

Relsem Bridge	Version: 1.0
Final Project Report	Date: 13/01/2014

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# Revision History

<b>Date</b>	<b>Version</b>	<b>Description</b>	<b>Author</b>
2014-01-13	1.0	Final version	Michele Castellana

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# 1. Introduction

## 1.1 Purpose of this document

The following document is intended as the conclusive reference after the end of the project. Therefore it is written in the final stage of the project development. It summarizes the project artifacts as well as an overview over the project stages. Furthermore it describes shortly the project experiences and gives an overview of the requirements and their fulfillment. As the document is written at the end of the project it will not be updated and has no other documents which depend on it.

## 1.2 Intended audience

The document is intended for the following audience as the final project reference and summary:

- Project team members
- Supervisor
- Customer

## 1.3 Scope

The scope of the document is to summarize the development process of the Relsem Bridge project, conducted as a part of the DSD course. In the document there is a summary for the project team, milestones completed during the project development life cycle and requirements that were fulfilled or dropped during the development phase. At the end of the report, there is a summary of individual and team effort invested by each of the team members to finish the project.

## 1.4 Definitions and Acronyms

### 1.4.1 Definitions

Keyword	Definition

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## 1.4.2 Acronyms and Abbreviations

Acronym or Abbreviation	Definition
RelSem Bridge	Relational to Semantic Bridge

## 2. Background and Objectives

Large amount of user data is aggregated from the telecommunication network into a single semantic graph to enable extracting current and even new knowledge. While this approach is beneficial in mentioned use-case, it requires the users of the system to implement, for this purpose, rarely used and complex interfaces in order to obtain data. Other than semantic, data is consolidated into multiple, physically distributed, heterogeneous systems.

In order for data to be able to support business decisions, it needs to be available to various analytics tools via standardized interfaces. Since majority of commercially available analytical tools rely on relational model, proposed federation tool needs to provide common, federated relational view of all available data sources.

The objective of the customer is to create a platform that will gather data from various sources available to telecom operators to provide a semantic structure for this data and to enable reasoning with it, so the operators could create new products, marketing plans, etc. The final goal of Ericsson is maximizing the revenue potential from available data by institutionalizing the capture, storage, analysis, effective dissemination, and application of that data.

Relational to Semantic bridge is the proposed solution for given problems. Product provides user with means of viewing data from all available sources, choosing the necessary parts for given use case and building relational views to conform to application needs. Constructed bridge is transparent to the 3rd party applications, using the bridge as any relational database, requiring no software changes when switching from standard data sources to bridge.

## 3. Organization

In this chapter the organization of the project team is explained and what parts the individual members carried out in the project. Furthermore the customer will be introduced.

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### 3.1 Project Group

The members of this project are distributed over the two locations: POLIMI and FER. To ensure the project's success, roles were assigned to the individual team members. The following table shows the project roles of the RelSem team members:

<b>Name</b>	<b>Initials</b>	<b>Location</b>	<b>Responsability</b>
Ivan Lučin	IL	FER	Frontend Developer, Git admin
Željko Kraljević	ZK	FER	Backend Developer
David Riobo	DR	FER	Backend Developer
Mladen Subotić	MS	FER	Project Manager, Backend Developer
Michele Castellana	MC	POLIMI	Team Leader, Backend Developer
Georgy Shabunin	GS	POLIMI	Backend Developer

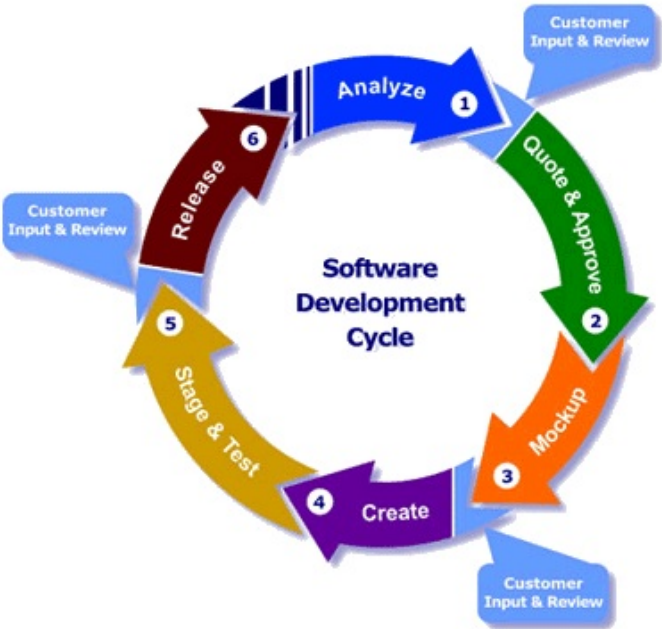
### 3.2 Supervisor

The supervisor of the project is Marin Orlić from FER. He supervised the progress and the direction that the project took.

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## 4. Development process

The development process used for building the RelSem Bridge applications is an adapted iterative approach to meet the demands of the project. After an initial planning, the Figure below shows the development process.



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## 5. Milestones

ID	Milestone Description	Responsible Dept./Initials	Finished Plan	Finished Forecast Week	Finished Forecast +/-	Finished Actual	Metr	Rem
M-001	Project plan v0.1 doc	All	44	44	0	44		
M-002	Requirements definition	All	45	46	1	46		
M-003	Revised Project Plan	All	45	46	1	47		
M-004	System Design	All	45	46	1	46		
M-005	Alpha Prototype Milestone	All	49	49	0	49		
M-006	Second Status Report Milestone	All	50	50	0	50		
M-007	Beta Prototype Milestone	All	52	52	0	52		
M-008	Acceptance Test Plan	All	1	1	0	1		
M-009	Final Presentation Milestone	All	2	2	0	2		
M-010	Final project report	All	3	3	0	3		



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## 6. Risks

The following section describes the risks which occurred during the project divided in three categories:

Risks that have appeared but their impact was low because of preventive actions:

- Git problems
- Team members absence
- Lack of experience

Risks that appeared and had a significant impact on project work:

- Lack of enthusiasm
  - we did not foreseen that some of the team members would not push as hard as it was expected from them. This was a really big problem during the project.
- Communication issues

Risks that appeared but were not foreseen:

- A team member leave the project
  - in specific Rafael Contreras

## 7. Project Experiences

### 7.1 Positive Experiences

- Improve English skills;
- Improve public presentation skills;
- Experience of working in a team;
- Experience of working in a distributed team;
- Learn how to face problems;
- Respect cultural differences.

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## 8. Metrics

### 8.1 Work per Member

Member	W43	W44	W45	W46	W47	W48	W49	W50	W51	W52	W53	W01	W02	Total
Ivan Lučin	5h	5h	22h	24h	11h	16h	40h	20h	18h	4h	23h	24h	4h	216h
Željko Kraljević	4h	4h	12h	23h	7h	16h	19h	18h	4h	17h	4h	15h	0h	143h
David Riobo	4h	4h	4h	22h	4h	8h	28h	21h	27h	25h	6h	12h	0h	165h
Mladen Subotić	5h	5h	18h	30h	7h	14h	31h	24h	29h	29h	11h	11h	4h	218h
Michele Castellana	4h	4h	16h	26h	23h	8h	26h	23h	23h	23h	19h	22h	30h	247h
Georgy Shabunin	4h	5h	6h	29h	4h	4h	4h	18h	21h	4h	4h	4h	0h	107h
<b>TOTAL</b>	<b>26h</b>	<b>27h</b>	<b>76h</b>	<b>154h</b>	<b>56h</b>	<b>62h</b>	<b>148h</b>	<b>124h</b>	<b>122h</b>	<b>102h</b>	<b>102h</b>	<b>88h</b>	<b>38h</b>	<b>1096h</b>

### 8.2 Milestone Metrics

Completed as planned or earlier	Total	Timeliness
7	10	70%