

Concepts & Terminology Working Group

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Introduction

The Concepts & Terminology Working Group (CTWG) helps ToIP members and communities to express themselves in ways that enable others to understand what that communication intends to convey to whatever level of precision is needed.

This is important, because contributors/users in ToIP come from various backgrounds. Their culture may not be Western. English may not be their native tongue. They may be experts in non-technological topics that are relevant for ToIP. Working with one another presumes a setting where participants have some level of shared understanding. Often, sharing one's understanding at a superficial level suffices. Other situations require that underlying concepts are shared in a more in-depth fashion. It's like cars: people buying, selling, or driving cars do not need in-depth shared knowledge about cars, whereas (maintenance or construction) engineers or liability lawyers need to share a deeper knowledge of how cars do (or do not) work.

We expect to see situations of "language confusion", i.e. in which people use words or phrases, the intension (not: [intention](#)) of which differs from the interpretation of some listeners/readers. CTWG aims to provide means to resolve that. Sometimes a casual glance at a dictionary or glossary is the solution. In other cases, deeper understanding matters, e.g. in when drafting specifications or contracts. Then [we need more than a set of definitions](#).

Scope

The scope of CTWG is to assist ToIP working groups (WGs), task forces (TFs), and other [communities of interest](#) or [communities of practice](#) that exist both within and outside of the ToIP Foundation to develop the concepts and [terms](#) they need for themselves or for particular projects, and make them available to the public. This includes developing artifacts and tools for discovering, documenting, defining, and (deeply) understanding the concepts and terms used within ToIP. Key deliverables include ways to define terms (e.g. [terms wikis](#)), maintain a [corpus](#) of data underlying these terms, and provide ways to query the corpus to obtain terms e.g. for the creation of glossaries and other artifacts. The data that underlies the terms typically consists of (formally modeled) concepts, plus their relations and constraints, and will encompass perspectives from technical, governance, business, legal and other realms. Although CTWG will maintain this corpus of data via repositories that all ToIP WGs and TFs can contribute to and inherit from, this does not preclude WGs or TFs from maintaining their own specialized glossaries if they require. Such specialized glossaries, together with other generators of concepts and terminology elsewhere in the industry, are expected to feed back into the glossaries and corpus of data maintained by CTWG in a cycle of continuous improvement.

Meetings

Schedule:

Meetings are bi-weekly, every second Monday from 10:00-11:00 PT / 17:00-18:00 UTC. See the [ToIP Calendar](#) for full meeting details including Zoom links.

See our [Meeting Pages](#) for agendas, notes, and links to recordings of all meetings.

Deliverables

The table below lists all CTWG deliverables that have been approved to move beyond Pre-Draft status.

Name of Deliverable	Deliverable Type	Link to Draft Deliverable	Task Force	Status
Main ToIP Glossary	Glossary	Repo: https://github.com/trustoverip/ctwg-main-glossary	CTWG	Generated document: https://trustoverip.github.io/ctwg-main-glossary/
ToIP Concepts and Terminology Guide	Guide	Repo: https://github.com/trustoverip/ctwg-terminology-governance-guide	CTWG	Generated document: https://trustoverip.github.io/ctwg-terminology-governance-guide/

Specification Template	Template	Repo: https://github.com/trustoverip/specification-template	TSWG	Generated document: https://trustoverip.github.io/specification-template/
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The overall scope of the CTWG includes the following activities:

1. Develop and maintain a high-quality corpus of terminology that covers the needs of the ToIP community.
2. Develop a process whereby this corpus can be:
 - a. Curated, based on evidence and using expert opinion, such that concepts, relations between concepts and constraints can e.g. be
 - i. carefully defined,
 - ii. assigned an identifier (name/number/label) to distinguish it from any other concept in the corpus,
 - iii. mapped onto terms that are defined and/or commonly accepted in various relevant domains/contexts,
 - iv. their usage and relevance documented from organic sources,
 - v. their status adjudicated into e.g. 'working', 'preferred', 'accepted', 'superseded' and 'deprecated'.
 - b. Enhanced in a collaborative, open, and fair manner by interested community members.
 - c. Versioned.
 - d. Published in different ways (e.g. as a glossary, concept map, use-case stories ...), for specific purposes (e.g. education, reference, , ...) by different means (e.g. a PDF, a website, presentations/webinars, ...) and as needed by different audiences/stakeholders or domains (e.g. business domains, architectural domains, ...)
 - e. Promoted as a valuable public resource and an influence for convergence and excellence.
3. Train and organize volunteers so the initiative develops sustainable long-term momentum.
4. Disseminate/promote the work across ToIP WGs and other relevant audiences.

Chairs / Leads

- Co-Chairs: [Drummond Reed](#), [Henk van Cann](#)
- Former Co-Chairs: [Rieks Joosten](#), [Daniel Hardman](#)

How to Join

You can join this WG by signing up for the Foundation mailing list at lists.trustoverip.org. Our mailing list is concepts-terminology-wg@lists.trustoverip.org.

Members as well as observers are welcome (see the caveat below).

Participation

For the protection of all Members, participation in working groups, meetings and events is limited to members of the Trust over IP Foundation (including their employees) who have signed the membership documents and thus agreed to the intellectual property rules governing participation. If you or your employer are not a member, we ask that you not participate in meetings by verbal contribution or otherwise take any action beyond observing.

Intellectual Property Rights (Copyright, Patent, Source Code)

The WG inherits the IPR terms from the [JDF Charter](#). These include:

- Copyright mode: [Creative Commons Attribution 4.0](#).
- Patent mode: **W3C Mode** (based on the [W3C Patent Policy](#)).
- Source code: **Apache 2.0**, available at <http://www.apache.org/licenses/LICENSE-2.0.html>. The GSWG TA TF is not expected to produce source code.

Core Concepts

Context

The primary focus of the ToIP Foundation is not just on technology (e.g. cryptography, DIDs, protocols, VCs, etc.), but also on governance and on business, legal and social aspects. Its mission to construct, maintain and improve a global, pervasive, scalable and interoperable infrastructure for the (international) exchange of verified and certified data is quite complex, and daunting". This not only requires technology to be provided (which is, or should be the same for everyone, i.e. an infrastructure). It also requires that different businesses with their different business models can use it for their specific, subjective purposes. And that each individual business and user is provided with capabilities that facilitate its compliance with the rules, regulations and (internal and external) policies that apply to that entity - the set of such rules, regulations and policies being different for every such entity, and dependent on the society, the legal jurisdictions and individual preferences. All this is to be realized by people and organizations from different backgrounds - different cultures, languages, expertise, jurisdictions etc., all of whom have their own mindset, objectives and interests that they would like to see served.

The aim of this WG is to enable people in the ToIP community to actually understand what someone else means, to the extent and (in-depth) precision that they need, and facilitating this by producing deliverables/results/products that are fit for the purposes that they pursue. Initially, we expected to see the development of a common glossary, that lists (and summarizes) the basic words we use in the ToIP community. It would include terms defined within as well as outside of ToIP (e.g. by [NIST](#), [Sovrin](#), W3C's [VC](#), [DID](#) standards, and others).

However, the [minutes](#) on a IIW meeting topic '[glossary effort](#)' showed that developing a common glossary is quite difficult. This is underlined by a [post of Eugene Kim \(2006\)](#). But even when an effort to establish a 'common glossary' were to be successful, that doesn't imply that the 'commonality' extends beyond the set of its creators. The idea itself of establishing a terminology and subsequently (cautiously, but nevertheless forcefully) imposing it on others, is a highly centralistic way of doing things. And it doesn't work (it never has).

The WG recognizes that different groups use (slightly or quite) different [terminologies](#), and acknowledges their 'sovereignty' in doing this. Thus, such groups will be enabled to define their own [terms](#), yet at the same time facilitated to use terms defined elsewhere. As each group [curates](#) its own terminology, they each have the ability to decide to what extent they will adopt the terms of other groups into their own terminology. We trust that the various ToIP WGs and TFs will work together and the need to harmonize terminology will arise as their cooperation takes on more solid forms.

We expect subgroups of the ToIP community (e.g. WGs, TFs, TIPS) to create their own specific terminologies that help them serve their needs as they focus on specific objectives (thus facilitating domain/objective-specific jargon). The CTWG will assist them where appropriate, and ensure that (in the midterm!) [glossaries](#) can be generated from each such terminology.

Also, we expect to include more precise (theoretical?) specifications of underlying concepts, e.g. in terms of conceptual/mental models. Such models help to obtain a more in-depth understanding of ideas that are worth and necessary to be shared within one or more community sub-groups. They may also facilitate the learning process that (new) community members go through as they try to understand what it is we're actually doing. And they may help to 'spread the word' in specifically targeted (e.g. business and legal) audiences. A specific focus of this WG is to establish relations between the concepts of the mental models and the terms defined in the various glossaries.

A model for some of the deliverables of this WG is one or more websites that would resemble the [Legal Dictionary](#). This site not only provides a definition of various terms, but also a brief description of their backgrounds, various use-cases that exemplify the relevance of (and distinctions made by) the terms, and other useful information.

Finally, we expect to see results that we haven't thought of yet, the construction of which will be initiated as the need arises, by (representatives of) those that need such results for a specific purpose. Perhaps we might produce a method for resolving terminological discussions that can be lengthy and do not always get properly resolved (e.g. as in id-core issues [#4](#), [#122](#)). Here, we leverage a [prior collaboration](#) between Daniel Hardman (Evernym) and Rieks Joosten (TNO).

Requirements

The Corpus of Terminology MUST have:

1. Source control and build processes managed in github.
2. A well defined syntax for contributing concepts/relations, and for each of them an identifier by which it can be identified within the scope of the Corpus.
3. A well defined syntax for attributing terms to such (established) concepts/relations for specific contexts/domains.
4. A well defined CI/CD process.
5. A simple process for contributing further content.
6. A simple publicly accessible website, containing at least the Corpus-identifiers and their definitions, possibly inspired by the '[Legal Dictionary](#)'.
7. A PDF document for every published version, containing at least the Corpus-identifiers and their definitions.

The Corpus MUST NOT have:

1. A skill requirement on programming knowledge as that will reduce contributors.

The Corpus SHOULD be:

1. Reusable and easy to leverage in ToIP repos.
2. Usable for language translation via separate self-organized language specific repos. These repos should be aggregators of the baseline glossary and any TIPS.
3. Usable for mapping its identifiers/terms to those in use in other contexts/domains.
4. Consumable at the RAW content level (.md files) by external groups who wish to render content in a different manner.

Solution Approaches

We SHOULD:

1. Use a github repo to manage the corpus.
 - a. Consider using a Creative Commons license instead of an Apache license; it may be more appropriate.
 - b. Require DCO/IPR for contributors to the repo. Anybody who complies with the DCO/IPR requirements can submit to the corpus by raising a PR.
 - c. No need to manually maintain metadata about who edited what, when. We have commit history and git praise/blame.
 - d. Use github issues to debate decisions about term statuses. Anybody can raise an issue.
2. Use existing pervasive opens source documentation tools such as [Spec-Up](#), [Docusaurus](#), and/or [GitHub Pages](#):
 - a. Each concept is described in a separate markdown doc that conforms to a simple template (see below). Concepts link to related concepts.
 - b. Each term is a separate markdown doc that conforms to a different simple template (see below again). Terms label concepts; links from concepts to terms remain implicit in the markdown version of the data, to avoid redundant editing. Having terms and concepts as separate documents that cross-link allows for synonyms, antonyms, preferred and deprecated and superseded labels for the same concept, localization, and so forth. They also allow for the peaceful co-existence of multiple terminologies (= sets of terms, namespaces, ...)

- c. Each context glossary is a separate markdown doc that conforms to another different simple template (see below once again). A glossary is an alphabetic list of terms relating to a specific subject, or for use in a specific domain, with explanations. The markdown document specifies the scope of the glossary, and the selection criteria for terms.
- d. Provides extendable CI/CD pipeline for the repo, and write unit tests to enforce any process rules, quality checks, and best practices the WG adopts.
- e. CI/CD process should enable live website and refreshed PDF document after each approved and merged PR.
- 3. Define the criteria for giving a term the statuses. What are grounds for saying it is deprecated, superseded, etc. (Criteria are published in a doc in the repo, so debating changes to criteria means a PR and github issue.)
- 4. Create a release process guidelines.
 - a. Define difference between live glossary and a “blessed version”. Suggest once per quarter, with names like “2019v1” (where 1 is a quarter). This format is not semver-compatible, because we have no need to wrestle issues of forward and backward compatibility--but it is easy to understand, parse, and reference in a URI.
- 5. Establish a ToIP website level access experience
 - a. Access to main Glossary in all language versions
 - b. Access to TIP Glossaries

We MAY:

- 1. Leverage existing CI/CD approaches (sample code repos) for incorporating [Spec-Up](#), [Docusaurus](#), and/or [GitHub Pages](#).
- 2. Suggest to the tech WG that they may write a generator tool that walks the repo, building in memory a semantic network of concepts that are cross-linked to terms, and emitting various incarnations of the content:
 - a. Browsable static html that's copied to a website, glossary.decentralized.foundation. The website should be indexed by Google and have search based on elasticsearch.
 - b. A .zip file of the static html that could be copied to other web sites.
 - c. An ebook format (e.g., epub).
 - d. Possibly, occasionally, a JIT-printed SKU published on kdp.amazon.com.
- 3. Create a crawler process that collects terminology from various sources (contexts), for the purpose of mapping terminology as is used and/or defined in that context onto the concepts/relations in our Corpus
- 4. Create a process for pulling new content (terms, concepts) from the MM_WG
 - a. A source is declared in a config file that's committed to the repo. This means anybody can propose a source by submitting a PR and debating its validity in a github issue.
 - b. Sources could include W3C Respec docs, IETF RFCs, Aries RFCs, DIDComm specs hosted at DIF, etc. Corporate websites wouldn't work because A) they're too partisan; B) they'd require random, browser-style web crawling, which is too hard to automate well.
 - c. Crawler pulls docs and scans them, looking for regexes that allow it to isolate term declarations, their associated definitions, and example: that demonstrate their usage.
 - d. Output from crawler is a set of candidate terms that must be either admitted to a pipeline, or rejected, by human judgment. Candidates that are already in the corpus are ignored, so this just helps us keep up to date with evolving term usage in our industry.

Content Templates: [Archived](#)