## 15 Best Practices for a good Security Advisory in CSAF format

A security advisory in CSAF format should be a well formatted and well understandable source of information to make things clear and not to raise a lot of questions. To reach this goal, the following rules should be applied (Rules apply to a security advisory, please use the csaf\_security\_advisory profile).

## Regarding the document subsection of a CSAF document

- 1. For property *tlp* the TLP *label* should be set to *WHITE* in order to have no limits in distributing the advisory (*/document/distribution/tlp/label*).
- The summary of a revision\_history entry should be used to describe shortly, clearly and human readable what has been changed in regard to the previous revision. This is an enabler for a fast decision whether a new revision matters or not (/document/tracking/revision\_history[]/summary).
- 3. The assignment of document ids should be consistent throughout an organization. The document id is used to build the filename and uniquely identify the document (/document/tracking/id). Together with the publisher namespace, it identifies a document globally unique.
- 4. The filename must follow the rules, defined in the CSAF standard (section 5.1).
- 5. The canonical URL in */document/references* makes it possible to automatically retrieve the latest version of that CSAF document.
- 6. The information to identify a publisher of a CSAF document should not be changed during a document lifecycle. Exceptions would be major events such as a company name changes (/document/publisher).

## Regarding the product\_tree subsection of a CSAF document

- 7. Provide product information as accurate and detailed as possible, using the /product\_tree/branches including the category, vendor, product\_name and product\_version.
- Product versions should be enumerated by using product\_version wherever possible as matching products from an asset database or SBOM against a product\_version\_range element can be complex, nondeterministic or error prone. If the issuing party doesn't have enough information to enumerate products by version, the use of a product\_version\_range is acceptable.
- Provide detailed information to enable a user/customer to properly identify a product in use. Use the product\_identification\_helper to convey that information (/product\_tree/\*/product/product\_identification\_helper).

10.Separation of hard- and software (firmware) is useful. Make clear how to identify the product itself and how to identify the installed software version, currently used by the product. Make use of *relationship* objects to convey this information.

## Regarding the vulnerabilities subsection of a CSAF document

- 11.Make clear which products are affected and which are fixed or not\_affected (/vulnerabilities[]/product\_status). If you list "not affected" products, consider using the profile CSAF VEX. However, it is recommended to provide at least a short statement in the details field of /vulnerabilities[]/threats, why that product is not affected.
- 12.Provide CVSS V3.1 scores (/vulnerabilities[]/scores[]).
- 13.Provide a CVE tracking number(/vulnerabilities[]/cve).
- 14.Provide proper information about the mitigation possibilities through /vulnerabilities[]/remediations. Use e.g. no\_fix\_planned if a product is end of life and none\_available if the fix is currently being developed.
- 15. A vulnerability should have at least a short description which could be used for a summary (/vulnerabilities[]/notes). This can be the CVE description (with title CVE description and category description) or a vulnerability summary (with title Vulnerability summary and category summary).