

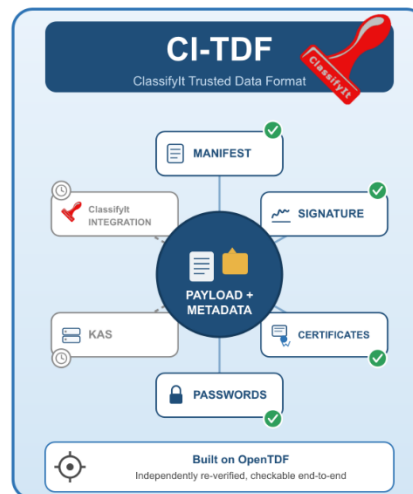
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CI-TDF – Built on OpenTDF, Adapted for Practical Use

From a strong foundation to a stronger practical format

OpenTDF (Trusted Data Format) is a genuinely strong foundation for Data Centric Security required for Zero-Trust ecosystems. OpenTDF is well thought out, and the right starting point – based on this we produced an improved format, the ClassifyIt-TDF (CI-TDF) which is also open, information centric, practical and adaptable.

We achieved the first version of the manifest and an application to test and validate the practicality and strength of the CI-TDF. You can test this, we provide the environment to encrypt, verify and decrypt files.



The Shared Foundation

Like OpenTDF, every CI-TDF container is a ZIP archive holding a plain, readable JSON manifest alongside an encrypted payload. Nothing hidden, nothing proprietary about the shape - open it, and the manifest reads like any other JSON document.

The Differences

The CI-TDF will be integrated in the ClassifyIt product and must follow practical adjustments. We added some attributes, like a unique ObjectID for the container, but also the original file's name and size. For the practicality we also support password-based and certificate-based encryption and in future also a KAS (Key Access Server). In addition the CI-TDF is open to add a full metadata file to the TDF container and envisions multiple payloads being supported.

What Next

We will further test the CI-TDF data structures, consider additional assertions like other classification markings schema, access control schema and metadata schema. We intend to integrate in the ClassifyIt product and add Shell extensions for usability of the strong CI-TDF format.

Test It Yourself

ClassifyIt provides a test environment for CI-TDF: a Windows application that creates and opens CI-TDF containers, test certificates.

Explore more at: <https://classifyit.eu>

#ZeroTrust #TDF #ZTDF #OpenTDF #DataSecurity #ClassifyIt #CITDF