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Wanesy Management Cockpit

Release note

Version 4.12.0



v1.0 – November 2026



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Wanesy Management Cockpit – Release note V4.12.0

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Section 1

Key benefits

Key benefits

Faster remote troubleshooting

- Open a supported gateway's local web interface directly from Cockpit
- Follow remote-access request progress and connection readiness

Clearer software diagnostics

- View installed package information on **KerOS 5** gateways
- Identify package differences against the official KerOS release on **KerOS 6** gateways

Safer onboarding

- Validate gateway declarations against Kerlink shipment records
- Verify the required **PIN code** or **MAC address** where applicable

More efficient fleet onboarding

- Import gateways using an updated CSV template
- Review validation errors by line before resubmitting the corrected file

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Section 2.a – New feature

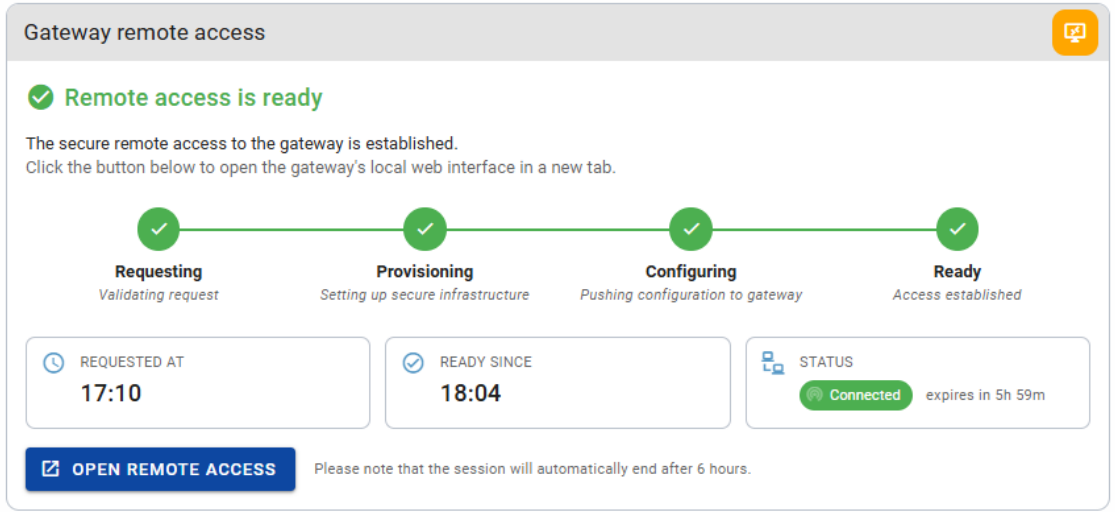
Remote access to the gateway web interface

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Remote gateway access

What's new

- Request on-demand remote access from the gateway's **ACTIONS → Remote access** page
- Open the gateway's local web interface in a new browser tab once the connection is ready
- View request progress, estimated ready time and the session expiry countdown
- Find and open gateways with remote access ready from the **gateway list** and the **top bar**



Why it matters

- Investigate a gateway remotely without requiring a public IP address or an inbound firewall opening
- Access the local interface for maintenance and support operations

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Remote gateway access – process overview



Requesting	Provisioning	Pending	Configuring	Ready
User confirms the request in Cockpit	Setting up the secure infrastructure; can still be cancelled	Waiting for the gateway's next check-in; can still be cancelled *Not shown as a separate step in the UI*	Pushing configuration to the gateway; secure connection being set up	OPEN REMOTE ACCESS available for 6 hours

Cancel

The request can be cancelled (with confirmation) in **Requesting**, **Provisioning** or **Pending**; until the configuration is pushed to the gateway

No connection after 10 min

If the gateway is not connected 10 minutes after pushing the configuration to the gateway, an error is shown; **RETRY** refreshes the status or restarts the request.

Session window

Once ready, the remote access stays available for **6 hours**, with an "expires in" countdown.

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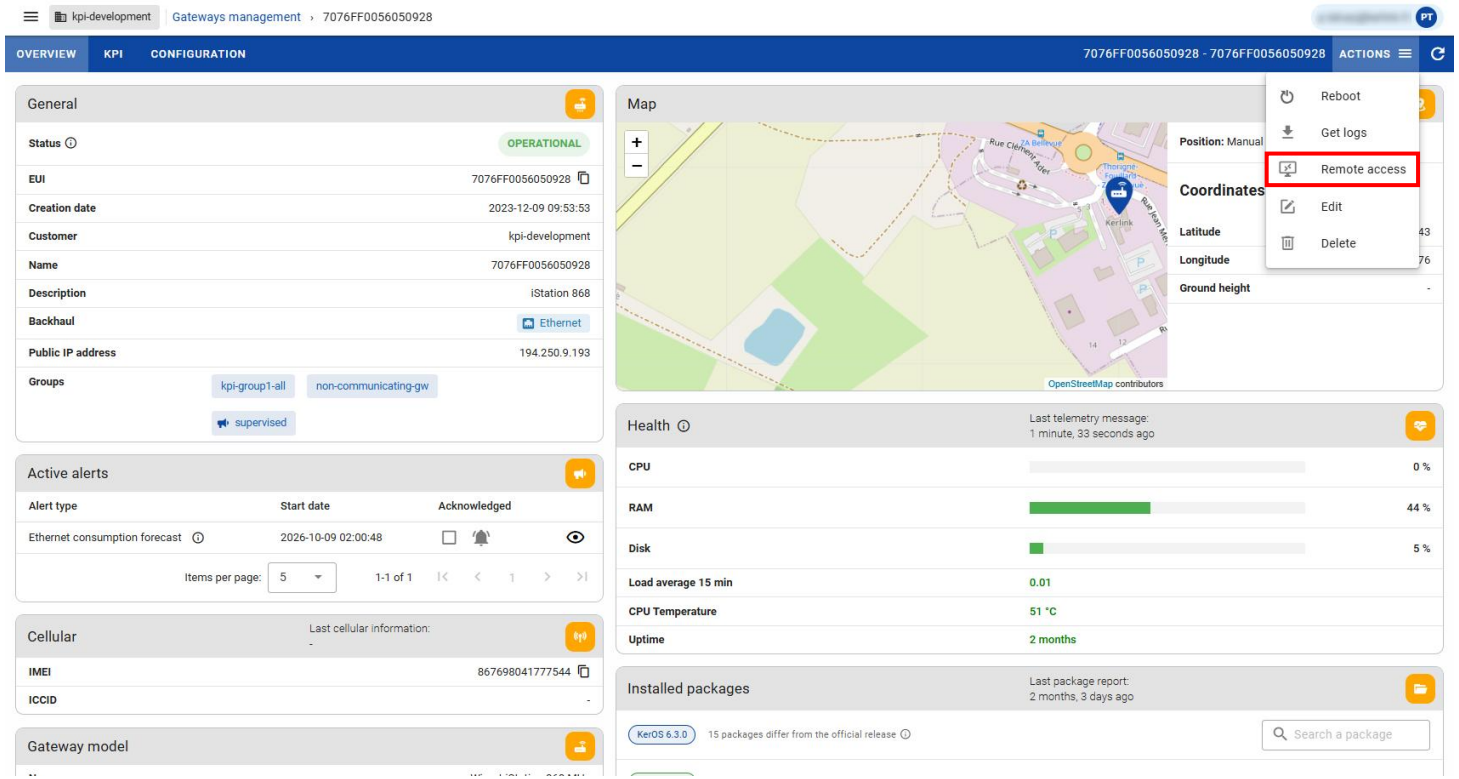
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Remote gateway access

STEP 1 / 7

Open the Remote access page

- Open a KerOS 6 or later gateway
- In the gateway toolbar, select **ACTIONS → Remote access**
- A dot on the menu entry shows that a request is already in progress



On KerOS 5 gateways the entry is disabled, with a tooltip explaining that KerOS 6 or later is required

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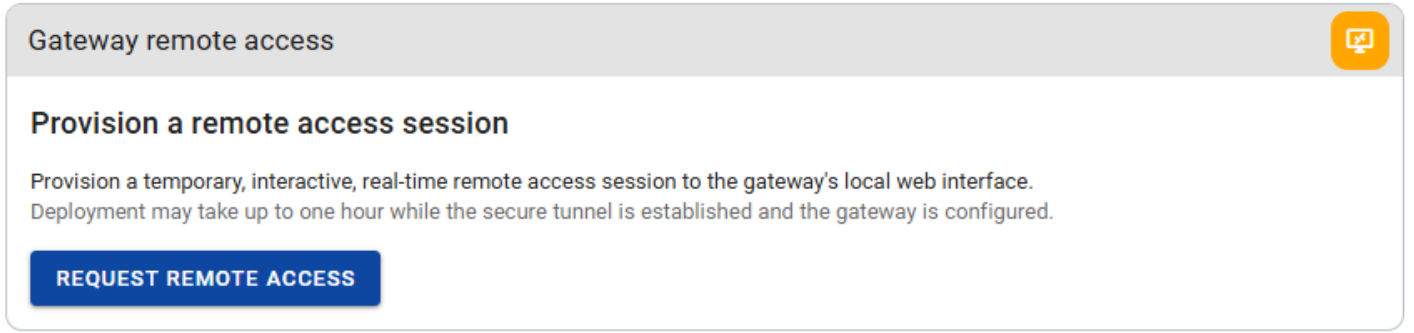
Remote gateway access

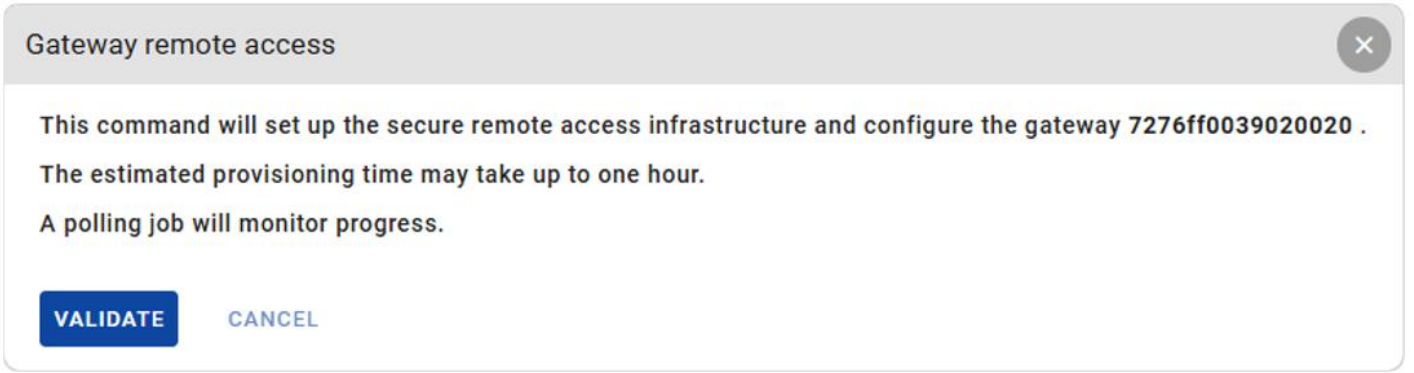
STEP 2 / 7

Request remote access

- The page shows the gateway remote access card, with no request in progress
- Click **REQUEST REMOTE ACCESS**
- A confirmation pop-up opens: nothing is sent to the gateway until you confirm
- Click **VALIDATE** to set up the remote access infrastructure and configure the gateway

Available to administrators allowed to send gateway actions





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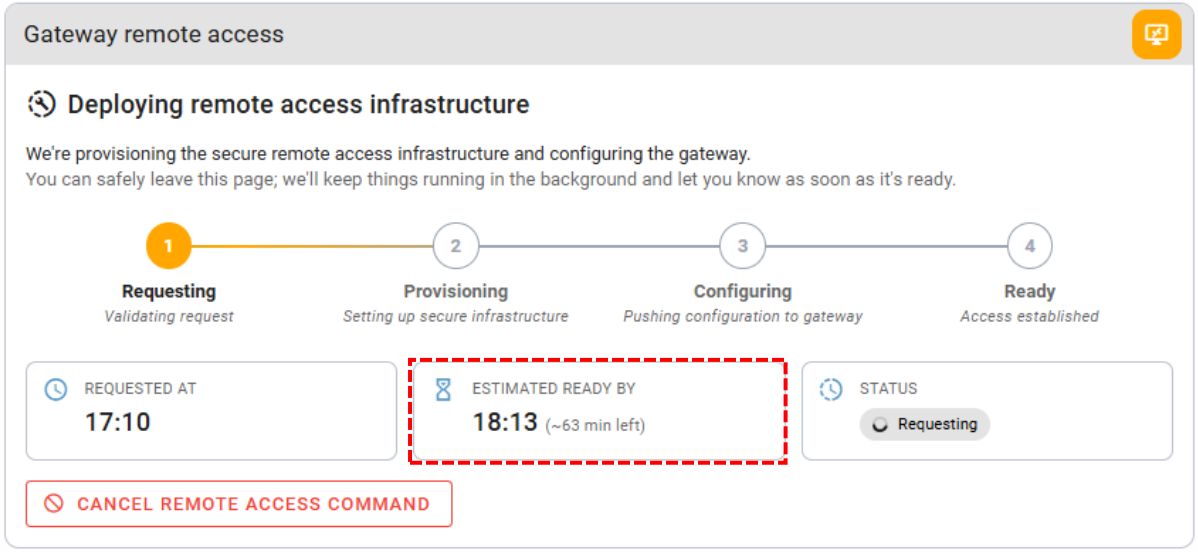
Remote gateway access

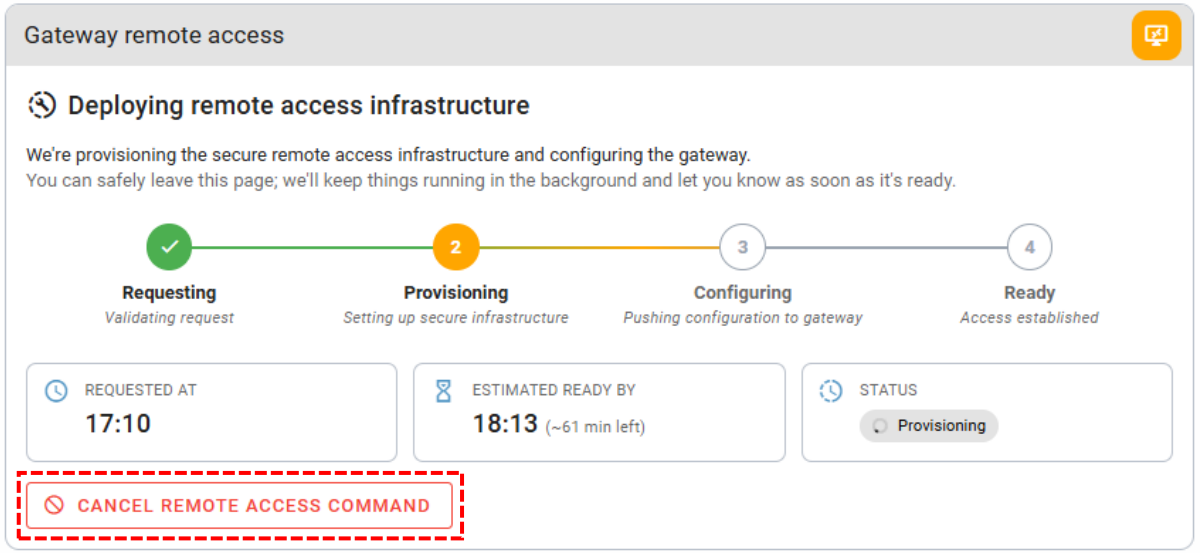
STEP 3 / 7

Follow the request

- A timeline shows **Requesting → Provisioning → Configuring → Ready**
- An estimated ready time is displayed
- Click **CANCEL REMOTE ACCESS COMMAND** to withdraw the request while it is in Requesting, Provisioning or Pending; until the configuration is pushed to the gateway

The command reaches the gateway at its next check-in (telemetry message), so the transition to Ready can take up to one hour





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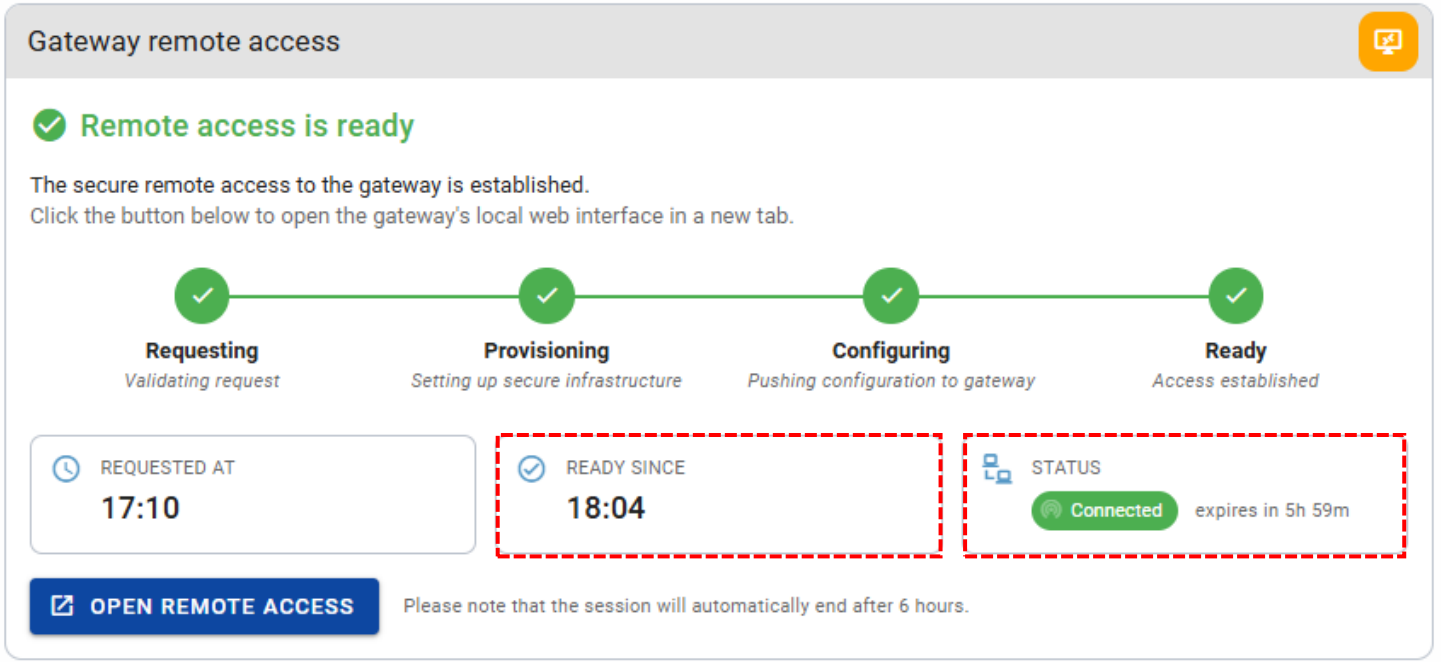
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Remote gateway access

STEP 4 / 7

Remote access is ready

- Status switches to **Ready**, with the “connected since” time
- An “expires in” countdown shows the remaining time in the 6-hour window
- Click **OPEN REMOTE ACCESS**



The countdown is highlighted during the last 30 minutes.

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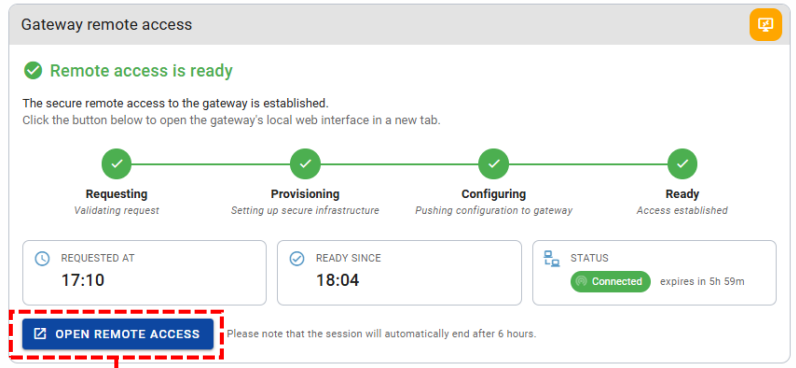
Remote gateway access

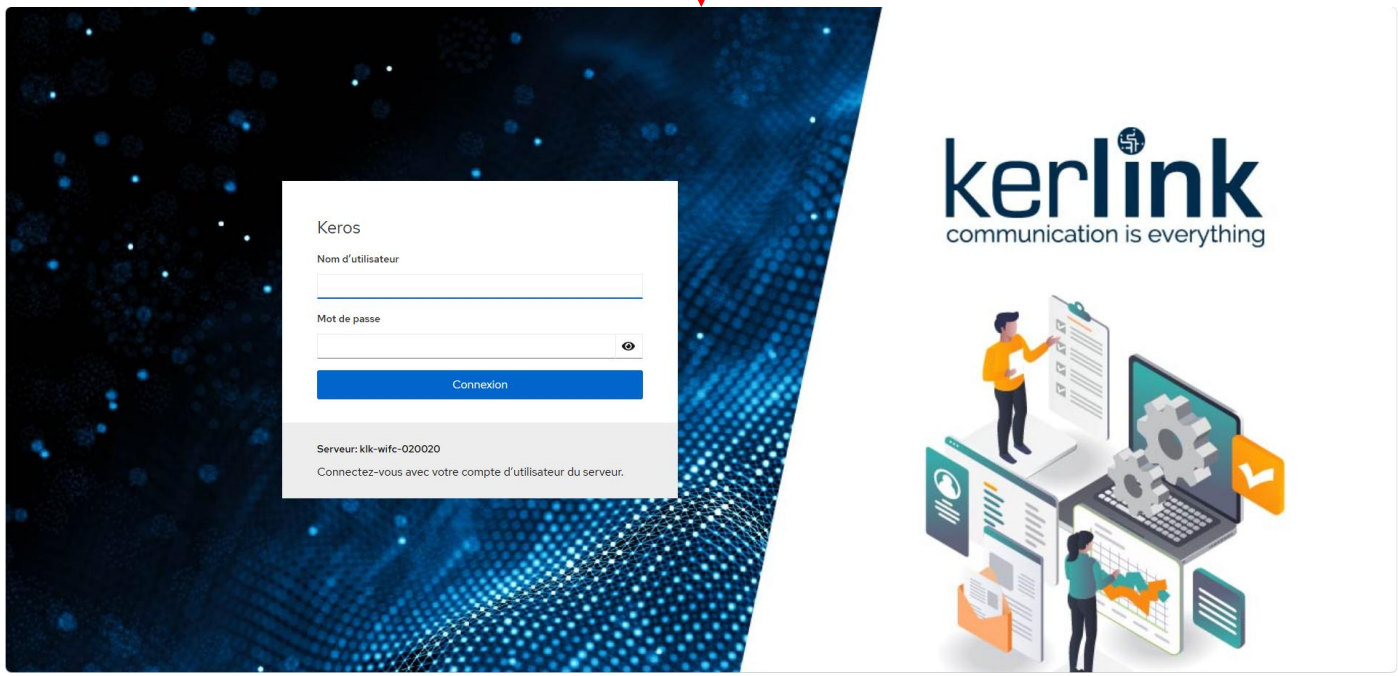
STEP 5 / 7

Work in the gateway web interface

- The gateway's **local web interface** opens in a new browser tab
- Access goes through Cockpit authentication: no URL to build, no public IP or inbound port needed
- Use the local interface for maintenance and support operations

Local web interface only: no SSH or other port is opened.





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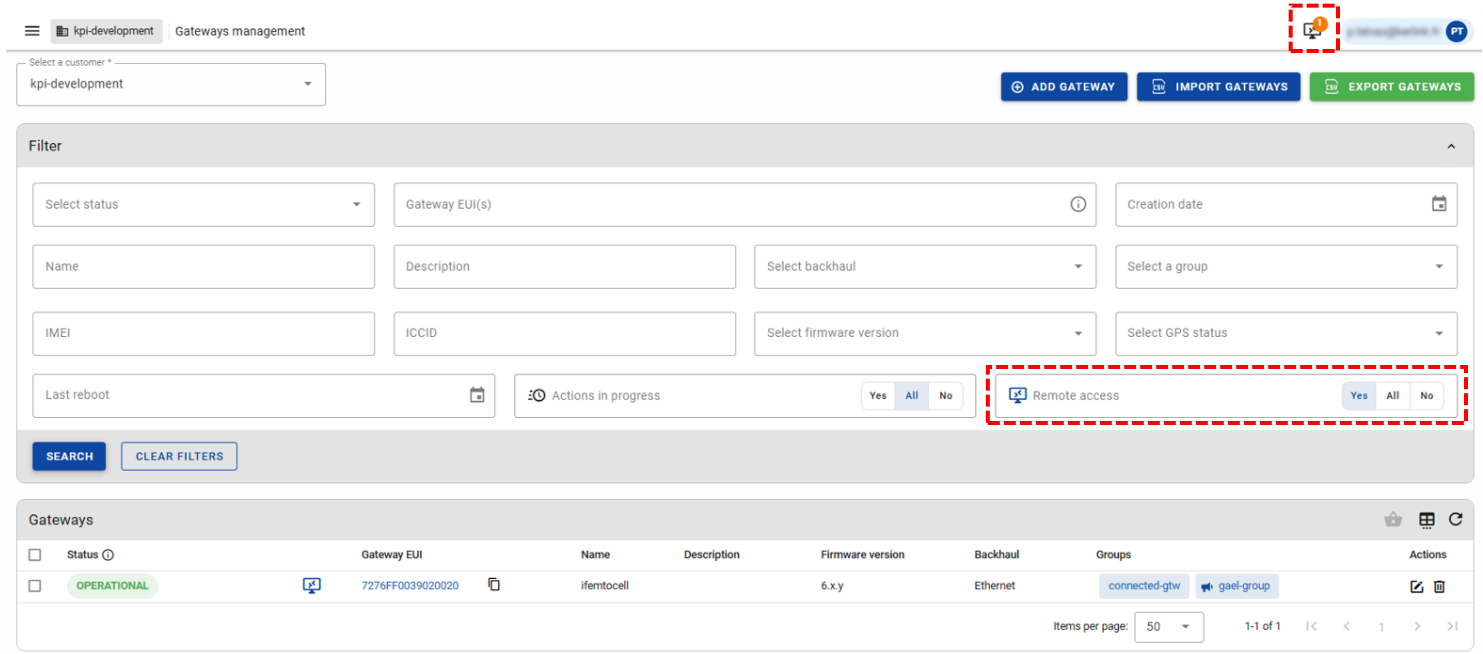
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Remote gateway access

STEP 6 / 7

See all gateways with remote access ready

- A **top-bar indicator** shows how many gateways currently have remote access ready
- The tooltip gives the count, e.g. “1 gateway with remote access”
- Click the indicator to open the gateway list filtered on Remote access = **Yes**



The count is updated when the page loads or the customer changes

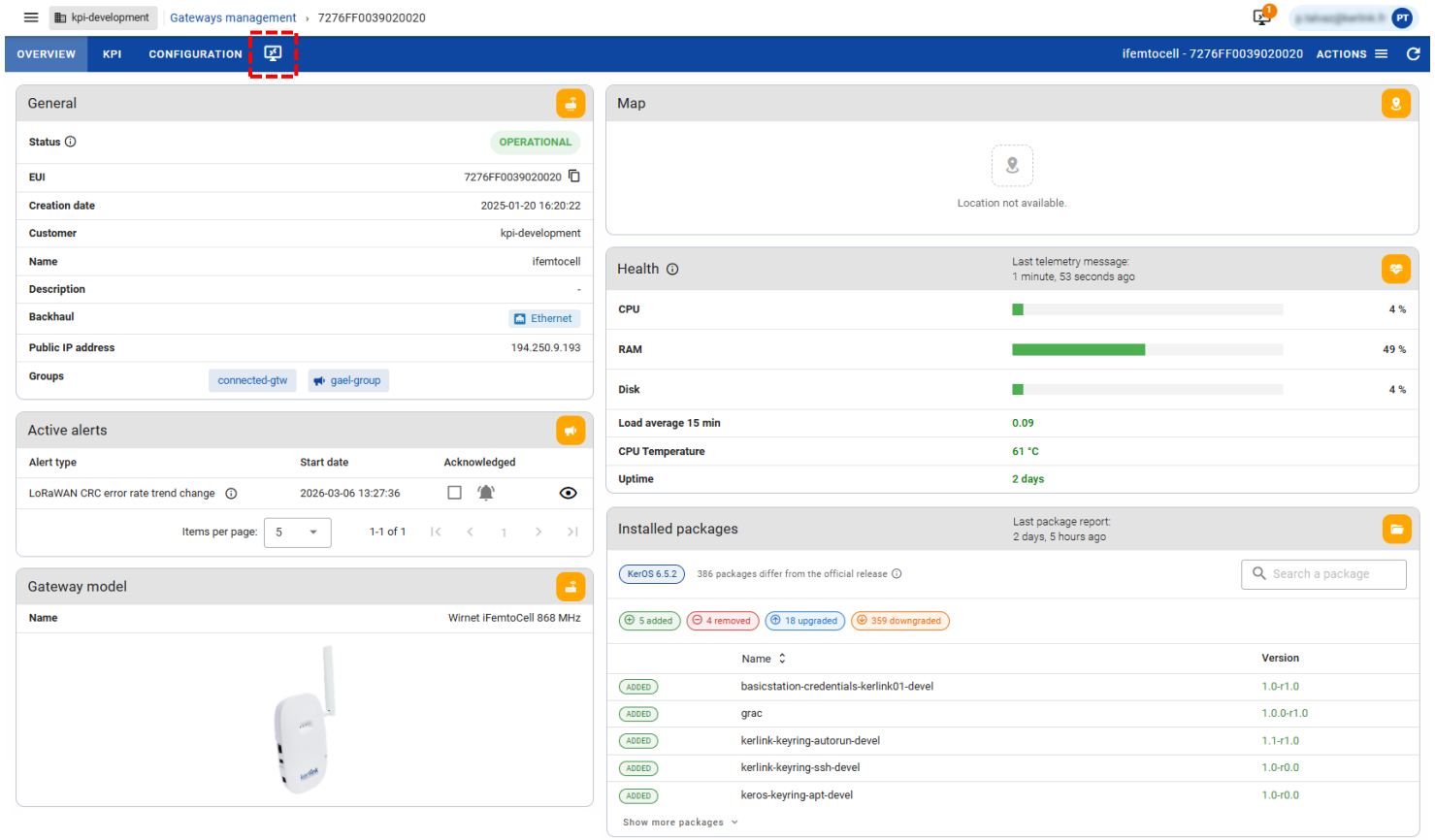
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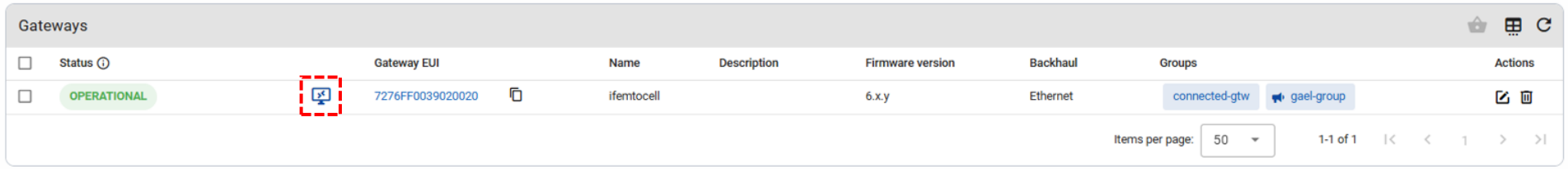
Remote gateway access

STEP 7 / 7

Open remote access from the list or overview

- In the gateway list, filter on **Remote access** and click the row icon
- In the gateway overview, use the remote access button in the toolbar
- Both open the local web interface directly in a new tab; tooltips show the ready time





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Compatibility and limits

Remote gateway access

- **KerOS 6 or later** gateways only; on KerOS 5 (or unknown version) the request is disabled with an explanation
- Requested by administrators allowed to send gateway actions, on gateways they manage
- Access to the **local web interface** only – not general-purpose SSH or arbitrary port forwarding
- Default access window of **6 hours**; user-selectable durations are not part of the initial scope
- Each remote-access session targets **one gateway**; this is not a group-level session

Remote access package

Included natively from KerOS 6.6. On earlier KerOS 6 versions, the required package is installed automatically when remote access is set up.

Network prerequisites

TCP access on port 443 to *gateway.remote.warc.wanesy.com*

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Section 2.b – New feature

KerOS package visibility and software drift

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KerOS package visibility

What's new

- Package information is available in the gateway **overview** and **software-update** pages

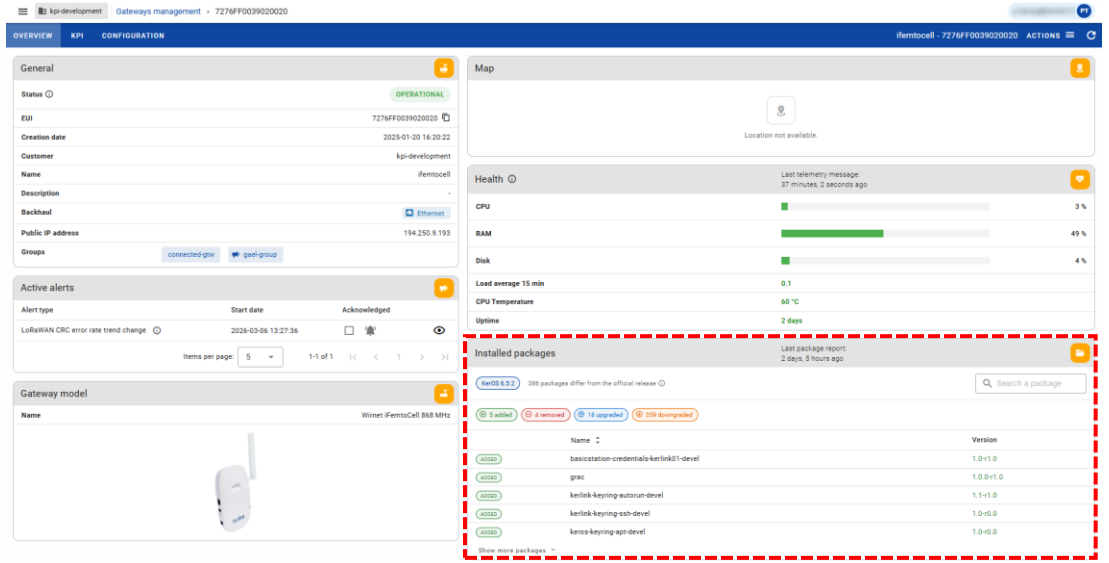
KerOS 5

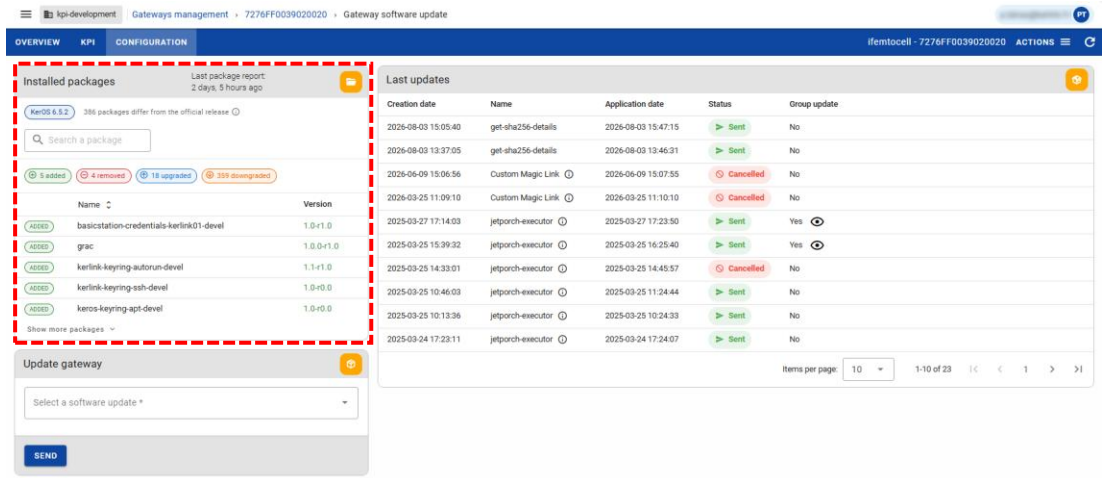
Package-name and package-version table

KerOS 6

Base KerOS version, gateway type, manifest identifier (SHA1) and drift summary vs the official release

Drift labels Added | Upgraded | Downgraded | Removed





Why it matters

- Identify software differences when investigating an issue
- Better understand how a gateway differs from the official software baseline

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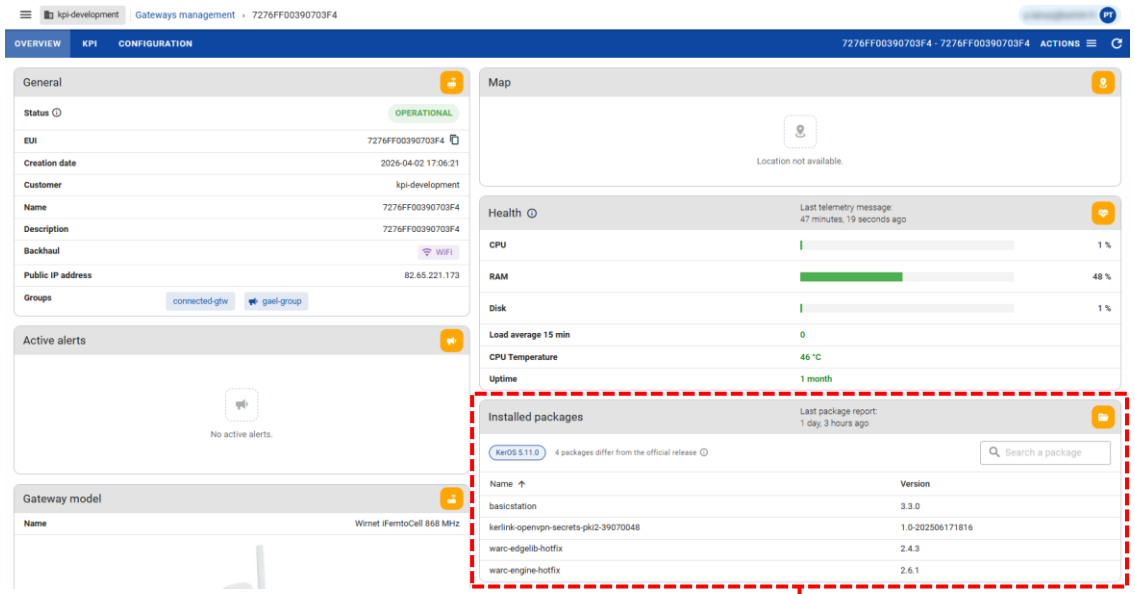
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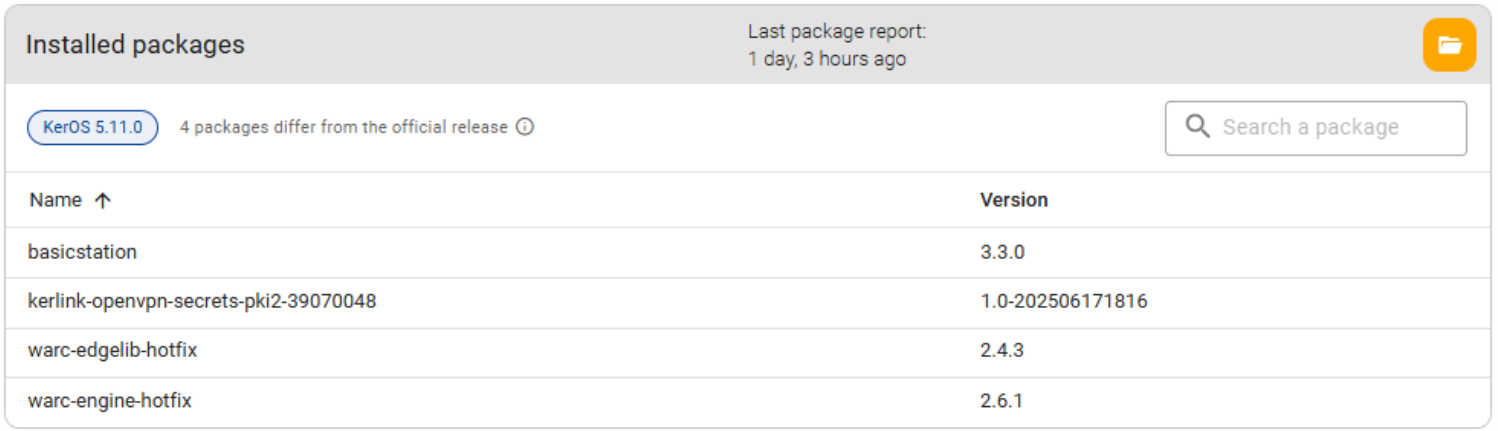
KerOS package visibility

STEP 1 / 2

KerOS 5 gateways: installed packages

- Open the gateway **overview** or **software-update** page and locate **Installed packages**
- A version badge and a **keros** tag show the installed KerOS version
- The table lists each package **name** and **version**; use **Show more packages** to expand





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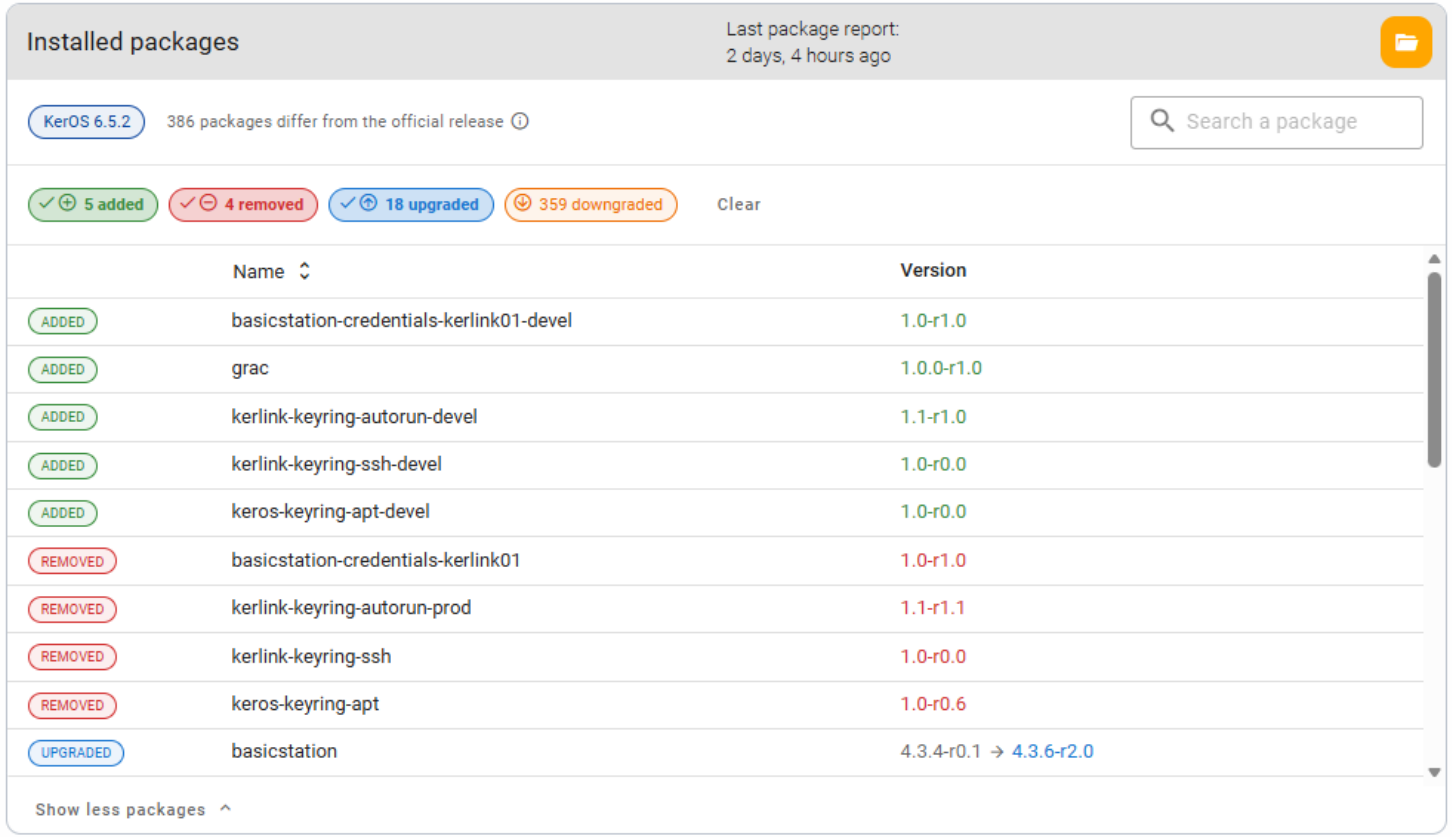
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KerOS package visibility

STEP 2 / 2

KerOS 6 gateways: drift against the official release

- Badges show the KerOS version, gateway type and package manifest identifier (SHA1)
- Summary badges count **added**, **upgraded**, **downgraded** and **removed** packages
- Each row is labelled **ADDED**, **UPGRADED**, **DOWNGRADED** or **REMOVED**



Only differences from the official release are listed. If the manifest is unknown, retrieval can take a while.

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Section 2.c – New feature

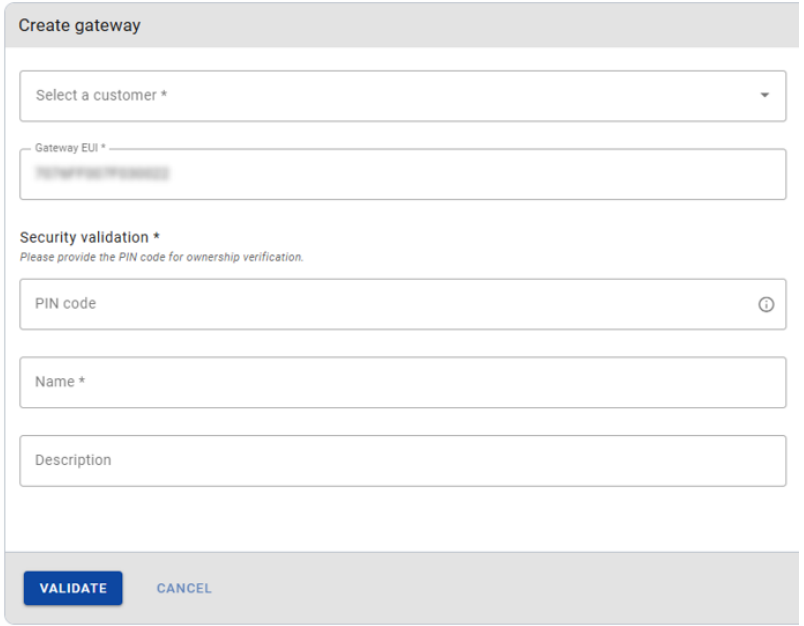
Secured gateway creation

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Secured gateway creation

What's new

- Gateway creation uses **Kerlink shipment data** to determine the verification required for the gateway EUI
- The form asks for the **PIN code** (Wirnet iZeptoCell today) or the **MAC address** (rest of the fleet)
- When a PIN exists, it is required: the MAC address cannot be used instead
- Gateways unknown in Kerlink shipment data or already declared are rejected with a clear error



Why it matters

- Reduce accidental declarations caused by an incorrect EUI
- Add a possession check when the shipment record provides a PIN or MAC verification factor

Security positioning

This improves declaration checks; it is not a guarantee of legal ownership or proof that the declaring customer was the original purchaser.

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Secured gateway creation – how it works

How it works

1. Enter the gateway EUI in the creation form
2. Cockpit checks the shipment record and shows the required field, or states that no security validation is required
3. Enter the PIN code supplied with the gateway, or the MAC address (XX:XX:XX:XX:XX:XX)
4. Complete the gateway details and submit
5. If verification fails, correct the information or contact Kerlink support

6

digits in a PIN code – preserve leading zeros

24 h

rolling window of the customer-level MAC-creation quota

Practical guidance

- Supply the factor required for that gateway; **PIN and MAC are not interchangeable**
- Changing the EUI clears the factor field and re-runs the check
- The MAC quota is shared by single creation and bulk import
- PIN-based creation does **not** consume the MAC quota

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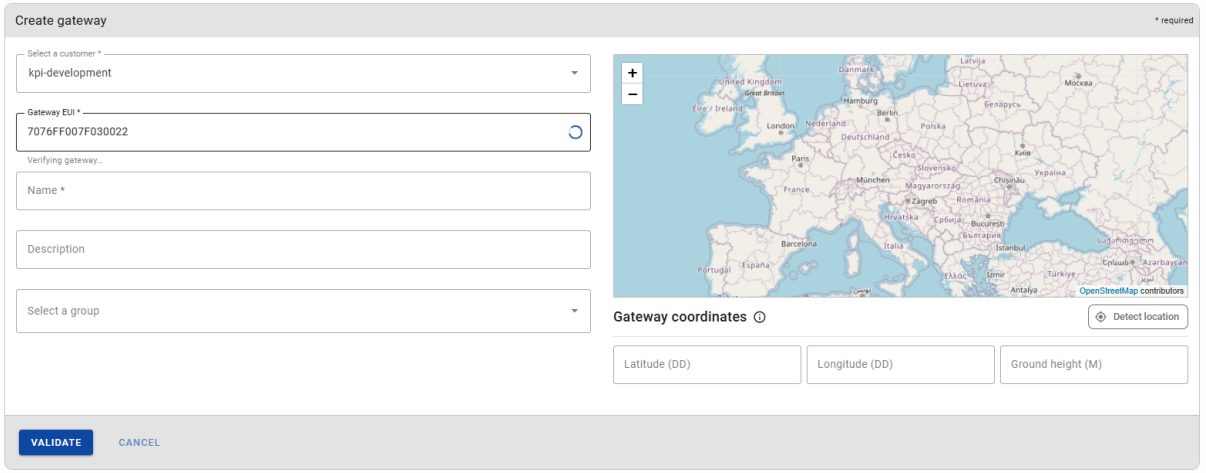
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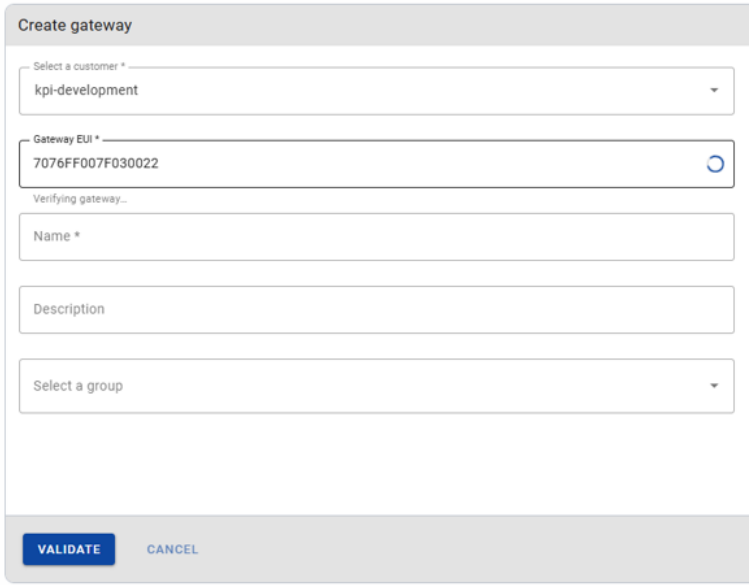
Secured gateway creation

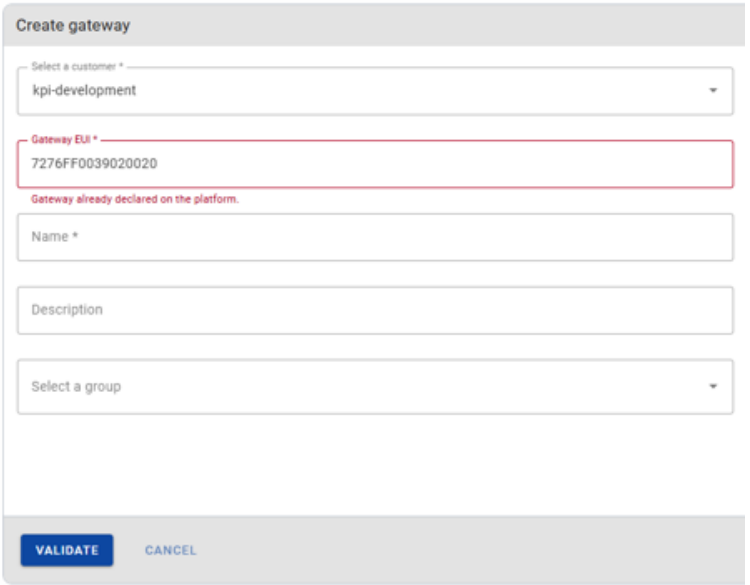
STEP 1 / 3

Enter the gateway EUI

- Open the gateway creation form and enter the 16-character **Gateway EUI**
- When the EUI is complete, Cockpit checks it against Kerlink shipment data
- Unknown or already-declared gateways are reported directly on the EUI field







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Secured gateway creation

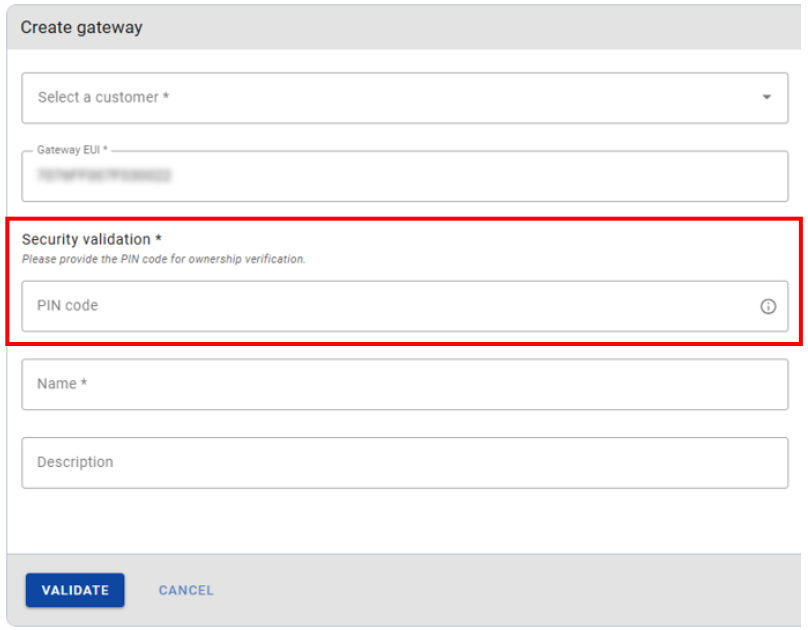
STEP 2 / 3

Enter the verification factor requested

Cockpit shows only the field required for this gateway. If none is recorded, it states that no security validation is required.

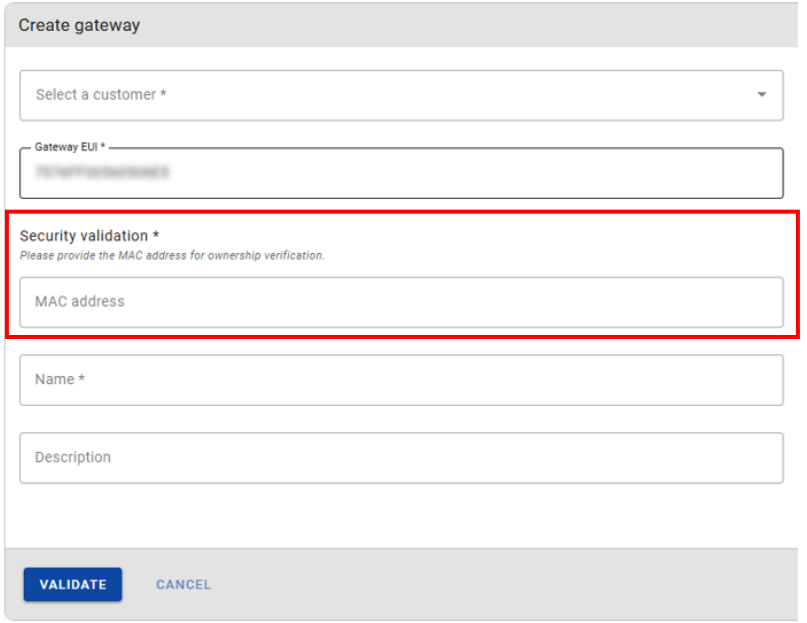
PIN code

Exactly 6 digits, keep leading zeros. Today used by the Wirnet iZeptoCell.



MAC address

Typed as XX:XX:XX:XX:XX:XX (separators added automatically), upper or lower case.



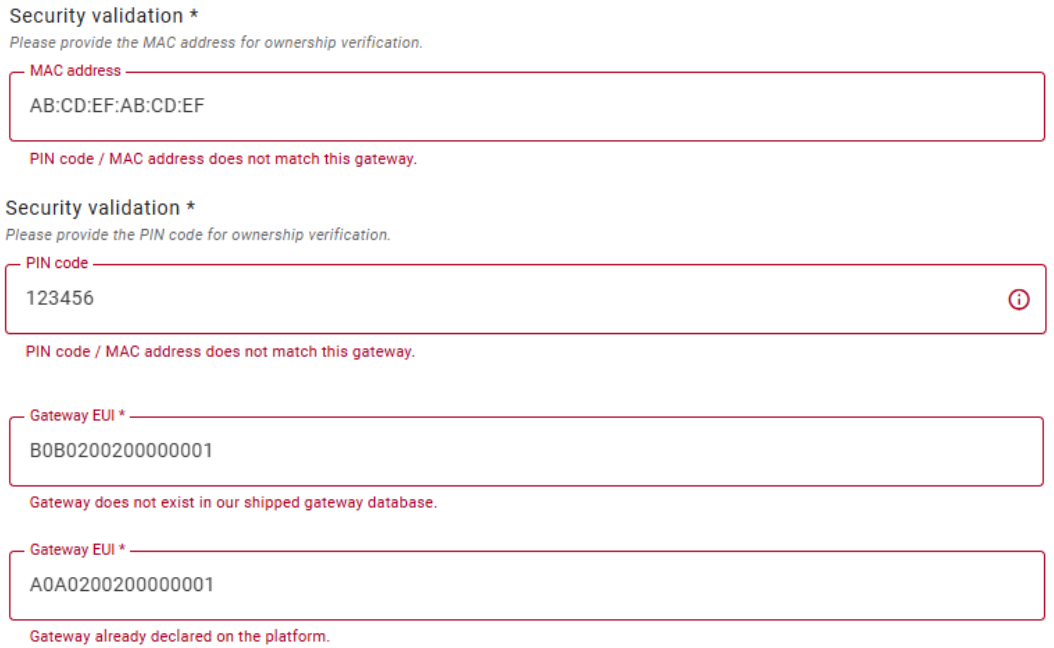
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Secured gateway creation

STEP 3 / 3

Submit, and understand the messages

Message	When
PIN code / MAC address does not match this gateway.	The factor entered is wrong
This field is required.	The required factor (PIN code or MAC address) was left empty
Too many MAC-based creations in the last 24 hours. Try again after {time}, or use a PIN code when available.	The customer's rolling 24-hour MAC quota is reached
Gateway does not exist in our shipped gateway database.	Not in Kerlink shipment data
Gateway already declared on the platform.	Gateway already declared



Messages never repeat the PIN or MAC entered. A quota message does not say whether the MAC address was correct.

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Section 2.d – New feature

Customer bulk gateway import

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Customer bulk gateway import

What's new

- CSV gateway import is opened to **customer service administrators**
- The updated template supports gateway verification using **PIN** or **MAC** fields
- Optional location fields allow a manual position to be supplied during creation
- The whole file is validated: every error is reported with its line, EUI and reason

Why it matters

- Onboard a fleet without creating every gateway individually
- Fix multiple reported validation issues before resubmitting the file



All-or-nothing import

If any row has a validation error, **no gateway from that file is created** – including gateways on otherwise valid rows.

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Customer bulk gateway import – how it works

How it works

1. Open the gateway import page
2. Download the current CSV template
3. Fill in the gateway EUIs, applicable verification factors and other required information
4. Upload the completed file
5. Review the report, or use **View created gateways** to open the imported list
6. If errors are reported, correct the **original CSV file** outside Cockpit and upload the complete corrected file again

1,000 gateway rows max. per file (header excluded)

Important

- Provide the required PIN **or** MAC for each row, never both
- Comma or semicolon delimiter; up to 10 group columns
- A quota rejection also means no gateway in the file was created
- No downloadable CSV error report or in-browser CSV editing in the initial WebUI

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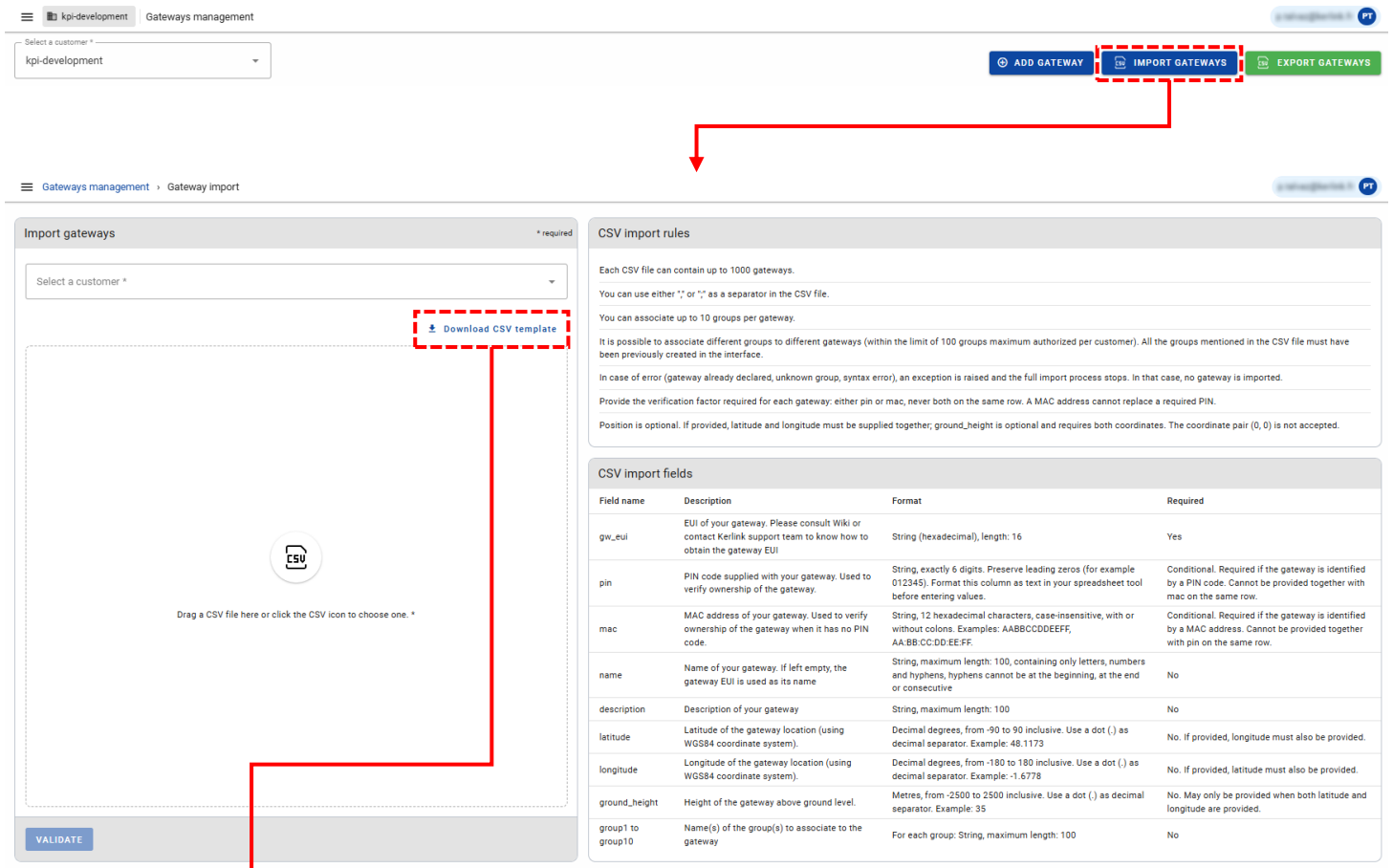
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Customer bulk gateway import

STEP 1 / 4

Download the CSV template

- Open **Import gateways** from the gateway list page
- Click **Download CSV template** (above drop area)
- Read the **CSV import rules** on the page
- Read the **CSV import fields** help on the page: PIN / MAC and location columns



CSV template:

```
gw_eui,pin,mac,name,description,latitude,longitude,ground_height,group1,group2,group3,group4,group5,group6,group7,group8,group9,group10
7276FF00ABABABAB,012345,,iFemto-7276FF00ABABABAB,Wirnet iFemtoCell (868),48.1173,-1.6778,35,group-A,,,,,,,,
7076FF00CDCDCDCD,,70:76:FF:CD:CD:CD,iFemto-evo-7076FF00CDCDCDCD,Wirnet iFemtoCell evolution (868),48.1180,-1.6790,,group-A,group-B,,,,,,,,
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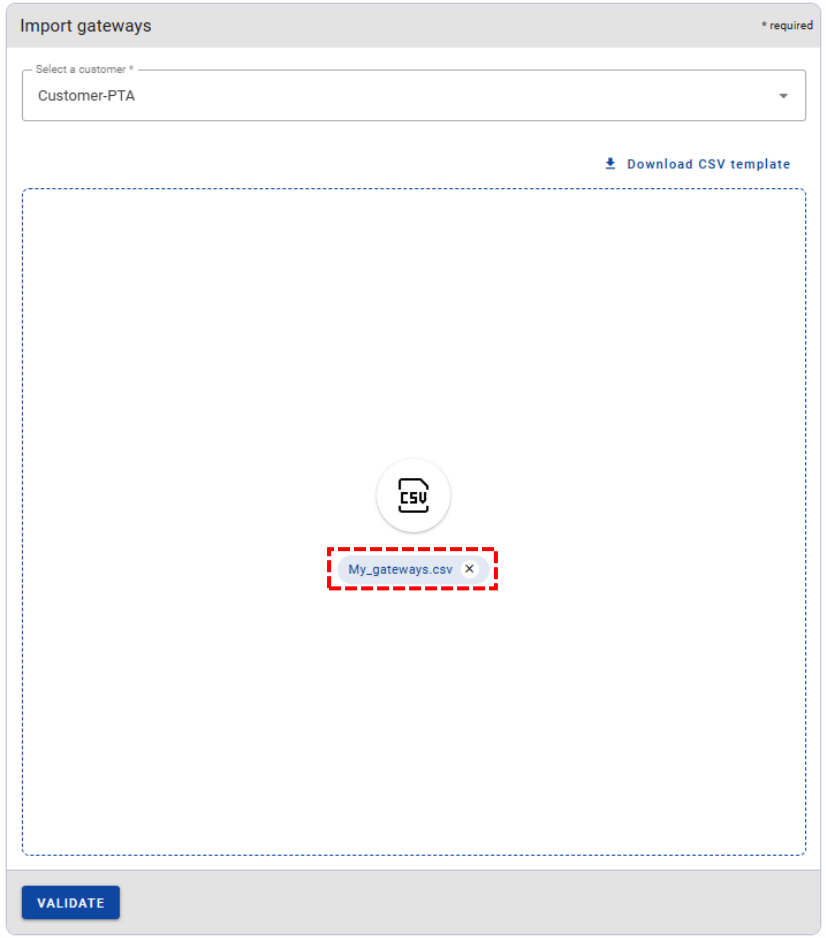
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Customer bulk gateway import

STEP 2 / 4

Upload the completed file

- Create the CSV file containing the gateways to be imported, the verification factors and the other information
- Drag and drop the CSV file onto the drop area
- The file name and number of rows are shown while it is processed
- Up to **1,000 gateways** per file; comma or semicolon delimiter



Format the pin column as text in your spreadsheet tool so leading zeros are kept

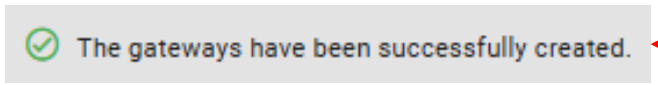
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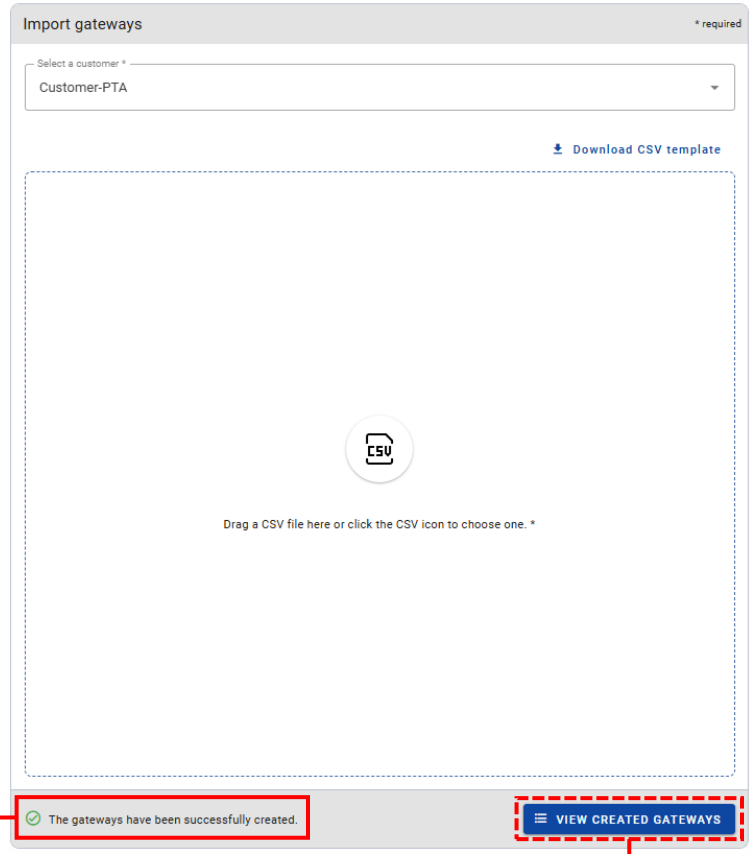
Customer bulk gateway import

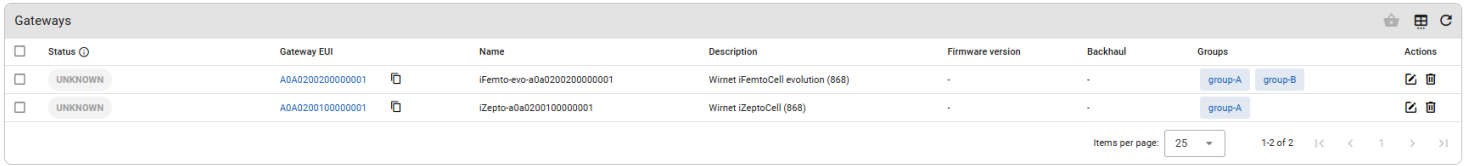
STEP 3 / 4

Check the result

- All rows valid: a green summary confirms the import
- Click **View created gateways** to open the list of gateways from this import







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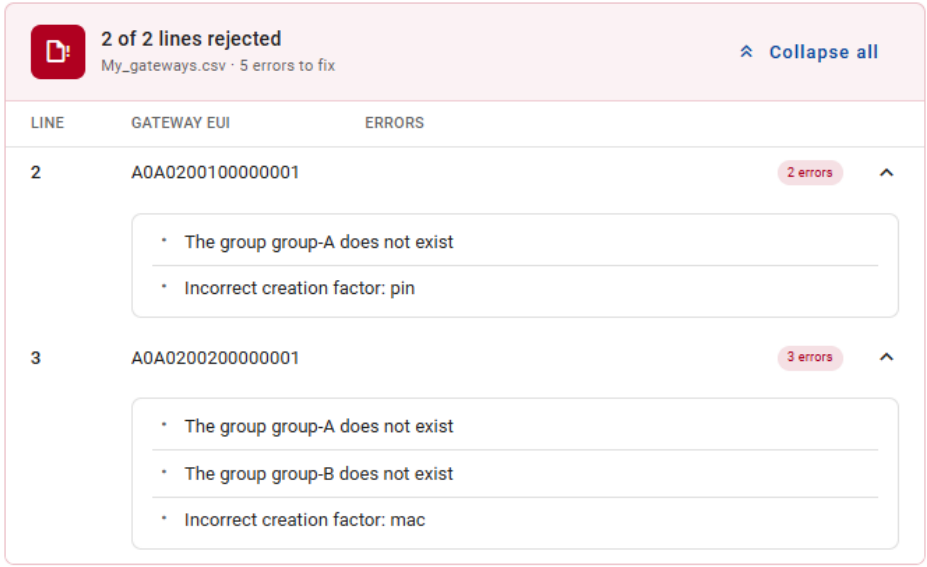
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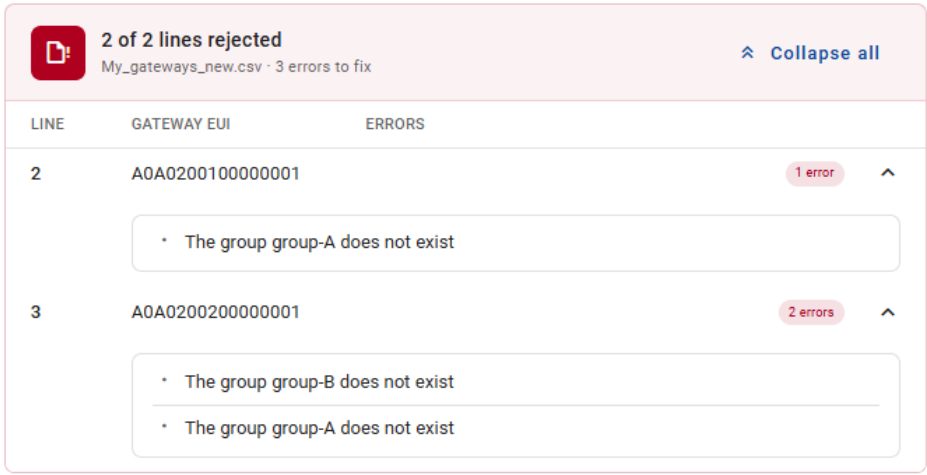
Customer bulk gateway import

STEP 4 / 4

Fix the errors and import again

- Rows with errors: the summary shows **X of Y lines rejected**; **no gateway is created**
- Expand each rejected line to see all its errors (or **Expand all**)
- Correct the **original CSV file** outside Cockpit
- Upload the complete corrected file again





No downloadable error report and no in-browser editing in this release

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Updated CSV fields

Field	Purpose	Key rule
`pin`	Gateway verification code	Exactly 6 digits; preserve leading zeros by treating the value as text
`mac`	Gateway MAC verification	12 hexadecimal characters, case-insensitive, with or without colons. Used when the gateway requires MAC verification
`latitude`	Manual gateway latitude	WGS84 decimal degrees, -90 to 90; must be supplied with longitude
`longitude`	Manual gateway longitude	WGS84 decimal degrees, -180 to 180; must be supplied with latitude
`ground_height`	Gateway height above ground	Metres, -2500 to 2500; optional, requires both coordinates

Use a **dot** as the decimal separator. Use the current template and the field guidance shown on the import page.

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Section 3

Other improvements

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Other improvements



More expressive list filtering

- Boolean filters now offer **Yes / All / No** options
- Available on gateway, group, customer and alert lists



Easier customer navigation

- Customer and group selectors load more items as you scroll
- Breadcrumb navigation is shown in the top bar



API enhancement

- Gateway-list API responses expose the **cellular attached network** and **APN**, with sorting and filtering support; display in gateway list is planned for a future release

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Other improvements

In practice: new list filters and breadcrumb navigation in the top bar

Yes / All / No filters

- Gateway list:



Yes: Display only items with actions in progress
All: Display all items, regardless of action status
No: Display only items with no actions in progress



- Group list:



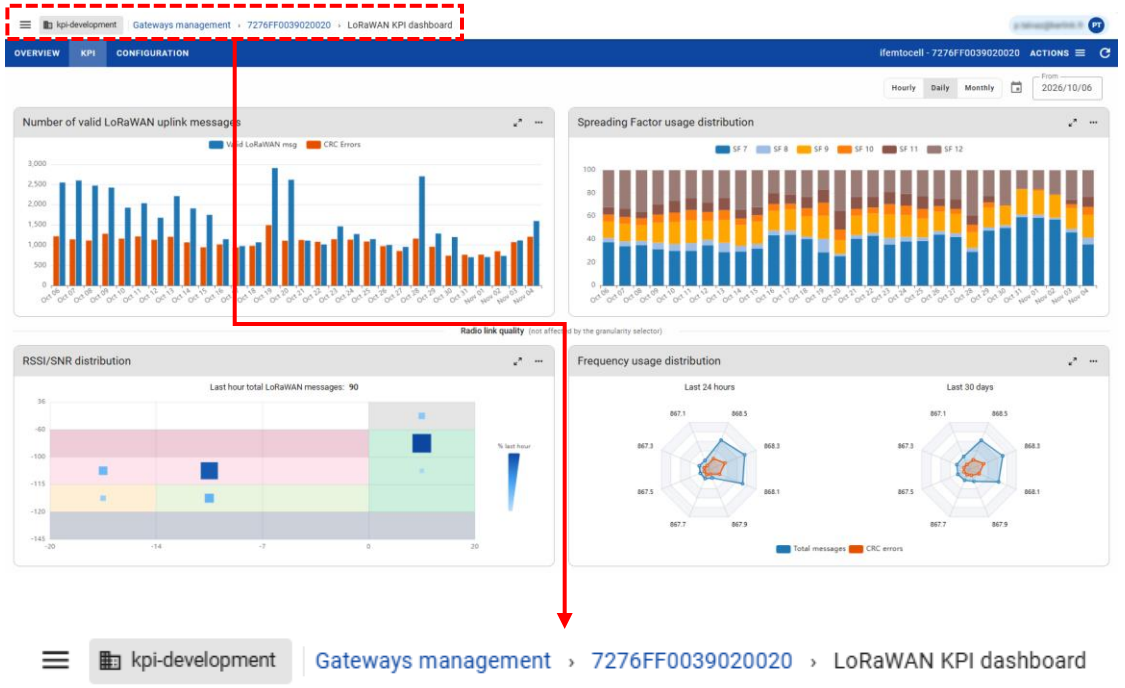


- Alert list:



Breadcrumb navigation in the top bar

The breadcrumb navigation is always visible, whatever the page



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Section 4

Issues resolved

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Issues resolved



Monitoring & connectivity

Selected fixes – not a complete changelog

- Addressed reported timeouts when retrieving LoRaWAN KPI data
- Fixed an internal server error when selecting hourly backhaul KPI data
- Corrected active-alert counts in the affected KPI calculation
- Fixed intermittent non-delivery of CUPS configuration in the reported token-authentication scenario



Navigation & authentication

Selected fixes – not a complete changelog

- Fixed deep-link navigation so that login returns the user to the requested page
- Improved password-change page readability

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Section 5

Compatibility, constraints & restrictions

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Compatibility, constraints & restrictions

Remote access

- Supported KerOS 6 or later configurations only; KerOS 5 is not included
- Local web interface only, with a default 6-hour access window
- Remote access package: native from KerOS 6.6; installed automatically on earlier KerOS 6 versions

Package information

- Retrieval can be delayed when a package manifest is unknown or the gateway cannot respond
- No fleet-wide package-name/version/drift filtering in this feature

Gateway onboarding

- Secured creation covers all iSeries gateways (including iBTS)
- MAC-based creation subject to a rolling 24-hour quota
- Bulk import: max. 1,000 rows per file; all-or-nothing import

Other existing constraints & restrictions

- Backhaul & LoRaWAN settings available at gateway level, not yet available at group level
- RSSI/SNR KPI distribution graph limited to last hour only
- Changes to user rights require a logout/login
- Minimal mode for get logs not supported on KerOS 6

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Thank you!

Wanesy Management Cockpit
Version 4.12.0

For onboarding assistance or compatibility questions, contact Kerlink support.

www.kerlink.com

