

The IoT Logic logo icon, consisting of several vertical bars of varying heights and widths, some with dots at the top, in shades of blue.

IoT Logic

Your data, your rules

Does your telematics data **actually** work for your needs?

You want:

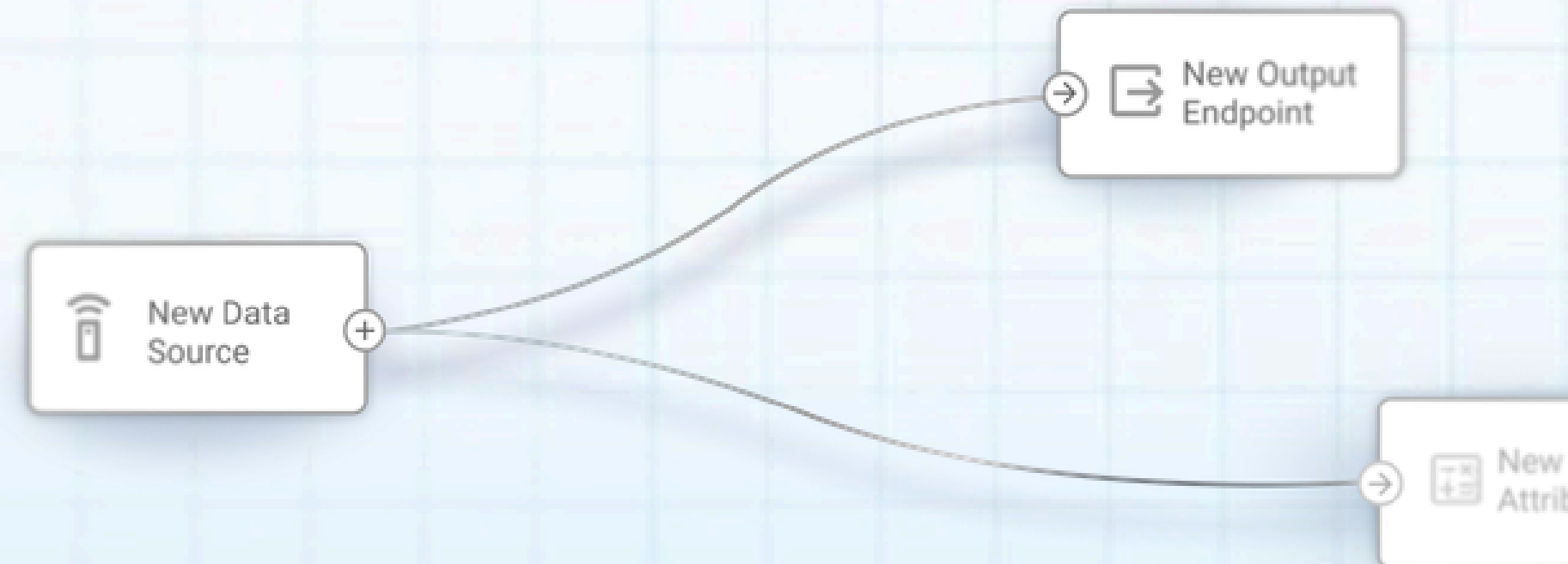
- ✓ consistent data across your business
- ✓ metrics that match how your business measures performance
- ✓ detect issues like fuel loss, idle time, or misuse automatically
- ✓ data to trigger actions, not just appear in dashboards
- ✓ it to be connected to your existing systems, not isolated

Why do you need IoT Logic?

You already have the data. Now make it work your way

IoT Logic is a data processing and automation tool inside Navixy that works with data from any connected devices and systems, standardizes it, applies business logic, and triggers actions or integrations in real time.

- ✓ Act on data in real time instead of relying on reports
- ✓ Reduce reliance on engineering and custom integrations
- ✓ Launch new automations in hours, not months
- ✓ Move from monitoring data to controlling outcomes
- ✓ Get your data ready for analytics, automation, and AI-driven use cases



Examples of IoT Logic in real-world operations

Device performance

Detect low battery, connectivity issues, or offline devices and automatically trigger alerts or corrective actions such as device reboot.

Mass device control

Automatically trigger outputs or commands across your entire fleet. For example, stop an engine if a trailer is disconnected while the vehicle is moving.

Vehicle diagnostics

Monitor vehicle health parameters using CAN bus data (motor, refrigerant, DTCs) in real time. Detect failures early, reduce downtime, and extend asset lifespan.

Cold chain protection

Monitor trailer temperature and automatically activate refrigeration systems when thresholds are exceeded, preventing cargo spoilage.

Automated driver alerts

Automatically notify drivers when unsafe conditions occur. For example, trigger an in-cab alert when tire pressure goes outside the safe range.

Compliance & reporting

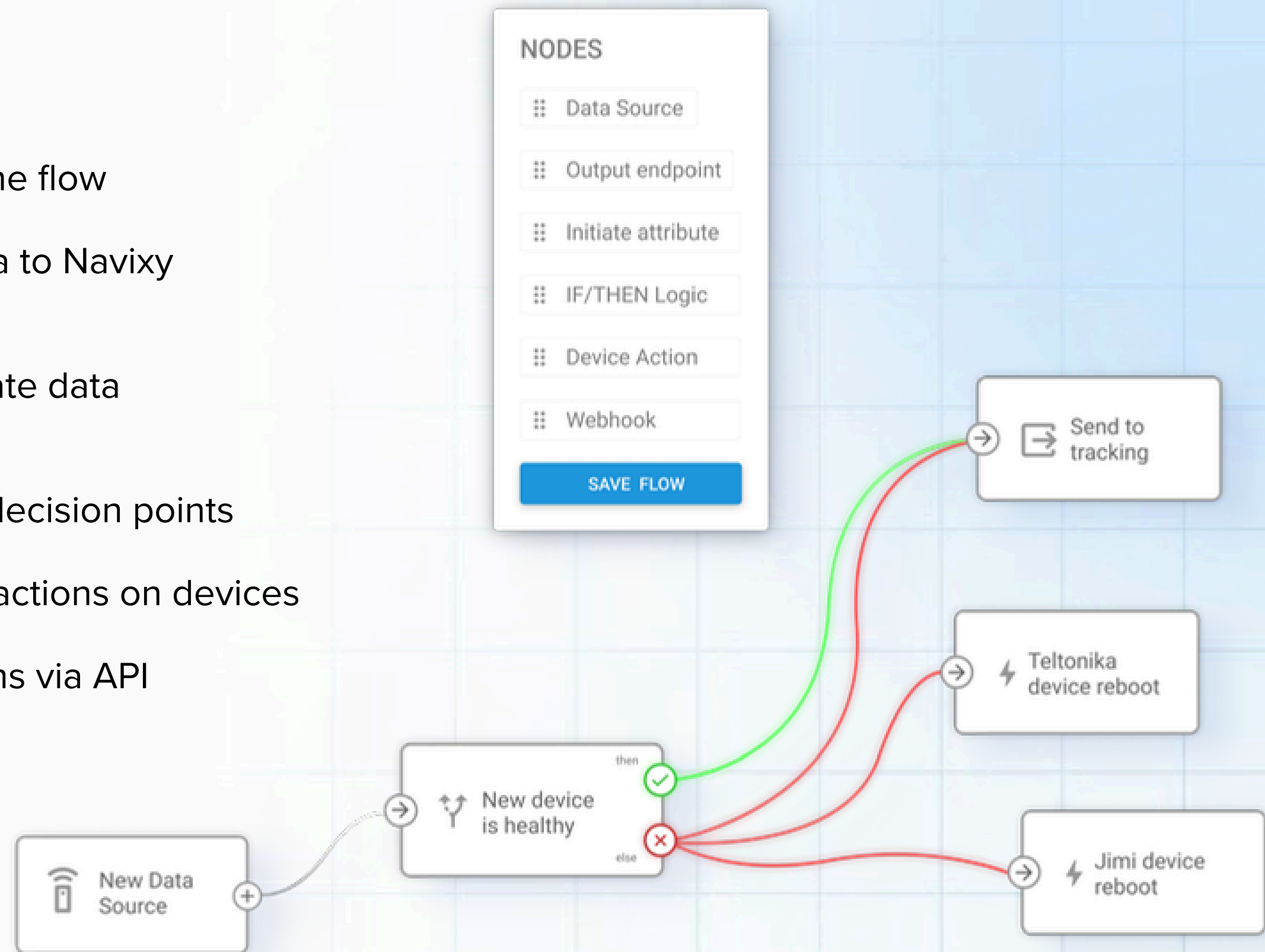
Send enriched data simultaneously to multiple destinations such as ERP systems or government platforms. For example, automate billing based on real-time odometer data.



How workflow automation is built in **IoT Logic**

IoT Logic uses a visual builder where workflows are created by connecting nodes into a flow. Each node represents a step in how your data is processed and acted on.

- **Data Source:** select the data to enter the flow
- **Output Endpoint:** route processed data to Navixy or external systems
- **Initiate Attribute:** transform and calculate data using formulas
- **IF/THEN Logic:** define conditions and decision points
- **Device Action:** trigger commands and actions on devices
- **Webhook:** send data to external systems via API



Kick-start with predefined automation templates

Device healthcheck

Monitor device health signals and reboot when values fall outside set thresholds.

Metric ↔ Imperial converter

Convert telemetry units and add converted values to each data packet.

Actions in external systems

Trigger a webhook based on a sample speed condition to perform external actions, adaptable to any parameter and system.

Idling detection

Detect prolonged idling using ignition and speed, and flag it in the data for alerts or reporting, adaptable to any duration-based condition.

Driver access control

Check hardware key authorization on ignition and block the engine with a notification if the key is unauthorized.

Nodes in IoT Logic

Data Source node:

Bring in data from any connected device

Define which devices, data streams, and parameters enter your workflow across fleets and regions.

- ✓ Select devices, groups, or multiple assets as input
- ✓ Receive full incoming data streams from selected devices
- ✓ Process real-time telematics data as it arrives

Data Source node



Name

New Data Source

Data Source settings

Search source

All (481)

Selected (0)

Select all

☐ Main group (157)

☐ cGuard

☐ 49DA971

☐ GV300W_Kameleon

Initiate Attribute node



Name

Metric values

Attributes configuration

Attribute name

temperature_c

Formula

$(\text{temperature} - 32.0) * 5.0 / 9.0$



 Delete

Attribute name

speed_kmh

Initiate Attribute node: Transform raw data into usable metrics

Create new attributes by transforming, calculating, and enriching incoming data based on your business logic.

- ✓ Convert units and normalize incoming data
- ✓ Combine multiple parameters into new attributes and create custom sensors
- ✓ Use formulas (JEXL) for custom calculations and data enrichment

IF/THEN Logic node:

Control how data is interpreted and used

Define conditions and decision rules that determine how your workflows respond to incoming data.

- ✓ Set thresholds, geozones, and complex conditional logic
- ✓ Combine multiple parameters into decision rules
- ✓ Route data through different paths based on conditions

IF/THEN Logic node



Name

The device is healthy

Logic Condition

Expression name

health_device

Condition expression (JEXL)

latitude != null && longitude != null
&&satellites >= 4 &&board_voltage>= 11.5



Device action node



Name

Teltonika device reboot

Standard Advanced

Action 1

Action type

Send GPRS Command

Command string

cpureset

+ Add action  Delete

Device Action node: Act on events automatically in real time

Send commands to devices automatically based on defined conditions, enabling real-time control without manual intervention.

- ✓ Trigger actions instantly based on real-time events
- ✓ Execute machine-to-machine (M2M) commands across devices based on incoming data
- ✓ Execute multiple actions within a single workflow

Webhook node:

Send data to external systems in real time

Push processed data to external systems and APIs as part of your workflow, enabling seamless integration with your business tools.

- ✓ Send and receive data via HTTP requests (webhooks/APIs)
- ✓ Customize payloads and headers based on your logic and requirements
- ✓ Integrate with ERP, CRM, or custom platforms

Data Source node

Name

New Data Source

Data Source settings

 Search source

All (481)

Selected (0)

Select all

☐ Main group (157) 

☐ cGuard

☐ 49DA971

☐ GV300W_Kameleon

Output Endpoint node: Deliver data wherever it's needed

Define where processed data is delivered, whether back into Navixy or to external platforms, ensuring consistent and scalable data distribution.

- ✓ Send data to multiple destinations simultaneously
- ✓ Deliver data in a standardized format regardless of device type
- ✓ Stream data to external systems via various protocols

Output Endpoint node

?

×

Name

Send to tracking

Mode

Default endpoint

Default endpoint

MQTT endpoint

Built for real-world use

Reusable flows you can export, share, and adapt across deployments

Formula editor with auto-complete for faster and easier configuration

Built-in validation highlights errors and ensures flows run reliably

Works with any device through flexible protocol support

Comprehensive documentation to support setup and scaling

AI-ready infrastructure to support seamless data exchange with AI and analytics systems



Start building your own flows!

Our team is ready to help you get started



Sales:

sales@navixy.com

Support:

support@navixy.com



US/International: +1 213 786 12 80

Latin America: +52 55 85 26 18 30

Europe: +44 204 577 23 50