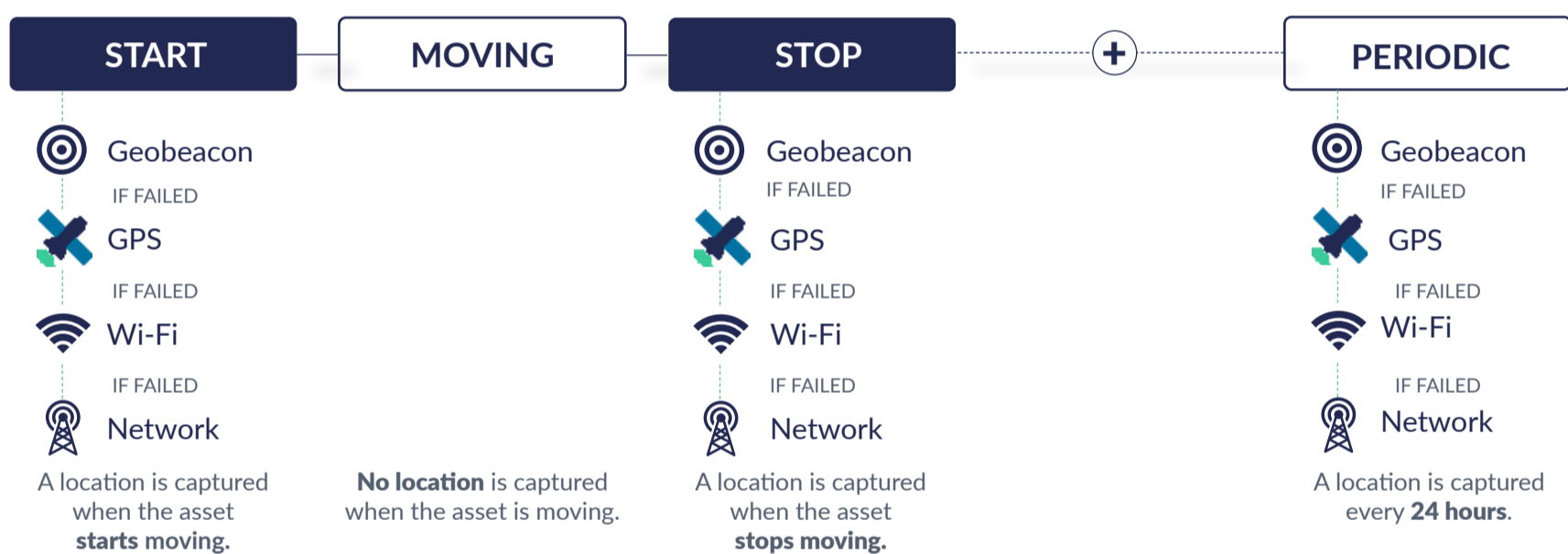# Standard Returnable Transport Packaging profile for TRACK 1000, 1010 and 1020

This is the standard usage profile of a tracker attached to a returnable transport package (RTP).
This profile guarantees the optimal way to capture the real behaviour of a waste container in a power efficient way.

Profile names: RTP STANDARD TRACK 1000 1010
                 RTP STANDARD TRACK 1020

When and how does the tracker determine and send location updates?

START	MOVING	STOP	+	PERIODIC

START
- Geobeacon
  - IF FAILED
- GPS
  - IF FAILED
- Wi-Fi
  - IF FAILED
- Network

A location is captured when the asset **starts** moving.

MOVING

No location is captured when the asset is moving.

STOP
- Geobeacon
  - IF FAILED
- GPS
  - IF FAILED
- Wi-Fi
  - IF FAILED
- Network

A location is captured when the asset **stops** moving.

PERIODIC
- Geobeacon
  - IF FAILED
- GPS
  - IF FAILED
- Wi-Fi
  - IF FAILED
- Network

A location is captured every **24 hours**.

WHEN are locations determined?

Locations are by default captured based on the **motion pattern** of your asset.
This means when the tracker detects **that your asset starts or stops moving,** it will capture the location. Next to this, the tracker also captures a location every 24 hours. This is called a **periodic** location capture.

For every parameter a default setting is selected. Other settings can be chosen if needed for your asset tracking solution.

Parameter	Default	Other available settings
When is a start detected?	Medium start sensitivity: A start is detected when the asset moved in 2 consecutive slots of 20 seconds.	High start sensitivity: A start is detected when the asset moved in 1 slot of 20 seconds.
Are locations captured while moving?	No, locations are not captured while moving.	Yes, • Every 10 minutes • Every 20 minutes • Every 40 minutes • Every hour • Every 3 hours
When is a stop detected?	A stop is detected when the asset has not moved for at least 30 minutes.	A stop is detected when the asset has not moved for • at least 5 minutes • at least 10 minutes • at least 1 hour
Periodic location capture	Every 24 hours	• Off • Every 12 hours • Every 48 hours
Scheduled location capture	Off	• Every day at 12 PM GMT

HOW are locations determined?

By default the tracker **first scans for installed geobeacons** to determine a location. If no geobeacons are found, the **second choice is to scan for GPS signals** to determine a location. If the GPS location capture fails, Wi-Fi localisation is used to get a location. If all previous options fail, **network triangulation** location is used to get a (not very precise) location. Optionally, geobeacon and Wi-Fi localization can be disabled.

Parameter	Default	Other available settings
Localization technologies	Geobeacon → GPS → Wi-Fi → network location	• Geobeacon → GPS → network location • GPS → Wi-Fi² → network location • GPS → network location
GPS precision (CEP)	25 meters	4 meters [1]

HOW is additional sensor information measured?

Optionally, different types of sensor information can be monitored by connecting BLE sensors to the tracker. It can then be chosen how often the measurements are done, and how often they are sent to the Sensolus platform.

It is also possible to use the internal orientation sensor to:
- Detect how an RTP is positioned.
- Know a specific state (lid open/closed, RTP folded or not).

Parameter	Default	Other available settings
External Sensor connection	Off	• Temperature • Humidity • Temperature and humidity • Magnet
Measurement and sending intervals	Off	• Measure every 12 minutes, send hourly message with 5 measurements • Measure every 30 minutes, send every 2,5 hours message with 5 measurements • Measure every hour (average value), send every 5 hours a message with 5 measurements
Orientation monitoring	Off	• Standard postions (reports the side of the tracker that faces up) • Open/close (requires vertical postion of the tracker when open and horizontal position when closed. [3] • Anti-tamper functionality (not for 1020)

HOW and WHEN are locations and sensor information sent to the cloud?

Captured locations are **sent by default to the cloud when the asset stands still for 25 seconds.** This is because the chance of sending data successfully to the platofrm is much higher when the asset is standing still. The sensolus patented **data integrity algorithm** to prevent data loss is enabled by default.

Parameter	Default	Other available settings
Location is sent when asset stops at least 25 seconds	On	Off
Emission power (not for 1020)	Optimized for battery life	Optimized for maximum coverage

Other parameters

Parameter	Default	Other available settings
BLE advertisments to make your tracker visible to smartphones and zone anchors	Off	On
Anti-tamper functionality based on tamper button (only for 1020)	Off	On
In-flight detection (only for 1020)	On	Off

[1] In 80% of the cases
[2] Comes with an extra cost
[3] Contact Sensolus for more options

Want a customized tracker usage profile?
Contact Sensolus sales.