

# OPS Area – Open Meeting

IETF 109

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# IOTOPS WG Charter Discussion

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<https://datatracker.ietf.org/wg/iotops/about/>

# IOTOPS - Aims

- Act as a focus point for discussion of operational issues related to IOT:
  - E.g. to help understand how the different protocol bits fit together, and to explore potential gaps/problems
- Help external folks bring new IOT related work to IETF, and to help them find the right area/WG to help progress that work.

# IOTOPS – Discussion points

IOTOPs cannot work directly on protocol work, and performs a dispatch function on that protocol work instead:

- Ensures that the work gets done in the right areas with the right expertise and review
- Work can still be discussed in IOTOPS before it is dispatched
- IOTOPS can still work on architecture and requirements:
  - E.g. describe how the different protocol bits are expected to fit together
- Depending on how this works, may recharter to add protocols in the future; possibly handle on a case-by-case basis

# Proposed IOTOPS Charter Text

The IOTOPS Working Group is 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 are:

- networked - either to the Internet or isolated domain(s),
- 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 is or has worked on a number of technologies related to IoT. These include work done in ANIMA, CBOR, CORE, DRIP, LAKE, LPWAN, LWIG, ROLL, SUIT, and 6TISCH. IOTOPS is intended to be a discussion venue where people can discuss how the various technologies developed in these WGs fit together, what gaps remain, what has been learnt from deploying these, etc.

IOTOPS will solicit input on IoT-device-related operational issues and practices, and existing and proposed technologies related to the deployment, operational management, and lifecycle management of IoT devices. IOTOPS provides a venue for IoT experts and other interested parties to engage in discussions of IoT requirements of networking standards, as well as proposals for new uses of IP technology in IoT specific scenarios.

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# Proposed IOTOPS Charter (continued)

Revision, updates, and extensions related to existing WGs will be done in those WGs. Where new protocols may be needed, IOTOPS will help identify candidate venues within IETF for their development. In this context, IOTOPS will operate with a “dispatch” model as described in RFC 7957.

IOTOPS WG charter is 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
2. Discussing issues related to IoT operational security and privacy.
3. Publish operational practice and document requirements. They will be BCP and Informational RFCs.