

EMPHYSIS – D3.4 Flat Modelica Language Specification

ITEA 3

Version 1, (Release) January 2021

Project Acronyms

eFMI	Functional mock-up interface for embedded systems
eFMU	Functional mock-up unit for embedded systems

From Full Project Proposal

ID	Type	Description	Access	Due month
D3.4	DOC	<p><i>Flat Modelica Language Specification – Restricted Modelica Language</i></p> <p>This document is the result of T3.4 and will be transferred to the Modelica Language working group at M40 for further development and later submission as MLCP.</p> <p>(This document is developed in close collaboration with the Modelica Language working group of the Modelica Association and is publicly available as MLCP branch on the Modelica Language github repository. Feedback provided by the public can still be incorporated before the end of the project.)</p>	Public	M42

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1 Introduction

The Flat Modelica language has been developed in close collaboration with the Modelica Association Language Group.

In preparation of a future Modelica Change Proposal (MCP) a corresponding branch has been created in the public Modelica Specification github repository with the title:

Modelica Change Proposal MCP-0031

Flat Modelica and MLS modularization

<https://github.com/modelica/ModelicaSpecification/tree/MCP/0031/RationaleMCP/0031>

This branch has 188 commits, contains 5 open and 14 closed pull requests, which give an indication of the on-going activity.

The preliminary results of this activity will be submitted to the MDPI Electronics journal

<https://www.mdpi.com/journal/electronics> .

A pre-print is available in the attached file:

- flat-modelica_MDPI_pre-print_2021-01-27.pdf

Significant progress has been made in the course of this project. The required level of maturity for submitting the MCP has not yet been achieved, but a solid foundation has been laid.