

DULT WG Accessory Protocol (Document #3)

DULT Interim Meeting
IETF #122
June 2025

Agenda

Discuss Remote Disablement

- a. Problem recap
- b. Scenarios
- c. Disablement conditions and recommendations

Problem Recap

There might be situations where the tracker is very well hidden and cannot be physically located by the victim. In this scenario, despite receiving multiple alerts on their phone, the victim cannot disable the tracker. **Should the accessory protocol allow remote disablement of trackers and include recommendations/requirements about it?**

Scenario #1

- Victim receives an unknown tracker alert on their phone.
- Despite using all available tools (play sound, precision finding), they cannot locate the tracker planted in the car.
- Thinking about taking it to the mechanic but this means their location will be visible for another X hours.

Scenario #2

- A user forgets their backpack in Uber with a tracker in it.
- The driver gets an alert that an unknown tracker is travelling with them.
- The driver gets panicked and disables the tracker.
- User wants to find their bag. This is the time the tracker and the finding network will be essential.
- Tracker is disabled: user cannot find the backpack.

Scenario #3

- A bike with a tracker on it is stolen.
- Thief gets an alert about the tracker and disables it.
- Also, thief can manually scan and disable.
- Owner is not able to find their bike.

Disablement conditions

- Allowed only for tags in Bluetooth range.
- Allowed only for tags in separated mode.
- Permanent vs temporary? If temporary, for how long?
- Thoughts on the trade-off between the protections for Scenario #1 vs annoyance for Scenarios #2 and #3.

Scenarios reference from previous slides:

Scenario #1	Tracker in the car, multiple alerts, victim cannot find it despite using the available tools.
Scenario #2	Forgot bag in Uber. Driver gets an alert and disables the tracker. Now the user cannot find their bag.
Scenario #3	Thief steals a bike, gets an alert and disables the tracker.

Recommendations for Platforms

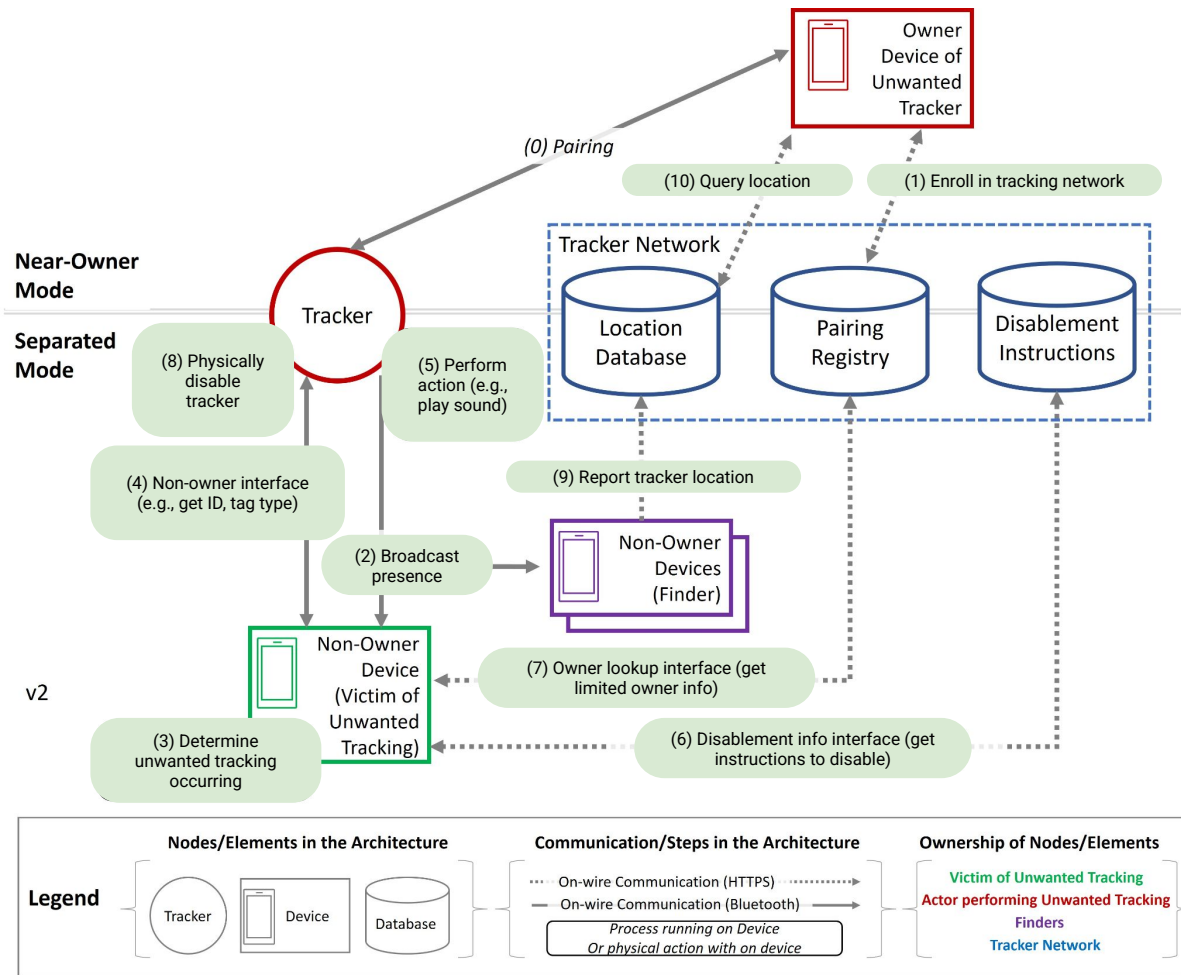
To reduce the likelihood of accidental disablement (eg in Scenario #2), make disablement available only after

- An alert has been shown
- User spent some time searching for it

Scenarios reference from previous slides:

Scenario #1	Tracker in the car, multiple alerts, victim cannot find it despite using the available tools.
Scenario #2	Forgot bag in Uber. Driver gets an alert and disables the tracker. Now the user cannot find their bag.
Scenario #3	Thief steals a bike, gets an alert and disables the tracker.

Back-up



State	In scope?
(1) Enroll in Tracking Network	Yes: Design mechanisms to ensure that devices that do not correctly implement or adhere to the DULT protocol can be detected and excluded...
(2) Broadcast Presence	Yes: Allow a tracking accessory to identify & advertise its presence....
(3) Determine unwanted tracking occurred	Yes: Reference algorithm in scope of charter...
(4) Non-Owner Interface	Yes: Allow a nearby device to trigger behavior...
(5) Perform Action	
(6) Disabling Info Interface	Yes: Allow nearby devices to fetch additional information about a tracker accessory...
(7) Owner Lookup Interface	
(8) Disable Tracker	Yes: Includes physical security considerations, such as user impact when device has been physically modified to diminish findability...
(9) Report location	Yes: Design mechanisms to ensure that devices that do not correctly implement or adhere to the DULT protocol can be detected and excluded...
(10) Query location	