZone operation (remove a zone from DNSSHIM).

#### 50.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 50.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request Value: ' <code>\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code> '
<i>Inherited from pydnsshim.RestrictOperation.RestrictOperation (Section 56.2)</i>	
sessionId	

#### 50.2.3 Instance Variables

Name	Description
zone	Zonename

## 51 Module pydnsshim.RemoveZoneResponse

### 51.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 51.2 Class RemoveZoneResponse

pydnsshim.Response.Response —  
   pydnsshim.RemoveZoneResponse.RemoveZoneResponse

Response object for the removeZone operation (remove a zone from DNSSHIM).

#### 51.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: pydnsshim.Response.Response.__init__

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: pydnsshim.Response.Response.__str__

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: pydnsshim.Response.Response.parseXml

#### 51.2.2 Class Variables

Name	Description
<i>Inherited from pydnsshim.Response.Response (Section 54.2)</i>	message, status



### 51.2.3 Instance Variables

Name	Description
zone	Zonename

## 52 Module `pydnsshim.RemoveZoneUserRequest`

### 52.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 52.2 Class `RemoveZoneUserRequest`

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.RemoveZoneUserRequest.RemoveZoneUserRequest`

Request object for the `removeZoneUser` operation (remove permission of a user over a zone).

#### 52.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 52.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request Value: <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
sessionId	

#### 52.2.3 Instance Variables

Name	Description
username	User losing permission to manage a zone

*continued on next page*

<b>Name</b>	<b>Description</b>
zone	Zonename

## 53 Module pydnsshim.ResourceRecord

### 53.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 53.2 Class ResourceRecord

#### 53.2.1 Methods

<code>__init__(self)</code>
-----------------------------

<code>__str__(self)</code>
----------------------------

## 54 Module pydnsshim.Response

### 54.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 54.2 Class Response

**Known Subclasses:** pydnsshim.NewZoneResponse.NewZoneResponse, pydnsshim.ImportKeyResponse.ImportKeyResponse, pydnsshim.PrintZoneResponse.PrintZoneResponse, pydnsshim.ListSlaveGroupResponse.ListSlaveGroupResponse, pydnsshim.RemoveKeyResponse.RemoveKeyResponse, pydnsshim.NewTsigKeyResponse.NewTsigKeyResponse, pydnsshim.ListZonesBySlaveGroupResponse.ListZonesBySlaveGroupResponse, pydnsshim.NewKeyResponse.NewKeyResponse, pydnsshim.ListZonesResponse.ListZonesResponse, pydnsshim.RemoveZoneResponse.RemoveZoneResponse, pydnsshim.PrintSlaveGroupResponse.PrintSlaveGroupResponse, pydnsshim.ZoneVersionResponse.ZoneVersionResponse, pydnsshim.ListSlavesResponse.ListSlavesResponse, pydnsshim.ListTsigKeysResponse.ListTsigKeysResponse, pydnsshim.PubZoneResponse.PubZoneResponse, pydnsshim.LoginResponse.LoginResponse, pydnsshim.ChangeKeyStatusResponse.ChangeKeyStatusResponse, pydnsshim.SetExpirationPeriodResponse.SetExpirationPeriodResponse, pydnsshim.ImportZoneResponse.ImportZoneResponse, pydnsshim.ListKeysResponse.ListKeysResponse

Generic response class

#### 54.2.1 Methods

<code>__init__(self)</code>
Default constructor

<code>__str__(self)</code>
String representation of the object

<code>parseXml(self, xml)</code>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
xml: Response XML document

#### 54.2.2 Class Variables

<b>Name</b>	<b>Description</b>
status	Status of the response <b>Value: 1</b>
message	Response message <b>Value: ''</b>

## 55 Module pydnsshim.ResponseStatus

### 55.1 Variables

Name	Description
<code>__package__</code>	Value: None

### 55.2 Class ResponseStatus

Response status codes

#### 55.2.1 Class Variables

Name	Description
OK	Value: 1
BAD_UICLIENT_REQUE- ST	Value: 2
INVALID_SIGNER_OPE- RATION	Value: 3
EMPTY_RRSET	Value: 4
INVALID_AGORITHM	Value: 5
INVALID_KEY	Value: 6
SIGNATURE_ERROR	Value: 7
NO_SOA	Value: 8
TRANSFER_NOT_ALLO- WED	Value: 9
NOT_AUTHORITY	Value: 10
DNS_MESSAGE_FORME- RR	Value: 11
BAD_TSIG	Value: 12
INVALID_DNS_MESSAG- E	Value: 13
REFUSED_OPERATION	Value: 14
DNS_SERVER_FAILURE	Value: 15
ZONE_NOT_FOUND	Value: 16
PUBLICATION_ERROR	Value: 17
INVALID_SOA_VERSIO- N	Value: 18
SIGNER_SERVER_FAIL- URE	Value: 19

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Name	Description
ZONE_ALREADY_EXISTS	Value: 20
RESOURCE_RECORD_NOT_FOUND	Value: 21
SLAVE_ALREADY_EXISTS	Value: 22
SLAVE_NOT_FOUND	Value: 23
INVALID_KEY_STATUS	Value: 24
CONNECTION_REFUSED	Value: 25
CANNOT_LOGIN	Value: 26
ULSERVER_ERROR	Value: 27
INVALID_RESOURCE_RECORD	Value: 28
RESOURCE_RECORD_ALREADY_EXISTS	Value: 29
SLAVE_GROUP_NOT_FOUND	Value: 30
SLAVE_GROUP_ALREADY_EXISTS	Value: 31
FORBIDDEN	Value: 32
USER_NOT_FOUND	Value: 33



## 56 Module pydnsshim.RestrictOperation

### 56.1 Variables

Name	Description
<code>__package__</code>	<b>Value:</b> None

### 56.2 Class RestrictOperation

**Known Subclasses:** pydnsshim.ListTsigKeysRequest.ListTsigKeysRequest, pydnsshim.ListSlavesRequest.ListSlavesRequest, pydnsshim.ChangeKeyStatusRequest.ChangeKeyStatusRequest, pydnsshim.ListZonesBySlaveGroupRequest.ListZonesBySlaveGroupRequest, pydnsshim.ListZonesRequest.ListZonesRequest, pydnsshim.ListKeysRequest.ListKeysRequest, pydnsshim.NewKeyRequest.NewKeyRequest, pydnsshim.SlaveGroupRequest.SlaveGroupRequest, pydnsshim.RemoveKeyRequest.RemoveKeyRequest, pydnsshim.HelloRequest.HelloRequest, pydnsshim.PrintZoneRequest.PrintZoneRequest, pydnsshim.SlaveRequest.SlaveRequest, pydnsshim.ImportZoneRequest.ImportZoneRequest, pydnsshim.NewZoneRequest.NewZoneRequest, pydnsshim.PubZoneRequest.PubZoneRequest, pydnsshim.RemoveZoneRequest.RemoveZoneRequest, pydnsshim.RemoveZoneUserRequest.RemoveZoneUserRequest, pydnsshim.RemoveTsigKeyRequest.RemoveTsigKeyRequest, pydnsshim.AddZoneUserRequest.AddZoneUserRequest, pydnsshim.ListSlaveGroupRequest.ListSlaveGroupRequest, pydnsshim.SetExpirationPeriodRequest.SetExpirationPeriodRequest, pydnsshim.PrintSlaveGroupRequest.PrintSlaveGroupRequest, pydnsshim.LogoutRequest.LogoutRequest, pydnsshim.NewTsigKeyRequest.NewTsigKeyRequest, pydnsshim.ChangePasswordRequest.ChangePasswordRequest, pydnsshim.ZoneVersionRequest.ZoneVersionRequest, pydnsshim.AddUserRequest.AddUserRequest, pydnsshim.RrRequest.RrRequest, pydnsshim.ImportKeyRequest.ImportKeyRequest, pydnsshim.LoginRequest.LoginRequest

Base class for all requests that require an open session

#### 56.2.1 Class Variables

Name	Description
<code>sessionId</code>	Session ID <b>Value:</b> 0

## 57 Module pydnsshim.RrOperation

### 57.1 Variables

Name	Description
<code>__package__</code>	Value: None

### 57.2 Class RrOperation

RR operation codes

#### 57.2.1 Class Variables

Name	Description
ADD	Value: 0
REMOVE	Value: 1



### 58.2.3 Instance Variables

Name	Description
zone	Zonename
ownername	Ownername of the RR
ttl	TTL of the RR (default is 86400)
type	Type of the RR
dnsClass	Class of the RR
rdata	Rdata in presentation format
op	Operation: either ADD or REMOVE

## 59 Module pydnsshim.RrType

### 59.1 Variables

Name	Description
<code>__package__</code>	Value: None

### 59.2 Class RrType

RR types codes

#### 59.2.1 Methods

<code>__init__(self, name='A')</code>
Default constructor

<code>getName(self)</code>
Get the string representation of the RR type

<code>__str__(self)</code>
Object's string representation

#### 59.2.2 Class Variables

Name	Description
A	Value: 1
NS	Value: 2
CNAME	Value: 5
SOA	Value: 6
PTR	Value: 12
HINFO	Value: 13
MINFO	Value: 14
MX	Value: 15
TXT	Value: 16
AAAA	Value: 28
LOC	Value: 29
SRV	Value: 33
NAPTR	Value: 35

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Name	Description
CERT	Value: 37
DNAME	Value: 39
OPT	Value: 41
DS	Value: 43
SSHFP	Value: 44
IPSECKEY	Value: 45
RRSIG	Value: 46
NSEC	Value: 47
DNSKEY	Value: 48
NSEC3	Value: 50
NSEC3PARAM	Value: 51
TSIG	Value: 250

## 60 Module *pydnsshim.SetExpirationPeriodRequest*

### 60.1 Variables

Name	Description
<code>__package__</code>	<b>Value:</b> <code>'pydnsshim'</code>

### 60.2 Class *SetExpirationPeriodRequest*

`pydnsshim.RestrictOperation.RestrictOperation` — `pydnsshim.SetExpirationPeriodRequest.SetExp`

Request object for the `setExpirationPeriod` operation (set the signatures' validity period of zone).

#### 60.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 60.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request <b>Value:</b> <code>'\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from <code>pydnsshim.RestrictOperation.RestrictOperation</code> (Section 56.2)</i>	
sessionId	

#### 60.2.3 Instance Variables

*continued on next page*

Name	Description
zone	Zonename
expiration	The zone's signatures validity period (default is 2592000 or 1 month)



## 61 Module `pydnsshim.SetExpirationPeriodResponse`

### 61.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 61.2 Class `SetExpirationPeriodResponse`

`pydnsshim.Response.Response` — `pydnsshim.SetExpirationPeriodResponse.SetExpirationPeriodResponse`

Response object for the `setExpirationPeriod` operation (set the signatures' validity period of zone).

#### 61.2.1 Methods

<b><code>__init__</code></b> ( <i>self</i> )
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__</code></b> ( <i>self</i> )
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml</code></b> ( <i>self</i> , <i>xml</i> )
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<i>xml</i> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 61.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	
<code>message</code> , <code>status</code>	

### 61.2.3 Instance Variables

Name	Description
zone	Zonename
expiration	The zone's signatures validity period

## 62 Module pydnsshim.Slave

### 62.1 Variables

Name	Description
<code>__package__</code>	Value: None

### 62.2 Class Slave

Slave representation class

#### 62.2.1 Methods

<code>__init__(self, address, port=53)</code>
Default constructor

<code>__str__(self)</code>
Object's string representation

#### 62.2.2 Instance Variables

Name	Description
<code>address</code>	IP address of the slave
<code>port</code>	Port number

## 63 Module pydnsshim.SlaveGroupRequest

### 63.1 Variables

Name	Description
<code>__package__</code>	<b>Value:</b> 'pydnsshim'

### 63.2 Class SlaveGroupRequest

pydnsshim.RestrictOperation.RestrictOperation  pydnsshim.SlaveGroupRequest.SlaveGroupRequest

Request object for the newSlaveGroup, removeSlaveGroup, assignSlaveGroup and unassignSlaveGroup operations (create or remove a Slavegroup and assign or unassign it from a zone).

#### 63.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 63.2.2 Class Variables

Name	Description
<code>NEW_SLAVEGROUP_TEMPLATE</code>	XML template for the newSlaveGroup request <b>Value:</b> '\n<?xml version="1.0" encoding="UTF-8"?>\n<dnsshim versi...
<code>REMOVE_SLAVEGROUP_TEMPLATE</code>	XML template for the removeSlaveGroup request <b>Value:</b> '\n<?xml version="1.0" encoding="UTF-8"?>\n<dnsshim versi...

*continued on next page*

Name	Description
ASSIGN_SLAVEGROUP_TEMPLATE	XML template for the assignSlaveGroup request <b>Value:</b> '\n<?xml version="1.0" encoding="UTF-8"?>\n<dnsshim versi...
UNASSIGN_SLAVEGROUP_TEMPLATE	XML template for the unassignSlaveGroup request <b>Value:</b> '\n<?xml version="1.0" encoding="UTF-8"?>\n<dnsshim versi...
<i>Inherited from pydnsshim.RestrictOperation.RestrictOperation (Section 56.2)</i> sessionId	

### 63.2.3 Instance Variables

Name	Description
zone	Zonename (applicable only to the ASSIGN and UNASSIGN operations)
slaveGroup	Slavegroup name
operation	Operation to be executed: ADD, REMOVE, ASSIGN or UNASSIGN

## 64 Module *pydnsshim.SlaveOperation*

### 64.1 Variables

Name	Description
<code>__package__</code>	Value: None

### 64.2 Class *SlaveOperation*

Slave operation codes

#### 64.2.1 Class Variables

Name	Description
ADD	Value: 0
REMOVE	Value: 1
ASSIGN	Value: 2
UNASSIGN	Value: 3

## 65 Module pydnsshim.SlaveRequest

### 65.1 Variables

Name	Description
<code>__package__</code>	<b>Value:</b> 'pydnsshim'

### 65.2 Class SlaveRequest

pydnsshim.RestrictOperation.RestrictOperation —  
 pydnsshim.SlaveRequest.SlaveRequest

Request object for the addSlave and removeSlave operations (add and remove a slave to and from a slavegroup).

#### 65.2.1 Methods

<code>__init__(self)</code>
Default constructor

<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b> Request XML document

#### 65.2.2 Class Variables

Name	Description
<code>ADD_SLAVE_TEMPLAT- E</code>	XML template for the addSlave request <b>Value:</b> ' <code>\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<code>REMOVE_SLAVE_TEMP- LATE</code>	XML template for the removeSlave request <b>Value:</b> ' <code>\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code>
<i>Inherited from pydnsshim.RestrictOperation.RestrictOperation (Section 56.2)</i> sessionId	

**65.2.3 Instance Variables**

<b>Name</b>	<b>Description</b>
operation	Operation to be executed: ADD or REMOVE
slaveGroup	Slavegroup name
slave	IP address of the slave server being added or removed
port	Port number of the slave server (default is 53)

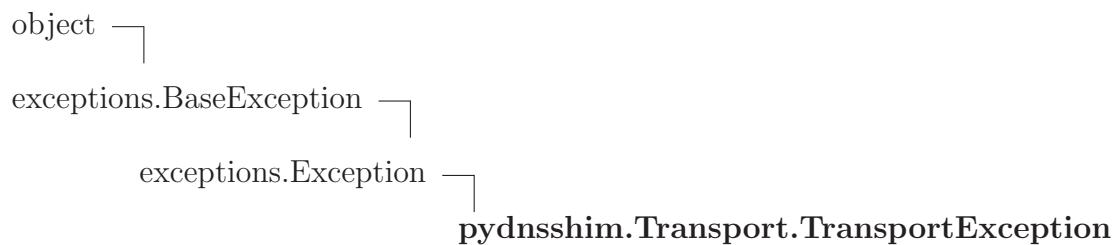


## 66 Module `pydnsshim.Transport`

### 66.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 66.2 Class `TransportException`



Transport exception class

#### 66.2.1 Methods

<code>__init__(self, msg='')</code>
Default constructor
Overrides: <code>object.__init__</code>

<code>__str__(self)</code>
String representation (message)
Overrides: <code>object.__str__</code>

*Inherited from `exceptions.Exception`*

`__new__()`

*Inherited from `exceptions.BaseException`*

`__delattr__()`, `__getattr__()`, `__getitem__()`, `__getslice__()`, `__reduce__()`, `__repr__()`,  
`__setattr__()`, `__setstate__()`, `__unicode__()`

*Inherited from `object`*

`__format__()`, `__hash__()`, `__reduce_ex__()`, `__sizeof__()`, `__subclasshook__()`

### 66.2.2 Properties

Name	Description
	<i>Inherited from exceptions.BaseException</i>
	args, message
	<i>Inherited from object</i>
	__class__

## 66.3 Class Transport

Transport class

### 66.3.1 Methods

<b>__init__</b> ( <i>self</i> , <i>server</i> , <i>port</i> )
Default constructor

<b>sendRequest</b> ( <i>self</i> , <i>xml</i> )
Send a request XML document to the DNSSHIM server and receive the response
<b>Parameters</b>
<i>xml</i> : request XML document
<b>Return Value</b>
response XML document

### 66.3.2 Instance Variables

Name	Description
server	IP address of the DNSSHIM server
port	Port number of the DNSSHIM server

## 67 Module pydnsshim.ZoneVersionRequest

### 67.1 Variables

Name	Description
<code>__package__</code>	Value: 'pydnsshim'

### 67.2 Class ZoneVersionRequest

pydnsshim.RestrictOperation.RestrictOperation  pydnsshim.ZoneVersionRequest.ZoneVersionRequest

Request object for the zoneVersion operation (get a zone's current serial version).

#### 67.2.1 Methods

<code>__init__(self)</code>
Default constructor
<code>toXml(self)</code>
Generate the request XML
<b>Return Value</b>
Request XML document

#### 67.2.2 Class Variables

Name	Description
TEMPLATE	XML template for the request Value: ' <code>\n&lt;?xml version="1.0" encoding="UTF-8"?&gt;\n&lt;dnsshim versi...</code> '
<i>Inherited from pydnsshim.RestrictOperation.RestrictOperation (Section 56.2)</i>	
sessionId	

#### 67.2.3 Instance Variables

Name	Description
zone	Zonename

## 68 Module `pydnsshim.ZoneVersionResponse`

### 68.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pydnsshim'</code>

### 68.2 Class `ZoneVersionResponse`

`pydnsshim.Response.Response` — `pydnsshim.ZoneVersionResponse.ZoneVersionResponse`

Response object for the `zoneVersion` operation (get a zone's current serial version).

#### 68.2.1 Methods

<b><code>__init__(self)</code></b>
Default constructor
Overrides: <code>pydnsshim.Response.Response.__init__</code>

<b><code>__str__(self)</code></b>
String representation of the object
Overrides: <code>pydnsshim.Response.Response.__str__</code>

<b><code>parseXml(self, xml)</code></b>
Parses a response XML document and fills the fields of the current object
<b>Parameters</b>
<code>xml</code> : Response XML document
Overrides: <code>pydnsshim.Response.Response.parseXml</code>

#### 68.2.2 Class Variables

Name	Description
<i>Inherited from <code>pydnsshim.Response.Response</code> (Section 54.2)</i>	<code>message</code> , <code>status</code>

### 68.2.3 Instance Variables

Name	Description
zone	Zonename
serial	Current serial number of the zone

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