

User manual

(Onvif Proxy)

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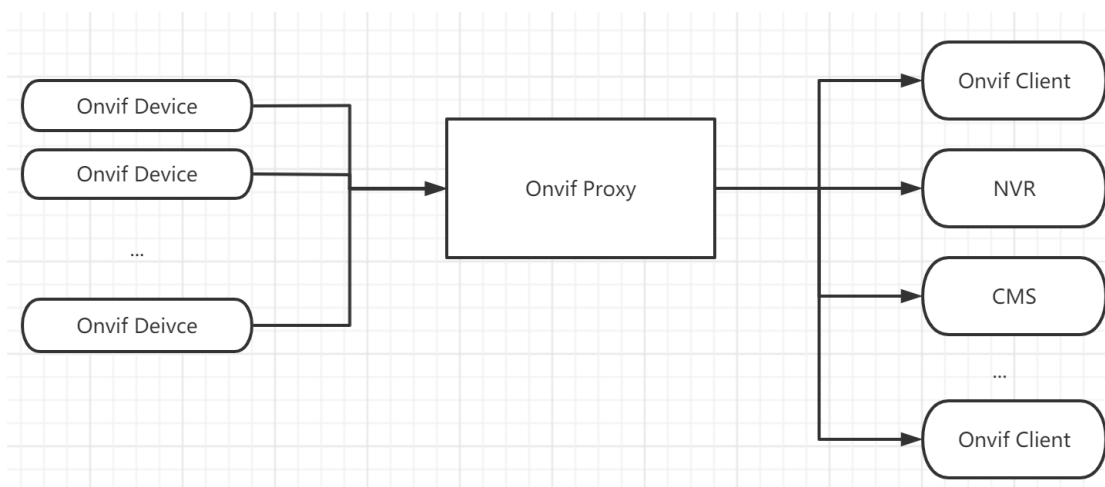
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Chapter 1 Key features

- 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>
    <ipv6_enable>1</ipv6_enable>
    <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>
    <Manufacturer></Manufacturer>
    <FirmwareVersion></FirmwareVersion>
    <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>

Whether enable the log function, 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>

Whether enable http server, 0-disable, 1-enable.

<http_port>

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

Note: On Linux systems, ports below 1024 are reserved by the system and require root privileges to be used.

<https_enable>

Whether enable https server, 0-disable, 1-enable.

<https_port>

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

Note: On Linux systems, ports below 1024 are reserved by the system and require root privileges to be used.

<cert_file>

If HTTPS is enabled, specify the SSL certificate file.

<key_file>

If HTTPS is enabled, specify the SSL key file.

Note: The certificate file ssl.ca and key file ssl.key provided by default are self signed local hosts certificates, only for testing purposes (browsers may pop up untrusted certificate warnings), and cannot be used in formal deployment environments.

<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.

<ipv6_enable>

Indicates whether IPv6 is enabled, 0-disable, 1-enable.

Note: If the device does not specify a server ip in **<server_ip>** and the **<ipv6_enable>** is 1, and the device has an IPv6 address, the client can connect to the device through the IPv6 address.

<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

<Manufacturer>

Set the device manufacturer, if not configured, use the original values of the proxy device.

<FirmwareVersion>

Set the device firmwareversion, if not configured, use the original values of the proxy device.

<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 deamon 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.