

# **QCAP SDK Client with EasyDarwin Development Guide**

## **◆ Overview**

In this document, we will demo and guide developer how to implement QCAP SDK of client function with EasyDarwin server.

## **◆ Interrelated Software**

**EasyDarwin-Windows-v7.0.1**

# ◆ Downloads Address:

<http://www.easydarwin.org/article/doc/EasyDarwin/36.html#6>



EasyDarwin 编译部署流程 x

www.easydarwin.org/article/doc/EasyDarwin/36.html#6

EasyDarwin 首页 EasyDarwin EasyDarwin知识库 视频广场 EasyDSS 在线文档 支持我们 交流社区 搜索

在线文档

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EasyDarwin

- EasyDarwin视频广场部署方法
- EasyDarwin常见问题FAQ
- EasyDarwin编译部署流程

EasyCamera

- 摄像机开发指南

EasyPlayer

- EasyPlayer常见问题FAQ

1 Windows上编译运行EasyDarwin

- 一、下载
- 二、Windows编译
- 三、调试
- 四、调用接口
- 五、部署运行
- 六、Windows服务

2 Linux上编译运行EasyDarwin

- 一、下载
- 二、Linux编译
- 三、调试运行

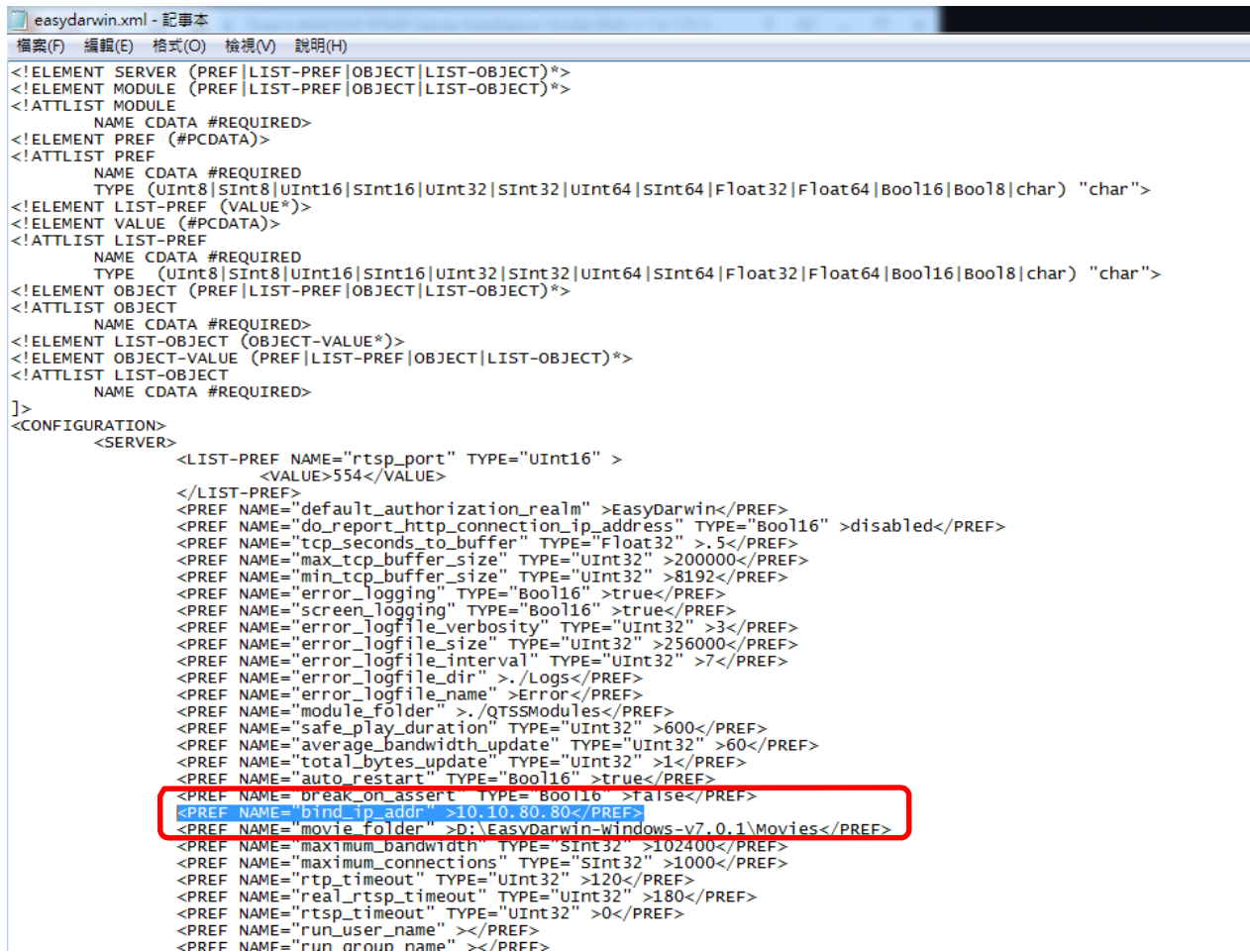
一、下载

从Github上下载我们的EasyDarwin代码: <https://github.com/EasyDarwin/EasyDarwin>  
用svn或者git客户端将代码Clone到本地:  
<https://github.com/EasyDarwin/EasyDarwin.git>  
<git@github.com:EasyDarwin/EasyDarwin.git>

请不要再问关于这一步怎么下载源码的问题了, 不会下载可以搜, 如果这个都下载不了, 那你自己玩吧~

# QCAP SDK Client with EasyDarwin Development Application

1. Modify the default IP address on the .xml.

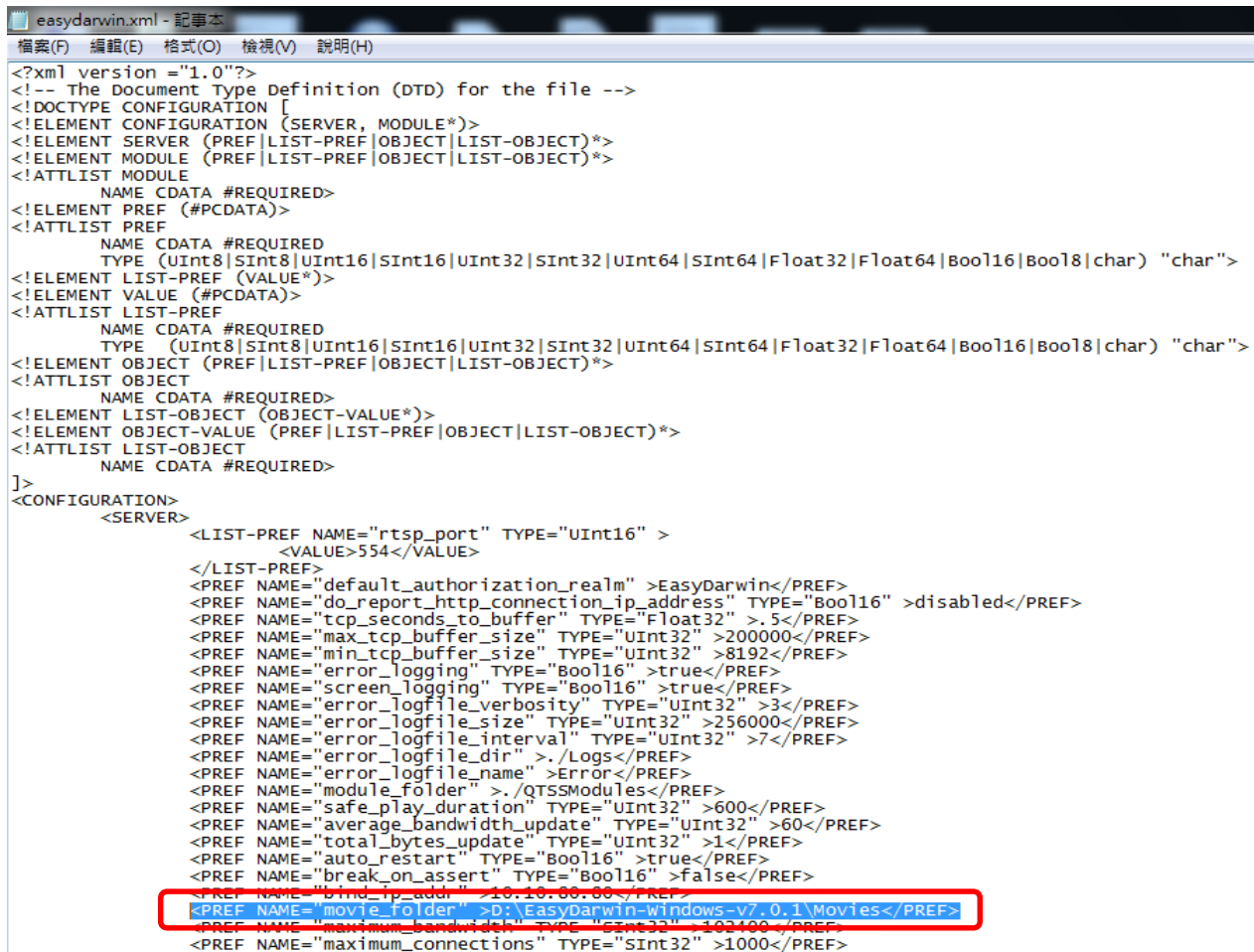


```
easydarwin.xml - 記事本
檔案(F) 編輯(E) 格式(O) 檢視(V) 說明(H)

<!ELEMENT SERVER (PREF|LIST-PREF|OBJECT|LIST-OBJECT)*>
<!ELEMENT MODULE (PREF|LIST-PREF|OBJECT|LIST-OBJECT)*>
<!-- ATTLIST MODULE
  NAME CDATA #REQUIRED
-->
<!ELEMENT PREF (#PCDATA)>
<!-- ATTLIST PREF
  NAME CDATA #REQUIRED
  TYPE (UInt8|Sint8|UInt16|Sint16|UInt32|Sint32|UInt64|Sint64|Float32|Float64|Bool16|Bool18|char) "char">
-->
<!-- ELEMENT LIST-PREF (VALUE*)
-->
<!-- ELEMENT VALUE (#PCDATA)
-->
<!-- ATTLIST LIST-PREF
  NAME CDATA #REQUIRED
  TYPE (UInt8|Sint8|UInt16|Sint16|UInt32|Sint32|UInt64|Sint64|Float32|Float64|Bool16|Bool18|char) "char">
-->
<!-- ELEMENT OBJECT (PREF|LIST-PREF|OBJECT|LIST-OBJECT)*
-->
<!-- ATTLIST OBJECT
  NAME CDATA #REQUIRED
-->
<!-- ELEMENT LIST-OBJECT (OBJECT-VALUE*)
-->
<!-- ELEMENT OBJECT-VALUE (PREF|LIST-PREF|OBJECT|LIST-OBJECT)*
-->
<!-- ATTLIST LIST-OBJECT
  NAME CDATA #REQUIRED
-->
-->
<CONFIGURATION>
  <SERVER>
    <LIST-PREF NAME="rtsp_port" TYPE="UInt16" >
      <VALUE>554</VALUE>
    </LIST-PREF>
    <PREF NAME="default_authorization_realm" >EasyDarwin</PREF>
    <PREF NAME="do_report_http_connection_ip_address" TYPE="Bool16" >disabled</PREF>
    <PREF NAME="tcp_seconds_to_buffer" TYPE="Float32" >.5</PREF>
    <PREF NAME="max_tcp_buffer_size" TYPE="UInt32" >200000</PREF>
    <PREF NAME="min_tcp_buffer_size" TYPE="UInt32" >8192</PREF>
    <PREF NAME="error_logging" TYPE="Bool16" >true</PREF>
    <PREF NAME="screen_logging" TYPE="Bool16" >true</PREF>
    <PREF NAME="error_logfile_verbosity" TYPE="UInt32" >3</PREF>
    <PREF NAME="error_logfile_size" TYPE="UInt32" >256000</PREF>
    <PREF NAME="error_logfile_interval" TYPE="UInt32" >7</PREF>
    <PREF NAME="error_logfile_dir" >./Logs</PREF>
    <PREF NAME="error_logfile_name" >Error</PREF>
    <PREF NAME="module_folder" >./QTSSModules</PREF>
    <PREF NAME="safe_play_duration" TYPE="UInt32" >600</PREF>
    <PREF NAME="average_bandwidth_update" TYPE="UInt32" >60</PREF>
    <PREF NAME="total_bytes_update" TYPE="UInt32" >1</PREF>
    <PREF NAME="auto_restart" TYPE="Bool16" >true</PREF>
    <PREF NAME="break_on_assert" TYPE="Bool16" >false</PREF>
    <PREF NAME="bind_ip_addr" >10.10.80.80</PREF>
    <PREF NAME="movie_folder" >D:\EasyDarwin-windows-v7.0.1\Movies</PREF>
    <PREF NAME="maximum_bandwidth" TYPE="Sint32" >102400</PREF>
    <PREF NAME="maximum_connections" TYPE="Sint32" >1000</PREF>
    <PREF NAME="rtp_timeout" TYPE="UInt32" >120</PREF>
    <PREF NAME="real_rtsp_timeout" TYPE="UInt32" >180</PREF>
    <PREF NAME="rtsp_timeout" TYPE="UInt32" >0</PREF>
    <PREF NAME="run_user_name" ></PREF>
    <PREF NAME="run_group_name" ></PREF>
```

# QCAP SDK Client with EasyDarwin Development Application

2. Modify the default movie folder address on the .xml.

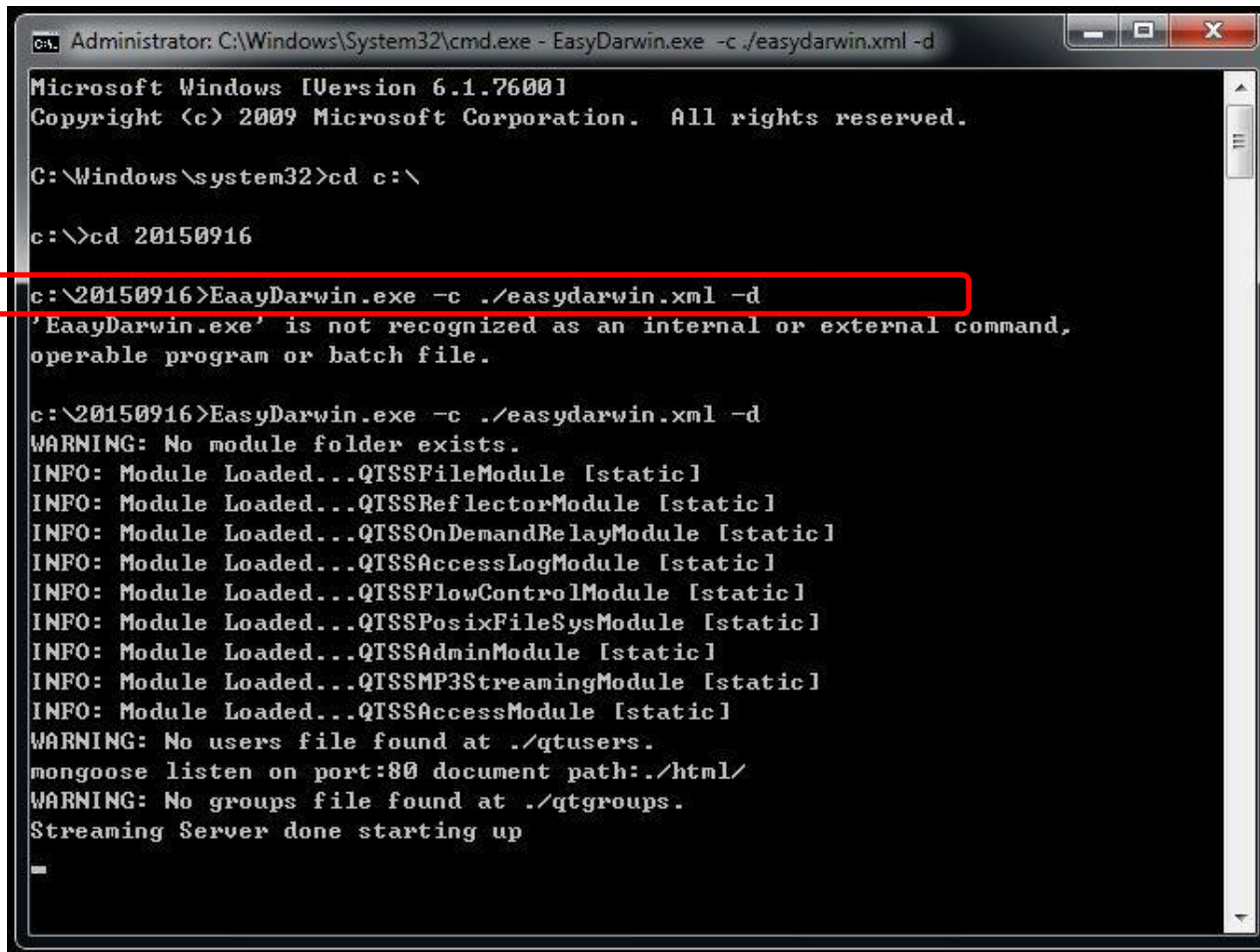


```
easydarwin.xml - 記事本
檔案(F) 編輯(E) 格式(O) 檢視(V) 說明(H)

<?xml version="1.0"?>
<!-- The Document Type Definition (DTD) for the file -->
<!DOCTYPE CONFIGURATION [
<!ELEMENT CONFIGURATION (SERVER, MODULE*)>
<!ELEMENT SERVER (PREF|LIST-PREF|OBJECT|LIST-OBJECT)*>
<!ELEMENT MODULE (PREF|LIST-PREF|OBJECT|LIST-OBJECT)*>
<!ATTLIST MODULE
  NAME CDATA #REQUIRED>
<!ELEMENT PREF (#PCDATA)>
<!ATTLIST PREF
  NAME CDATA #REQUIRED
  TYPE (UInt8|Sint8|UInt16|Sint16|UInt32|Sint32|UInt64|Sint64|Float32|Float64|Bool16|Bool18|char) "char">
<!ELEMENT LIST-PREF (VALUE*)>
<!ELEMENT VALUE (#PCDATA)>
<!ATTLIST LIST-PREF
  NAME CDATA #REQUIRED
  TYPE (UInt8|Sint8|UInt16|Sint16|UInt32|Sint32|UInt64|Sint64|Float32|Float64|Bool16|Bool18|char) "char">
<!ELEMENT OBJECT (PREF|LIST-PREF|OBJECT|LIST-OBJECT)*>
<!ATTLIST OBJECT
  NAME CDATA #REQUIRED>
<!ELEMENT LIST-OBJECT (OBJECT-VALUE*)>
<!ELEMENT OBJECT-VALUE (PREF|LIST-PREF|OBJECT|LIST-OBJECT)*>
<!ATTLIST LIST-OBJECT
  NAME CDATA #REQUIRED>
]>
<CONFIGURATION>
  <SERVER>
    <LIST-PREF NAME="rtsp_port" TYPE="UInt16" >
      <VALUE>554</VALUE>
    </LIST-PREF>
    <PREF NAME="default_authorization_realm" >EasyDarwin</PREF>
    <PREF NAME="do_report_http_connection_ip_address" TYPE="Bool16" >disabled</PREF>
    <PREF NAME="tcp_seconds_to_buffer" TYPE="Float32" >.5</PREF>
    <PREF NAME="max_tcp_buffer_size" TYPE="UInt32" >200000</PREF>
    <PREF NAME="min_tcp_buffer_size" TYPE="UInt32" >8192</PREF>
    <PREF NAME="error_logging" TYPE="Bool16" >true</PREF>
    <PREF NAME="screen_logging" TYPE="Bool16" >true</PREF>
    <PREF NAME="error_logfile_verbosity" TYPE="UInt32" >3</PREF>
    <PREF NAME="error_logfile_size" TYPE="UInt32" >256000</PREF>
    <PREF NAME="error_logfile_interval" TYPE="UInt32" >7</PREF>
    <PREF NAME="error_logfile_dir" >./Logs</PREF>
    <PREF NAME="error_logfile_name" >Error</PREF>
    <PREF NAME="module_folder" >./QTSSModules</PREF>
    <PREF NAME="safe_play_duration" TYPE="UInt32" >600</PREF>
    <PREF NAME="average_bandwidth_update" TYPE="UInt32" >60</PREF>
    <PREF NAME="total_bytes_update" TYPE="UInt32" >1</PREF>
    <PREF NAME="auto_restart" TYPE="Bool16" >true</PREF>
    <PREF NAME="break_on_assert" TYPE="Bool16" >false</PREF>
    <PREF NAME="bind_ip_addr" >10.10.80.80</PREF>
    <PREF NAME="movie_folder" >D:\Easydarwin-windows-v7.0.1\Movies</PREF>
    <PREF NAME="maximum_bandwidth" TYPE="Sint32" >102400</PREF>
    <PREF NAME="maximum_connections" TYPE="Sint32" >1000</PREF>
```

# QCAP SDK Client with EasyDarwin Development Application

3. Use CMD to create RTMP live streaming.



```
Administrator: C:\Windows\System32\cmd.exe - EasyDarwin.exe -c ./easydarwin.xml -d
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd c:\

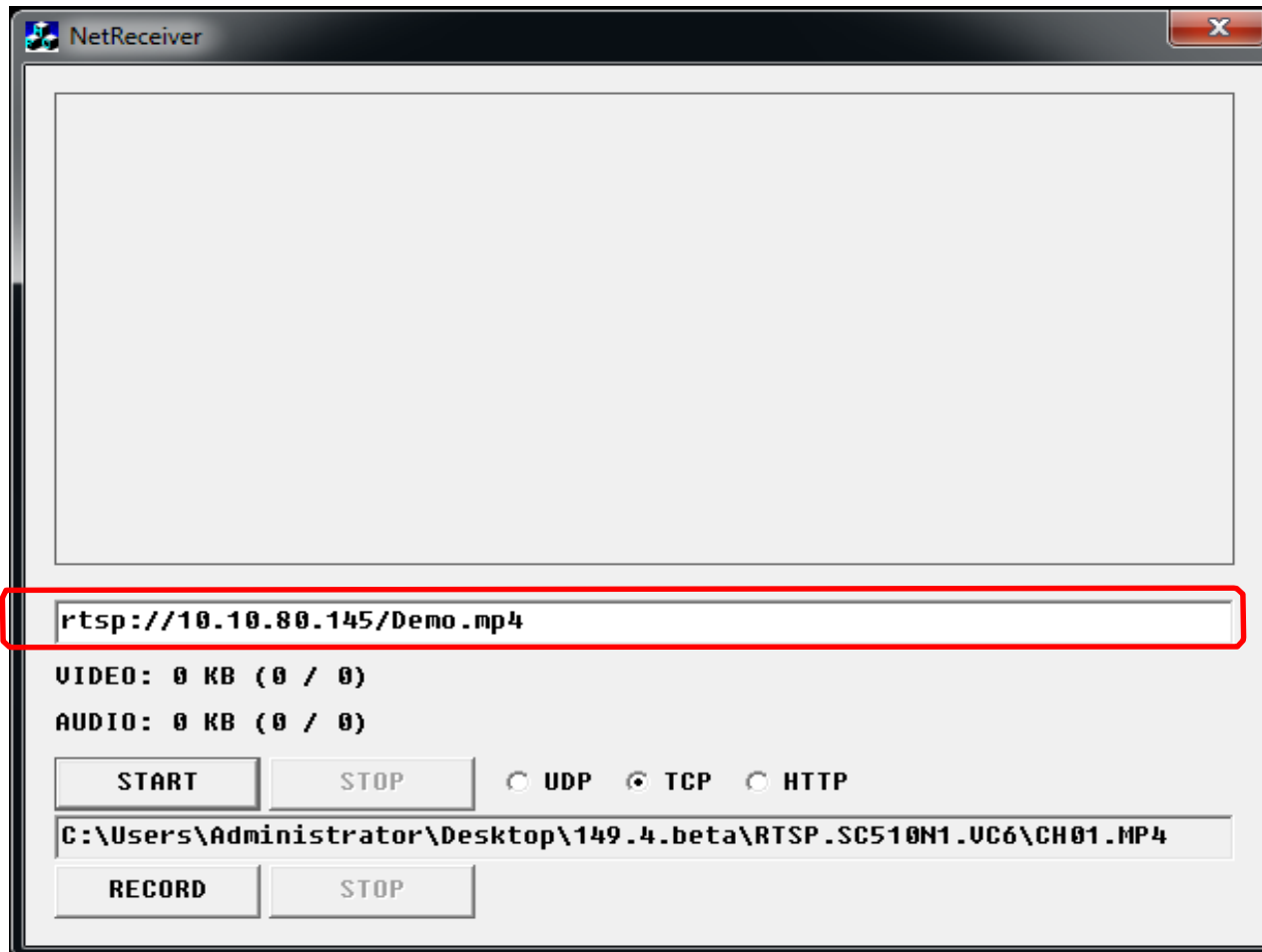
c:\>cd 20150916

c:\20150916>EaayDarwin.exe -c ./easydarwin.xml -d
'EaayDarwin.exe' is not recognized as an internal or external command,
operable program or batch file.

c:\20150916>EasyDarwin.exe -c ./easydarwin.xml -d
WARNING: No module folder exists.
INFO: Module Loaded...QTSSFileModule [static]
INFO: Module Loaded...QTSSReflectorModule [static]
INFO: Module Loaded...QTSSOnDemandRelayModule [static]
INFO: Module Loaded...QTSSAccessLogModule [static]
INFO: Module Loaded...QTSSFlowControlModule [static]
INFO: Module Loaded...QTSSPosixFileSysModule [static]
INFO: Module Loaded...QTSSAdminModule [static]
INFO: Module Loaded...QTSSMP3StreamingModule [static]
INFO: Module Loaded...QTSSAccessModule [static]
WARNING: No users file found at ./qtusers.
mongoose listen on port:80 document path:./html/
WARNING: No groups file found at ./qtgroups.
Streaming Server done starting up
```

# QCAP SDK Client with EasyDarwin Development Application

4. Add RTSP streaming URL on the NetBroadcaster.exe, then click [ START ] to create client function.



# QCAP SDK Client with EasyDarwin Development Application

5. User can see RTSP streaming of EasyDarwin in Client AP.

