Description of Access to Open Data of MechaTwing Project

1. Introduction

This description corresponds to the version 2.0 of Data Management Plan (DMP) of MechaTwing project.

2. Considered data types for MechaTwing project

The main data types and corresponding formats generated and collected within the MechaTwing project are following:

1. Paper, reports, descriptions: docx, pdf, tex, txt, ps
2. Photo, picture, video, animation: jpg, jpeg, png, tif, ps, eps, mp4, wmv, avi, mpg, vrml
3. Presentations, schemes: pptx, pdf, xlsx, xml
4. Simulation model: m, slx, ins, map, int, fnc, dll, enc, view, int, lis, run, db, ans, mechdb, meshdat, cmdb, cfx, …
5. Computer programs: m, slx, c, h, exe, py, lsp
6. Simulation data: mat, dat, res, rth, wbdp, 1nd, wbpj, wbex, wbdb, esav, mntr, rst, emat, axdt, lgw, engd, …
7. Experimental data: cdf, d7d, xlsx, txt
8. Experimental equipment design: dwg, dxf, smg, sldprt, sldasm, slddrw, igs, iges, step

3. Meta data description

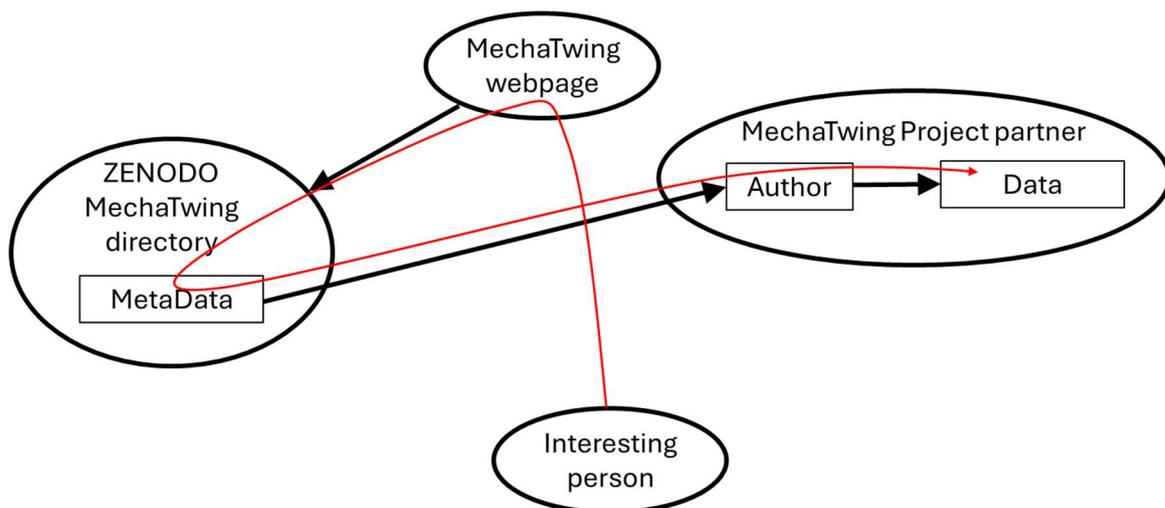The used meta data structure with content description is following:

Meta data version: Type of Data Management Plan (DMP) of MechaTwing project.
Metadata PID: Persistent Identifier Data like DOI if it exists.
Metadata standard: Type standard of metadata if it exists and is used.
Metadata storage date: Date of creation of meta data file.
Metadata description: The content of items is described at www.mechatwing.eu.
Date access description: The description how to obtain the data at www.mechatwing.eu.
License: The description how to obtain the license for data.
Data type: The used data type from the list of data types described at www.mechatwing.eu.
Format: The format of used data type.
SW program for data reading: SW program used for data creation and reading.
SW program version: Version of used SW program for data creation and reading.
Size: Number of bytes.
Date of data creation: Date of creation of data itself.
Dedication: Required citation of data origin.

Title: Title of the data.
Language: Language of data if applicable.
Author: Author(s) of created data.
Affiliation: The affiliation of author(s) of data.
Email: The email for communication with the data author.
Content description: Descirpion of data content.
Association with other data: PID of other data associated with the current data.
Keywords: Keywords or ontology description of data content.

4. Data Management Procedure for data usage

The access to data from MechaTwing project is schematically depicted in the figure below. Basic advertisement of data from results of MechaTwing project is on its webpage. At the ZENODO data storage there is created a directory of MechaTwing project. This directory includes all meta data of all open science data from MechaTwing project. The metadata includes the link to the data author from MechaTwing Project partner. The author has local storage for the data itself.

An interesting person finds the MechaTwing project webpage with the link to the MechaTwing directory at ZENODO storage. The interesting person looks at the metadata at ZENODO storage. If he/she is interested in some data then he/she contacts the author via the email stored at the metadata. The author decides about granting the licence to the data. If the licence is granted then the interesting person obtains the date from its author from the MechaTwing project partner storage. The link to ZENODO is zenodo.org. At ZENODO webpage use search option with MechaTwing and you come to MechaTwing directory at ZENODO.