# User manual

(Onvif Server)

## Declaration

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www.happytimesoft.com

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# Chapter 1 Files Description

Windows version contains the following files:

File name	Description			
config.xml	The onvif server configuration file			
happytime-rtsp-server	Happytime rtsp server. It can stream several kinds of media file			
OnvifServer.exe	onvif server executable file			
runme.bat	A batch file, run rtspserver and onvif server			
snapshot.jpg	The default snapshot file, for onvif snapshot interface			
User manual.pdf	This manual			
libeay32.dll	Openssl dynamic library			
ssleay32.dll	Openssl dynamic library			
ssl.ca	Openssl connection certificate			
ssl.key	Openssl connection private key			

#### Linux version contains the following files:

File name	Description				
config.xml	The onvif server configuration file				
happytime-rtsp-server	Happytime rtsp server. It can stream several kinds of media file				
onvifserver	onvif server executable file				
runme.sh	A script file, run rtspserver and onvif server				
snapshot.jpg	The default snapshot file, for onvif snapshot interface				
User manual.pdf	This manual				
ssl.ca	Openssl connection certificate				
ssl.key	Openssl connection private key				

### Chapter 2 Configuration

#### 2.1 Configuration Templates

```
<?xml version="1.0" encoding="utf-8"?>
<config>
    <server_ip></server_ip>
    <server port>8000</server port>
    <a href="https"></a> enable>0</a>
    <need_auth>0</need_auth>
    enable>1
    <information>
        <Manufacturer>Happytimesoft</Manufacturer>
        <Model>IP Camera</Model>
        <FirmwareVersion>2.4/FirmwareVersion>
        <SerialNumber>123456</SerialNumber>
        <HardwareId>1.0</HardwareId>
    </information>
    <user>
        <username>admin</username>
        <password>admin</password>
        <userlevel>Administrator</userlevel>
    </user>
    <user>
        <username>test</username>
        <password>123456</password>
        <userlevel>User</userlevel>
    </user>
    profile>
        <video source>
             <width>1280</width>
             <height>720</height>
        </video_source>
        <video encoder>
             <width>160</width>
             <height>128</height>
             <quality>4</quality>
             <session timeout>10</session timeout>
```

```
<framerate>25</framerate>
         <encoding_interval>50</encoding_interval>
         <br/>
<br/>
bitrate limit>2048</br>
/bitrate limit>
         <encoding>H264</encoding>
         <h264>
              <gov_length>50</gov_length>
              <h264_profile>Main</h264_profile>
         </h264>
    </video encoder>
    <audio_source></audio_source>
    <audio encoder>
         <session_timeout>10</session_timeout>
         <sample_rate>8</sample_rate>
         <br/>
<br/>
bitrate>64</bitrate>
         <encoding>G711</encoding>
    </audio encoder>
    <stream uri>rtsp://192.168.3.100/scr.265</stream uri>
</profile>
profile>
    <video source>
         <width>1280</width>
         <height>720</height>
    </video source>
    <video_encoder>
         <width>640</width>
         <height>480</height>
         <quality>4</quality>
         <session timeout>10</session timeout>
         <framerate>25</framerate>
         <encoding_interval>50</encoding_interval>
         <br/>
<br/>
bitrate limit>2048</br>
/bitrate limit>
         <encoding>H264</encoding>
         <h264>
              <gov_length>50</gov_length>
              <h264 profile>Main</h264 profile>
         </h264>
    </video encoder>
    <audio_source></audio_source>
```

```
<audio encoder>
              <session timeout>10</session timeout>
              <sample rate>8</sample rate>
              <br/>
<br/>
ditrate>64</bitrate>
              <encoding>G711</encoding>
         </audio_encoder>
         <stream uri></stream uri>
    </profile>
    <scope>onvif://www.onvif.org/Profile/Streaming</scope>
    <scope>onvif://www.onvif.org/Profile/G</scope>
    <scope>onvif://www.onvif.org/location/country/china</scope>
    <scope>onvif://www.onvif.org/type/video_encoder</scope>
    <scope>onvif://www.onvif.org/name/IP-Camera</scope>
    <scope>onvif://www.onvif.org/hardware/HI3518C</scope>
    <event>
         <renew interval>60</renew interval>
         <simulate enable>1</simulate enable>
         <simulate interval>30</simulate interval>
    </event>
</config>
```

#### 2.2 Configuring Node Description

#### <server ip>

Specify the IP address onvif server bindings, if not specified, the onvif server will bind to the default routing interface IP address.

#### <server\_port>

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

#### <https\_enable>

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

#### <need\_auth>

Indicates whether authentication is required, 0 don't require, 1 require.

#### <log\_enable>

Indicates whether logging is enabled, 0 is not enabled, 1 enable.

<information>: Config the ONVIF device basic information

#### <Manufacturer>

The manufactor of the device

#### <Model>

The device model

#### <FirmwareVersion>

The firmware version in the device

#### <SerialNumber>

The serial number of the device

#### <HardwareId>

The hardware ID of the device

<user> : Contains a list of the onvif users, it can configure multiple nodes

#### <username>

Username string

#### <password>

Password string

#### <userlevel>

User level string, The following values can be configured:

Administrator

**Operator** 

User

**Anonymous** 

< A media profile maps a video and/or audio source to a video and/or an audio
encoder, configurations.</pre>

<video\_source> : If the media profile contains a video, the video source configuration

#### <width>

The video source width

#### <height>

The video source height

<video\_encoder>: If the media profile contains a video, the video encoder configuration

#### <width>

Encoded video width

#### <height>

Encoded video height

#### <quality>

Relative value for the video quantizers and the quality of the video. A high value within supported quality range means higher quality

#### <session\_timeout>

The rtsp session timeout for the related video stream

#### <framerate>

Maximum output framerate in fps

#### <encoding\_interval>

Interval at which images are encoded and transmitted. (A value of 1 means that every frame is encoded, a value of 2 means that every 2nd frame is encoded ...)

#### <br/> <br/> dirate limit>

The maximum output bitrate in kbps

#### <encoding>

Used video codec, either JPEG, MPEG4, H264 or H265

#### <h264>: Configure H.264 related parameters

#### <gov length>

Group of Video frames length. Determines typically the interval in which the I-Frames will be coded. An entry of 1 indicates I-Frames are continuously generated. An entry of 2 indicates that every 2nd image is an I-Frame, and 3 only every 3rd frame, etc. The frames in between are coded as P or B Frames

#### <h264\_profile>

The H.264 profile, either Baseline, Main, Extended or High

#### <h265>: Configure H.265 related parameters

#### <gov length>

Group of Video frames length. Determines typically the interval in which the I-Frames will be coded. An entry of 1 indicates I-Frames are continuously generated. An entry of 2 indicates that every 2nd image is an I-Frame, and 3 only every 3rd frame, etc. The frames in between are coded as P or B Frames

#### <h265\_profile>

The H.265 profile, either Main or Main10

#### <mpeq4>: Configure MPEG4 related parameters

#### <gov\_length>

Determines the interval in which the I-Frames will be coded. An entry of 1 indicates I-Frames are continuously generated. An entry of 2 indicates that every 2nd image is an I-Frame, and 3 only every 3rd frame, etc. The frames in between are coded as P or B Frames

#### <mpeg4\_profile>

The Mpeg4 profile, either simple profile (SP) or advanced simple profile (ASP)

<audio\_source>: If the media profile contains a audio, the audio source configuration <audio\_encoder>:If the media profile contains a audio, the audio encoder configuration

#### <session timeout>

The rtsp session timeout for the related audio stream

#### <sample\_rate>

The output sample rate in kHz

#### <br/>bitrate>

The output bitrate in kbps

#### <encoding>

Audio codec used for encoding the audio input (either G711, G726 or AAC)

#### <stream\_uri>

The profile RTSP stream address, if not specify, it default to rtsp://yourip//test.264

#### <scope>

Contains a list of URI definining the device scopes

<event> : Event Configuration parameters

<renew\_interval>

Event renew interval

<simulate\_enable>

Specifies whether to generate simulation event

<simulate\_interval>

Simulation event production interval in seconds

## Chapter 3 Run Onvif Server

Windows platform:

Run runme.bat, it will run rtspserver as RTSP server and onvif server

Linux platform:

Run runme.sh, it will run rtspserver as RTSP server and onvif server