Deliverable 3.1

Supporting development infrastructure

DEFRAUDify - Detecting Fraudulent activities on the internet

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## Introduction

One of the strengths of DEFRAUDify is that the technology partners (TNO, TU/e, Sentinels.ai, CFLW, Almende, Web-IQ and BEIA) leverage their existing tools and technologies and combine their experience and expertise to create new solutions that support the challenging use cases of the end-user partners (Bunq and Hoffman).

The focus in the project is therefor to adapt, innovate and integrate the existing technologies into a collection of interoperable and reusable tools.

The coherence of the DEFRAUDify tools is not achieved by creating a monolithic application, running them in a central place or by putting the code in a central repository. Instead, tools are developed and operated by the partners that already have the expertise and optimal infrastructure in place and synergy is achieved by building on a central and shared ontology [D3.2] that relates all the data in the DEFRAUDify ecosystem and by selecting and shaping the tools to complement and build on each other’s features.

## Development infrastructure

Each of the technology partners has an existing development environment that is tailored to the needs of that partner and the characteristics of their technology solutions.

*Code repository*

Each partner will use their own repository (Bitbucket, Github, local git / svn).
If co-creation (writing software together on code level) is needed, this will happen within the context of existing tools and be done within the code repository of one of the partners involved.

*Development resources ea.*

Each partner will use their own servers, capacity and development tools to build and test their products.

* *Demonstration and integration test resources ea.*

Technology partners will facilitate the integration of the tools for evaluation and testing use cases by providing demo versions of their tools, thereby setting up a federated demo environment, where tools interact via API’s (or via exchange and integration of e.g., software libraries or trained models).

As such, there will be no central development infrastructure. Instead, the tools are developed and operated by the partners that have the ownership and expertise. These development environments together will fulfil D3.1.

The rationale for this choice is that the tools in the project will not coalesce into one monolithic platform, but rather remain diverse and distributed. The vision is that the exploitation of the project results is much more agile when different combinations of tools (both DEFRAUDify tools and other legacy tools) are put together in ways that are demanded by the problem to be solved. To have distributed tools work together in practice, the development can also best be done in a distributed way.

To facilitate the integration of the tools and co-create new solutions, we will create a documentation repository (using NextCloud) where we will keep track of API documentation and descriptions of the individual services and tools.