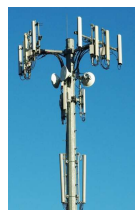


Drone Remote Identification Protocol (DRIP)

IETF 116 updates: regulators, external SDOs & early adopters
2023 MAR 28 stu.card@axenterprize.com 315-725-7002

- Interactions between regulators & external SDOs affecting DRIP since IETF 115
 - NOV: FAA awarded ANRA contract to demo Broadcast RID -> Network RID conversion (req. GEN-5 Gateway “CS-RID”)
 - DEC: ASTM approved TOR for WK84631 D2D Certificate-based COMSEC Framework for UAS/UTM (“A2X”)
 - JAN: ASTM WK84631 kicked off w/Adam W., Bob M. & Stu C. participating to push DRIP (esp. req. GEN-6 Contact “O2P”)
 - JAN: ANSI published updated UAS Standardization Collaborative (UASSC) report on UAS standards gaps w/DRIP inputs
 - FEB: Adam W. field verified interop of his DRIP receiver app & an independent implementor’s F3411 sender module
 - MAR: Bob M. presented DRIP yesterday at 1st meeting of ICAO Trust Framework Panel concurrent w/IETF 116
- Do we need a MOC showing how to use DRIP to satisfy CAA regs more fully, starting w/Session IDs?
The basic DRIP document set, with Architecture as a main point of entry, probably could serve.
- DRIP will be demonstrated to FAA in UTM Field Test immediately after IETF 116.
- To meet urgent needs (before FAA blessing or registry RFCs), some US agencies are trialing DRIP.
- DRIP needs more participation from outside US w/awareness of other regulator & SDO activities!

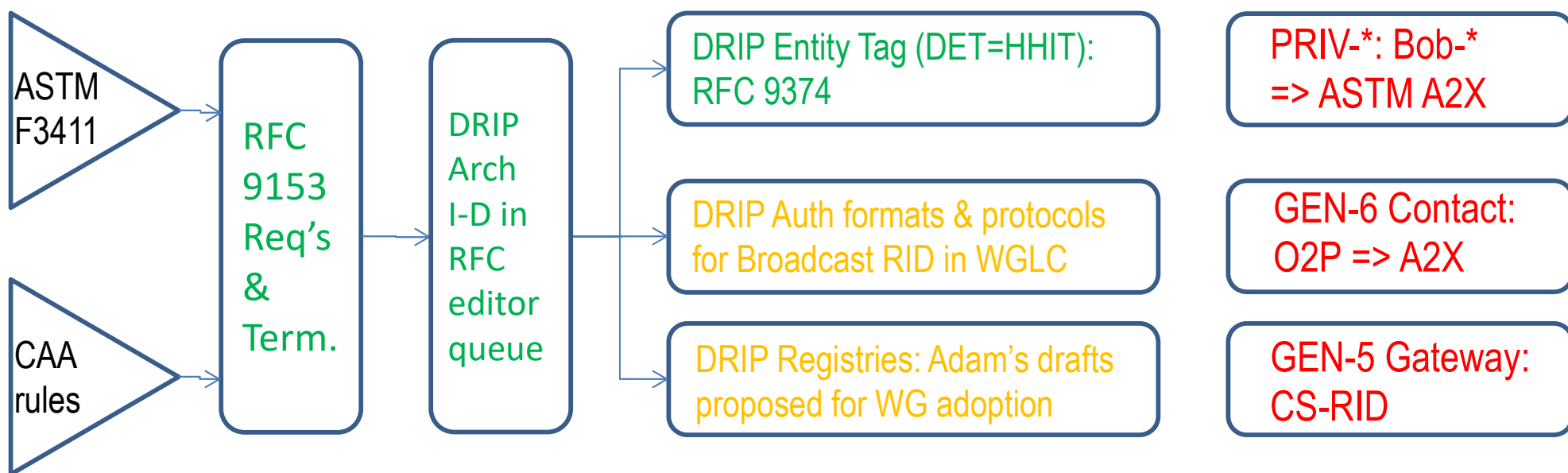


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How do these drive DRIP work?



Please urgently review Auth!

Also please help write registry & provisioning implementation option (EPP, RDAP, HTTP) drafts.



Drone Remote Identification Protocol (DRIP)

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- ICAO wants an “Observer” (non-voting Subject Matter Expert) from IETF in Trust Framework Panel.
 - Bob & Stu are already on the TFP as Observers representing businesses active in aviation trust so cannot wear this hat.
 - The first meeting of the TFP is happening right now in Montreal; Bob is there.
- ASTM wants ICAO to act as registrar for some RID types & corresponding integer code assignments.
 - Specific Session ID types: “IETF DRIP entity ID” is designated as Type 1 in F3411-22a so we are already covered.
 - Specific Authentication Method (SAM) types: we need at least 3 to support DRIP Links, Manifests & Wrappers.
- To get DRIP SAM assignments:
 - ASTM has sent a letter to ICAO (currently in their legal review) requesting they perform the registrar function.
 - ICAO has unofficially agreed in principle to do it & we are told there will finally be action in the next few days.
 - We (IETF DRIP) will request our SAM assignments as soon as that process is in place.
- We also have been talking w/IANA:
 - IP prefix for initial UAS RID application has been settled in RFC 9374.
 - DNS apex has been tentatively settled as ordinary <nibble-reversed-address>.ip6.arpa in –registries (thanks Jim R!).
 - IANA has unofficially agreed in principle to be the [interim] RID type registrar if ICAO doesn’t move on it soon;
a request has been ghost-written for ASTM to send to IANA if that proves necessary & is in review in IETF & IANA.