



## Cloud Solution

# INTRANAV global shipment - condition & transport monitoring in pharmaceutical logistics

DIGITAL Supply Chain: **global track & trace** and **sensor data monitoring** of **pharmaceutical goods**.

With **INTRANAV**, the pharmaceutical industry is able to track globally and in real-time pharmaceutical goods and (special) load carriers. **INTRANAV** smart sensors monitor the transport conditions with regard to compliance with the cold chain and temperature ranges. In case of deviations during transport (and in standing position), timely intervention can be taken to prevent damage to pharmaceuticals and breakage due to shock monitoring.

With **INTRANAV** Global Shipment (Location Track&Trace), you know in real-time where your pharmaceutical shipments are located and you are able to react to supply chain interruptions, disruptions such as delays or breakage in a timely manner by, for example, switching to replacement orders.

### Temperature safety box tracking

Due to their loading, pharmaceutical safety containers are often subject to strict official regulations. Coupled smart sensors for temperature and humidity, for example, can determine values within the container in real time, thus increasing process reliability by permanently monitoring the load carriers. The **INTRANAV** Real-Time Location System supports logistical container management in minimizing the risk of temperature damage that could occur during transport or storage of pharmaceutical substances.

## Plug & play cloud solution

### INTRANAV real-time & sensor data monitoring features

- **Digital Twin of your load carriers via INTRANAV.IO:** End-to-end **outdoor live tracking** (GPS technology)
- **INTRANAV SMART Sensors are monitoring:**
- Temperature, humidity, acceleration/shock (IMU), certified airplane mode
- **Real-time alerts** via SMS & e-mail in case of deviations from specified limits or process interruptions
- **Hazard monitoring** for chemical and battery containers
- **AUTO-ID:** Scannerless bookings
- **2D/3D geofence** based zones and events
- **Storage safety:** compliance with the storage and transport guidelines
- **Transport safety:** Ensuring the transport guidelines
- **App for damage reports**

If the temperature or humidity critical range for pharmaceuticals is exceeded or undercut during transport, a notification is generated to warn of temperature overruns. This notification can be sent via SMS, e-mail or control center message to the responsible department.

## DIGITAL supply chain monitoring

### Theft protection

The (safety) containers are made of solid stainless steel and represent a correspondingly high value. That's why the position determination by our GPS solution not only helps to track and digitize them (Digital Twin), but also serves as theft protection.

### INTRANAV warning system

If defective or damaged containers of pharmaceutical delivery units as well as other chemicals are transported, **INTRANAV** can be used as an early warning system. By monitoring the inside of the container, the thermal reaction can be detected and reported by a notification. By monitoring transport containers, further safety measures can be initiated quickly in case of damage.

### Control of transport conditions

Use **INTRANAV** sensor data monitoring to prove in real time or via reports that transport guidelines such as temperature, humidity, acceleration/shock & vibration have been met or if there has been a deviation. Deliveries with breakage and deviations in condition can be detected even before the quality inspection before arrival at the delivery location.

### It's that simple!



**Activation of the INTRANAV  
Plug & Play Solution**



**Attach INTRANAV.RTLS TAG  
(Tracker) to the Shipment Box**

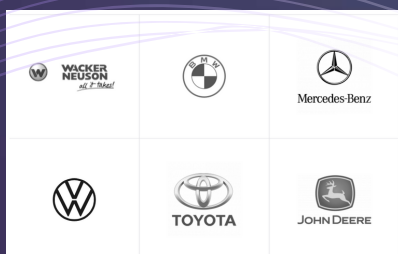


**Real-time tracking & Sensor Data  
Monitoring of your load carriers  
via the INTRANAV.IO Platform**

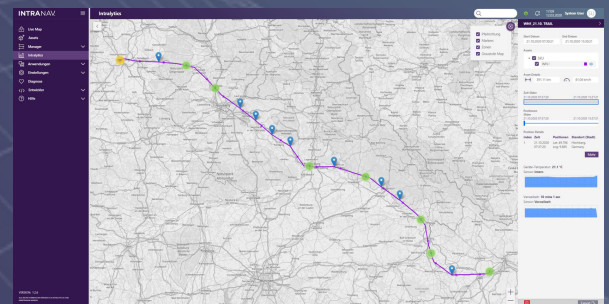


**Scale INTRANAV Digital Twin Suite  
as required per device**

Diese Kunden setzen mit **INTRANAV** bereits  
erfolgreich RTLS- & Digitalisierungsprojekte um:



**INTRANAV**



**INTRANAV.IO** Digital Twin Platform & **INTRALYTICS** Analytics Suite: With TRAILS Report(s) you can analyze the routes covered by your load carriers and keep an eye on the freight status of your load carriers at all times.

### INTRANAV Benefits

- Quality assurance
- Maximum process reliability
- Control of the transport conditions
- Theft protection
- Reduce search times
- Reduction of current operating costs through AUTO-ID
- Employee safety through Sensor Data Monitoring
- Proof of compliance with transport conditions
- Automated load carrier management through
- Geo-fence based events
- Coupling to SAP, Analytics and many other system (open interface)

**INTRANAV**

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