

5.2

ekinex
CONTROL YOUR LIVING SPACE

Video surveillance Integration Manual



DELÉGO SERVER Visualisation webserver

EK-DEL-SRV01 / EK-DEL-SRV01-M

Index

1 Introduction.....	3
1.1 Scope of this manual.....	3
1.2 Conventions.....	3
1.3 Safety information.....	3
1.4 Warnings.....	4
1.5 Copyright.....	4
1.6 Open Source Licenses.....	4
1.7 More information.....	5
2 IP Camera streaming.....	6
3 Configuration.....	7
3.1 New IP camera.....	7
3.2 General properties.....	7
3.3 Specific formats.....	10
3.3.1 AXIS.....	10
3.3.2 MOBOTIX.....	10
3.3.3 HIKVISION.....	10
4 Visualization.....	11
4.1 Delégo mobile app.....	11
4.2 Web browser.....	11
5 Revision history.....	12

1 Introduction

1.1 Scope of this manual

This document contains all the information for configuring and visualising IP cameras inside the visualisation of DELÉGO SERVER.

The present user manual is part of the suite of application manuals dedicated to the DELÉGO SERVER, available on the section dedicated to this product in the EKINEX website. Before reading this document, it is recommended to consult the following application manuals:

REF	DOCUMENT	DESCRIPTION
[D1]	DOCUMENTATION PLAN	Overview of the application manuals of DELÉGO SERVER
[D2]	GENERAL FUNCTIONS - APPLICATION USER MANUAL	General installation manual of the webserver

These documents are available for download in the area of the EKINEX website dedicated to the webserver.

1.2 Conventions

The following conventions are used in this manual:

[KEY]	The keyboard keys that the installer must press are shown in square brackets
<i>Courier</i>	Software messages generated by the DELÉGO SERVER configuration software are reported in the “courier” font
<i>Function name</i>	Names of buttons, table fields or other graphic elements of the user interface of the DELÉGO SERVER configuration software are shown in italics
	Information note
	Important note that requires particular attention

1.3 Safety information

DELÉGO SERVER is a product intended for trained and specialized personnel only; anyone who interacts with the device must first read this documentation, especially this safety information. This document supplements and does not replace any legislation or legal directives on safety.

The device has been developed following the safety regulations currently in force; however, it is not possible to exclude with certainty possible damage or interactions with other devices during its operation. The device complies with EMC guidelines and harmonized European standards; any modifications to the device may affect EMC compatibility.

The supply voltage must be strictly within the range indicated in the GENERAL FUNCTIONS application manual and on the device; risk of fire or explosion if powered outside this range. The CE declaration of conformity of the device can be requested from EKINEX®, at the references on the site www.ekinex-delego.com.



In compliance with Directive 2002/96/EC the DELÉGO SERVER electronic device must be disposed of in the appropriate facilities and not in the collection of solid urban waste.

1.4 Warnings

- This application manual is aimed at installers, system integrators and designers.
- The assembly, electrical connection, configuration and commissioning of the appliance can only be carried out by specialized personnel in compliance with the applicable technical standards and the laws in force in the respective countries
- Opening the appliance case causes the immediate interruption of the warranty period
- In the event of tampering, compliance with the essential requirements of the applicable directives for which the appliance has been certified is no longer guaranteed.
- EKINEX defective appliances must be returned to the manufacturer at the following address:
Ekinex S.p.A. Via Novara 37, 28010 Vaprio d'Agogna (NO)

1.5 Copyright

© Ekinex S.p.A. 2025

This application manual, the DELÉGO SERVER software and the DELÉGO iOS and Android apps are subject to copyright; all rights are reserved. Copying, reproduction, translation and/or modification, even partial, are expressly prohibited unless approved in writing by EKINEX®.

1.6 Open Source Licenses

DELÉGO SERVER contains open source software, such as the Linux operating system and its kernel. These software components are subject to various open-source licenses, including:

- GNU General Public License (GPL), <https://www.gnu.org/licenses/gpl-2.0.html>
- GNU Lesser General Public License (LGPL), <https://www.gnu.org/licenses/lgpl-2.0.en.html>

If you own a product, for a period of 3 years from the last production date, you can request from EKINEX the source code of the software components licensed under the GNU General Public License (GPL) or the GNU Lesser General Public License (LGPL), and use, distribute and modify them in accordance with the respective licenses.

EKINEX cannot be considered responsible in any way for the source code thus distributed, which is provided without guarantees. EKINEX cannot also be held responsible for any damage or consequence resulting from modifications (additions / removals) made to this software by third parties, unless specifically authorized.

1.7 More information

- For further information on the product, you can contact EKINEX technical support® to the e-mail address: support@EKINEX.com or consult the website www.EKINEX.com
- EKINEX® is a registered trademark of Ekinex S.p.A.
- KNX® ed ETS® are registered trademarks of KNX Association cvba, Brussels

The company reserves the right to make changes to this documentation without notice.

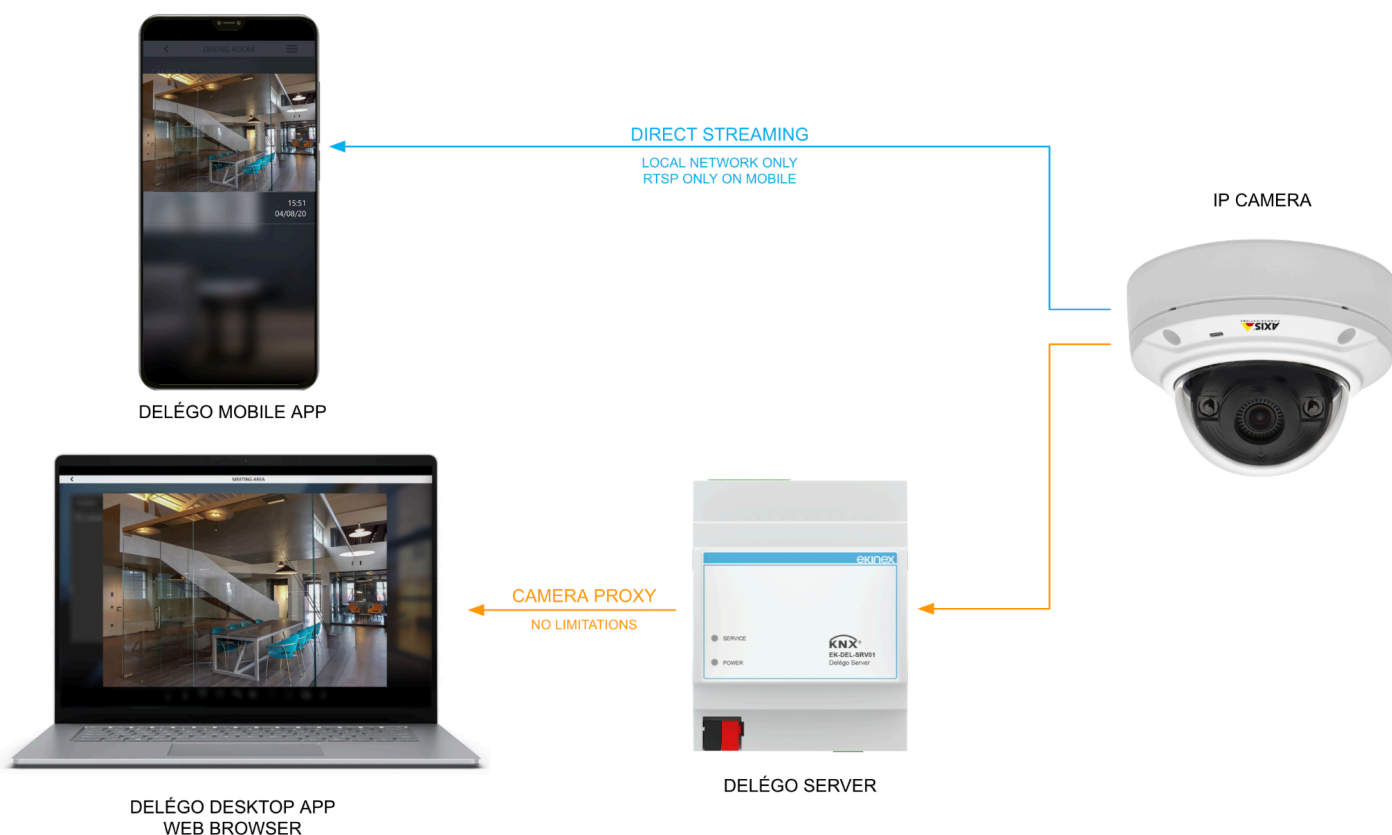
2 IP Camera streaming

It is possible to integrate in the visualisation of DELÉGO SERVER one or more video streams from compatible IP cameras. The supported transmission protocols are:

- (M)JPG
- RTSP

The streaming from the IP camera to the client (DELÉGO app or web browser) can be actuated in two different ways:

DIRECT STREAMING (DEFAULT)	The video stream is retrieved directly by the app from the IP camera, without being elaborate by the webserver
IP CAMERA PROXY	The video stream is retrieved by the webserver from the camera, elaborated and re-streamed in the MJPG format



The advantages given by the IP CAMERA PROXY are:

- The IP cameras can be seen also remotely through the Ekinex cloud

- The original RTSP video streams can be seen also in the desktop version of the DELÉGO app or in a web browser, because the proxy converts it into the MJPG format (this limitation is not present in the mobile version of the app)

The side effects are:

- an higher CPU load on the webserver, each time a video stream is retrieved
- a limitation in the resolution of the video streaming due to the conversion

It is possible to decide if to use the camera proxy or not for each single configured IP camera, as better described in the next chapter.

3 Configuration

3.1 New IP camera

In order to declare a new IP camera, select the menu item

INTEGRATIONS > SECURITY > IP CAMERA

and press the [+] button.

3.2 General properties

Once an IP camera has been created, it is first necessary to assign an identifying name and choose the type from those available: standard templates are available for the generic management of the following transmission protocols:

- JPG / Motion JPEG
- RTSP

and specific templates for some brands of cameras / NVRs / DVRs:

- Axis
- Mobotix
- Hikvision
- Elvox

It is also necessary to specify in which environment to insert the camera, so that it can be correctly displayed in visualisation.

Once the template has been selected, a list of parameters is proposed which depends on the type of camera; the properties typically required to configure a camera are:

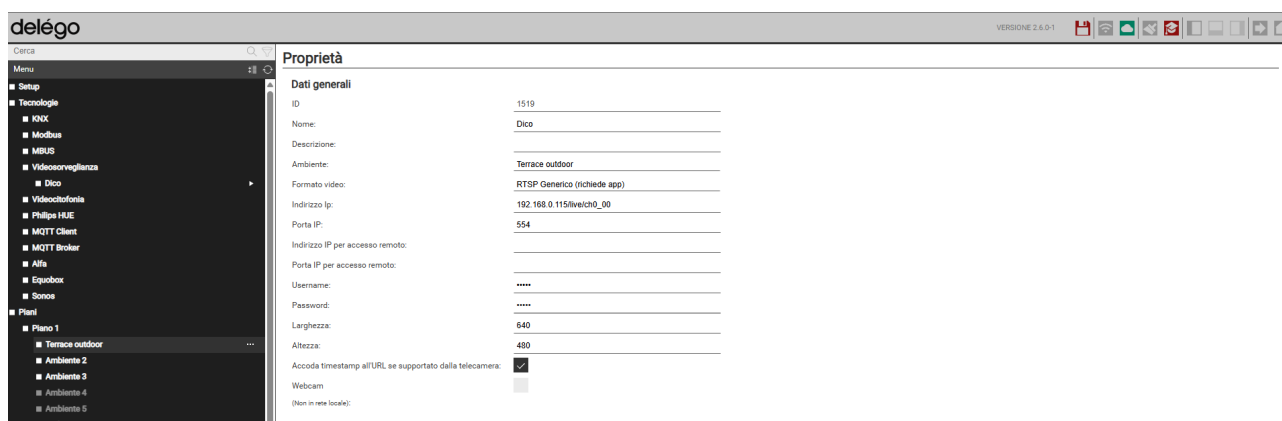
IP ADDRESS	IP address followed by the path to view the frame or stream, without port and protocol <i>It is: 192.168.0.10/image/current.jpg</i>
IP PORT	IP port on which the camera images are transmitted. Specify unless otherwise indicated by the camera: • 80 > HTTP protocol • 443 > HTTPS protocol • 554 > RTSP protocol
ENABLE CAMERA PROXY	When selected, the video for this camera is elaborated by the webserver, and not directly streamed to the client.
IP ADDRESS FOR REMOTE ACCESS	IP address (without route, port or protocol) to use for remote access. If not specified, DELÉGO automatically uses its public address. <i>Note: not required if the camera proxy is active.</i>
IP PORT FOR REMOTE ACCESS	IP port to use for remote access, if different from the local one <i>Note: not required if the camera proxy is active.</i>
PROTOCOL	Communication protocol, to be selected based on the camera settings

USERNAME PASSWORD	If provided by the template and the camera, credentials required to view the video stream
LENGTH HEIGHT	Specify the dimensions in pixels of the video box within the DELÉGO pages
MAXIMUM FPS	Specify the maximum number of frames, when in JPEG mode (no MJPG stream)
STREAMING TYPE	In the case of cameras based on the HTTP(S) protocol, specify whether the format is JPG (sequence of single frames) or MJPG (continuous streaming of frames)
WEBCAM	Specifies that the camera is not physically installed in the local network, and therefore its public address must always be used
ADD TIMESTAMP TO URL IF SUPPORTED BY THE CAMERA	If the camera supports it, this option (on by default) appends the current timestamp to the image URL. Some cameras are not compatible with this option, so you can deselect it in these cases.

Some additional properties, specific for particular video formats, are described in the following paragraphs.
Here is an example of a configuration of a DICO device for videosurveillance using the RTSP string:
rtsp://admin:admin@192.168.1.115:554/live/ch0_00.



If the camera proxy is active (and also the first time it is enabled), it is necessary to press the UPDATE CONF button after any change to the parameters..



3.3 Specific formats

3.3.1 AXIS

DELÉGO natively supports all AXIS camera and video server models; for further details on the AXIS product catalogue, please refer to the website <http://www.axis.com/it/index.htm>.

This video format provides the following specific parameters, in addition to those seen previously:

CHANNEL	Channel number to display; use this field only for video servers with more than one channel (in this case, a camera object must be created for each of the channels you intend to display)
RESOLUTION	Specify the resolution with which DELÉGO must request the video signal from the camera or video server. For a list of resolutions supported by the device it is necessary to consult the "SETUP" section of its web interface.

3.3.2 MOBOTIX

DELÉGO natively supports all MOBOTIX camera models; for further details on the MOBOTIX product catalogue, please refer to the website http://www.mobotix.com/ita_IT/.

This format does not include parameters other than the generic ones seen previously.

3.3.3 HIKVISION

DELÉGO natively supports all HIKVISION IP camera and DVR/NVR models that use RTSP streaming; for further details on the HIKVISION product catalogue, please refer to the website <http://www.hikvision.com/it/>.

This video format provides the following specific parameters, in addition to those seen previously:

CHANNEL	Specify the stream channel to display. Default: 1
FLOW	Specify whether you want to view the primary or secondary stream (where supported by the camera)

4 Visualization

Once a camera has been inserted into an environment, it is visible in the SECURITY category accessible both through navigation by floors and directly from the HOME.

By pressing the VIEW button next to the camera, a popup opens showing the video stream in real time.

4.1 Delégo mobile app

Within the app for IOS and ANDROID, when you select a camera from the view, the corresponding stream is shown full screen; by closing this window, you return to the supervision page from which the camera was opened. Installation of third-party apps is not required to view video streams.

4.2 Web browser

When browsing from a browser, it is only possible to view (M)JPG type streams; in this case, by selecting the camera, a popup opens in the center of the screen, with the corresponding streaming.

As previously explained, the RTSP format can only be viewed if the camera proxy is enabled.

5 Revision history

The following table contains the most relevant changes in the software releases, concerning the topics of this application manual:

Release	Changes	Date
2.8.0	Minor changes	15/04/2026
2.7.0	Added the camera proxy function	01/09/2025
2.6.1	Minor fixes, added example in section 2.1	10/06/2025
2.6.0	First revision of the document	02/04/2025



Before the software release 2.6 the application manuals of DELÉGO SERVER were organized differently. An exact correspondence with older versions of the manuals and the changelog could not be found for this reason.