

# Software Architecture – Phase I

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# Contents

<b>1</b>	<b>Domain Model</b>	<b>2</b>
<b>2</b>	<b>Additional constraints</b>	<b>3</b>
<b>3</b>	<b>Glossary</b>	<b>4</b>
<b>4</b>	<b>Use Cases</b>	<b>5</b>
4.1	Use case diagram . . . . .	5
4.2	Use cases . . . . .	5
4.2.1	User profile creation . . . . .	5
4.2.2	User profile association with a remote monitoring module	6
4.2.3	Remote monitoring: Installation and initialization . . . .	6
<b>5</b>	<b>Quality attribute scenario's</b>	<b>7</b>

## Chapter 1

# Domain Model

## Chapter 2

# Additional constraints

## Chapter 3

## Glossary

# Chapter 4

## Use Cases

### 4.1 Use case diagram

### 4.2 Use cases

#### 4.2.1 User profile creation

**Primary actor** Customer

**Interested parties** Call Center, ReMeS, Utility providing company

**Preconditions**

- The customer needs to have a contract on record with at least one company participating in the ReMeS program

**Postconditions**

- The customer has web access to the ReMeS system

**Normal flow**

1. The customer contacts the ReMeS call center to request the necessary documents to be filled out.
2. a ReMeS employee sends the necessary documents to the residential user by regular mail.
3. The residential user fills out the required documents.
4. The customer sends the filled out forms back to ReMeS.
5. a ReMeS employee processes the customers request and generates an authentication token (e.g. username and password)

6. a ReMeS employee sends an authentication token back to the residential user by regular mail.

**Alternate flow**

- 2a** The customer is a business/the customer has a business contract.
  1. a ReMeS employee sends the necessary documents to the business owner.
  2. The alternate flow returns to step 3 in the normal flow.
- 6a** The customer is a business/the customer has a business contract.
  1. a ReMeS employee sends the authentication token back to the business owner.

**Exception flow**

- 5a** There are errors in the application.
  1. a ReMeS employee sends the form back to the customer with additional information about the application not passing.

**4.2.2 User profile association with a remote monitoring module**

**4.2.3 Remote monitoring: Installation and initialization**

**Primary actor** Customer

**Interested parties** ReMeS, Utility providing company, technicians

**Preconditions**

- The customer needs to have a contract on record with at least one company participating in the ReMeS program

**Postconditions**

- The customer has monitoring module installed

**Normal flow**

1. The customers contacts ReMeS to schedule the installation of the module.
2. The technician visits the customer at the agreed moment.
3. The technician installs the module.
4. The technician seals the module to prevent tampering.
5. The technician enters the current meter value in the system.

## Chapter 5

# Quality attribute scenario's