

IA-N Analyse plugin on Linux

Install, update, roll back and remove the plugin on an Nx server running Ubuntu; license, trial, language and automatic updates

IA-N plugin 1.4.0 ("IA-N Analyse") · Linux video server (Ubuntu 22.04 / 24.04) · English, French, German, Spanish or Italian

In the package: `installer_linux.sh` installs, updates, restores the previous version or removes the plugin (sections 3 to 10). Setting up the cameras in the VMS is the same as on Windows: "Zone setup guide" in the docs/ folder.
Status: proven in real Linux VMS servers (Ubuntu 22.04 and 24.04).

1 In brief

- **What it is:** a module ("plugin") installed INSIDE the customer's Nx 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 extra connection to the cameras.
- **One program:** `installer_linux.sh`, run with `sudo`, installs, updates, restores the previous version, tells what is installed or removes the plugin. It touches neither the cameras, nor the storage, nor the VMS settings, and only restarts the video server service (a few seconds without video).
- **One key per Nx server**, entered only once in the VMS client; 1 camera = 1 license place. No key yet: 30-day free trial requested from the VMS (section 6).
- **Processing:** on Linux, the analysis runs on the CPU.

Test of 2026-10-14 in a real VMS on Ubuntu 22.04: installation over a 1.2.0 version (license and state files kept), automatic update to a corrective test version, automatic return from a version that does not start.

2 What the server needs

Item	Requirement
System	Ubuntu 22.04 or 24.04, 64-bit (x86-64).
Video server	Linux version. 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: ask ElectroniSafe before installing.
Rights	<code>sudo</code> (root rights) on the server; a VMS administrator account.
libcurl4 library	For online license activation, the free trial and automatic updates. Without it: activation by file only (section 6). Check: <code>ldconfig -p grep libcurl.so.4</code> ; install: <code>sudo apt install libcurl4</code> (Ubuntu 22.04) or <code>sudo apt install libcurl4t64</code> (Ubuntu 24.04).
Network	No extra connection to the cameras. Outgoing HTTPS (port 443) to <code>licence.electronisafe.cloud</code> (license activation and check, free trial) and to <code>electronisafe.cloud</code> (automatic updates, once a day).
CPU	The plugin runs on the CPU. Keep about 30% of the CPU for the VMS itself. Start with a few cameras, check the load of the "mediaserver" process (<code>top</code> command), then add more.
VMS licenses	One VMS recording license per analyzed camera. The VMS only sends frames to the plugin if the camera is recorded or watched.
IA-N key	The license key (format IAN-GNX-...): one key per server, to be treated like a password.

3 Copying and checking the package

- 1. Copy `IA-N_Analyse_Linux_1.4.0.tar.gz` to the server, then extract it and enter its folder: `tar -xzf IA-N_Analyse_Linux_1.4.0.tar.gz` then `cd IA-N_Analyse_Linux_1.4.0`.

- 2. Check the package: `sha256sum -c SHA256SUMS.txt`: every line must say "OK". A failed line = damaged or modified package: do not install it, download it again.
- Contents: `installer_linux.sh` (installation program), `ian_nx_plugin/` (the plugin: do not rename anything), `docs/` (guides), `LICENCES_TIERCES.txt` (third-party licenses), `SHA256SUMS.txt` (checklist).
- Plugin files: `libian_nx_plugin.so` (small loader, the file the VMS loads), `libian_nx_coeur.so` (the plugin itself), `libian_rt.so` (processing library), `ian_a.bin` to `ian_d.bin`, `LICENCES_TIERCES.txt`.

4 Installing or updating

In the extracted folder: `sudo ./installer_linux.sh install` (French alias: "installer"). Warn the customer: the video server service restarts (a few seconds without video).

- The program finds the video server in `/opt` (table below) and shows "Video server: ... (version ...), service ...".
- It prepares the new version alongside, keeps the **current** state files (license, token, places...) and a copy of the installed version for rollback (section 9), then puts the new version in place in one go: never a half-finished copy.
- It gives the files to the VMS service account, sets the restart rule for automatic updates if needed (section 8), then restarts **only** the video server service and checks that it is running.
- Messages: "State files kept: ...", "Plugin copied to ...", "Service ...: active.", then the reminder to enter the license key once in the VMS client (section 6).

Video server	Folder	Service
Nx Witness	<code>/opt/networkoptix</code>	<code>networkoptix-mediaserver</code>
Nx Meta	<code>/opt/networkoptix-metavms</code>	<code>networkoptix-metavms-mediaserver</code>
DW Spectrum	<code>/opt/digitalwatchdog</code>	<code>digitalwatchdog-mediaserver</code>
WAVE	<code>/opt/hanwha</code>	<code>hanwha-mediaserver</code>

The plugin is copied to `<folder>/mediaserver/bin/plugins/ian_nx_plugin/`. The rollback copy and a copy of the state files are kept in `/var/lib/ian_nx_plugin/`.

Options

Option	Effect
<code>--language fr en de es it</code> (or <code>--langue</code>)	Message language. Without the option: the language already chosen by the plugin on this server; otherwise French for an update from a 1.1.x; otherwise the system language (LC_ALL, LC_MESSAGES, LANG, then <code>/etc/default/locale</code> and <code>/etc/locale.conf</code>): French, German, Spanish or Italian if it is one of them, otherwise English.
<code>--dossier-greffon <folder></code>	Install the plugin from another folder than the package's <code>ian_nx_plugin/</code> .

What is kept at an update

- Running "install" again with the new package is enough. The state files are kept as they are at the time of the update: "ian_nx_licence.json" (license), "ian_nx_etat.json", "ian_nx_demande.json", "ian_nx_jeton.json" (anti-copy token), "ian_nx_places.json" (camera places), "ian_nx_plugin.log" (log), "ian_nx_langue.json" (language), "ian_nx_essai.json" (trial), "ian_nx_maj.json" and "ian_nx_chargeur.json" (automatic updates). The camera settings are kept by the VMS.
- Reinstalling the same package: the rollback copy stays the one of the version before.
- The versions downloaded by the automatic updates ("maj" folder of the plugin) do not go into the rollback copy.

Alarm monitoring (1.4.0): the plugin's "telesurveillance" folder (alarms waiting for the alarm monitoring centre, monthly log without personal data) is kept too: copied to `/var/lib/ian_nx_plugin/` and put back into the plugin at each installation, update and rollback, and kept in `/var/lib/ian_nx_plugin/` on removal. Only the VMS service account can read it.

5 Checking

- `sudo ./installer_linux.sh status` (French alias: "etat"): "Installed: ..." with the plugin files, the last 5 lines of its log and the service state ("active"); otherwise "Not installed." (checked off-server).
- VMS client, **Site Administration** > **Integrations**: "IA-N Analyse" must appear; the banner at the top of its settings gives the license, the camera places, the processing and the VMS version.
- Never rename the "ian_nx_plugin" folder or its files: the VMS keeps the name of an integration installed a first time.

6 License, free trial and language (in the VMS client)

License key (once per server)

- VMS client: Site Administration > Integrations > "IA-N Analyse", "IA-N License" frame, "License key" field: paste the key, then Apply. The plugin activates it by itself with the ElectroniSafe portal and counts the cameras itself.
- Right after, the banner 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.
- **Site without Internet (or without libcurl4)**: enter the key, tick "Site without Internet: create the request file (to send to your distributor)", Apply; send the "ian_nx_demande.json" file written in the plugin folder; paste the content of the license file you receive into "Site without Internet: paste here the content of the license file you received", then Apply.
- The license is bound to the server (hashed hardware fingerprints, no personal data): a copy of the disk on another machine is refused; for a new server, ask the distributor for a transfer.
- **1 camera = 1 place**: a ticked camera without a free place waits ("Waiting for a place") and is not analyzed, the others go on; unticking IA-N on a camera frees its place.

30-day free trial requested from the VMS (proven with the real portal)

- Proven on 14/10/2026 with the real ElectroniSafe portal. If the portal answers that trials are not open (country, address), ask the distributor for a trial key.
- Server without a key: same page, group "Start the 30-day free trial": "Business e-mail", "Company", "Country", tick "I accept the plugin terms of use", tick "Start the trial (tick, then Apply)", then Apply. Click the link in the e-mail you receive within 48 hours: the trial key installs itself. libcurl4 is required.
- Never a trial if a key is already entered; the VMS is never disturbed if the portal does not answer; the e-mail only appears masked in the plugin log.

Langue / Language

- "Langue / Language" setting (same page): "Automatique / Automatic" (default), "Français", "English", "Deutsch", "Español" or "Italiano".
- Automatic: French after an update from a previous version (1.1.x, all in French); otherwise the system language (LC_ALL, LC_MESSAGES, LANG, then /etc/default/locale and /etc/locale.conf); if none is found (C, POSIX), the VMS site language. French, German, Spanish or Italian if it is one of them, otherwise English. Nothing is lost when changing the language.

7 Cameras and alarm rules

- For each camera: Camera Settings > Integrations > "IA-N Analyse": tick IA-N, choose the analysis level, Apply. On Linux (processing on the CPU), keep the Standard level; the Precision level is not recommended on the CPU. The cameras must be recording in the VMS.
- Alarm rules (Premium tier): "Alarm rules" page of the camera, one page per rule. Details and real examples: "Zone setup guide" (docs/ folder).
- **"Ignore stationary objects"** (new in 1.3.0, ticked by default) in the zones of the Intrusion, Zone entry / exit, Loitering and Dwell time rules: a vehicle or an animal is only reported if it has really moved; a person is reported once, on arrival; an object already there when the rule starts gives no alarm as long as it does not move.

8 Updates: security automatic, new features on request

“Updates” group of the integration page, as on Windows: “Plugin updates” = “Security automatic, new features on request” (default), “Everything automatic”, “Notify me only” or “Disabled”; “Maintenance hour” (03:00 by default); “Check now (tick, then Apply)”; “Install now” button.

- Once a day, the plugin checks what ElectroniSafe has published and signed (<https://electronisafe.cloud>, outgoing HTTPS). A **security fix** of its version installs by itself (each version receives fixes for at least 5 years); a **new features** version is announced by the banner and installs when you click “Install now” (or by itself with “Everything automatic”). Only the changed files are downloaded, and each file is checked: otherwise, nothing is applied.
- The version is applied at the next restart of the VMS service or, at the latest, at the maintenance hour (after “Install now”: as soon as it is ready): the plugin then restarts **only** the VMS service (`systemctl --no-block restart`).
- **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. License, places, settings and language are kept.
- Only the plugin version and the system type are sent.
- “Notify me only”: nothing is downloaded without a click, the banner announces the version; “Disabled”: no check.

Restart rule (sudoers)

- VMS service running as root: nothing to set.
- Otherwise, the installer allows, for the **VMS service account only, one single command**: the restart of the VMS service. File `/etc/sudoers.d/ian_nx_plugin` (permissions 0440), checked by visudo before being set (if refused, nothing is set). Its content:

```
<VMS service account> ALL=(root) NOPASSWD: /usr/bin/systemctl --no-block restart <VMS service>.service
```

- Nothing else is allowed. The file is removed by the uninstallation (section 10).
- Without this rule, the downloaded version is applied at the next restart of the VMS service.

Banner of the “Updates” group	What to do
“No newer version.”	Nothing: up to date.
“Version ... downloaded and verified: it will be applied at the next restart of Nx, at the latest at 03:00.”	Nothing: version ready.
“Check not possible (update server unreachable): new attempt later.”	Allow outgoing HTTPS to electronisafe.cloud ; check libcurl4.
“Update waiting: not enough disk space.”	Free some space on the server disk.
“Version ... did not start correctly: the previous version was put back automatically.”	Nothing urgent; send the plugin log to ElectroniSafe.

9 Rollback

- `sudo ./installer_linux.sh rollback` (French alias: “retour”): puts back the version kept at the last update, with the **current** state files, then restarts only the VMS service. Message: “Previous version restored in ... (license, token, places, log and language kept).”
- The removed version is kept in turn: a **2nd rollback** puts it back.
- No version kept (first installation): “No previous version kept (...): nothing to restore. To go back to a given version, run the installer of its package.”
- A version installed by the automatic updates that does not start correctly is removed by itself (section 8): no need for “rollback”.

10 Uninstalling

- Before: untick IA-N on each camera (the places are freed).
- `sudo ./installer_linux.sh uninstall` (French alias: “desinstaller”): removes the plugin folder and the `/etc/sudoers.d/ian_nx_plugin` rule, then restarts only the VMS service. Message: “Plugin removed from ... (license, token, places and log kept in `/var/lib/ian_nx_plugin`).” (checked off-server).

- **What remains:** /var/lib/ian_nx_plugin/ (state files: license, token, places, log... and the “ancien_greffon” rollback copy); a reinstallation takes them back. For a server taken out of service, this folder can be deleted by hand; the license is transferred through the distributor.
- In the VMS client: 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.

11 Troubleshooting

What you see	Probable cause	What to do
“Run it with sudo.”	Program run without sudo	Run it again with sudo.
“No Nx server found in /opt (networkoptix, networkoptix-metavms, digitalwatchdog, hanwha).”	Video server missing, or installed elsewhere	Check the installation of the Nx server; otherwise contact ElectroniSafe.
“Plugin not found: .../libian_nx_plugin.so”	Run outside the extracted folder, or ian_nx_plugin/ folder renamed	Run it from the extracted folder (or --dossier-greffon).
“WARNING: ... does not restart (journalctl -u ...).”	The video server does not restart	Read <code>journalctl -u <service></code> ; roll back (rollback); send the log to ElectroniSafe.
License never activated, trial or updates impossible although the server reaches the Internet	libcurl4 missing	Install libcurl4 (Ubuntu 24.04: libcurl4t64), then restart the VMS service; otherwise activation by file (section 6).
Downloaded version never applied at the maintenance hour	No restart rule (service not running as root and rule refused or removed)	It is applied at the next restart of the VMS service; run “install” again to set the rule again.
“No previous version kept (...)”	No update yet on this server	Normal; for a given version, run the installer of its package.
Problem after an update	New version involved	Roll back: <code>sudo ./installer_linux.sh rollback</code> .

Logs: plugin log “ian_nx_plugin.log” in its folder (/opt/<server>/mediaserver/bin/plugins/ian_nx_plugin/): states and counters only (plates and trial e-mail masked, no camera name); service log: `journalctl -u <service>`. Attach them to any support request, with the output of “status”.

12 GDPR: what leaves the server

- **Roles:** ElectroniSafe is the software manufacturer. The customer (or its operator) is the controller of the processing of the images: purpose, information of the people, retention period, impact assessment.
- **No image leaves the VMS server:** the plugin analyzes the frames in memory, records none and sends none. It never tries to find out who a person is: no biometric data.
- **What leaves, and only that:** for the license, the key, the number of cameras, hashed technical fingerprints of the server and the versions of the VMS and of the plugin; for the trial requested from the VMS, the business e-mail, company, country and language entered; for the updates, the plugin version and the system type.
- **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).

Alarm monitoring and GDPR file (1.4.0): if alarm monitoring is enabled (VMS client, Site Administration › Integrations › “IA-N Analyse”, “Alarm monitoring centre” page, then the same page on each camera), 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 (record, DPIA, processing agreement). The “Prepare the GDPR file” button sends the server configuration without personal data to the ElectroniSafe portal; the file is e-mailed to the license holder.

13 Contact

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

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