

IA-N Analyse plugin

Install, enter the license key, manage camera places, set the alarm rules and plates, create the alarms in the VMS

IA-N plugin 1.4.0 ("IA-N Analyse") · Windows video server · English, French, German, Spanish or Italian

In the kit: INSTALLER.bat installs the plugin in one go (section 6), DESINSTALLER.bat rolls it back (section 16). The client of the VMS (Nx Witness, Nx Meta, DW Spectrum...) used in our tests is in English: on-screen terms are quoted exactly as shown. **New in 1.4.0.** Alarms sent to an alarm monitoring centre (section 12.2) and a one-button GDPR file for the site (section 18). **Since 1.3.0.** Fewer false alarms: stationary objects ignored (section 9). Plugin in 5 languages (section 7.7), 30-day free trial requested from the VMS (section 7.8) and automatic security updates (section 15.2), these three proven in real VMS servers.

1 In brief

- **What it is:** a module ("plugin") installed INSIDE the customer's VMS server. The VMS gives it the frames it already has; the plugin finds people, vehicles and animals in them, and sends bounding boxes and alarms back to the VMS. No box, no extra connection to the cameras.
- **Two tiers:** **Detection** (person / vehicle / animal bounding boxes) and **Premium** (Detection + intrusion, zone entry and exit, line crossing with direction, tailgating, loitering, dwell time (parking), crowd). **Plates option**, camera by camera.
- **Two analysis levels:** **Standard** (light, for most sites) and **Precision** (more reliable at a distance or at night, much more computing: keep it for servers with a GPU); Precision is bought for a number of cameras (e.g. 10 cameras including 2 in Precision).
- **One key per VMS server, 1 camera = 1 license place:** the key is entered **only once** in the VMS and covers N cameras, with no bundle or minimum. Never more than N cameras analyzed (section 7).
- **Everything is set in the VMS:** alarm rules (one page per rule), plates, excluded zones; the alarms are VMS events usable in the VMS rules (notification, recording, bookmark, output...).
- **License plate reading:** vehicles at walking pace (access points, barriers, car parks), not roads or highways.

56

Standard cameras on an RTX 3060 card (measured)

≈ 19 to 21

Standard cameras on the CPU alone (calculated)

–68%

CPU load of the VMS server with the card (measured in the VMS)

1 key

per VMS server, entered only once

Conditions: measured with plugin 1.1.1 (versions 1.2.0, 1.3.0 and 1.4.0 do not change the analysis), real videos, 5 frames analyzed per second per camera, NVIDIA RTX 3060 card (mid-range), ElectroniSafe test server (Core i7-7700K, 4 cores / 8 threads). "Calculated": derived from the measured cost per camera, not a measurement with that many cameras. Details and limits in section 4.4.

2 What the plugin does

Feature	What the user sees in the VMS	Tier
Bounding boxes	Box and object type (Person, Vehicle, Animal) live and in the archive; search in the "Objects" tab	Detection and Premium
Intrusion	Alarm "IA-N: Intrusion" when an object is in a zone (immediately, or after a delay)	Premium
Zone entry / exit	Alarms "IA-N: Zone entry" and "IA-N: Zone exit"	Premium
Line crossing	Alarm "IA-N: Line crossing", in a chosen direction or both	Premium
Tailgating	Alarm "IA-N: Tailgating": several crossings in the same direction within a short time (e.g. 2 people in 8 s behind a badge)	Premium
Loitering	Alarm "IA-N: Loitering" when someone stays too long in a zone (60 s recommended)	Premium
Dwell time	Alarm "IA-N: Dwell time exceeded (parking)", by object type (e.g. vehicle stationary for more than 5 min in a no-parking spot)	Premium
Crowd	Alarm "IA-N: Crowd": at least N people (or selected objects) together in a zone for a certain time	Premium
Plates	Alarm "IA-N: License plate read" and plate added to the vehicle in the "Objects" tab. Vehicles at walking pace (access points, barriers, car parks), not roads or highways	Option, per camera
Excluded zones	Nothing is analyzed behind an excluded zone (neighbors' windows, public road): no bounding box, no alarm, no plate	All tiers

Each feature only works if the license includes it. Otherwise nothing happens, but never silently: the VMS shows a clear message in the camera settings (example: "Premium option — ask your installer"). Zones can be drawn in advance: they apply as soon as the Premium license arrives.

What the plugin does not look for: who the person is. It only detects that there is a person, a vehicle or an animal. It connects to no camera and sends no image outside the VMS server.

3 What the VMS server needs

Item	Requirement	Status
Software	Tested with Nx Witness, Nx Meta and Wisenet WAVE 6.1.2.42921, and DW Spectrum 6.1.2.43047 (Windows Server 2022 and Ubuntu 22.04). Other version: ask ElectroniSafe before installing (section 5).	Validated: these 4 versions
System	Windows Server 2022 with desktop: proven with 1.4.0. Without desktop (Server Core): proven with versions 1.1.1 and 1.2.0 only. Windows 10 / 11 IoT: not proven yet.	Proven (with desktop)
CPU	Recent 64-bit x86. Keep about 30% of the CPU for the VMS itself (recording, clients). Calculation in section 4.	Measured on Core i7
Graphics card	Optional. NVIDIA card: measured (RTX 3060, section 4.4). Integrated GPU: offered if its driver accepts it; acceleration by the integrated GPU: not proven yet. Other cards: measure your server with the measurement kit provided.	Automatic switch to the CPU: proven
Memory	The Precision level uses more memory than the Standard level. Check after activation (Task Manager, "mediaserver" process).	—
VMS licenses	One VMS recording license per analyzed camera: without it, the VMS does not archive the camera and does not show the bounding boxes. The VMS only sends frames to the plugin if the camera is recorded or watched.	Observed
Network	No extra connection to the cameras. Outgoing HTTPS to licence.electronisafe.cloud (port 443) to activate and recheck the license, and for the free trial requested from the VMS; otherwise activation by file (section 7.4). Automatic updates: outgoing HTTPS to electronisafe.cloud (port 443), once a day (section 15.2).	—
Rights	Windows administrator (INSTALLER.bat) and VMS administrator.	—

Before selling: run the "IA-N_Mesure_serveur" measurement kit on the server (5 minutes, nothing is installed, the VMS is not stopped). It gives the processing time measured on this machine and an estimate of the number of cameras; send its "resultats.txt" file back to ElectroniSafe.

4 Choosing the processing and sizing the server

4.1 Three options

Processing	When to choose it	What is needed
CPU	Always available. Enough for the Standard level on most sites.	Nothing more. Keep about 30% of the CPU for the VMS itself.
NVIDIA graphics card (measured)	Many cameras, or the Precision level on several cameras.	Windows with DirectX 12 and the NVIDIA driver.
Integrated GPU	Offered if its driver accepts it; if it refuses, CPU (proven). Acceleration by the integrated GPU: not proven yet.	Up-to-date graphics driver from the manufacturer.
Entry-level cards and other cards	Detected automatically if compatible; otherwise, processing on the CPU. Capacity: measure your server with the measurement kit provided.	Windows with DirectX 12 and the manufacturer's driver.

- **Each camera chooses its processing:** CPU or graphics card. Both add up on the same server (example: Precision cameras on the graphics card, Standard cameras on the CPU).
- **The graphics card speeds up detection, NOT plate reading:** plate reading always runs on the CPU, with or without a graphics card.

4.2 Setting the processing

- **Default processing of the server:** Site Administration > Integrations > "IA-N Analyse", "Processing" frame, "AI processing" field: "Automatic (the most powerful graphics card that accepts the analysis, otherwise the CPU)", "Processor (CPU)", or a card named in the list, one option per card seen by Windows ("GPU NVIDIA (...)", "GPU Intel (...)"...). It applies to the cameras set to "Same as the server". In the same frame: "CPU processing threads (all cameras)" (1 by default, the most economical) and "CPU ceiling for plate acceleration (%)" (80 by default).
- **For one camera:** Camera Settings > Integrations > "IA-N Analyse", "AI processing for this camera" group, "AI processing" field: "Same as the server" (default), "Processor (CPU)", or a specific card, among those Windows detects.
- The camera banner states the processing **actually** used ("Processing on: CPU ..." or "Processing on: GPU ..."); the integration banner gives the split of the cameras between CPU and GPU.

4.3 Automatic switch to the CPU

- No usable GPU, GPU refused (driver too old) or GPU failing during the analysis: the plugin processes on the CPU, without intervention, and says so in the VMS ("IA-N: graphics card failed, processing switched to the CPU").
- **Without DirectX 12 or without the manufacturer's graphics driver:** processing on the CPU. In the camera, no card is offered and the VMS shows "Graphics card: no usable graphics card on this server. Cameras are analyzed on the CPU." To use a card: install its manufacturer's driver, then restart the VMS service.
- A card that was set and then removed from the server: the setting is kept and the camera switches to the CPU.
- **Integrated GPU:** offered if its driver accepts it. If it refuses (old driver), the plugin switches to the CPU by itself and shows it in the engine status (proven: Intel HD Graphics 630 chip, 2016 driver, the VMS shows "Intel HD Graphics 630 (Standard refused: CPU for Standard)"; less than 3 s after the refusal, the camera was analyzed again on the CPU, with no loss). **Acceleration by the integrated GPU: not proven yet.**
- **Tip:** update the manufacturer's graphics driver before the trial.

4.4 How many cameras

Number of cameras, per setting (measured on 2026-10-11):

Camera setting	RTX 3060 card (measured)	CPU alone
Standard, with or without advanced rules	56 cameras	About 19 to 21 cameras (calculated)
Precision	20 cameras	Not recommended on the CPU (about 650 ms per frame)
License plate reading, one vehicle every 32 s	12 cameras (44 plates read out of 44, 0 misreads)	2 cameras tested (7 plates read out of 7)

Conditions: measured with plugin 1.1.1 (versions 1.2.0, 1.3.0 and 1.4.0 do not change the analysis), real videos, 5 frames analyzed per second per camera, NVIDIA RTX 3060 card (mid-range), ElectroniSafe test server (Core i7-7700K, 4 cores / 8 threads). "Calculated": derived from the measured cost per camera, not a measurement with that many cameras.

In the VMS (4 real cameras, real license, 15 min per setting):

Measurement in the VMS	CPU alone	With the card
CPU used by the VMS server	2.47 cores	0.78 core (-68%)
Precision cameras: frames analyzed	70 to 85%	98 to 100%
Alarm delay	0.7 to 0.9 s	0.1 to 0.2 s

- **Proven tip: have the secondary stream analyzed** (decoding by the VMS: 15% of one core per camera in 1080p, versus 1.3% in 640x360). Exception: plate cameras, which are read on the primary stream (section 11).
- **License plate reading:** reading the plate text stays on the CPU, even with a graphics card. Vehicles at walking pace only (access points, barriers, car parks). Continuous traffic or one vehicle every 10 s: not recommended (about 70 to 85% of frames analyzed, even on 1 camera).
- **Entry-level cards:** measure your server with the measurement kit provided.
- **Other server:** measure it with the measurement kit provided ("IA-N_Mesure_serveur"), then check the real load after activation (Task Manager, "mediaserver" process). Server too tight: offer the IA-N box next to the VMS.

5 Compatible VMS versions and VMS updates

Validated versions: Tested with Nx Witness, Nx Meta and Wisenet WAVE 6.1.2.42921, and DW Spectrum 6.1.2.43047 (Windows Server 2022 and Ubuntu 22.04). Any other version, or another brand: **ask ElectroniSafe before installing.**

VMS version	What the installer sees
Validated versions (above)	Integration banner: "... version validated by ElectroniSafe."
Any other version or brand	Warning in the integration settings and in the event log of the VMS: "... not yet validated by ElectroniSafe: operation not guaranteed".

- **Tip:** do not update the VMS at a customer's site before ElectroniSafe has validated the new version.
- Every new VMS version goes through our non-regression test bench (installation, analysis, alarms, license, VMS restart) before being validated.

6 Installing the plugin with INSTALLER.bat

6.1 Before you start

- Version of the VMS server: VMS client, main menu, "About": one of the validated versions (section 5); other version: ask ElectroniSafe.
- Each camera to be analyzed is recorded (VMS license used, recording active). **During the trial, the cameras must be recording in the VMS:** otherwise the VMS only sends frames to the plugin when someone is watching the camera.
- Windows server without desktop (Server Core): it has no PDF reader; read the guides on another PC.
- Warn the customer: the VMS server will be restarted (about 1 minute without recording on all the cameras of this server).
- Have the kit extracted on the server (right-click the .zip, "Extract All...") and the license key ("IAN-GNX-..."): one key per VMS server. Do not run anything from inside the .zip.

6.2 Running the installation

- 1. Double-click **INSTALLER.bat**, then accept the Windows permission prompt (administrator rights).
- 2. The program checks the kit (SHA256SUMS.txt checklist: a damaged or modified kit is refused), finds the video server (Nx Witness, Nx Meta, DW Spectrum or WAVE) and its version, and checks that the server reaches the license portal. If several video servers are installed on the PC, it asks which one to equip.
- 3. It asks for confirmation, then: backup of a previous IA-N plugin (license included), stop of the video server service, copy of the plugin (license files already present are kept), check of the copy, restart of the service, then check that the server is running and that the plugin is loaded.
- 4. A message gives the result. If the video server does not restart correctly, the previous plugin is put back automatically (or the new one is removed) and the server is restarted.
- Log and backups: **C:\ProgramData\ElectroniSafe\IA-N Greffon** ("journal_installation.txt" file, to attach to any support request).
- Options: "INSTALLER.bat /simulation" checks everything without changing anything; "INSTALLER.bat /status" (same as "/etat") tells what is installed.
- Message language: the one already chosen by the plugin on this server; otherwise French for an update from a 1.1.x; otherwise the Windows language (French, German, Spanish or Italian if it is one of them, otherwise English). "INSTALLER.bat /fr", "/en", "/de", "/es" or "/it" to force it.

Program not digitally signed yet: Windows may show "Windows protected your PC" (click "More info", then "Run anyway"), "Unknown publisher" (click "Run") and a permission prompt with an unknown publisher (click "Yes"). Only use the kit received from ElectroniSafe: INSTALLER.bat refuses a modified kit.

6.3 Checking in the VMS

- VMS client, **Site Administration > Integrations:** "IA-N Analyse" must appear. The banner at the top of its settings gives the license status, the camera places, the processing used and the VMS version (section 7).
- Never rename the "ian_nx_plugin" folder or its files: the VMS keeps the name of an integration installed a first time.

6.4 Without INSTALLER.bat (manual installation)

Stop the video server service ("Network Optix Media Server" for Nx Witness), copy the kit's "greffon\ian_nx_plugin" folder, in full, into the "plugins" folder of the server (for Nx Witness: C:\Program Files\Network Optix\Nx Witness\MediaServer\plugins\), then restart the service. For an update, keep the files "ian_nx_licence.json", "ian_nx_etat.json", "ian_nx_places.json", "ian_nx_jeton.json", "ian_nx_langue.json", "ian_nx_essai.json", "ian_nx_maj.json" and "ian_nx_chargeur.json" already present, and the "maj" and "telesurveillance" folders.

Plugin files (1.3.0): "ian_nx_plugin.dll" (small loader, the file the VMS loads), "ian_nx_coeur.dll" (the plugin itself), "ian_nx_maj.exe" (update helper program, section 15.2), plus the files already delivered before (processing libraries, files "ian_a.bin" to "ian_d.bin", LICENCES_TIERCES.txt). The "maj" folder receives the versions downloaded by the automatic updates.

7 License: entering the key in the VMS (once per server)

One license = **one key per VMS server**, covering N cameras. The key is entered **only once**, in the integration settings, never camera by camera. Then the plugin activates by itself and counts the cameras itself.

- 1. VMS client: **Site Administration > Integrations**, then "IA-N Analyse".
- 2. "IA-N License" frame, "License key" field: paste the key received (format "IAN-GNX-..."). The VMS shows the field help: "To be entered ONCE for the whole server (format IAN-GNX-...). The plugin activates it by itself with the ElectroniSafe portal and counts the cameras itself."
- 3. Confirm ("Apply" or "OK"). The VMS server must reach licence.electronisafe.cloud over HTTPS; otherwise, activation by file (7.4).
- 4. Read the banner at the top of the settings. Right after entering the key, it may say "License not activated yet: the plugin is waiting for the answer of the ElectroniSafe portal (or a license file for a site without Internet)": reopen the settings one minute later.
- Treat the key like a password: hide it in screenshots, e-mails and support tickets.
- No key yet: the 30-day free trial is requested from the same page (section 7.8).

On screen: Site Administration > Integrations > "IA-N Analyse". At the top, an information banner (license status, camera places, processing, VMS version). Below, the "Langue / Language" frame (7.7), the "IA-N License" frame with the "License key" field (input hidden by dots), the "Site without Internet: create the request file..." box and the "Site without Internet: paste here the content of the license file you received" field; the "Start the 30-day free trial" frame (7.8); the "Processing" frame ("AI processing", "CPU processing threads", "CPU ceiling for plate acceleration"); the "Updates" frame (15.2); the "Support" frame. "Apply" and "OK" buttons at the bottom.

What the integration banner says next

Banner text	What it means
"IA-N trial valid until DD-MM-YYYY (...)" or "IA-N license valid until DD-MM-YYYY (tier, level, N camera(s), plates on P camera(s))."	The license is active. Tier: "Detection", "Premium", or "Premium on X camera(s), Detection on the others".
"Analyzed cameras X / N · Precision X / P · Advanced rules X / R · Plates X / L."	Places used out of those of the license (cameras, Precision level, Premium tier, plates).
"Waiting for a place (k): ... (remove IA-N from another camera or add cameras to the license, same key)."	k ticked cameras have no place: they are not analyzed. Their names are listed (10 at most), from the one waiting longest to the most recent (7.1 and 7.2).
"Last contact with the portal: ..."	Last online check of the license (once every 24 h).
Processing, then "Nx: <i>version</i> - version validated by ElectroniSafe."	Processing used (GPU or CPU) and VMS version (section 5).

- The end date runs from the **first activation** in the VMS.
- The plugin keeps the license document received next to it, rechecks it by itself without Internet, then contacts the portal again once every 24 h.
- Each camera also has a "License" page (read-only) in its IA-N settings: status, expiry, masked key, places, and its own situation ("analyzed" or "waiting", level applied).

7.1 1 camera = 1 license place

- A license for N cameras gives **N places**. **Never more than N cameras analyzed**, even for a moment.
- A camera takes a place when IA-N is ticked for it (Camera Settings > Integrations, section 8). If there is no free place left, it goes **waiting**: it is not analyzed; the others continue.
- **A camera keeps its place as long as IA-N stays ticked for it**: even offline, even after a restart of the VMS or of the server. The places are saved next to the license.
- The place is freed only when IA-N is **unticked** for this camera. It then goes to the waiting camera that was ticked **the longest ago**.

What a waiting camera shows, in its IA-N settings: "Camera not covered: remove IA-N from another camera or add cameras to the license (same key). The license covers N camera(s), all assigned; this camera is waiting (no. k) and is NOT analyzed." The VMS also receives the event "IA-N: camera not covered by the license".

7.2 Moving a license from one camera to another

1. On the old camera: Camera Settings > Integrations > "IA-N Analyse": **untick** IA-N, then confirm.
2. The place is freed **within the next minute** (test of 2026-10-11: 32 s), provided the cameras are recording in the VMS: the plugin updates the places when it receives frames.
3. It goes **by itself** to the waiting camera ticked the longest ago: nothing to re-enter. If no camera is waiting: tick IA-N on the new camera, it takes the free place.
4. Check the integration banner (places and "Waiting for a place" list).

Same logic for the Premium, Precision and Plates places. Premium: a camera set to "Premium" ("Tier for this camera") comes before those set to "Automatic"; setting the camera to "Detection" or unticking IA-N frees its Premium place. Precision: only the cameras that request the Precision level take a Precision place, in the order of the requests; switching the camera back to Standard frees it. Plates: a Plates place is only taken if "Read license plates on this camera" is ticked; unticking the box frees the place.

7.3 Adding cameras, Premium, Precision or plates

Order the addition from your distributor. ElectroniSafe modifies **the same key**: nothing to re-enter. The plugin takes the new rights at its next check, within 24 h at the latest, or immediately if the VMS service is restarted (about 1 minute without recording). The **waiting** cameras then take the new places by themselves. **Precision** is sold for a number of cameras (e.g. 10 cameras including 2 in Precision): beyond that, the camera stays in Standard with the message "Precision: X / Y cameras used — ask your installer. This camera is analyzed in Standard."

On screen: Camera Settings > Integrations > "IA-N Analyse" > "License" (read-only): banner "Status: IA-N trial valid until ...", then the places line, for example "Analyzed cameras 3 / 3 · Precision 1 / 1 · Advanced rules 1 / 1 · Plates 0 / 0.", then the situation of this camera (place, analyzed, level applied) and the reminder: the key is entered only once, in the integration settings.

On screen: Main "IA-N Analyse" page of a 2nd camera set to "Precision" while the only Precision place is taken: under "Analysis level", the message "Precision: 1 / 1 cameras used — ask your installer. This camera is analyzed in Standard."

7.4 Site without Internet: activation by file

1. Enter the key, then tick **"Site without Internet: create the request file (to send to your distributor)"** and confirm. The plugin writes the "ian_nx_demande.json" file in its folder and gives its path.
 2. Send this file to the distributor (USB stick, e-mail). It contains the key, the number of cameras and hashed technical fingerprints of the server: no image, no camera name, no personal data.
 3. The distributor (or ElectroniSafe) uploads it to the portal and returns a "ian_nx_licence.json" license file.
 4. Paste the content of this file into the **"Site without Internet: paste here the content of the license file you received"** field, then confirm. Or copy the file into the plugin folder.
- A file is valid until the end of the rights. After a renewal, make a new request.

7.5 License bound to the server (anti-copy)

At the first activation, the license is **bound to the VMS server**. To do so, the plugin reads **hardware fingerprints** (motherboard, disk...), turned into unreadable codes (hashed): **never any personal data**, no image, no camera name. A key only works on one server at a time.

Case	Result
Copy of the disk (or of the virtual machine) to another machine	Refused: "This license is bound to another Nx server: ask your distributor for a transfer (ElectroniSafe unbinds the key)." The analysis stops; the video and recording of the VMS continue.
Motherboard replaced alone (repair)	Accepted: nothing to do.
Disk replaced alone, system copied to the new disk	Accepted: nothing to do.
Windows or the VMS reinstalled on the same server (same motherboard, same disk)	Accepted (run INSTALLER.bat again and re-enter the same key if the VMS was reinstalled from scratch).
Motherboard AND disk replaced, new server, or new disk with Windows reinstalled from scratch	Transfer by ElectroniSafe: ask the distributor. ElectroniSafe unbinds the key, then the same key activates on the new server.

7.6 End of license, trial, no contact

Case	What happens
30- or 90-day trial (including the free trial requested from the VMS, 7.8)	The analysis stops the day after the end date, with no grace period.
1-year license expired	30 days of grace with a warning in the VMS, then the analysis stops.
No contact with the portal	The license continues for 30 days (never beyond its end), then the analysis stops. Site without Internet: use the file (7.4).
Server clock set back	Refused until the time is corrected (online check required).

Always safe for recording: license missing, expired, refused or tampered with = the analysis stops; the video and recording of the VMS are never affected.

7.7 Langue / Language (5 languages since 1.3.0, proven in real VMS servers)

- The plugin settings, banners, messages and alarms are in **English, French, German, Spanish or Italian**. "Langue / Language" setting, in the same screen as the key (Site Administration > Integrations > "IA-N Analyse"): "Automatique / Automatic" (default), "Français", "English", "Deutsch", "Español" or "Italiano".
- Automatic:** French after an **update from a previous version** (1.1.x, all in French: an existing customer stays in French); otherwise the **Windows language** of the server; if none is found, the language of the VMS site. French, German, Spanish or Italian if it is one of them, otherwise English. The banner under the setting states the language chosen and why (e.g. "Language: French (automatic: system language, fr-FR, Windows).").
- Settings and messages change as soon as it is applied; the event type names and the integration description at the latest at the next restart of the VMS server.
- Nothing is lost when changing the language: zones, lines, alarm rules, values and VMS event rules stay the same; only the texts change.
- INSTALLER.bat and DESINSTALLER.bat speak the same language as the plugin ("/fr", "/en", "/de", "/es" or "/it" to force it). The guides and the measurement kit also exist in German, Spanish and Italian.

7.8 30-day free trial requested from the VMS (new in 1.3.0, proven with the real portal)

Proven on 14/10/2026 with the real ElectroniSafe portal: request from the VMS, verification e-mail, key received and activated by itself. If the portal answers that trials are not open (country, address), ask your distributor for a trial key and enter it as in section 7.

- 1. Server **without** a key: Site Administration > Integrations > "IA-N Analyse", group "Start the 30-day free trial". Fill in "Business e-mail", "Company" and "Country".
- 2. Read the terms (link "Plugin terms of use"), tick "I accept the plugin terms of use", tick "Start the trial (tick, then Apply)", then Apply. The "Start the trial" box unticks itself.
- 3. The ElectroniSafe portal sends an e-mail to the address entered (in French if the plugin is in French, otherwise in English for now). Click its link **within 48 hours**.
- 4. The trial key arrives and **installs itself** in "License key": nothing to type. It is also in the welcome e-mail. Then it is a key like any other: 30 days from the first activation, camera places (7.1), end of trial with no grace period (7.6). The trial key only activates on this server.

Banner of the trial group	What it means
"30-day free trial: enter your business e-mail, your company and your country..."	No request in progress: fill in the form.
"Sending the trial request to the ElectroniSafe portal..."	Request sent, answer awaited.
"E-mail sent to p...@...: click the link in the e-mail (valid for 48 hours). The trial key will install itself here."	Open the e-mail (address masked in the banner) and click the link.
"Trial key received and entered: activation in progress with the ElectroniSafe portal."	Reopen the settings one minute later.
"Trial active: ..."	The trial is running; the rest gives the end date and the places.
"A license key is already entered: the free trial is not offered."	A key is already there: no trial.
"ElectroniSafe portal unreachable: automatic new attempt in a few minutes (Nx is not affected)."	The plugin tries again by itself; check the server's Internet access (outgoing HTTPS).

- **Never a trial if a key is already entered.** A server that already had a key or a trial of the plugin is no longer entitled to one. Refusals and other messages: section 13.
- **The VMS is never disturbed:** the request runs in the background; if the portal does not answer, nothing blocks and the plugin tries again by itself.
- **Data sent** to the ElectroniSafe portal (licence.electronisafe.cloud, as for the license): the e-mail, the company, the country, the language, the video software and its versions, the hashed technical fingerprints of the server (7.5). No image, no camera name. The e-mail is **never written in clear** in the plugin log: it appears there masked (e.g. "p...@company.com").

8 Enabling the analysis camera by camera

VMS client: right-click the camera, **Camera Settings > Integrations**, choose "IA-N Analyse" in the list on the left, tick IA-N, then confirm ("Apply" or "OK"). The analysis starts immediately, resumes by itself after a VMS restart, and the camera takes a license place (7.1). **During the trial, the cameras must be recording in the VMS.** The IA-N settings form a **tree**:

Page	What it contains
"IA-N Analyse" (main page)	Status banner (license, analyzed cameras, tier and level of this camera, processing actually used), "Basic settings" group, "AI processing for this camera" group
"Alarm rules"	"Rules in place: ..." banner, then one sub-page per rule: "Intrusion", "Zone entry / exit", "Line crossing", "Loitering", "Dwell time", "Crowd" — section 9
"License plate reading"	Plates option (section 11)
"Excluded zones"	Privacy masks: nothing is analyzed behind them (section 10.2)
"License"	Read-only: status, expiry, masked key, places, situation of this camera

Page	What it contains
"Support"	Versions, processing, where the diagnostic log is, short reference of the camera (to give to support)
• "Basic settings" group: "Analysis level" (Standard by default, or Precision if the license has a free place for it); "Tier for this camera" (Automatic: Premium if a Premium license is free, otherwise Detection; Detection; Premium); "Confidence threshold" (0.40; higher = fewer false detections, but distant objects may be missed); "Analyzed frames per second" (5 by default, from 1 to 25; the cost follows this number); "People", "Vehicles", "Animals" boxes. • "AI processing for this camera" group: "Same as the server", "Processor (CPU)" or a specific graphics card (section 4.2); its banner states the processing actually used. • Analyzed stream: the VMS chooses the stream. To save CPU, have the secondary stream analyzed when the camera has one; for plate reading, the primary stream. • Changing the IA-N settings of a camera restarts its analysis (gap of about 1 to 3 s observed in its recording): set the cameras up at commissioning rather than in full operation.	

On screen: Camera Settings > Integrations > "IA-N Analyse". On the left, the tree: "IA-N Analyse", below it "Alarm rules" (with its sub-pages), "License plate reading", "Excluded zones", "License", "Support". On the right, the main page: status banner at the top (for example "Analyzed cameras: 3 / 4. This camera: Premium, level Standard. Processing on: CPU."), then the "Basic settings" group and the "AI processing for this camera" group.

Processing (CPU or graphics card; server and per-camera setting; automatic switch to the CPU): see section 4.

9 Alarm rules (Premium tier): one page per rule

"Alarm rules" page of the camera, then the sub-page of the desired rule. Each page only has the fields useful to ITS rule. You choose the rule by choosing the page.

- 1. In the "new" box (e.g. "Intrusion zone 1 (new)"), "Zone" field: write the name of the zone (it appears in the alarm) and place the points of the polygon on the image preview (3 to 12 points).
- 2. Choose the "Objects" and, if the page has them, the duration and the delay (0 = recommended value).
- 3. Click **Apply**: one more "new" box appears for the next zone (8 zones per page). To remove a zone: erase its drawing, then Apply.
- 4. Do a **test pass** and check the alarm in the VMS.

Page	When the alarm is raised	Fields of the page (0 = recommended value)
"Intrusion"	Object in the zone for the chosen duration (center of the bounding box); an object that appears in the zone also counts	Objects; "Minimum presence before the alarm (s)" (0 = immediate); "Minimum delay between two alarms (s)" (30 s); "Ignore stationary objects" (ticked)
"Zone entry / exit"	Object entering (entry alarm) or leaving (exit alarm)	Objects (fixed delay: 2 s per object); "Ignore stationary objects" (ticked)
"Loitering"	Continuous presence beyond the duration (absences of 2 s tolerated)	Objects; "Presence before the alarm (s)" (60 s); delay (60 s per object); "Ignore stationary objects" (ticked)
"Dwell time"	Object present beyond the duration; "stationary" ticked by default (a moving vehicle is never "parked")	Objects (Vehicles by default); "Maximum duration (s)" (60 s); "Only if the object is stationary (no parking)"; delay (120 s per spot); "Ignore stationary objects" (ticked)
"Crowd"	At least N selected objects in the zone during the duration	Objects; "Minimum number of objects" (5, from 2 to 100); "For at least (s)" (5 s); delay (60 s)

Line crossing: same principle, "Line crossing" page, 6 lines at most ("Line 1" ...): section 10. Rule-by-rule details, with real examples: "Zone setup guide".

Ignore stationary objects (new in 1.3.0)

- **"Ignore stationary objects"** box, **ticked by default**, in each zone of the "Intrusion", "Zone entry / exit", "Loitering" and "Dwell time" pages. "Crowd" and "Line crossing": unchanged.
- **Vehicles and animals**: an alarm is only given if they have **really moved** since they appeared: a real movement, not a mere jitter of the box, nor a box that grows with reflections or headlights. A parked car never gives an alarm, even if its tracking is lost and then resumes.
- **People**: arriving counts as a movement. A person who appears (even seen on a single frame: at night or at a distance, an intruder is often seen intermittently) is reported **once**; after that, no more alarm as long as they do not move (person waiting). A "person" who keeps reappearing at the same place (plant, post, person waiting) is no longer reported from the 3rd appearance at that place (the plugin remembers it for 20 minutes).
- The same object alarms again only **after moving again**.
- An object **already there when the rule starts** (rule created, VMS restarted), people included, gives no alarm as long as it does not move. Dwell time (no parking): a vehicle already parked at the start is never reported; a vehicle that arrives and then stops is reported once.
- **Unticking the box** = behavior of 1.2.0: alarm on stationary objects too.
- **Always active**, no setting: boxes that cover almost the whole image (false detection) are discarded: no box in the VMS, no alarm.

Help shown by the VMS under the box: "No alarm for a vehicle or an animal that has not moved since it appeared (parked car), nor for an object already there when the rule starts; a person who appears is reported once. The same object alarms again only after moving again. Untick to also alarm on stationary objects." (Intrusion, Zone entry / exit, Loitering); "No alarm for an object that was already there when the rule started and has not moved since (car already parked); a vehicle that arrives and then stops is reported once. The same object alarms again only after moving again." (Dwell time).

On screen: Camera Settings > Integrations > "IA-N Analyse" > "Alarm rules" > "Intrusion". At the top, a line explaining the rule and the help "Draw the zone in the 'new' box, then click Apply...". Below, the zones already drawn ("Intrusion zone 1"...), then an "Intrusion zone 2 (new)" box: "Zone" field (image preview where the points are placed), "Objects", "Minimum presence before the alarm (s)", "Minimum delay between two alarms (s)", "Ignore stationary objects" box (ticked).

10 Lines and excluded zones

10.1 Line crossing and tailgating (Premium tier)

- **"Alarm rules > Line crossing"** page: up to **6 lines**. In the "Line k (new)" box, "Line (2 points; arrow = monitored direction)" field: draw the line **on the ground**, from one side of the passage to the other, then Apply.
- **Arrow = one monitored direction only**; no arrow = both directions. Do a test pass in each direction: the alarm text says "direction A to B" or "direction B to A".
- **"Objects"**: People by default; tick Vehicles for a car park entrance.
- The tracked point is the **bottom of the bounding box** (feet, wheels); an object hesitating on the line does not give several alarms (tolerance band and 2 s per object).
- **Tailgating**: tick "Tailgating: alarm if several crossings in the same direction within a short time", then "Tailgating: number of crossings" (2 by default, from 2 to 10) and "Tailgating: within (s)" (8 by default, from 1 to 120). Example: 2 people in the same direction in less than 8 s behind a badge door.

On screen: "Alarm rules > Line crossing" page: a line of explanation, the help "Draw the line in the 'new' box...", then the boxes "Line 1", "Line 2 (new)"... Each box: "Line (2 points; arrow = monitored direction)" field with the image preview, "Objects", "Tailgating: alarm if several crossings..." box, "Tailgating: number of crossings", "Tailgating: within (s)".

10.2 Excluded zones (all tiers)

- **"Excluded zones"** page: up to 8 polygons. **Nothing is analyzed behind them**: no bounding box, no alarm, no plate, whatever the license. For neighbors' windows, the public road, areas that do not concern the customer.
- An excluded zone is **never** a detection zone. An object is discarded if its feet are in the excluded zone, or if at least half of its bounding box is covered.

- The VMS always records the whole image: to hide the image itself, also use the camera's privacy mask.

11 License plate reading (option, per camera)

License plate reading: vehicles at walking pace (access points, barriers, car parks), not roads or highways.
Dedicated camera, framed on the passage; reads French plates (current and old format).

11.1 Enabling and drawing the plate zone

- The license must include the Plates option, for this camera: a Plates place is only taken if the box below is ticked (7.2). Without the option, the page is grayed out: "Plates option — ask your installer".
- In the "License plate reading" page: tick "Read license plates on this camera", then draw "Plate zone (plates are only read inside it)": a tight polygon.
- The camera must analyze its **primary stream** (at least 1280 pixels wide). Otherwise, the VMS shows "License plate reading: the analyzed stream is ... (secondary stream); plates are only read in full resolution: have this camera's PRIMARY stream analyzed." and nothing is read.
- Fixed rules, as on the IA-N box: reading only inside the polygon and only when a vehicle **moves** in it; parked cars never read; several frames vote before giving a plate.
- In the VMS: alarm "IA-N: License plate read" (usable in the rules) and plate added to the vehicle in the "Objects" tab.

11.2 Passage settings

When a moving vehicle arrives in the plate zone, the camera is analyzed **faster** for the duration of the passage (never faster than the camera sends its frames), then returns to its normal rate.

Field (exact label in the VMS)	Value	Effect
"Frames/s while a vehicle passes"	15 by default (10 to 25)	Analysis rate during the passage, then back to the normal rate.
"Hold after the vehicle leaves (s)"	1 by default (0 to 5)	Time kept at the passage rate after the vehicle leaves.
"CPU ceiling for plate acceleration (%)" (integration settings, "Processing" frame)	80 by default (50 to 95)	If the server CPU is already loaded beyond it, the passage is analyzed at the normal rate.

- **Vehicles at walking pace** (barrier, gate, car park): keep the default values.
- Plates missed at a car park entrance: raise "Frames/s while a vehicle passes" towards 25, tighten the polygon and set a short exposure time in the camera.

Golden rule for plates: 1. **TIGHT** polygon, where the plate passes **large and sharp**, not over the whole lane: a large polygon costs more computing at each read, without reading better (the VMS warns: "License plate reading: the plate polygon is large..."). 2. **Primary stream** analyzed. 3. **Camera dedicated to plates**, framed on the passage, with a **short exposure time** set in the camera: motion blur is not corrected by the software.

On screen: "License plate reading" page: a banner recalls the rules ("Reads the plates of vehicles moving at walking pace (access points, barriers, car parks). Not for roads or highways..."), then the "Read license plates on this camera" box, the "Plate zone (plates are only read inside it)" field with the image preview, "Frames/s while a vehicle passes" and "Hold after the vehicle leaves (s)".

GDPR: a license plate is personal data. Limit the plate zone to what is strictly necessary, keep a short retention period in the VMS (30 days maximum unless justified) and inform the people concerned. The plugin log only contains masked plates (AB***CD).

12 Alarms and rules in the VMS

The plugin sends its alarms to the VMS as **analytics events**, usable like any other event in the VMS rules:

Event in the VMS	Sent when
IA-N: Intrusion	object in an intrusion zone
IA-N: Zone entry / IA-N: Zone exit	object entering or leaving an entry / exit zone
IA-N: Line crossing	object crossing a line in the monitored direction
IA-N: Loitering	presence too long in a loitering zone
IA-N: Dwell time exceeded (parking)	object staying too long in a dwell time zone
IA-N: Tailgating	several crossings in the same direction within a short time
IA-N: Crowd	at least N selected objects in a crowd zone for the duration
IA-N: License plate read	plate read in the plate zone

- Create a rule: VMS client, **Event Rules**, new rule, event "Analytics Event", choose the camera and the type "IA-N: ...", then the action: notification, recording, bookmark, e-mail, output, etc.
- Each alarm carries a title "IA-N: type - zone name" (e.g. "IA-N: Loitering - Parvis"), a clear text (e.g. *Loitering in zone "Parvis": present for 60 s (person)*) and the bounding box of the object.
- The alert center and the notifications are those of the VMS: the plugin sends nothing anywhere else.

On screen: Event rules screen of the VMS: a rule whose event is the analytics event "IA-N: Intrusion" on the chosen camera, and the desired action (notification, bookmark...), with the optional schedule.

12.1 Seeing the bounding boxes

Open the cameras in a layout, then the right panel and its "Objects" tab. While this tab is open, the VMS draws the boxes live and in archive playback; tab closed, no live boxes (behavior of Nx 6.1). The tab lists the objects with their thumbnail; filters: camera, object type ("Any type"), "IA-N Analyse" integration ("Any plugin").



Real capture of the VMS client (client in English): "Animal" and "Vehicle" boxes, object list on the right with the "Any plugin" and "Any type" filters. Faces and plates blurred.

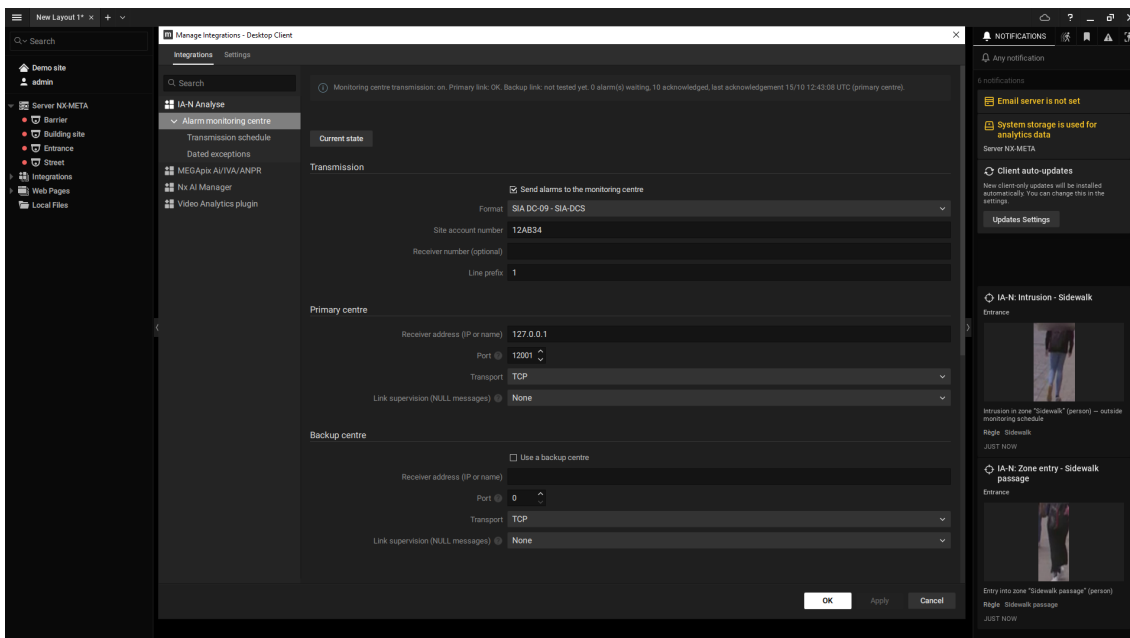
12.2 Sending alarms to an alarm monitoring centre (new in 1.4.0)

In addition to the VMS, the plugin can send its alarms to an alarm monitoring centre: alarm receiver using the SIA DC-09 protocol, SIA-DCS or Contact ID format, clear or encrypted, TCP or UDP, with a backup centre. Settings for the whole server: Site Administration > Integrations > "IA-N Analyse", "Alarm monitoring centre" page; then camera by camera: Camera Settings > Integrations > "IA-N Analyse", "Alarm monitoring centre" page.

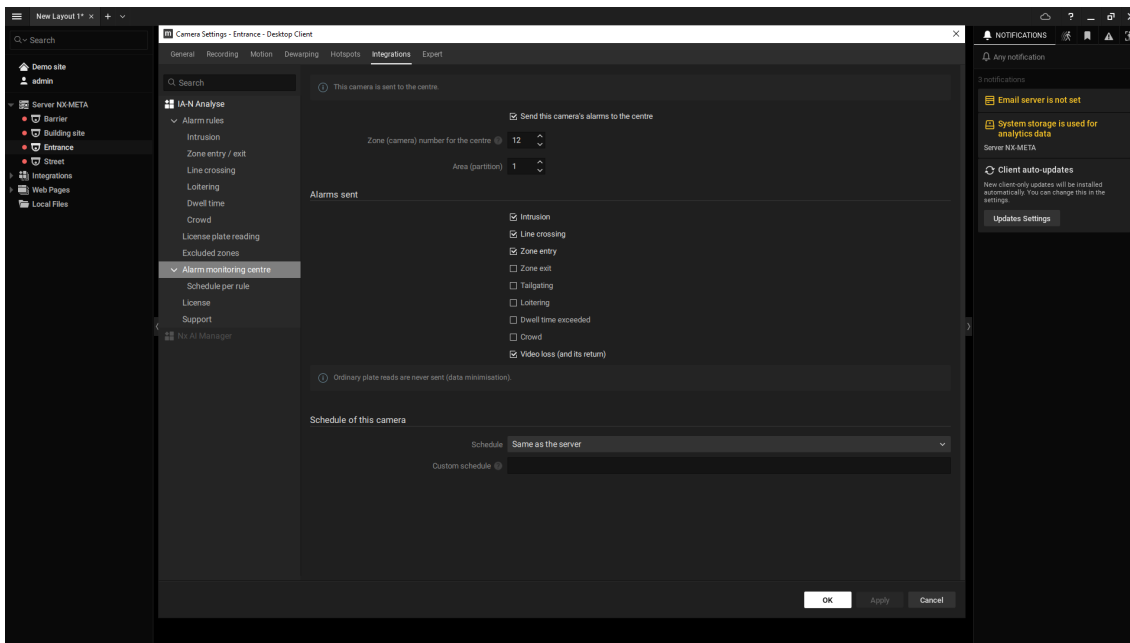
- **Server:** tick "Send alarms to the monitoring centre", choose the format, enter the "Site account number" (3 to 16 characters: digits and letters A to F), the receiver address and port given by the centre, and the "Link supervision (NULL

messages)” and “Periodic test (RP / 602)” agreed with it. Backup centre and encryption key if the centre provides them (the key is never displayed and never written to the log).

- **Camera:** tick “Send this camera’s alarms to the centre”, give the “Zone (camera) number for the centre” (suggested: the camera’s rank; the centre sees “zone 007”) and tick the “Alarms sent”. Ordinary plate reads are never sent.
- **Schedule to the second** (server “Transmission schedule”, camera schedule, “Schedule per rule”, French public holidays, “Dated exceptions”): outside the schedule, the alarm stays in the VMS with the mention “outside monitoring schedule” and is not sent to the centre. The periodic test, the link supervision and faults (video loss then video back on a camera, license fault, analysis stopped) are always sent.
- **Buttons:** “Send a test to the centre” (manual test; the centre’s answer is shown: acknowledged, refused or no answer) and “Current state” (transmission ACTIVE or SUSPENDED, and until when).
- **Nothing is lost:** if the centre does not answer or the VMS restarts, alarms wait in a queue on disk (the plugin’s “telesurveillance” folder) and are sent in order as soon as the centre answers, each one only once. The installer and the updates keep this folder; the transmission log (no personal data) is deleted there after 12 months.
- **Viewing link** (optional): address with variables ({camera}, alarm time...) added to the alarm so that the centre’s operator opens the video with HIS OWN VMS account; never a user name or password in the link (refused).
- **License:** alarm monitoring is **included in every license** (valid or trial), with no option to buy.
- **Through the VMS REST API** (integrators): send “model” and “values” together, as the VMS client does; if only “values” is sent, the VMS stores the values but passes them to the plugin only at the next restart of the VMS server (true for every plugin setting).



“Alarm monitoring centre” page of the integration: transmission state, “Current state” and “Send a test to the centre” buttons, centre settings.



“Alarm monitoring centre” page of a camera: camera transmission, zone number, alarms sent, schedule.

Sent to the centre: account number, alarm code, zone, area, time and, if enabled, a short text (alarm type, camera, rule name) and the viewing link. **No image, no plate, no biometric data.** The alarm monitoring centre is a recipient of the data: processing agreement, record and DPIA of the site (section 18).

13 Plugin messages in the VMS

Message	Meaning	What to do
"No license key: enter the IA-N key in the integration settings..."	Key never entered	Section 7.
"License not activated yet: the plugin is waiting for the answer of the ElectroniSafe portal..."	No answer from the portal yet	Wait a little; check the server's Internet access (outgoing HTTPS), or activation by file (7.4).
"Camera not covered: remove IA-N from another camera or add cameras to the license (same key)..."; event "IA-N: camera not covered by the license"	All places are taken: the camera is waiting	Untick IA-N on another camera (7.2) or add cameras to the license (same key).
"IA-N: analysis stopped (license)"	License missing, expired, refused	Read the integration banner.
"This license is bound to another Nx server..."	Copy to another machine, or motherboard and disk replaced	Ask the distributor for a transfer (7.5).
"License not rechecked for more than 30 days..."	No more contact with the portal	Restore Internet or do an activation by file.
"The server clock is behind..."	Wrong server time	Correct the time (synchronization).
"IA-N: Precision level not available, analysis in Standard"	Precision not in the license, all Precision places taken, or not possible on this server	Ask the distributor for Precision, or stay in Standard.
"IA-N: Precision on CPU, reduced capacity"	No usable GPU	Lower the frames/s or switch back to Standard.
"Premium requested: the ... Premium license(s) are already used by other cameras..."	Premium places all taken	Free a Premium place (7.2) or add Premium (same key).
"License plate reading: the license covers ... plate camera(s), all already in use..."	Plates places all taken	Untick plates on another camera (7.2) or order the Plates option.
"License plate reading: the analyzed stream is ... (secondary stream)..."	Secondary stream analyzed	Have the primary stream analyzed (11.1).
"License plate reading: the plate polygon is large..."	Polygon too large: costly reading	Tighten the polygon where the plate passes large and sharp (11.2).
"IA-N: requested features not covered by the license"	Rules or plates without the right entitlement	Order Premium or the Plates option.
"... not yet validated by ElectroniSafe..."	VMS version not on the list	Section 5.
"This camera already receives the AI of the IA-N box..."	The box AND the plugin are ticked on the camera	Untick one of the two (section 17).
"Premium option — ask your installer..." (grayed-out page)	License without Premium for this camera	Order Premium (same key); the zones already drawn are kept.
"Plates option — ask your installer..." (grayed-out page)	License without the Plates option	Order the Plates option (same key).
"Precision: X / Y cameras used — ask your installer. This camera is analyzed in Standard."	All Precision places are taken	Switch another camera back to Standard (its place goes to this one) or add Precision (same key).
"Graphics card: no usable graphics card on this server. Cameras are analyzed on the CPU."	No card, basic Windows driver or Windows without DirectX 12	Analysis on the CPU; for a card: install the manufacturer's driver (section 4.3).
"IA-N: graphics card failed, processing switched to the CPU"	The GPU refused or failed	Nothing to do right away (automatic switch); update the GPU driver.

Free trial requested from the VMS (section 7.8): messages of the “Start the 30-day free trial” group.

Message	Meaning	What to do
“To start the trial: business e-mail, company and country filled in, and terms of use box ticked.”	Form incomplete	Complete it, then tick “Start the trial” again and Apply.
“Trial refused: badly formed e-mail address.”	Wrong e-mail address	Correct the address.
“Trial refused: the trial is reserved for businesses, enter a business e-mail address (no free webmail and no disposable address).”	Free webmail or disposable address	Enter the company e-mail.
“Trial refused: this country is not served yet. Contact ElectroniSafe.”	Country not open yet	Contact ElectroniSafe.
“Trial not open yet for this address: opening soon.”	Trials not open yet	Ask the distributor for a trial key.
“Trials are closed for the moment on the ElectroniSafe portal.”	Trials closed on the portal	Ask the distributor for a trial key.
“This address belongs to an ElectroniSafe distributor or installer: request the trial from your partner portal.”	Partner account	Request the trial from the partner portal.
“This server already had a key or a trial of the plugin: the trial cannot be renewed.”	Server already equipped once	Order a license from the distributor.
“A trial already exists for this company or this e-mail domain.”	One trial per company	Order a license from the distributor.
“Verification link not clicked within 48 hours: request expired. Start the request again.”	E-mail link not clicked in time	Make the request again.
“Trial request refused at confirmation.”	Refused by the portal at confirmation	Contact ElectroniSafe.
“The trial key was already delivered to this server; it is also in the welcome e-mail: enter it in “License key”.”	Key already delivered	Paste the key from the welcome e-mail (section 7).
“Trial request unknown to the portal for this server: start the request again.”	Request lost or other server	Make the request again.
“ElectroniSafe portal unreachable for too long: start the request again later.”	No answer from the portal after many attempts	Restore the server’s Internet access (outgoing HTTPS), then make the request again.
“Trial not possible: identity of this server unreadable.”	Server fingerprints unreadable	Contact ElectroniSafe (attach the plugin log).
“Trial refused by the portal (...)”	Other refusal (code in brackets)	Contact ElectroniSafe.

Automatic updates (section 15.2): messages of the “Updates” group that call for an action or an explanation.

Message	Meaning	What to do
“Update REFUSED: ... (nothing was applied).”	The version received is not recognized as coming from ElectroniSafe, or its content is invalid	Nothing to do: the installed version keeps running. Tell ElectroniSafe if the message stays.
“Update REFUSED: altered file (nothing was applied).”	A downloaded file does not match	Nothing to do: the installed version keeps running; new attempt at the next check.
“Update waiting: not enough disk space.”	Server disk too full	Free some space on the disk of the VMS server.
“Check not possible (update server unreachable): new attempt later.”	No access to electronisafe.cloud	Allow outgoing HTTPS to electronisafe.cloud (port 443).

Message	Meaning	What to do
"Version ... did not start correctly: the previous version was put back automatically."	Automatic return: the faulty version will never be taken again	Nothing urgent; send the plugin log to ElectroniSafe.
"Available version: ...: to be installed with the kit of this version."	This version does not install by itself	Install the kit of this version with INSTALLER.bat (15.1).

14 Troubleshooting

What you see	Probable cause	What to do
INSTALLER.bat refuses the kit	Kit opened inside the .zip, incomplete or modified download	Extract the .zip ("Extract All..."); download the kit again.
"IA-N Analyse" missing from the integrations	Installation not finished, very different VMS version	Read the final message and the INSTALLER.bat log; "INSTALLER.bat /status".
Key refused	Typing error, revoked key, key of another product, key bound to another server	Check the key; read the banner; call the distributor.
Camera ticked but not analyzed	All places are taken: it is waiting	Read "Waiting for a place" in the banner; free a place (7.2) or add cameras (7.3).
No live bounding boxes	"Objects" tab closed; camera neither recorded nor watched; object unticked	Open the "Objects" tab, check the recording and the object boxes.
An alarm is not raised	Feature not in the license; zone badly drawn; object not ticked; duration too long	Read the camera banner, do a new test pass, leave the durations at 0 (recommended values).
Too many alarms	Zone too large; threshold too low	Reduce the zone, raise the threshold, increase the delay between two alarms.
No alarm for a parked vehicle, or for a person waiting without moving	"Ignore stationary objects" box ticked (default): normal (a person is reported once, on arrival)	Nothing to do. To alarm on stationary objects too: untick the box in the zone (section 9).
False alarms on parked cars	"Ignore stationary objects" box unticked	Tick it again (default). Measured effect: table below this troubleshooting.
Plates missed	Blurred plate (long exposure time); polygon badly placed; secondary stream analyzed; CPU at the ceiling	Short exposure time in the camera, tight polygon, primary stream, check the load (11.2).
Server CPU too loaded	Too many cameras or frames/s; Precision on the CPU; HD primary stream analyzed	Lower the frames/s, analyze the secondary stream, switch back to Standard, or IA-N box next to the VMS.
The VMS no longer restarts after the installation	Unexpected incompatibility	INSTALLER.bat puts the previous plugin back by itself; otherwise run DESINSTALLER.bat. Send the log to ElectroniSafe.
The free trial does not start (7.8)	Key already entered, form incomplete, e-mail not a business one, portal unreachable, trials not open yet	Read the banner of the "Start the 30-day free trial" group (section 13); otherwise trial key from the distributor.
Trial e-mail not received	Address mistyped, e-mail filed as spam	Look in the spam folder; after 48 hours, make the request again.
No automatic update (15.2)	"Notify me only" or "Disabled" setting; no HTTPS access to electronisafe.cloud	Read the banner of the "Updates" group; tick "Check now", then Apply.
The VMS service restarted by itself at night (about 1 minute)	Maintenance hour: a downloaded update was applied (15.2)	Normal. Change the "Maintenance hour" if needed.

Measured effect of the “Ignore stationary objects” box (intrusion alarms):

Demonstration video	Box unticked (= 1.2.0)	Box ticked
Car park at night (68 s)	16 alarms (about 850 per hour), all on parked cars	0
Street with traffic lights	47	26
Pedestrians in front of a facade	16	10
Sidewalk under snow	16	8
Total of the 4 scenes	95	44 (–54%)

Measured on 2026-10-14 on our test bench, with our demonstration videos: intrusion zone over the whole image, one alarm every 3 s at most per zone. All alarms on an object that really moves are kept (doubtful cases checked frame by frame: lines of cars stopped at the lights). The 20 cameras of our usual tests (zones, lines, plates) give exactly the same alarms as before.

Logs: “journal_installation.txt” (C:\ProgramData\ElectrioniSafe\IA-N Greffon\) and the plugin log “ian_nx_plugin.log” in its folder (“Support” page of the camera). They only contain counters, durations and states (plates and trial e-mail masked, no camera name). Attach them to any support request.

15 Updating the plugin

15.1 Update with INSTALLER.bat

- Run **INSTALLER.bat** from the new kit: it backs up the installed version, keeps the license, the token, the camera places and the language, replaces the plugin and restarts the video server (about 1 minute). The camera settings are kept by the VMS.
- From a 1.1.x: the plugin stays in French (“Langue / Language” setting on “Automatique / Automatic”, section 7.7); **INSTALLER.bat** also keeps the language file (“ian_nx_langue.json”) during later updates. From a 1.2.0, a 1.1.1 or a 1.1.0: nothing to redo.
- Update of the VMS itself: see section 5 (wait for ElectrioniSafe’s validation).

15.2 Plugin updates: security automatic, new features on request (automatic since 1.3.0, separated since 1.4.0)

“Updates” group of the integration page (Site Administration > Integrations > “IA-N Analyse”):

Setting	Choices
“Plugin updates”	“Security automatic, new features on request” (default, recommended), “Everything automatic”, “Notify me only”, “Disabled”.
“Maintenance hour”	From 00:00 to 23:00, 03:00 by default: local time at which the VMS service is restarted if a downloaded update is still waiting (about 1 minute without recording).
“Check now (tick, then Apply)”	Checks right away; the box unticks itself.
“Install now” button	Installs right away the new version announced by the banner: download, check, then restart of the VMS service only (about 1 minute).

- Two kinds of versions**, marked by ElectrioniSafe and checked by the plugin: the **security fixes** of a version (1.4.1, 1.4.2...) and the **new features** versions (1.5.0...). Each version receives security fixes for **at least 5 years**: a 1.4 plugin receives the latest 1.4 fix, even when a 1.5 exists.
- Security automatic, new features on request**: **once a day**, the plugin checks what ElectrioniSafe has published and **signed**. A security fix of its version installs **by itself**. A new features version is only **announced** in the banner (“New version available: ...”) and installs when you click “**Install now**”. **Everything automatic**: fixes and new features install by themselves.
- The plugin only downloads the **changed files**, checks that the version really comes from ElectrioniSafe (including its kind: a new features version cannot be presented as a fix) and checks each file: otherwise, nothing is applied.
- The version is applied at the **next restart of the VMS** or, at the latest, at the **maintenance hour**: the plugin then restarts the **VMS service only** (about 1 minute without recording), through the small helper program “ian_nx_maj.exe” delivered with the plugin; after “**Install now**”, as soon as the version is ready. Windows is not restarted.
- Automatic return**: if the new version does not start correctly, the previous one comes back by itself, and the faulty version is never taken again.
- Kept**: license, places, settings and language.

- **Notify me only:** nothing is downloaded without a click; the banner announces the available version, to be installed with “Install now” or with INSTALLER.bat (15.1). **Disabled:** no check. Switching to one of these two choices cancels a version downloaded automatically and not applied yet.
- **Network:** the server must reach <https://electronisafe.cloud> (outgoing HTTPS, port 443). **Only the plugin version and the system type are sent:** no key, no server identifier, no personal data.
- The downloaded versions go into the “maj” folder of the plugin (INSTALLER.bat does not touch it). The “Support” page of each camera recalls the update status (“Updates: ...”).

Banner of the “Updates” group	What it means
“Installed version: 1.4.0. No newer version. Last check: ...”	Up to date.
“Version ... downloaded and verified: it will be applied at the next restart of Nx, at the latest at 03:00.”	Version ready: nothing to do.
“Downloading version ... in progress.”	Download in progress.
“New version available: ... (new features): “Install now” button.”	New features version announced: click “Install now” whenever you wish (or choose “Everything automatic”).
“New version available: ... (security fix): “Install now” button.”	“Notify me only” setting: click “Install now”.
“No update published yet.”	Nothing to do.
“Updates disabled: no check.”	“Disabled” setting.
“No check yet.”	First check not done yet (“Check now” to start it).

Refusal, full disk, unreachable server, automatic return: messages and what to do in section 13.

16 Rollback and uninstallation

- **DESINSTALLER.bat:** restores the version backed up by the last installation (CURRENT license, token, places and language kept); if there was no previous version, removes the plugin. Same restart of about 1 minute.
- A version installed by the automatic updates that does not start correctly is removed by itself (15.2): DESINSTALLER.bat is not needed for that. To no longer receive automatic versions: “Plugin updates” setting on “Notify me only” or “Disabled”.
- **DESINSTALLER.bat /all** (same as “/tout”): removes the plugin even if an old version is backed up.
- Nothing is deleted: the removed plugin is set aside in C:\ProgramData\ElectroniSafe\IA-N Greffon\retires\.
- For a permanent removal: first untick IA-N on each camera (the places are freed), then, after DESINSTALLER.bat, delete the “IA-N Analyse” integration in Site Administration › Integrations (the VMS keeps it listed, with the warning “Unable to access SDK Integration”).
- No recording is deleted. The bounding boxes already kept by the VMS go with the archive retention period.

17 IA-N box and plugin on the same VMS server (mixed mode)

Typical case: an IA-N box is full; the customer adds cameras; they are analyzed with the plugin, on the same VMS server.
Example: 16 cameras through the box + 16 through the plugin.

Rule: each camera = ONE source only (the box OR the plugin, never both) and one license only. Otherwise, each person and each vehicle appears twice, and each alarm is raised twice.

- **Box side:** in the IA-N interface, only associate with the VMS output the cameras analyzed by the box.
- **VMS side:** only tick "IA-N Analyse" (Camera Settings > Integrations) on the OTHER cameras.
- **Licenses:** the box cameras are covered by the box licenses; the plugin cameras by the plugin key (1 camera = 1 place).
- **Where a detection comes from:** "Objects" tab, integration filter ("Any plugin"): "IA-N (ElectroniSafe)" or "IA-N Box (ElectroniSafe)" = the box; "IA-N Analyse" = the plugin.
- **Anti-duplicate warning:** if the box AND the plugin are ticked on the same camera, the plugin shows it ("This camera already receives the AI of the IA-N box: keep only one of the two...") and keeps analyzing; the message disappears at the next check (5 minutes at most) once one of the two integrations is unticked.
- **Sizing:** the box cameras only cost the VMS server their recording; the plugin cameras also cost the analysis (figures and conditions: section 4.4).

Feature	Box cameras	Plugin cameras
Bounding boxes, alarms, VMS event rules	Yes (output to the VMS)	Yes
Alert center, logbook of the box	Yes	No
Sending to remote monitoring through the box	Yes	Yes: "Alarm monitoring centre" page (12.2)
License plate reading	Yes, by the box	Plates option of the plugin
Settings (zones, lines, durations)	In the IA-N interface	In the VMS client

18 GDPR: what remains the customer's responsibility

- **Roles:** ElectroniSafe is the software manufacturer. The customer (or its operator) is the controller of the processing of the images: purpose, legal basis, information of the people, retention period, data protection impact assessment (DPIA) — video surveillance with automatic analysis is high-risk processing.
- **No image leaves the VMS server:** the plugin analyzes the frames in memory, records none and sends none. For the license, only the following go to the ElectroniSafe portal (hosted in Europe): the key, the number of cameras, hashed technical fingerprints of the server (no personal data), the versions of the VMS and of the plugin.
- **Alarm monitoring** (section 12.2, only if enabled): alarms also go to the centre chosen by the customer (account, code, zone, time and, if enabled, short text and link; no image). The centre is a recipient: to be entered in the record and the DPIA, with a processing agreement.
- **Site GDPR file:** "Prepare the GDPR file" button (Site Administration > Integrations > "IA-N Analyse", "GDPR file" group). The server configuration goes to the ElectroniSafe portal WITHOUT personal data (versions, number of cameras, tier, rule types, number of excluded zones; no image, no address, no camera identifier, no zone name; camera names only if the box is ticked). The portal prepares the record, the DPIA, the information notices and the signage, and e-mails them to the license holder (link valid for 7 days). Without Internet: the configuration is written to "ian_nx_dossier_rgpd.json" (plugin folder), to upload in the portal.
- **Free trial requested from the VMS** (7.8): in addition, the business e-mail, the company, the country and the language entered in the form are sent (the e-mail is personal data of the person requesting the trial; plugin terms of use accepted in the form). The plugin only keeps the e-mail masked. **Automatic updates** (15.2): only the plugin version and the system type are sent to electronisafe.cloud.
- **Camera places:** the places file, kept on the server, only contains technical identifiers of VMS cameras (no name, no image).
- **Retention:** bounding boxes, alarms and plates are kept by the VMS, with the retention period the customer sets in the VMS (video surveillance: 30 days maximum by default).
- **Information of the people:** on-site sign and notices, the responsibility of the customer and the installer; mention the automatic analysis (AI) of the images.

- **The plugin never tries to find out who a person is:** no biometric data. Plates: option to enable camera by camera, in a tight polygon (section 11).
- **Mask** private areas (neighbors' windows, public road not concerned) with the excluded zones (10.2) and, for the recorded image, with the camera's privacy mask; only draw the IA-N zones on the monitored areas.

19 Third-party components

The plugin contains third-party components: see the LICENCES_TIERCES.txt file delivered in the kit and in the plugin folder (keep it with the plugin).

20 Contact

ElectroniSafe support: support@electronisafe.fr · <https://electronisafe.cloud/en/support.html>. For support: attach "journal_installation.txt", the plugin log (ian_nx_plugin.log), the VMS version and a capture of the integration banner (key masked).

IA-N is software designed and developed in France by ElectroniSafe. Nx Witness is a trademark of Network Optix. Wisenet WAVE is a trademark of Hanwha Vision; DW Spectrum, of Digital Watchdog. Edition of 2026-10-14, for plugin 1.4.0.