

User manual

(Onvif Proxy)

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Table of Contents

Chapter 1 Key features	4
Chapter 2 Function chart	5
Chapter 3 Configuration	6
3.1 Configuration Templates.....	6
3.2 Configuring Node Description.....	7
Chapter 4 Run Onvif Proxy	10

Chapter 1 Key features

Support onvif protocol proxy

Support proxy many onvif compatible devices

Support PTZ transparent operation

Support snapshot forwarding

Support system log forwarding

Support upgrade file forwarding

Support system backup forwarding

Support event forwarding

Support device automatic discovery

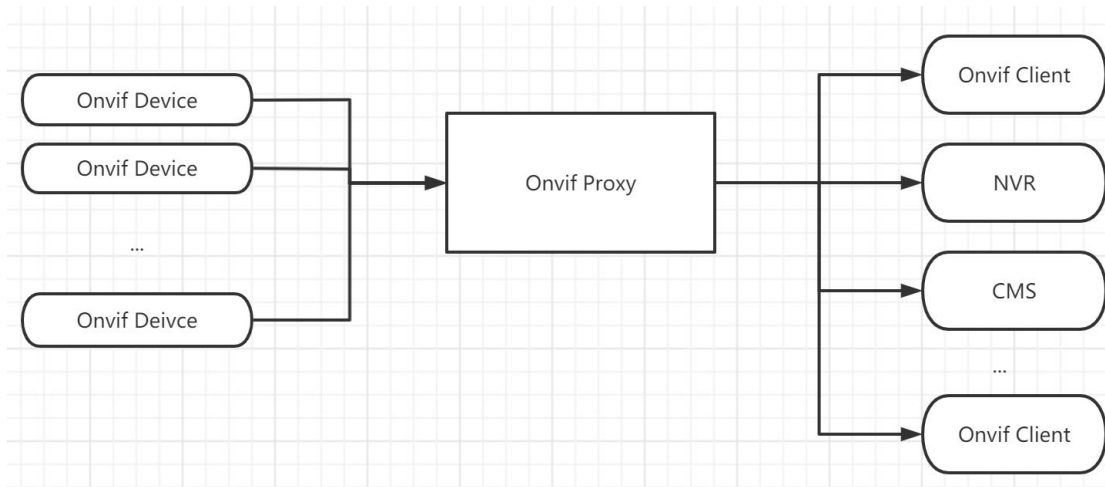
Support rtsp streaming proxy

Support rtsp proxy on-demand connection

Simple configuration to achieve fully transparent proxy

Supports multiple platforms, including windows, linux, mac, android, ios, embedded linux, etc

Chapter 2 Function chart



Chapter 3 Configuration

3.1 Configuration Templates

```
<?xml version="1.0" encoding="utf-8"?>
<config>
  <log_enable>1</log_enable>
  <log_level>1</log_level>
  <proxy_device>
    <server_ip></server_ip>
    <http_enable>1</http_enable>
    <http_port>10000</http_port>
    <https_enable>0</https_enable>
    <https_port>1443</https_port>
    <cert_file>ssl.ca</cert_file>
    <key_file>ssl.key</key_file>
    <http_max_users>16</http_max_users>
    <onvif_device>
      <device_ip>192.168.3.200</device_ip>
      <onvif_port>80</onvif_port>
      <username>admin</username>
      <password>admin</password>
      <https>0</https>
    </onvif_device>
    <scope>onvif://www.onvif.org/location/country/china</scope>
    <scope>onvif://www.onvif.org/name/IP-Camera</scope>
    <scope>onvif://www.onvif.org/hardware/HI3518C</scope>
    <scope>onvif://www.onvif.org/Profile/Streaming</scope>
  </proxy_device>
  <proxy_device>
    <server_ip></server_ip>
    <http_enable>1</http_enable>
    <http_port>10001</http_port>
    <https_enable>0</https_enable>
    <https_port>1443</https_port>
    <cert_file>ssl.ca</cert_file>
    <key_file>ssl.key</key_file>
    <http_max_users>16</http_max_users>
    <onvif_device>
```

```
<device_ip>192.168.3.36</device_ip>
<onvif_port>8000</onvif_port>
<username>admin</username>
<password>admin</password>
<https>0</https>
</onvif_device>
<scope>onvif://www.onvif.org/location/country/china</scope>
<scope>onvif://www.onvif.org/name/IP-Camera</scope>
<scope>onvif://www.onvif.org/hardware/HI3518C</scope>
<scope>onvif://www.onvif.org/Profile/Streaming</scope>
</proxy_device>
</config>
```

3.2 Configuring Node Description

<log_enable>

Indicates whether logging is enabled, 0-disable, 1-enable.

<log_level>

The log level:

TRACE	0
DEBUG	1
INFO	2
WARN	3
ERROR	4
FATAL	5

<proxy_device> : proxy device, each node represents a proxy device

Note : The demo version maximum support two proxy devices, the release version without limits.

<server_ip>

Specify the IP address of the onvif server, if not specified, the onvif server will listen to all network interfaces.

<http_enable>

Indicates whether enable http connection, 0-disable, 1-enable

<http_port>

Specify the http service port, providing onvif web service on this port, the default is 8000.

<https_enable>

Indicates whether enable https connection, 0-disable, 1-enable

<https_port>

Specify the https service port, providing onvif web service on this port, the default is 8443.

<cert_file>

If HTTPS is enabled, specify the SSL certificate file

<key_file>

If HTTPS is enabled, specify the SSL key file

<http_max_users>

Maximum supported HTTP clients numbers, if both HTTP and HTTPS are enabled, they can support $2 * \text{http_max_users}$ connections in total.

The maximum number of HTTP connections is limited by the FD_SETSIZE size of the platform. The default value is 200 for Windows platforms and 1024 for Linux platforms.

<onvif_device> : Onvif camera configuration information

<device_ip>

onvif device ip

<onvif_port>

onvif device onvif port

<username>

onvif device login username

<password>

onvif device login password

<https>

https connection flag, 1-enable,0-disable

<scope>

Contains a list of URI defining the device scopes.

All ONVIF defined scope URIs have the following format:

onvif://www.onvif.org/<path>

A device may have other scope URIs. These URIs are not restricted to ONVIF defined scopes.

A device shall include at least one fixed entry (defined by the device vendor) of the profile, hardware and name categories respectively in the scopes list. A device may include any other additional scope attributes in the scopes list.

A device might include an arbitrary number of scopes in its scope list. This implies that one unit might for example define several different location scopes. A probe is matched against all scopes in the list.

Chapter 4 Run Onvif Proxy

The onvif proxy is a console application.

Windows: to run the onvif proxy, simply type "onvifproxy".

Linux: to run the onvif proxy, type "./start.sh", on linux platform, it run as daemon by default.

Note : The demo version supports up to 4 rtsp streams and proxies 2 onvif devices.

The release version supports up to 100 rtsp streams.

The release version, there are no restrictions on proxy onvif devices.