Dual Use Registries

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first, some background

- IANA (Internet Assigned Number Authority) establishes registries that protocols use as a central repository for protocol names and numbers.

- Registries can be used by one or more protocol. For example, TLS/DTLS, IKEv1/v2.
What's the issue

When more than one protocol uses the same registry and both “camps” can’t agree to add values to the registry what happens?

If it were two IETF protocols, chances are we’d set up a new registry and point one protocol at one and the other at the other. Registries are cheap after all.

But, what if the two camps aren’t from the same SDO?
it’s not a hypothetical problem

- Liaison 1181, requested/supported “brainpool” values be added to the IKEv1 registry to support IEEE 802.11-2012.
- IKEv1 is obsoleted but its registry isn’t.
- There was some pretty significant push back on the additions.
- Compromise was reached to add notes to the registry stating the values are not for IKEv1.
- Some really wanted to use a new registry, but that was not possible due to IEEE 802 publication timelines.
a proposed solution

- Identify registries that are “dual” use
- Set up new registries
- Point IEEE specification at those registries