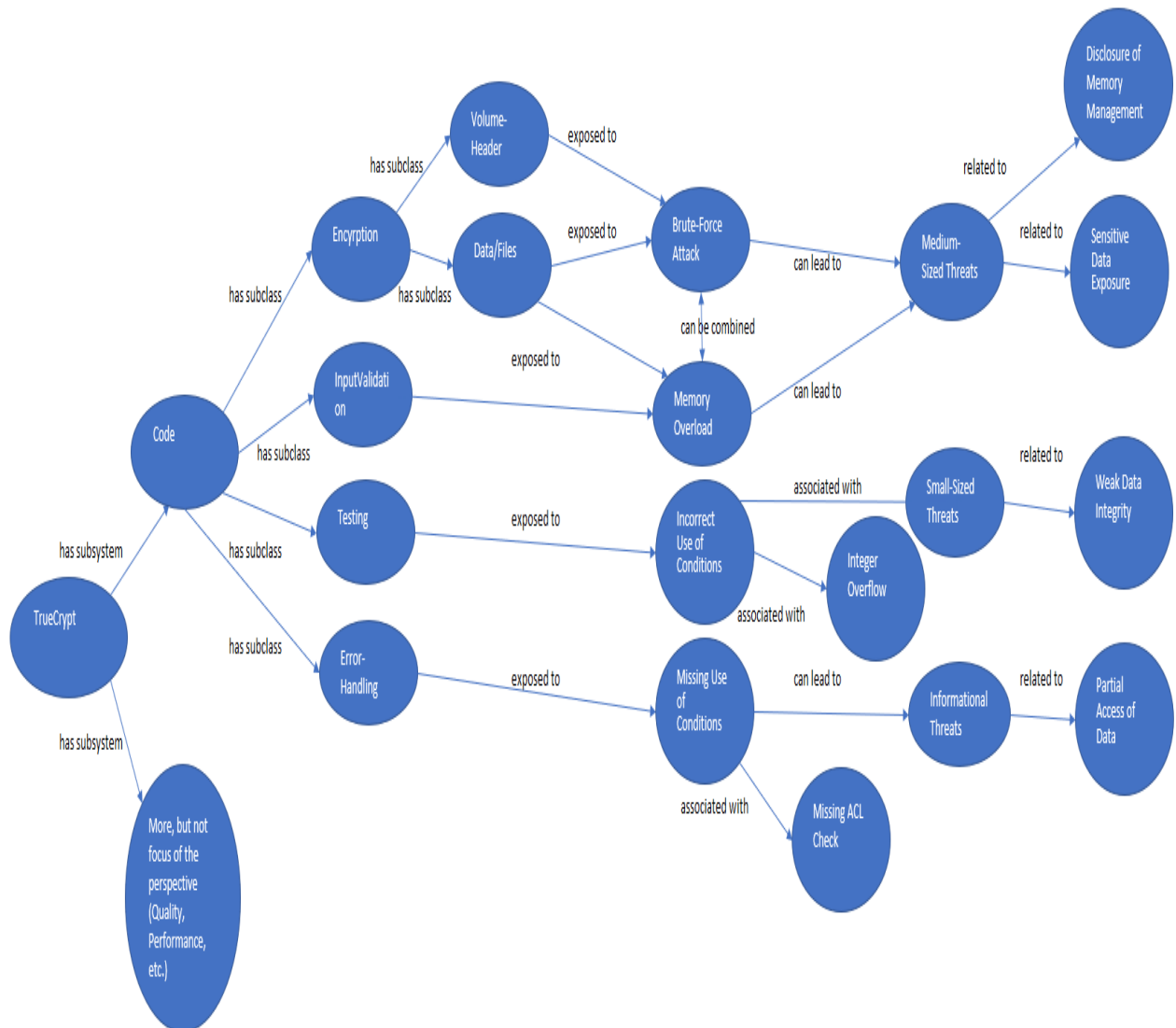## TrueCrypt

TrueCrypt has been developed by anonymous developers from 2004-2014 (Latest version 7.2.), since then the project has been stopped, without knowing the details who were the developers, why no continuation of the project by simply correcting past errors, etc.? I think that the report of (Junestam & Guigo, 2014) represents the thesis that TrueCrypt wasn't safe anymore but reading more sources that are trustful, it is reasonable believe that it wasn't that insecure, at least back in 2014 (Fraunhofer, 2015) (Security: in Thirty, 2014). Beside the fact that the used encryption algorithms were sophisticated, it also had the advantage that the source code was open source and therefore transparent to their users (Yegulalp, 2014). However, reading the report from iSEC, some issues could really have been avoided in simply using black-box testing (integer overflow for example). In other words, better cooperation with external parties could have saved the project at that time.

Whether I can recommend using TrueCrypt today? The answer is, it depends. To be clear, TrueCrypt is better than nothing, when you want to protect your sensitive data on a hard disk, USB stick, Chip card, etc. But when you want to improve security, then the successor Veracrypt can be downloaded, which is also open-source, it fixed the known security bugs of TrueCrypt and it is still an ongoing project (i.e. there is always a way to improve things) (Githinji, 2022).

To understand the mentioned weaknesses of (Junestam & Guigo, 2014) much better, you can find an ontology diagram below which covers the main threats (not all of them).

Reference List:

Fraunhofer SIT (2015) TrueCrypt is safer than expected. Available from:

https://www.sit.fraunhofer.de/en/news/latest/press-releases/details/news-

article/show/truecrypt-ist-sicherer-als-gedacht/ [Accessed: 01 August 2022]

Githinji R. (2022) 5 best TrueCrypt alternatives to encrypt your data today. Available

from: https://privacysavvy.com/security/safe-browsing/truecrypt-alternatives/

[Accessed 08 August 2022]

Junestam, A. & Guigo, N. (2014) Open Crypto Audit Project Truecrypt Security

Assessment.

Security: in Thirty (2014) What's up with TrueCrypt. Available from:

https://www.youtube.com/watch?v=s7NOZTiDI1Q [Accessed: 04 August 2022]

Yegulalp S. (2014) Sloppy but secure: Open source TrueCrypt passes audit.

Available from: https://www.infoworld.com/article/2607742/sloppy-but-secure--open-

source-truecrypt-passes-audit.html. [Accessed: 07 August 2022]