

## I. IDENTIFICATION DATA

<b>Thesis title:</b>	<b>Data flow structuralization and visualization in the scope of enterprise integration platform.</b>
<b>Author's name:</b>	<b>Marek Mičkal</b>
<b>Type of thesis :</b>	master
<b>Faculty/Institute:</b>	Faculty of Electrical Engineering (FEE)
<b>Department:</b>	Department of Computer Science
<b>Thesis reviewer:</b>	Ing. Karel Frajták, PhD.
<b>Reviewer's department:</b>	System Testing IntelIgent Lab (13144)

## II. EVALUATION OF INDIVIDUAL CRITERIA

<b>Assignment</b>	<b>challenging</b>
The goal of the project was to analyze the current state of a data integration platform and devise a unified and structuralized approach for data flow visualization. The data flows are not declared in a uniformed manner – custom in-house framework, Java code and Apache Camel framework were used for data flow declarations.	

<b>Fulfilment of assignment</b>	<b>fulfilled</b>
The thesis fulfills the assigned task. The goals of the thesis have been achieved.	

<b>Activity and independence when creating final thesis</b>	<b>A - excellent.</b>
The student had a positive approach, he was well prepared for the consultations. The student demonstrated excellent ability to work independently, issues were fixed almost immediately.	

<b>Technical level</b>	<b>A - excellent.</b>
The student clearly explained what was done.	

<b>Formal level and language level, scope of thesis</b>	<b>A - excellent.</b>
The thesis is written in a logical way. The thesis is sufficiently extensive. The English is clear and understandable with minor errors.	

<b>Selection of sources, citation correctness</b>	<b>A - excellent.</b>
The selected sources are a reasonable mix of online resources and scientific publications. The citations do meet the standards.	

<b>Additional commentary and evaluation (optional)</b>	
<p>The thesis starts with the introduction to data integration and its nuances. I do not understand the text in chapter 3.5. about the exploration of architectures “that shaped the data integration landscape”. In chapter 3.6. lists commercial only platforms for data integration, the research should have been more exhausting – are there open-source platforms available? The result of the project is a unified visualization of data flows declared using multiple frameworks. The resulting code is quite minimal with no tests.</p> <p>I appreciate the extensive user testing with the member of target audience who will be using the platform. What is also worth of mentioning is the simple yet powerful idea to extract the visualization of the data flows defined in Camel by using its XML representation available at runtime.</p>	

## III. OVERALL EVALUATION, QUESTIONS FOR THE PRESENTATION AND DEFENSE OF THE THESIS, SUGGESTED GRADE

I do not have any further comments.

The grade that I award for the thesis is **A - excellent**.

Date: **17.6.2024**

Signature: