

IOTOPS WG Rechartering IETF 121, Dublin, November 2024

Chairs:

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Proposed charter changes

(1 of 5)

The IOTOPS Working Group is chartered for the discussion of operational issues related to Internet of Things (IoT) devices, in particular related to device onboarding and lifecycle management.

IoT has a rather nebulous definition with different meanings for different people.

For the purposes of this WG, its focus is on devices that that:

- are networked, either to the Internet or within limited administrative domains
- have a very limited end user interface or no end-user interface at all
- are deployed in sufficiently large numbers that they cannot easily be managed or maintained manually

The IETF works on a number of technologies related to IoT. This includes, but is not limited to work done in ACE, ANIMA, CBOR, CORE, DRIP, LAKE, ~~LPWAN~~, ~~LWIG~~, ROLL, SUIT, TEEP, 6LO, ~~6TISCH~~, and other working groups. IOTOPS is intended to be a discussion venue where people can discuss how various IoT-related technologies fit together.

Proposed charter changes (2 of 5)

IOTOPS provides a venue for IoT experts and other interested parties to engage in discussions of operational IoT requirements, as well as proposals for new uses of IP technology related to IoT devices and network operations.

Revision, updates, and extensions to work from existing WGs will be done in those WGs.

Standards Track / BCP work in this WG focusses on IoT device live-cycle documents and related work as described below.

Where **other** new work may be needed, IOTOPS will help identify candidate venues within IETF for their development.

Proposed charter changes

(3 of 5)

Standard track / BCP documents in the IOTOPS WG are restricted to:

- **MUD discovery solutions**
- **configuration backup and recovery solutions**
- **software/firmware upgrade solutions, including discovery and distribution**

Proposed charter changes

(4 of 5)

Non-Standard track documents in the IOTOPS WG are restricted to:

1) Taking input and discussing issues related to the operational management of IoT devices.

This includes (but is not limited to):

- factory provisioning of devices
- onboarding of devices
- access control of devices to network resources
- administrative control of devices
- software/firmware upgrades
- isolation/quarantine of devices
- remediation of broken devices
- end of life management of devices

Proposed charter changes

(5 of 5)

- 2) Taking input and discussing issues related to IoT operational security.
- 3) Publishing operational practices.
- 4) Documenting requirements.

~~Approximately one year after chartering, the WG chairs will prepare a report for the IESG summarizing what the group has accomplished; this is both as a checkpoint for this working group and as a demonstration to the IESG that this style of working groups such as this have value and should be considered more often.~~