

# itsme Practice Statement Version 2.0

This document describes what practices are in place for the provisioning of the Trust Services from Belgian Mobile ID.

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## 1. SCOPE

This document describes the practices applied by Belgian Mobile ID NV / SA with registered offices at Sint Goedeleplein 5, 1000 Brussel and enterprise number BE0541.659.084 (BMID) for the provisioning of eIDentification Means and Trust Services.

## 2. STANDARDS CONFORMITY

This practice statement claims conformity with ETSI EN 319 401 Electronic Signatures and Infrastructures (ESI); General Policy Requirements for Trust Service Providers.

## 3. DEFINITIONS AND ABBREVIATIONS 7

### 3.1. Definitions

**eIDAS regulation:** Regulation (eu) no 910/2014 of the European parliament and of the council of 23 July 2014 on electronic identification and trust services for electronic transactions in the internal market and repealing Directive 1999/93/EC

**eIDentification Means:** electronic identification means as per the eIDAS regulation

**itsme Sign SSA:** the Server Signing Application offering from BMID

**itsme Qualified Sign Validation Service:** the qualified signature validation service offered by BMID

**relying party:** natural or legal person that relies upon the electronic identification or signature validation service

**subscriber:** Legal or natural person bound by agreement with BMID to any subscriber obligations. In the BMID ecosystem, subscribers consist as well from customers (Service Providers) that have signed a contract with BMID as end-users who only have accepted the terms and conditions of the services they are using.

### 3.2. Abbreviations

AdES	: Advanced Electronic Signature
AdES/QC	: Advanced Electronic Signature created with a Qualified Certificate
BMID	: Belgian Mobile ID NV /SA
CA	: Certificate Authority
DA	: Driving Application
DPO	: Data Protection Officer
FW	: Firewall
ISMS	: Information Security Management System
OCSP	: Online Certificate Status Protocol
OID	: Object Identifier
PKI	: Public Key Infrastructure
QES	: Qualified Electronic Singature
QTSP	: Qualified Trust Service Provider
RQSCD	: Remote Signature Creation Device
SCA	: Signature Creation Application
SSA	: Server Signing Application
SVA	: Signature Validation Application
TSA	: Timestamping Authority
TSP	: Trust Service Provider
WAF	: Web Application Firewall



## 4. OVERVIEW

BMID provides eIdentification Means and Signature Validation Services (this does include seal validation, anywhere further in the document where reference is made to signature validation, this should be understood as signature and/or seal validation). The current practice statement describes the practices and procedures that BMID implements in order to guarantee compliance with the requirements of the eIDAS regulation and the Belgian Government (regarding the eIdentification Means) and the eIDAS qualification framework (regarding the Signature Validation Service). These practices and procedures are used company wide and are also applied to services for which BMID is not recognized under the 2 above-mentioned schemes. They are also applicable to the operations of the Remote Qualified Signature Creation Device that is used in the framework of the itsme SSA and is also subject to eIDAS requirements.

At this moment BMID is not offering Signature Augmentation Services. During the validation of signatures no signature augmentation will be performed.

## 5. RISK ASSESMENT

BMID has implemented an ISO 27.001/2 certified ISMS. As part of this ISMS, BMID implemented a Risk Process, dealing with risk assessment, treatment, communication and monitoring. In this process the information security risk management is handled as a continual process.

## 6. POLICIES AND PRACTICES

### 6.1. Trust Service Practice statement

The current BMID Practice Statement is approved by the BMID TSP Management Board. The TSP Management Board is composed of members of the BMID management team and has been set up in order to manage the TSP and eIdentification compliance matters. The BMID Practice Statement is made publicly available via the document repository on the itsme website.

Any changes to the BMID Practice Statement shall lead to a publication of the revised BMID Practice Statement to the document repository. Old version of the BMID Practice Statement will still be available in the document store.

Changes that have no impact on the Subscribers or Relying Parties will not be notified up front. Changes that impact Subscribers or Relying Parties and that do not impact the secure and compliant operation of the services will be notified via the itsme website at least 2 weeks in advance of the implementation of the change. In case of changes that impact Subscribers or Relying Parties that are urgent because they are required to maintain the security or compliance of the solution, a best effort will be performed to notify via the itsme website or direct contact as soon as possible.

The present Practice Statement supports the provisioning of trust services that can reach the eIDAS qualified level. This is the case of the BMID signature validation service. To achieve this level of service, this practice statement claims conformity with ETSI EN 319 401 Electronic Signatures and Infrastructures (ESI); General Policy Requirements for Trust Service Providers.

### 6.2. Terms and Conditions

BMID makes its terms and conditions available in as well the itsme app as on the itsme website.



### **6.2.1. End-user obligations**

End-users are obliged to maintain security of their device on which their itsme app is installed and the confidentiality of their itsme PIN code and promptly communicate BMID of any circumstance raising suspicion or risk of their itsme account being compromised (including loss or theft of their itsme device). See the Terms and Conditions document on the itsme website for detailed obligations.

### **6.2.2. Obligations of all external organizations**

Obligations for external parties exist for external organizations such as suppliers as well as the different Members of the Mobile ID Scheme.

#### *6.2.2.1 Suppliers offering trust services*

Suppliers offering trust services, such as Certification Authority delivering signing or sealing certificates and Time Stamp Authorities delivering timestamps with regards to services in scope, have to comply with the eIDAS regulation.

#### *6.2.2.2 Mobile ID Scheme Obligations*

The Mobile ID Services are made available by Belgian Mobile ID, through the itsme App or Website, with the intervention of several third parties (the Belgian Mobile ID Members):

- Identity Registrars: entities that can verify the identity of subscribers
- SIM Controllers: mobile telecommunications operators providing access to the SIM
- Service Providers: providers of services or goods or any other third party with whom subscribers use the App to register with them, or log into their website/app, approve a transaction or sign a document.

Belgian Mobile ID acts as data ‘controller’ under the applicable Belgian privacy laws, and as such Belgian Mobile ID is responsible for the collection and use of the personal data of Data Subjects.

For all the Members of the Mobile ID Scheme, functioning as external parties to BMID, the Mobile ID Scheme is detailed in the ID Scheme Rulebook: The Rulebook has been drawn up by Belgian Mobile ID and set out the Rules and regulations governing the Mobile-ID Scheme, including the relationship between Belgian Mobile ID and its Members, and the relationship between the Members. These rules are contained in the Rulebook and in any Agreement as well as in any other manual or document issued by Belgian Mobile ID from time to time and that specifies that it contains Rules, such as any product-, process-, security-, technology-, regional- or other specific manual, as amended from time to time. Via the Rulebook BMID imposes to every member to take the correct responsibility in terms of a.o. security, compliance and privacy protection. Further to its Agreement, each Member has acknowledged and has agreed that its relationship with Belgian Mobile ID shall be governed by the Rulebook.

#### *6.2.2.3 Information Security Obligations for Suppliers*

For Suppliers, the supplier management policy specifies how obligations are applied to external suppliers. The agreement between BMID and suppliers clearly defines each party’s responsibilities toward the other by defining, a.o. the functions or services being provided (i.e. SLA – Service Level Agreement), the return of the assets, the liabilities, the escrow and the limitations on use of sub-contractors. All suppliers must agree in writing to comply with all applicable information security policies, confidentiality agreements, third party connectivity agreements, standards, controls, and regulations. Additionally, the contract enforces the supplier to implement controls, in relation to the type of assets the supplier is accessing and/or the service rendered.



The supplier shall monitor and report its compliance toward the agreement, even for ISO 27001 certified suppliers and report any incident having a potential impact on the services. The agreement includes the right for BMID to audit the supplier.

With regard to privacy, risks involving external party access to personal identifiable information shall be identified upfront and proper controls implemented prior granting access to those data. Specifically, the transfer of personal data outside of the European Economic Area (EEA) is strictly prohibited, except of prior BMID agreement.

### 6.3. Information security policy

BMID has implemented an ISO 27.001/2 ISMS, which has been approved by the BMID Executive Committee. The scope of this ISMS applies to the provision of its core services to subscribers, i.e. the enrolment, share ID, sign up, login, confirm and signature services.

The scope includes staff, assets, data centers and suppliers that support these services independently of the collaborator physical location. It covers the management of information and business activities that support these services.

Different checks are performed on the configuration of the TSPs systems for continued compliance with the BMIDs security policies. Some of these are automated and others are performed manually. The frequency of execution depends on the type of check but are minimally performed once a year.

## 7. TSP MANAGEMENT AND OPERATION

### 7.1. Internal organization

#### 7.1.1. Organization reliability

Internally within BMID the governance model is specified for attribution of responsibilities, as well as the specification of processes to guarantee availability, continuity, security and privacy across its services. More specifically, these are detailed by the:

- Organisation Chart
- RACI table, specifying the roles and responsibilities for business critical roles
- Operational Model, defined by ITIL v.3 processes with regard to customer support, incident response and escalation management, change and release, capacity and availability management
- ISMS for Information Security Management, certified to ISO 27001/2
- Mobile ID Scheme Management process and the underlying contractual framework (Rulebooks)

#### 7.1.2. Segregation of duties

The BMID definition of Roles and Responsibilities as defined by the Organisation Chart and corresponding RACI, which is part of the BMID ISO 27001/2 certified ISMS, specifies the requirements for segregation of duties across these roles.

The BMID Access Control Policy which is part of the BMID ISO 27001/2 certified ISMS ensures that segregation of duties is verified and maintained when granting new access.

#### 7.1.3. Dispute Resolution

BMID has created an open scheme that describes the rights and obligations of the different parties that take part in the ecosystem around the services offered by BMID. Any party that complies with the requirements and obligations as defined in this scheme can participate to the scheme and become a scheme member.



Any disagreement, dispute or claim arising of or in connection with the Rulebook or any Agreement that has not been settled between the usual contacts of BMID and a scheme member shall be referred to a joint committee comprised of representatives of BMID and the scheme member concerned (the Resolution Committee).

The Resolution Committee will be set up by the scheme member and BMID within five (5) Business Days as from the notification by one of the Parties, to the other, of the disagreement, dispute or claim.

The Resolution Committee shall attempt to resolve the matter through good faith negotiations within ten (10) Business Days as from the setting up of the Resolution Committee.

If the unresolved disagreement, dispute or claim is having a material effect on the rights or obligations of the scheme member or of BMID under the Agreement(s) or the Rulebook or on the security of the integrity of the Mobile ID scheme, the Parties will use their respective reasonable efforts to reduce the elapsed time in reaching a resolution of the dispute.

Any party that is not a scheme member can contact BMID via the itsme website or phone to record an incident. This will then be treated via the BMID incident management procedures. Specifically, for privacy related topics, a separate e-mail address can be used.

The BMID ISMS defines the governance of subcontracting and outsourcing.

## 7.2. Human resources

The HR and Supplier policies part of the BMID ISO 27.001/2 certified ISMS ensure that employees and contractors support the trustworthiness of the BMID operations.

## 7.3. Asset management

### 7.3.1. General requirements

BMID maintains updated inventories of its assets, including information assets. Security and asset classification is assigned in consistency with the risk assessment. This is ensured via the BMID ISO 27.001/2 certified ISMS asset management policy.

### 7.3.2. Media handling

Media containing sensitive data is securely handled and disposed when no longer required. This includes a thorough erasure process or a secure disposal for physical media containing sensitive data. This is ensured via the BMID ISO 27.001/2 certified ISMS asset management policy.

## 7.4. Access control

The BMID Access Control Policy which is part of the BMID ISO 27.001/2 certified ISMS ensures that system access shall be limited to authorized individuals.

## 7.5. Cryptographic controls

The Cryptographic Controls Policy that is part of the BMID ISO 27.001/2 certified ISMS ensures the proper management of cryptographic keys and cryptographic devices throughout their lifecycle.

This is the case for all cryptographic keys that are being used in relation to the services (a.o. end-user symmetric keys, end-user asymmetric keys, keys to protect data during transmission) and includes key generation, key distribution, key storage, key backup and key destruction.

The TSP Management Board monitors that the algorithms and key sizes that are prescribed by the Cryptographic Controls Policy is deemed secure as per the latest version of ETSI TS 119 312 “Electronic Signatures and Infrastructures (ESI); Cryptographic Suites”.





## 7.6. Physical and environmental security

### 7.6.1. Secure areas

This section is mainly covered from within the use of the ISO 27001/2 certified DataCenters. The relevant Datacenter Supplier ISMS SOA has been validated by BMID to cover the relevant safeguards and security controls.

### 7.6.2. Equipment

Partially covered from within the use of the fore mentioned ISO 27001/2 certified DataCenters. Specific requirements and attention points that remain for BMID are covered in the BMID Acceptable Use Policy which is part of the BMID ISO 27.001/2 certified ISMS.

## 7.7. Operation security

### 7.7.1. Operational procedures and responsibilities

The operational procedures and responsibilities are defined by the BMID Operating Model which defines the ITIL Version 3 based elaboration of the following: support (first line, Tier 2, Tier 3), request fulfilment, incident management, problem management, change management, release and deployment management, and service asset and configuration management.

Instantiated for specific provisions, the Security and Architecture guidelines provide the policy principles for: separation of the different environments, overall protection from malware and information backup procedures.

### 7.7.2. Logging and monitoring

This includes event logging, protection of log information, administrator and operator logs, clock synchronization, as well as control of operational software, via the installation of software on operational systems.

The datacenter provides 24/7 monitoring on the infrastructure, network and security components as part of their service offering. BMID provides a monitoring for systems (infrastructure as well as application level). BMID collects all technical logging (FW, WAF, Syslog), which provides log collection, log normalization, log correlation and querying capabilities. Based on specific queries and correlations, alerts are triggered to investigate for possible suspicious connections. BMID collects, and protects, all functional logs centrally as the main source for fraud investigations. Together, this allows BMID to configure triggers for activity and alerts. On a daily basis, reports on such logs and alerts resulting from them are reviewed and will trigger additional actions where required. Such actions can include reporting incidents for (attempts for) unauthorized access, data breaches or any other Information Security incident.

Operational Logs are kept online at least for 1 year (excluding further archiving, extending this retention period). Transaction logs and signature validation reports have a retention period of 10 years based on legal obligations for archiving and for providing proof in case of disputes. The signature validation report contains all data that was used during the validation (signature itself, revocation data, timestamps, certificates, etc.) but not the signer's document.

### 7.7.3. Technical vulnerability management

BMID provides a dedicated vulnerability management process, covering:

- the checks for (new) vulnerabilities



- identifying them on our infrastructure and systems, verifying for the actual exploitability, mitigating them either by configuration changes, patching or other work-arounds if required.

The datacenter also foresees vulnerability management for the hosting hardware and firmware on regular basis.

#### **7.7.4. Information systems audit considerations**

Information systems audit controls and pentesting are applied. A running audit plan summarizes the planned audit work packages and refers to results of past audits. This audit plan is an integral part of the ISMS documentation.

### **7.8. Network security**

The BMID network design includes network controls, security of network services and segregation of networks.

BMID enforces the following security principles on the network architecture:

- Dual-layer Firewall design with separated Network segments / zones internally
- Front-End termination infrastructure
- Protection against (D)DOS
- Secured connections with our partners
- All flows, internal/external are encrypted on transport level to protect from eavesdropping or session hi-jacking

### **7.9. Incident management**

The management of security incidents and improvements is integrated within the overall operations model and the standard incident management procedures there. Incidents are logged into the Service Desk tooling and assigned based on their classification. Security and privacy incidents are also/automatically forwarded to the CISO or DPO respectively, to keep him/her informed, and take immediate appropriate action.

On a monthly basis, incidents and events are reviewed on the Operational Management Committee, in order to further determine appropriate actions for further mitigation if required.

### **7.10. Collection of evidences**

BMID maintains records concerning the operation of the services in scope for the purposes of providing evidence of the correct operation of these services. These records will only be disclosed to law enforcement authorities under court order and to persons with right to access to them upon legitimate request.

These records are protected and backed up to avoid information loss or compromise. Log backups are retained for a minimum period of 10 years.

### **7.11. Business continuity management**

BMID has an ITIL process in place that ensures business continuity management. The services are designed with business continuity in mind. The whole operational environment has a passive redundancy in a backup datacenter.

In case of a P1 level incident a crisis committee is set up to coordinate the activities and communication towards impacted parties. The procedures, frequency and means of communication are described in the P1 crisis management procedure (BMID internal document).



### 7.11.1. Information security continuity

As part of the overall Business Continuity Management, the following aspects will be integrated from within the ISMS: planning information security continuity, implementing information security continuity and verify, review and evaluate information security continuity.

An important aspect here is the continuous monitoring of events on the BMID infrastructure and applications, from which suspicious behavior can be identified. This is ensured by the centralized logging, as well as the continuous monitoring of all infrastructure by the datacenter as well as BMID on a 24/7 basis to guarantee their correct functioning.

Based on alerts generated here, either interventions to recover / restart services are initiated, or events are escalated to other (security) experts to further analyze possible impact and risk.

### 7.11.2. Redundancies

Availability of information processing facilities will be guaranteed through application of required redundancy on critical “single-points-of-failure”.

Throughout the setup of the infrastructure and applications of BMID, the continuity is guaranteed using:

- Redundant Data Processing facilities on 2 locations that are sufficiently remote from each other to avoid impact on both sites at the same time.
- Transactions are committed across these locations to remain in synch on both locations
- Redundancy in infrastructure elements per location to avoid Single Point of Failure (SPOF) on any of the infrastructure elements that are critical for the BMID services
- Secure backups of data that are available to restore services within an acceptable timeframe

## 7.12. TSP termination and termination plans

BMID has created a termination plan that deals with termination notification, subcontractors management, information maintenance, private key destruction, termination phasing and updating of the termination plan procedure. BMID has taken measures to ensure that funds will be available for the execution of the termination plan, also in case of bankruptcy.

## 7.13. Compliance

The TSP Management Board monitors evolution of legislation to make sure that the services are created and maintained in line with any applicable legal requirements. BMID employs personnel with the required legal skills and has that fulfill the required roles (e.g. DPO) in order to guard the correct implementation of legal requirements.

BMID is ISO 27.001/2 certified.

BMID has successfully undergone each of the external audits as required by the Royal Decree of October 22, 2017 on the means for electronic identification for government applications and has been recognized by the Belgian Government. In this framework, BMID is undergoing regular surveillance audits.

BMID has obtained the Qualified status for its Sign Validation Service and is in this regard under supervision of the Belgian national supervisory body.



### 7.13.1. Compliance with legal and contractual requirements

As part of the continuous audit plan, as well as part of the Risk management process, the different aspects for compliance have been assessed, are continuously monitored for compliance and updated if changes in the business context occur.

More specifically, gap analysis of the compliance framework highlighted the following important aspects to address: eIDAS, Data Privacy, Competition Law, Financial services, Telecom Regulations, Others\_(IPR, Crypto-regulations, labor law, ...).

Further detailing compliance requirements, BMID has elaborated the BMID Scheme Management based on its (set of) Rulebooks. These specify the back-to-back rights and obligations of the Scheme Members towards each other, which in turn allows BMID to fulfill the compliance requirements for the frameworks as specified above.

### 7.13.2. Information security reviews

On top of the Information Security Audit-plan, and based on the continuous risk monitoring performed, BMID regularly verifies the effectivity of its ISMS. When and where relevant, results from such security reviews are shared with, or presented to, stakeholders and senior management to allow the evaluation of effectiveness of the overall security management process, and implementation of the information security safeguards.

## 8. SIGNATURE VALIDATION SPECIFIC PRACTICES

### 8.1. Signature Validation Service Policies

There is only one Signature Validation Service Policy that is currently supported by the itsme Sign Validation Service: itsme Generic Signature Validation Service Policy with OID 1.3.6.1.4.1.49274.1.1.4.

This validation services policy only performs a technical validation of the signature (signature validation policy), without any verification, of signature applicability rules (e.g. business or legal requirements). The signature applicability rules are to be determined by the subscriber (e.g. according to the reported cause(s) of an indetermination or specific information on the signature mentioned in the report).

### 8.2. Service level

The itsme sign validation service is of Qualified level.

### 8.3. Signature validation process

The itsme Sign Validation Service allows a subscriber to deliver signed data and signature to be validated via an API (no human interface is foreseen at this moment). The validation service will perform the validation according to the validation algorithm defined in ETSI 319 102. The validation on AdES, AdES/QC and QES requirements is performed according to ETSI 119 172-4 (this is an unpublished ETSI draft standard at the time of publication of this practice statement). Via the same API, an XML formatted validation report will be returned that will be sealed with an itsme Sign Validation Service certificate. This certificate is a Qualified Seal Certificate, of which the private key is protected by a Secure Seal Creation Device.

Three types of reports will be offered with increasing level of details. It is up to the subscriber to indicate via the API the level of detail that is intended.

The subscriber should:

- integrate with the itsme Sign Validation Service via the offered API and respect the requirements of this API.



- verify the seal on the validation report.

Relying parties should:

- validate the seal on the validation report.

It is not possible for the subscriber to give a conflicting indication on the signature validation policy. At this time, it will not be allowed that the subscriber specifies other validation policies than the ones that are predefined by the itsme Sign Validation Service (currently there is only one, but probably other Signature Validation Service Policies will be added in the future that will be differentiated based on OID reference in the API). The API prescribes an identification of the validation policy via OID. If an unknown OID is specified, an error will be returned and no validation will be performed.

The itsme Sign Validation Service intends to validate QES and will report proactively on requirements being met (use of qualified signing certificate and QSCD). Only AdES signature formats are supported.

## 8.4. Service validation report

The validation report contains three parts: summary validation results, detailed validation results and diagnostic data.

Each report will be sealed with a Qualified Seal Certificate on HSM. The subject name of the certificate will be itsme Qualified Sign Validation Service.

# 9. REMOTE SIGNATURE CREATION PRACTICES

## 9.1. Server Signing Application Service Policies

There is only one Server Signing Application Service Policy that is currently supported by the itsme Sign SSA: itsme Generic Signature Creation Service Policy with OID 1.3.6.1.4.1.49274.1.1.6.

## 9.2. Service level

The itsme Sign SSA cannot be of Qualified level, since the eIDAS regulation did not include the possibility for signature SSA to become qualified trust services. However, during the audit of BMID for qualified trust service provider the RQSCD that is part of the itsme Sign SSA was included in the audit scope. The other components of the itsme Sign SSA are subject to the same policies, procedures and controls as the ones that are applicable to the components that are part of the itsme Qualified Signature Validation Service and the recognized eIdentification Means.

## 9.3. RQSCD

During a setup process that will be performed before the signer signs for the first time, the key pair for the signer will be generated in the RQSCD (Remote Qualified Signature Creation Device) that is managed by BMID, and the private key will be cryptographically linked to the itsme app of the signer. The RQSCD will then request a qualified certificate from the QuoVadis qualified CA for the signer.

The RQSCD used by BMID is the Intesi PkBox, Version 3.1.0 which has been certified as Secure Signature Creation Device (and through eIDAS legislation automatically recognized as RQSCD) by Zentrum für sichere Informationstechnologie - Austria (A-SIT) under Reference number A-SIT-VI-16-038. The RQSCD has been implemented with the Gemalto Ezio identification as OTP provider. This is the same set-up that is used for the eIdentification Means service (see below).



## 9.4. Signature creation process

The itsme Sign SSA allows a Service Provider to send a PDF document to be signed via an API to the itsme Sign SSA (no human interface is foreseen at this moment), and to redirect the signer to the SCA (Signature Creation Application), which is part of the itsme Sign SSA and controlled by BMID. The signer will then be presented with the document to be signed in the SCA so that he can validate that the document that will be signed is indeed the document that he wishes to sign. If he indicates that this is the case, he will be able to use his itsme app to unlock his private signing key by entering his itsme code. By entering the itsme code, the itsme device will generate a cryptographic token that will be transferred to the RQSCD that the RQSCD can validate to use the private key of the user for the signing operation. The itsme Sign SSA will create and format the signature according to the signature creation algorithm defined in ETSI 319 102. This signature will be returned to the Service Provider via the API.

The Service Provider should:

- integrate with the itsme Sign SSA via the offered API and respect the requirements of this API.
- allow the signer to obtain the signed document (e.g. via download or receipt via e-mail)

The signer should:

- ensure himself that the document shown to him by the SCA is indeed the document he wishes to sign
- never divulge his itsme code to any other party

## 9.5. External components

The itsme Sign SSA uses the following external components during the creation of the signatures:

### 9.5.1. TSA

Timestamps of two different TSA's will be added to the signatures so that if one of both is compromised, the timestamp generated by the other one will still be able to proof the integrity of the signature.

The first TSA is the Quo Vadis TSA. This a Qualified TSA.

The second TSA is TSA of the Belgian government. This is not a Qualified TSA.

### 9.5.2. CA

Certificates for the end-users will be created upon first signature based on the identity data that already exists on the user in the BMID systems. BMID acts as registration authority to QuoVadis who is the issuer of the certificates.

### 9.5.3. OCSP

The OCSP responder of QuoVadis will be used to add revocation data to the signatures.

## 10. EIDENTIFICATION

### 10.1. Service level

Itsme has been recognized by the Belgian government as Authentication Means of Assurance Level High.



## 10.2.Login process

The itsme login service is based on the Gemalto Ezio technologies. The Gemalto SDK is present on the mobile device of the end-user as part of the itsme app. The Gemalto Ezio server is installed in the BMID Datacenter. During the setup of the itsme app, the OTP environment will be set-up, so that the Gemalto Ezio Server can verify whether an OTP was generated by the app of the user concerned or not.

A Service Provider that wishes to authenticate an end-user, uses the BMID API to send an identifier of the claimed identity to BMID. BMID creates a login action for the itsme app of the user concerned. The user can answer to that action and enter his itsme code in the itsme app in order to authenticate himself. When he does, the Gemalto SDK in his app will create an OTP that will be send to the BMID back-end. The BMID Back-End then requests the Gemalto Ezio server to verify the OTP for that user. If the result is positive, the authentication was successful, and this result is returned to the Service Provider via the BMID API.