

# BCP - INSURABILITY

---



info@ehealth.fgov.be

<https://www.ehealth.fgov.be>

# Definitions

- A Business impact analysis (BIA) differentiates critical (urgent) and non-critical (non-urgent) organization functions/activities.
- Recovery Point Objective (RPO)
  - the acceptable latency of data that will not be recovered.
- Recovery Time Objective (RTO)
  - the acceptable amount of time to restore the function.

# Context

- Requested by Management Committee
- Multiple workshops with partners
- Inventory of business critical base services
  - Session Management
  - End-To-End Encryption
  - eHealth SOA infrastructure

# Context

- A BCP solution
  - *NOT* PERMANENT
  - SHORT PERIOD

Infrastructure investments continuous ...

- Completely duplicated on 2 sites
- Only 50% of capacity is used

# Context

- eHealth SOA infrastructure
- Isolation of business critical services
  - dedicated servers (R2016.1)
  - continuously monitored
- Identified critical services
  - Timestamping
  - KGSS
  - Attribute Authority
  - Insurability for Pharmacists

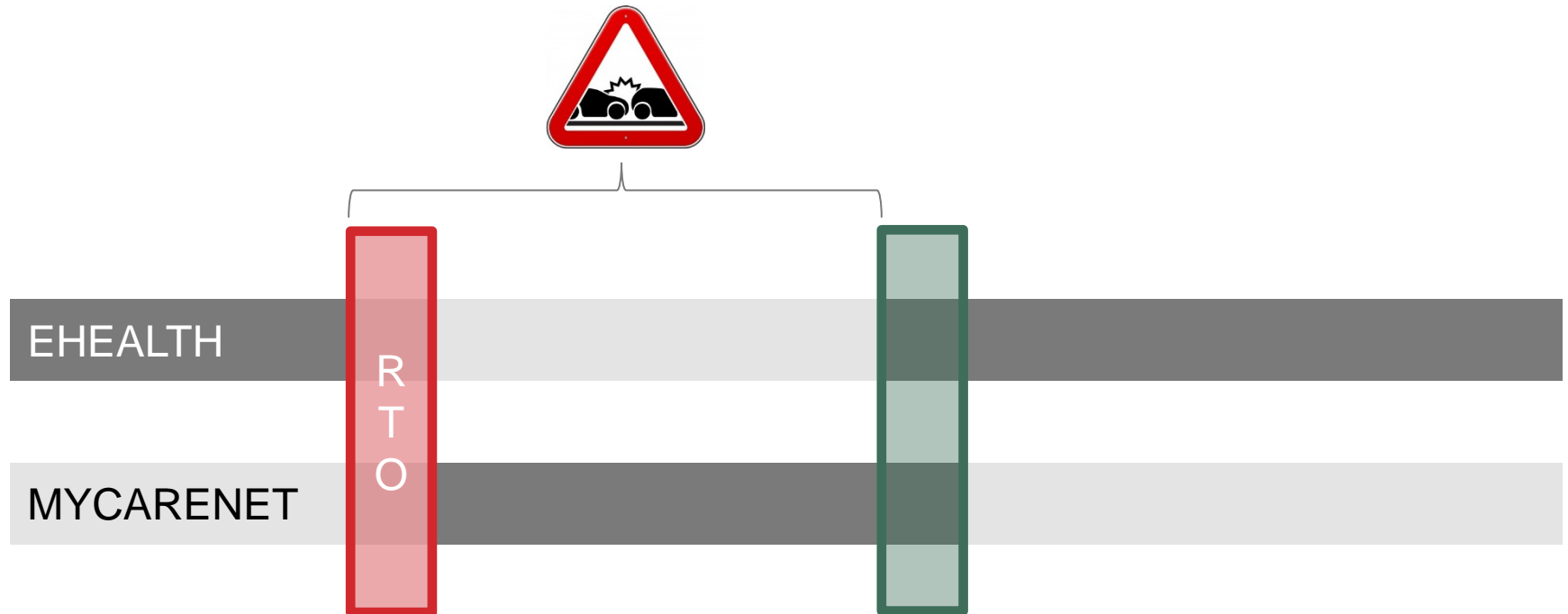
# Requirements

- Valid session (sliding window principle)
- With all required **identification** attributes (see cookbook)
  - urn:be:fgov:ehealth:1.0:certificateholder:person:ssin
  - urn:be:fgov:person:ssin
  - urn:be:fgov:ehealth:1.0:pharmacy:nihii-number
  - urn:be:fgov:person:ssin:ehealth:1.0:pharmacy-holder

# Requirements

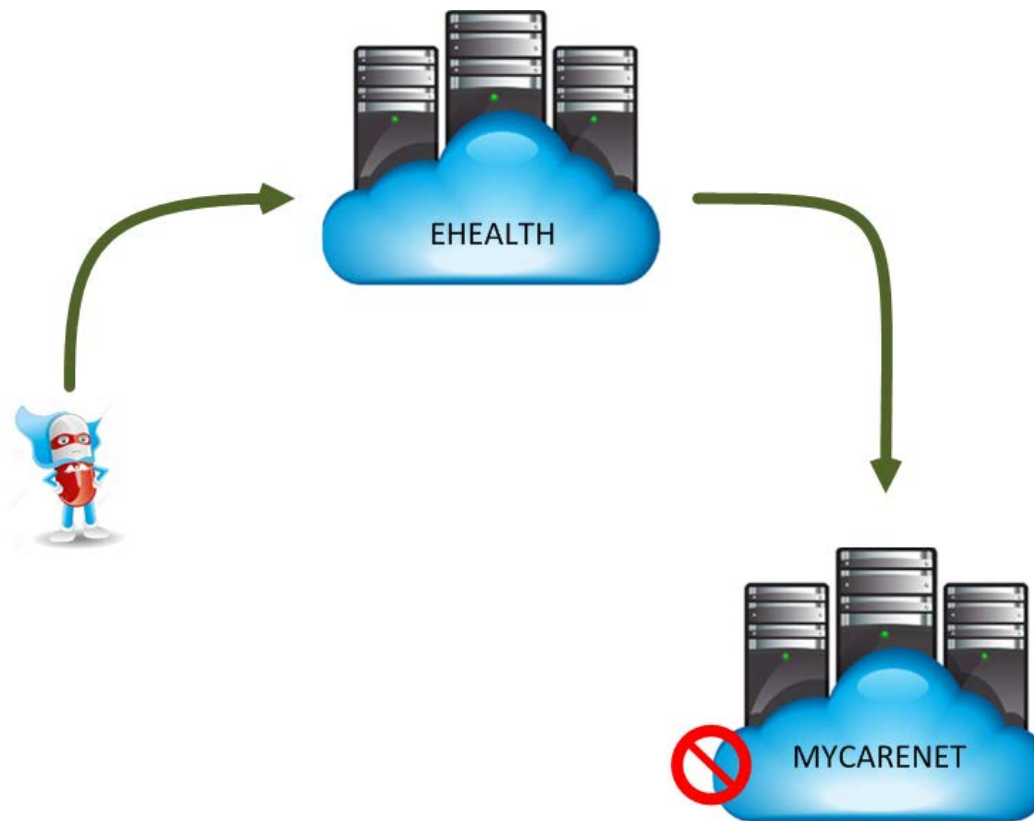
- With all required **certification** attributes (see cookbook)
  - urn:be:fgov:person:ssin:ehealth:1.0:pharmacy-holder
  - urn:be:fgov:ehealth:1.0:certificateholder:person:ssin:usersession:boolea
  - urn:be:fgov:ehealth:1.0:pharmacy:nihiinumber:recognisedpharmacy:boolean
  - urn:be:fgov:person:ssin:ehealth:1.0:pharmacy-holder:certified:nihi11
  - urn:be:fgov:person:ssin:ehealth:1.0:pharmacist:boolean

# High-Level Overview

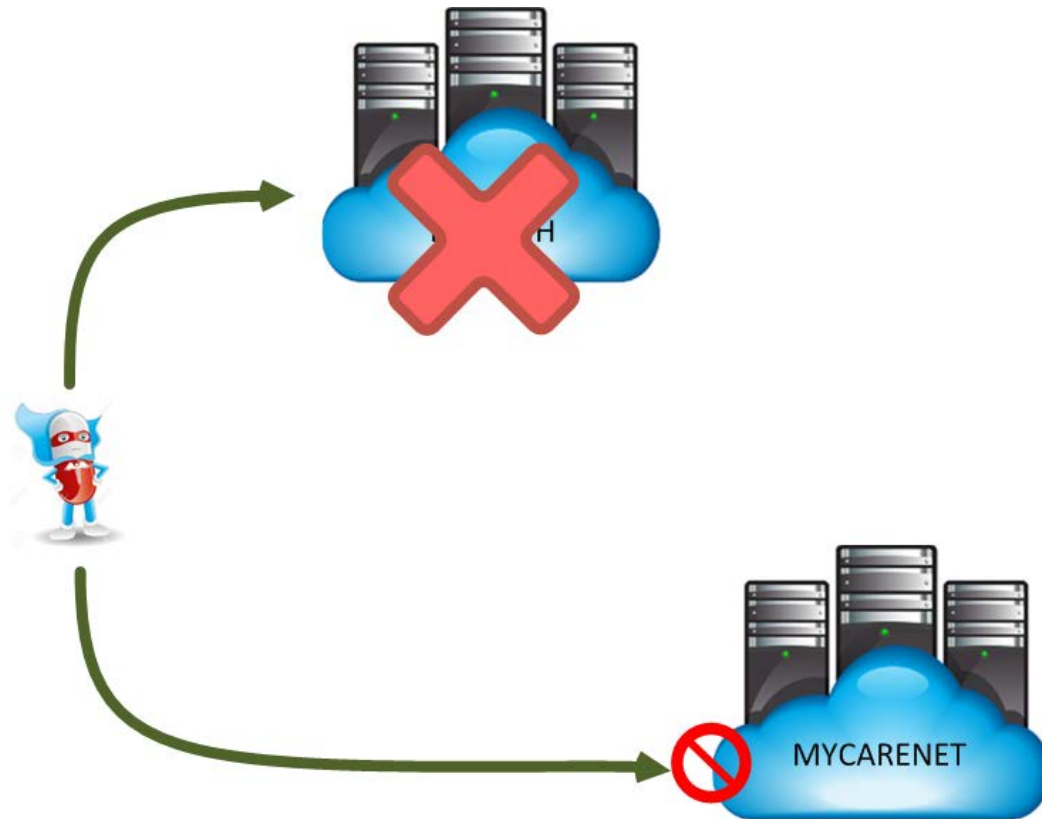




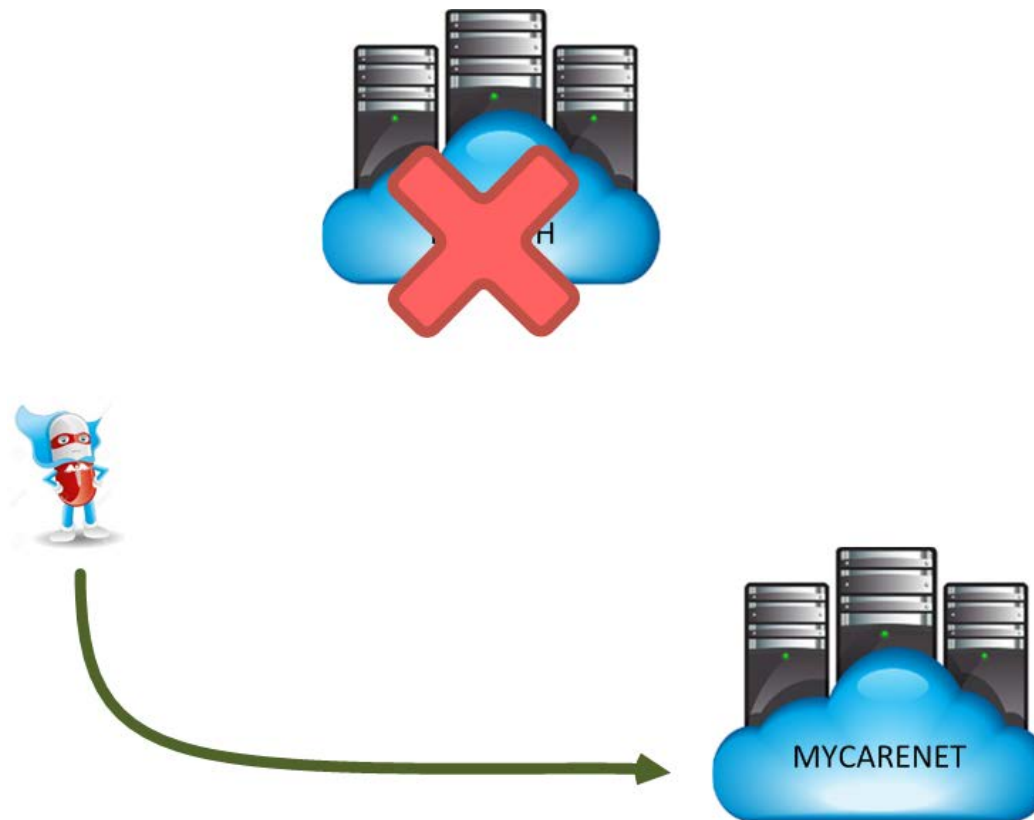
# Normal situation



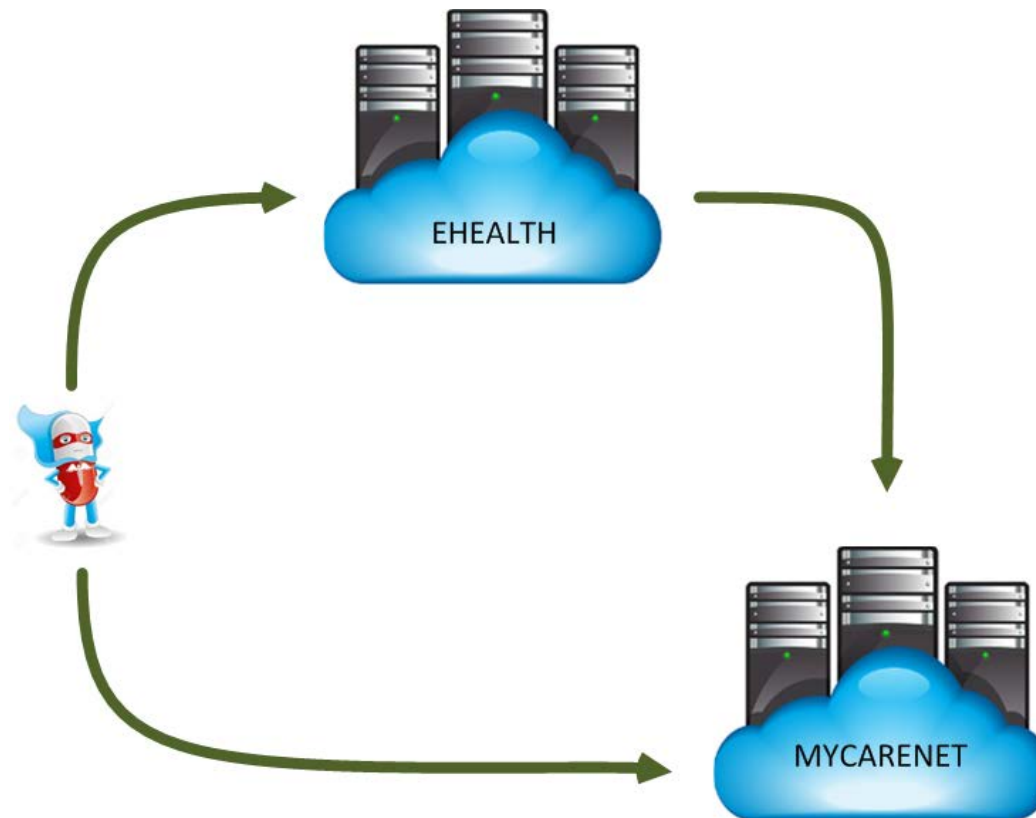
# RTO



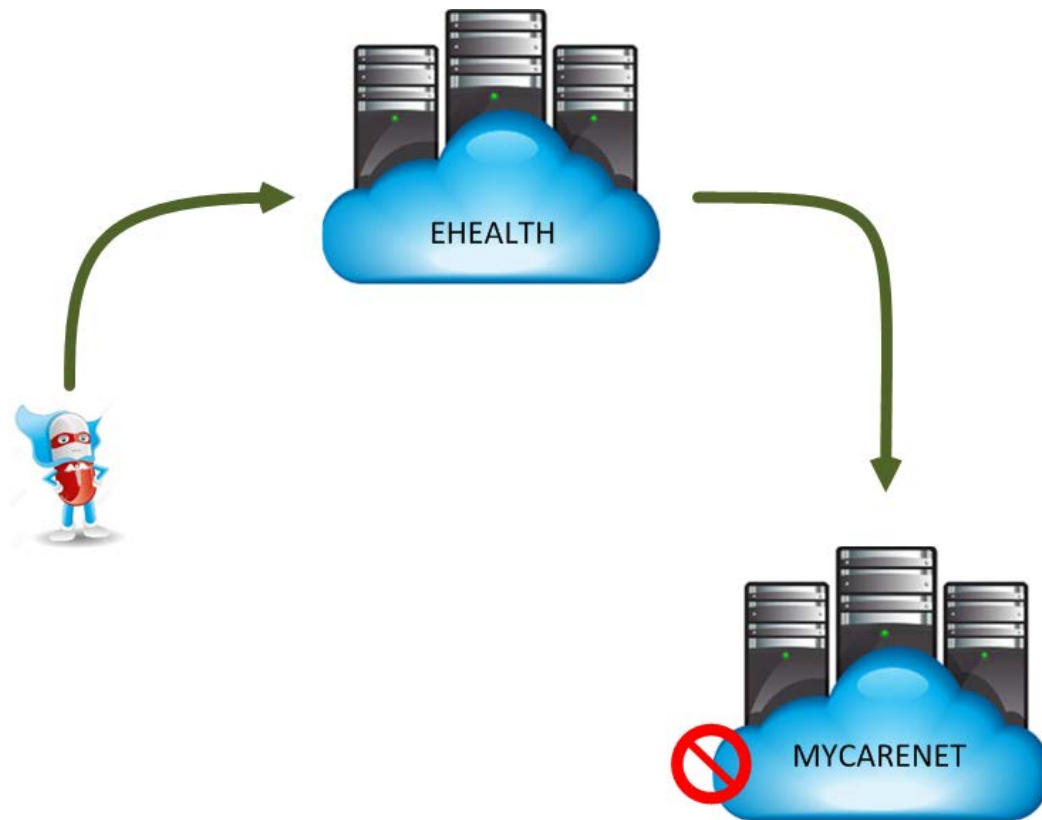
# BCP solution actif



# eHealth alive and kicking again



# Normal situation



# Mechanism

- Interpretation of the HTTP error codes

- **Normal situation**

- HTTP 200 OK
- HTTP 500 INTERNAL ERROR

BUSINESS RESPONSE  
SOAPFAULT

- **Abnormal situation**

- All other HTTP errors
  - TIME-OUT
- => Trigger for the BCP mechanism



# Mechanism

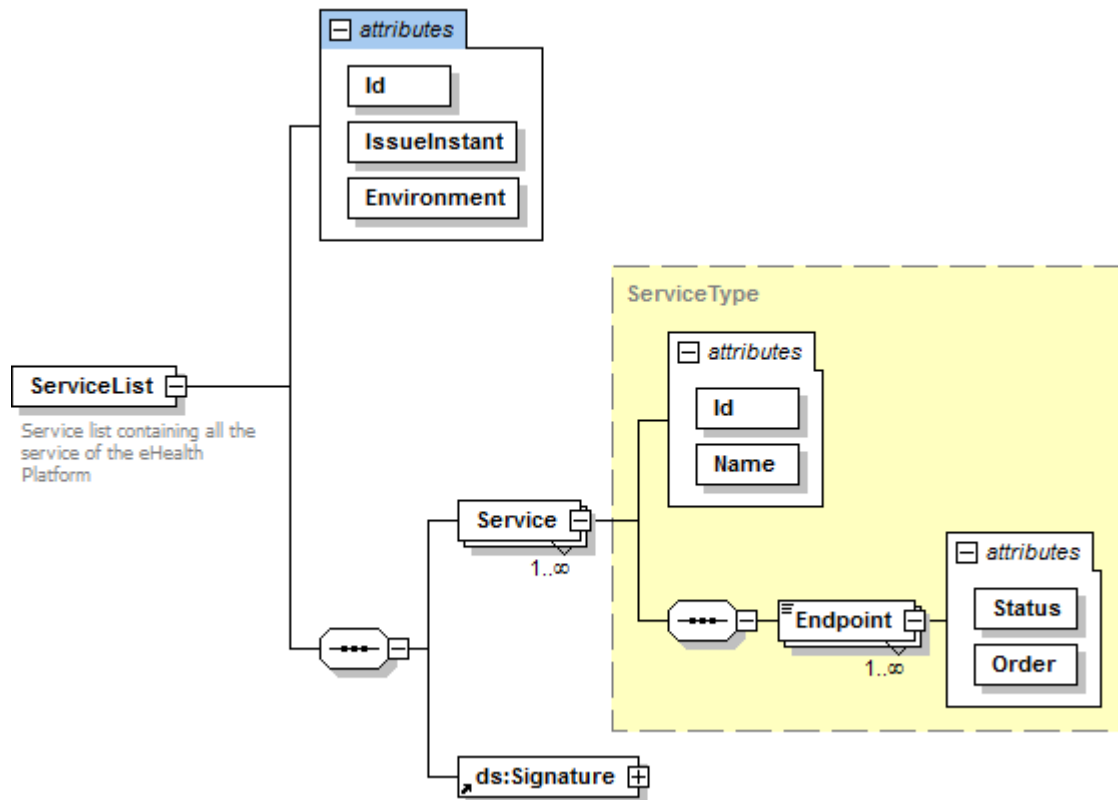
- software detect *abnormal* situation on 'current' endpoint
  - Try the other endpoint
  - If other endpoint responds with
    - 200/500
      - BUSINESS response displayed to the user
      - SOFTWARE continuous to use this endpoint
      - Start/Stop Polling mechanism
    - OTHER
      - Error message is displayed to the user
      - SOFTWARE continuous to use the normal endpoint

# ServiceList

- Overview of all available endpoints / service
- Each endpoint has his own status
- Updated when endpoint status changed
- 2 flavours (SHA2 / XML)
- History available



# ServiceList

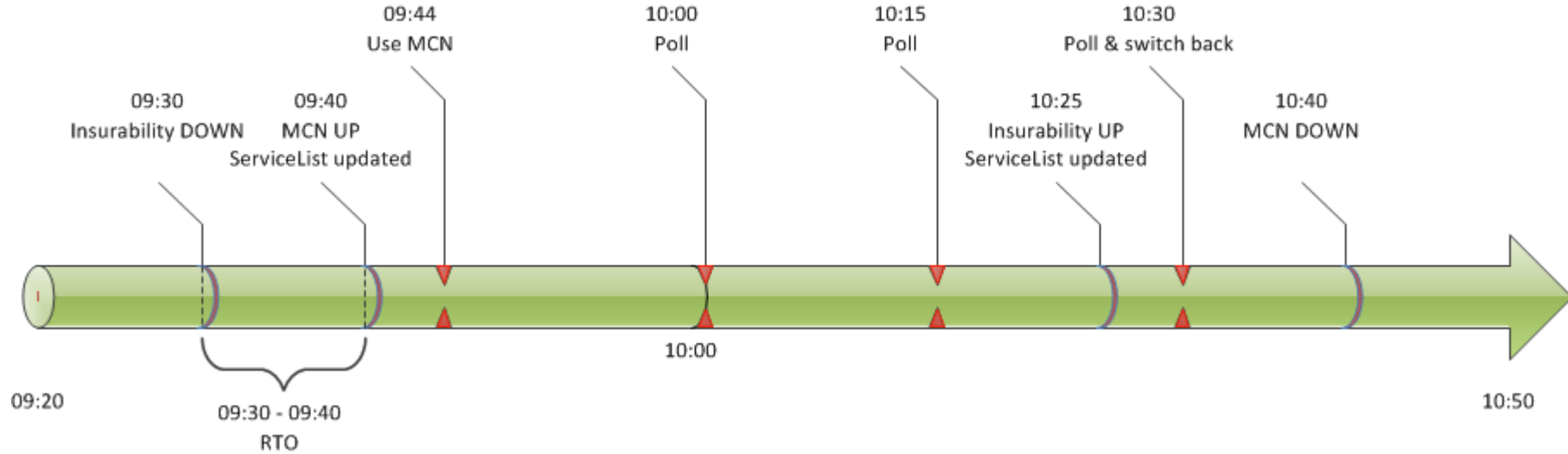


# ServiceList

- Example file

```
<ServiceList xmlns="urn:be:fgov:ehhealth:bcp:protocol:v1"
  Id="_3f50f144-9102-427e-98da-8fca6af9751"
  IssueInstant="2016-06-15T09:30:47Z"
  Environment="production">
  <Service Id="uddi:ehhealth-fgov-be:business:insurability:v2" Name="InsurabilityV2">
    <Endpoint Status="ACTIVE" Order="0">https://services.ehealth.fgov.be/Insurability/v2</Endpoint>
    <Endpoint Status="INACTIVE" Order="1">https://prod.mycarenet.be:9443/ehhealth/bcp/insurability</Endpoint>
  </Service>
  <ds:Signature xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
    ...
  </ds:Signature>
</ServiceList>
```

# Time Line



# In practice

# Documentation

- Cookbook
  - Published on the eHealth portal
    - Principles
    - Mechanism
    - ...
- Connector
  - Self containing solution
  - Added technical connector
    - 3.10.0

# Mini - Lab

- Will be organized in September 2016
- Real Scenario
  - interaction with end user
  - survive / recovery system failure

# BEDANKT! VRAGEN?

---



info@ehealth.fgov.be

<https://www.ehealth.fgov.be>