Notice

1) References to Kantara SAC are made within this document for the purposes of showing a conformity mapping. They are placed right-justified after any clauses (single or multiple) to which the conformity cross-reference applies, in the following fashion:

   KI: «criterion reference»; «criterion reference»; etc.

2) References to IS27001 [10] are made within this document for the purposes of showing an intended conformity mapping. They are placed right-justified after any clauses (single or multiple) to which the conformity cross-reference applies, always at the lowest indexed level to which they apply, in the following fashion:

   IS27001: «clause reference»; «clause reference»; etc.

Key Words

The key words "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", and "MAY", when used in capitals within this Policy, are to be interpreted as described in RFC 2119, the applicable parts of which are re-stated hereafter.

a) SHALL This word means that the statement is an absolute requirement of this Policy;

b) SHALL NOT This phrase means that the statement is an absolute prohibition of this Policy.
3.2.8 Registration Records ......................................................................................................................... 16
3.3 Authentication Protocols.......................................................................................................................... 16
3.3.1 End User Authentication ....................................................................................................................... 16
3.3.2 Content ................................................................................................................................................... 16
3.3.3 Protection .............................................................................................................................................. 17
3.3.4 Assertion Lifetime ............................................................................................................................... 17
3.3.5 Single Use ........................................................................................................................................... 17
3.3.6 Reliability ........................................................................................................................................... 17
3.3.7 Re-Authentication ............................................................................................................................... 17
4 Credential Lifecycle .................................................................................................................................... 18
4.1 Credential Validity Period ........................................................................................................................ 18
4.2 Authentication Process ............................................................................................................................ 18
4.3 Credential Status Availability .................................................................................................................. 18
4.4 Lifecycle Events ....................................................................................................................................... 19
4.4.1 Credential Activation/Re-Activation ................................................................................................... 19
4.4.2 Failed Authentication .......................................................................................................................... 19
4.4.3 Suspension after inactivity .................................................................................................................. 19
4.4.4 Modify Account Information .............................................................................................................. 19
4.4.5 Password Reset .................................................................................................................................. 20
4.4.6 Revocation ........................................................................................................................................... 20
4.4.6.1 Circumstances for Revocation ........................................................................................................ 20
4.4.6.1.1 Revocation Request from End Users ............................................................................................. 20
4.4.6.1.2 Revocation Request from Non-Users ........................................................................................... 20
4.4.6.1.3 Revocation Request from Authorized Bodies .............................................................................. 21
4.4.6.1.4 Revocation by ID.me .................................................................................................................. 21
4.4.6.2 Revocation Response Time ............................................................................................................ 21
4.4.6.3 Revocation Notification ................................................................................................................... 21
5 Facility and Operational Controls ........................................................................................................... 22
5.1 Physical Controls .................................................................................................................................... 22
5.1.1 Physical Access Controls .................................................................................................................. 22
5.1.2 Secure Disposal .................................................................................................................................. 22
5.2 Procedural and Personnel Controls ....................................................................................................... 23
5.2.1 Security Roles and Responsibilities .................................................................................................... 23
5.2.1.1 Trusted Roles Requirement ........................................................................................................... 23
5.2.1.2 Personnel Resource Requirements ................................................................................................ 23
5.2.2 Personnel Qualifications ................................................................................................................... 24
5.3 Event Logging ..................................................................................................................................... 24
5.3.1 Types of Events Recorded .................................................................................................................. 24
5.3.1.1 End User Sign-up ............................................................................................................................ 24
5.3.1.2 Credential Revocation .................................................................................................................... 25
5.3.1.3 Credential Status Changes ............................................................................................................. 25
5.3.1.4 Trusted Referee Assignments ........................................................................................................ 25
5.3.2 Security Incidents ............................................................................................................................... 26
5.4 Risk Assessments .................................................................................................................................. 26
5.5 Records Protection and Retention ......................................................................................................... 26
5.5.1 Record Protection ............................................................................................................................... 26
5.5.2 Record Retention Period ................................................................................................................... 27
5.6 Business Continuity ............................................................................................................................... 27
5.7 Availability of Services ........................................................................................................................... 27
5.8 Termination of Services ........................................................................................................................ 27
6 Technical Security Controls .................................................................................................................... 28
6.1 Network Security .................................................................................................................................... 28
6.2 Key Management ................................................................................................................................... 28
6.3 Information Security Management and Lifecycle Controls ................................................................. 28
7 Profiles .................................................................................................................................................... 29
7.1 SAML ................................................................................................................................................... 29
8 Compliance Audit ..................................................................................................................................... 30
8.1 Internal Service Audit ............................................................................................................................ 30
8.2 Independent Audit ................................................................................................................................ 30
9 Legal ....................................................................................................................................................... 31
10 References .............................................................................................................................................. 32
11 Revision History ..................................................................................................................................... 33
12 Approval .................................................................................................................................................. 34
1 INTRODUCTION

1.1 Overview

This document sets forth the Credential Policy (CrP) for ID.me’s Identity Gateway id-proofing and credential management services. It follows the general structure of RFC 3647 [1].

ID.me’s Identity Gateway provides businesses’ and government agencies’ communities and to our nation’s veterans, first responders, and members of other designated groups (eligible parties) with a simple and secure way to verify their identities remotely, for online transactions, while minimizing the risk of identity theft. ID.me’s Identity Gateway protects a user’s identity while simultaneously providing assurance to businesses and government agencies that the user’s identity and group status are reliably verified by an authoritative source. These assurances allow for participants to confidently complete electronic transactions in a secure environment. Use of the Identity Gateway provides eligible parties access to certain benefits, discounts, and information from various organizations who wish to limit access based on requirements related to the underlying value and eligibility associated with the benefit, discount, or information.

Assurance Levels (ALs – know synonymously as Levels of Assurance - LoA) relate to the degree of confidence in a claimed identity and associated characteristic attributes and the associated technology, and processes governing the operational environment. Assurance Levels are defined in a number of key documents, principally OMB M-04-04 [2], ISO 29115/ITU-T X.1254 [3], NIST SP 800-63r2 [4], NIST SP 800-63r3 [5], FICAM TFS [6] and the Kantara Initiative’s SAC [7]. Use of ALs is determined by the service’s Relying Parties, according to the level of confidence or trust (i.e., assurance) they deem necessary to mitigate risk in their transactions.

This service policy covers End User credentials issued at ALs 1, 2 and 3 and at IAL2 (see §1.2). It details how ID.me provides to eligible parties, through both a supervised in-person process and via an unsupervised online process, a credential that can be trusted by Relying Parties consistent with the Assurance Level of the credential. How an enterprise becomes a Relying Party is not covered by this CrP.
1.2 Policy Identification

a) This document and the derived policies SHALL be formally identified by their applicable full title and Policy OID. The OID path for this policy document is described in the following table and derives from assignments given in the ‘ID.me.C.00.005 PEN Register’. Assertions relating to credentials issued according to practices described in this CrP SHALL be identified by at least one of the following Policy OIDs:

<table>
<thead>
<tr>
<th>Element</th>
<th>Path / OID</th>
<th>Policy Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>iDme_iDPM_CrP</td>
<td>::= { iDme_iDPMServices.1 } (1.3.6.1.4.1.43927.10.1.1)</td>
<td>ID.me Identity Proofing &amp; Management Credential Policy (this document)</td>
</tr>
<tr>
<td>iDme_iDPM_CrP_AL1</td>
<td>::= { iDme_iDPM_CrP.1 } (1.3.6.1.4.1.43927.10.1.1.1)</td>
<td>ID.me Identity Proofing and Management Services Credential Policy – OMB M-04-4 Assurance Level 1</td>
</tr>
<tr>
<td>iDme_iDPM_CrP_AL2</td>
<td>::= { iDme_iDPM_CrP.2 } (1.3.6.1.4.1.43927.10.1.1.2)</td>
<td>ID.me Identity Proofing and Management Services Credential Policy – OMB M-04-4 Assurance Level 2</td>
</tr>
<tr>
<td>iDme_iDPM_CrP_AL3</td>
<td>::= { iDme_iDPM_CrP.3 } (1.3.6.1.4.1.43927.10.1.1.3)</td>
<td>ID.me Identity Proofing and Management Services Credential Policy – OMB M-04-4 Assurance Level 3</td>
</tr>
<tr>
<td>iDme_iDPM_CrP_xAL2</td>
<td>::= { iDme_iDPM_CrP.4 } (1.3.6.1.4.1.43927.10.1.1.4)</td>
<td>ID.me Identity Proofing and Management Services Credential Policy – SP800-63 rev.3 Identity &amp; Authentication Assurance Level 2</td>
</tr>
</tbody>
</table>

Schematically:

```
iDmePEN -> iDme_iDPMServices <-> iDme_iDPM_CrP
```

```
iDme_iDPM_CrP_AL1
iDme_iDPM_CrP_AL2
iDme_iDPM_CrP_AL3
iDme_iDPM_CrP_xAL2
```

KI: ALn_ID_POL#010

Unless explicitly qualified, either by reference to OID/title or by scope, all statements in this overall Credential Policy relate to all ‘iDme_iDPM_CrP’ policies.

1.3 IdP Roles

This section provides a brief description of each IdP role. The specific obligations of each role are more fully discussed later in this document.
1.3.1 Subject

An individual person to whom a credential has been issued (subject to successful identity proofing and verification).

Syn. End User.

1.3.2 Relying Party

A Partner enterprise or other entity which uses ID.me’s Identity Gateway services to gain assurance as to a Subject’s identity and their eligibility for such services as the Relying Party may offer. Generally abbreviated to ‘RP’.

1.3.3 Trusted Referee Rules

A set of documented rules in accordance with applicable laws, regulations, and policy, which establishes how a Subject in possession of an IAL2 credential can be determined to have the necessary qualifications to be able to vouch-for or act on behalf of an Applicant for an IAL2 credential, how that Subject should perform when vouching-for or acting on behalf of the Applicant and how the Subject has their ongoing conformity with those rules validated.

1.3.4 Referee Organization

An entity which has, through a contract with ID.me, agreed to implement specific Referee Rules through which it will notify to ID.me Subjects which meet those rules, such that those of whom ID.me is notified are be able to vouch-for or act on behalf of an Applicant for an IAL2 credential. [derived from NIST SP 800-63-3 of revision 3]

1.3.5 Trusted Referee

A Subject in possession of an IAL2 credential who has been notified to ID.me by a Referee Organization as having fulfilled specific Referee Rules so as to be able to vouch-for or act on behalf of an Applicant for an IAL2 credential. [modified from NIST SP 800-63-3 of revision 3]

1.3.6 Authoritative Source

A repository which is recognized as being an accurate and up-to-date source of information which may be used to validate information provided by the applicant Subject. [ISO/IEC 29115:2011]

1.4 Credential Usage

An ID.me identity credential is issued to an End User in order for them to be authenticated by an eligible Relying Party with whom they wish to perform some transaction or exchange. Typically, Relying Parties will direct End Users to ID.me to perform their initial Sign-up and will specify the Assurance Level (AL) at which it requires credential issuance and authentication services for its specific website(s) or service(s).
Relying Parties only use authentication assertions only at the specified AL or lower and should not rely on an assertion for any service, exchange or transaction offered or transacted at a higher AL than that specified in the ID.me assertion, nor should they rely upon the assertion beyond its stated life-time.

Relying Parties SHALL determine by contract or other ‘non-dynamic’ agreement with ID.me the policy/ies under which they expect credentials to be issued and/or to be authenticated.

1.5 Policy Administration

1.5.1 Organization Administering the Document

This document SHALL be administered by ID.me Inc., whose offices are located at:

8281 Greensboro Drive, Suite 600
Tyson’s Corner, VA 22102, USA.
Tel: +1 866 775 4363
ISGF_Chair@ID.me.

1.5.2 CrP Approvals

ID.me’s ISGF SHALL review and agree changes to this document, final authority being the ISGF Chairperson.

KI: ALn_CO_ISM#010, #020; ALn_CM_CPP#030

1.5.3 CrP Revision

ID.me SHALL post notice of revision to this CrP such that interested parties receive due notification of changes.

KI: ALn_CO_NUI#010; ALn_CO_NUI#020
2 PUBLICATION AND REPOSITORY RESPONSIBILITIES

a) ID.me SHALL publish details of its credential policy as well as other terms of service, pursuant to the policy statements herein and such additional material as may be required to fully advise all interested parties as to the services characteristics and the terms of its provision with regard to legislative, Terms of Service and policy obligations. These publications SHALL be maintained such that they always reflect the service as being operated at any given time;

KI: ALn_CO_NUI#010; ALn_CO_NUI#020 a – e, j; ALn_ID_POL#030

b) ID.me SHALL maintain an internal repository of only that information relating to individual credentials, their statuses and the Subject’s characteristic attributes and eligibilities which is necessary to deliver the service and comply with legislative, Terms of Service, contractual and policy obligations;

KI: ALn_CM_CSM#010, ’030, ’040; ALn_ID_VRC#025

c) ID.me SHALL require the End Users to acknowledge and authorize publication of their personal information to each RP with whom they interact.

KI: ALn_CM_CRD#020
3 IDP CREDENTIAL ENROLMENT AND ISSUANCE

3.1 Subject Naming

a) ID.me's Identity Gateway SHALL support both Supervised (In-person) identity proofing exclusively under policy ‘IDme_IDPM_CrP_xAL2’ and Unsupervised on-line Identity Proofing and Management services for individual persons under all policies;

b) Under all policies, End Users SHALL be bound to their credentials by means of an email address, possession and control of which they SHALL demonstrate before being granted full access to services;

c) At AL1, under policy ‘IDme_IDPM_CrP_AL1’, single factor authentication SHALL be provided. The email address provided need not bear any relation to the End User’s actual identity and no real identity SHALL be required or be verified;

d) At ALs 2 & 3, under policies ‘IDme_IDPM_CrP_AL2/3’, it SHALL be ensured that End Users provide a legal name that passes identity verification checks, such checks to be appropriate to the applicable AL. AL2 SHALL provide single-factor authentication: AL3 SHALL provide two-factor authentication;

e) At IAL/AAL 2, under policy ‘IDme_IDPM_CrP_xAL2’, it SHALL be ensured that End Users provide a legal name that passes identity verification checks and that two-factor authentication is established;

f) All bound email addresses SHALL be unique within the Identity Gateway service.

3.2 Initial Registration

3.2.1 Account Sign-up

a) Under policy ‘IDme_IDPM_CrP_AL1’ only, End Users SHALL be permitted to sign-up for a credential directly at www.ID.me. Therefore only Unsupervised proofing is supported by this policy.

b) To be issued with a credential at either AL2 or AL3, End Users SHALL be directed to ID.me’s identity authentication services by a Relying Party. The RP SHALL, at the time, specify the required policy, which SHALL be one of ‘IDme_IDPM_CrP_AL2’, ‘IDme_IDPM_CrP_AL3’, or ‘IDme_IDPM_CrP_xAL2’.

c) Additionally, under policy ‘IDme_IDPM_CrP_xAL2’, the RP SHALL determine whether to direct the applicant End User to a location where Supervised (In-person) proofing can take place or whether to direct them to the Identity Gateway portal for Unsupervised proofing. Unsupervised proofing will be the principal means by which an End User signs-up;
d) During any sign-up process, the applicable Terms of Service, Privacy Policy and this Credential Policy SHALL be made accessible before the End User is required to provide any sign-up information.

KI: ALn_ID_IDV#000; ALn_CO_NUI#010

### 3.2.2 Account Creation

a) Account creation SHALL be initiated by having the End Users provide an email address, and select a password. The email address SHALL be unique within the service as a whole (i.e. may not be used multiple times for different ALs);

KI: ALn_CM_CTR#020; ALn_ID_POL#020; ALn_CM_CRN#020

b) End Users SHALL be required to accept the applicable Terms of Service and Privacy Policy before the sign-up process is concluded. Record of the End User’s acceptance and the date of acceptance SHALL be retained;

KI: ALn_CO_NUI#040 a), 'NUI#050

c) A confirmatory email SHALL be sent to the End User requiring them to confirm their email address before any identity proofing is performed.

KI: ALn_CO_NUI#040 a), 'NUI#050

### 3.2.3 Password Strength

End Users SHALL be required to create a password (a.k.a ‘memorized secret’) which meets the following requirements:

a) Has a minimum of 8 characters but may be up to 255 characters;

b) Consist of a minimum of: one upper-case alpha, one lower-case alpha, one numeral;

KI: ALn_CM_CTR#020; ALn_ID_POL#020; ALn_CM_CRN#020; ALn_CO_NUI#040 a), 'NUI#050; 63B#250

Password construction rules so as to achieve the strength required for any given policy SHALL be documented and made available to applicant End-Users.

Additionally:

a) under all policies except ‘IDme_iDPM_CrP_xAL2’, passwords SHALL exhibit at least 24 bits of entropy;

b) under policy ‘IDme_iDPM_CrP_xAL2’, passwords (memorized secrets) SHALL be at least 8, and up to 64, characters in length.

KI: ALn_CO_NUI#040 a), 'NUI#050; 63B#250
3.2.4 Identity Proofing & Verification

3.2.4.1 Unsupervised Proofing

a) Under policy ‘iDme_iDPM_CrP_AL’ no identity proofing SHALL be performed;

b) Under all policies except ‘iDme_iDPM_CrP_AL1’ identity proofing SHALL require the End User’s provision of three forms of evidence which provide or support the following information:

   i) Legal given and family names;
   ii) Full postal address (including street number, street name, city, state and postal zip code);
   iii) Date (year, month and day) of Birth (DOB);
   iv) Social Security Number (SSN);
   v) Phone number.

c) Under policies ‘iDme_iDPM_CrP_AL3’ and ‘iDme_iDPM_CrP_IAL2’ identity proofing the forms of evidence offered SHALL additionally require the End User’s provision of a financial account number;

d) Under policy ‘iDme_iDPM_CrP_IAL2’ when Supervised (In-person) proofing is performed the forms of evidence shall be two Primary OR one Primary and two Secondary;

e) Under any Unsupervised proofing the forms of required evidence shall be one Primary and two Secondary;

f) Sets of appropriate Primary and Secondary evidence shall be documented and published in the public domain. Primary forms of evidence must include a photo likeness of the subject;

g) Identity proofing SHALL be performed by validating the End User-provided information against Authoritative Sources (which may be an issuing source or one capable of applying checks to verify the authenticity of submitted information);

h) The extent of the validation SHALL be commensurate with the applicable technical standards on which implementation of the policy is based, accounting for the means of validation which are practically available to ensure adequate coverage of the expected user community;

i) Additional ‘knowledge-based’ checks SHALL be applied where other means do not provide a sufficient degree of confidence in the claimed identity and they are permitted by the applicable technical standards;

j) A notification of pass or fail SHALL be provided to the RP or End User, depending on how account creation was initiated.

k) Under policy ‘iDme_iDPM_CrP_IAL2’, when Unsupervised validation fails the Applicant SHALL be directed to a Trusted Referee (see 3.2.4.2) to attempt a successful outcome.
3.2.4.2 Supervised (In-person) Proofing

The following shall apply under policy ‘IDme_iDPM_CrP_IAL2’:

a) Trusted Referee Rules under which Trusted Referees operate SHALL be documented and agreed with Referee Organizations;

b) Trusted Referee Rules SHALL define, as a minimum:

i) a requirement that nominees for the role of Trusted Referee have been successfully identity-proofed under policy ‘IDme_iDPM_CrP_IAL2’;

ii) specific professional roles or other attributes nominees may hold to qualify;

iii) specific training and/or other qualifications / certification nominees must hold;

iv) processes by which suspension and/or revocation (voluntary or involuntary) of Trustee status will be accomplished;

v) the minimum process and evidence required to establish a binding of the Applicant to their claimed identity;

vi) periodical re-qualification of the nominee, at a period not greater than 24 calendar months from last appointment/re-qualification;

vii) any restrictions or exceptions, and how they will be handled.

c) A notification of pass or fail SHALL be provided to the RP or End User, depending on how account creation was initiated;

d) The Trusted Referee SHALL authenticate the proofing event irrespective of its outcome and record SHALL be retained of the Trusted Referee’s identity and the location at which the proofing took place.

3.2.4.3 All Proofing Classes

a) On completion, all information not required for ongoing compliance/conformity fulfillment and/or management of the credential SHALL be securely purged;

b) Retained End User-provided information and any additional information received from authoritative sources SHALL be used in accordance with ID.me’s Privacy Policy and SHALL only be used in the identity proofing process to establish ownership of the identity commensurate with the rigour required of the applicable policy;

c) Identity proofing SHALL not be based on the applicant End User’s entitlement to participate in any particular group or community or gain access to any services or benefits.

3.2.4.4 Identity Evidence Validation Sources

ID.me SHALL use the following sources for the purposes of validating identity proofing evidence:
### 3.2.5 Credential Activation

a) Under policies ‘iDme_iDPM_CrP_AL1’ and ‘iDme_iDPM_CrP_AL2’, a credential SHALL become active when identity proofing and verification have been successfully completed;

KI: ALn_ID_RPV#020

b) Under all policies except ‘iDme_iDPM_CrP_AL1’, in addition to successfully completing identity proofing and verification, a possession-based second-factor authenticator SHALL be established before activating the credential.

KI: ALn_ID_RPV#020 63B#0999

### 3.2.6 Credential ‘Step-up’

End Users SHALL be able to ‘step-up’ the assurance level of their credential at any time by successfully completing the necessary additional steps to achieve their desired assurance level.

KI: ALn_ID_RPV#020

### 3.2.7 Credential Re-issuance and Renewal

End Users SHALL be able to reset their passwords online after being authenticated using their existing password. In the case of a forgotten password they SHALL be able to effect a reset by receiving a link to a reset page. In each case, if the credential was issued at AL3, the End User SHALL additionally be required to submit an OTP sent to their mobile device.

If the reset fails then Users SHALL be directed to Member Support for assisted authentication, before the reset is enabled.

KI: ALn_CO_NUI#020
3.2.8 Registration Records

Irrespective of the outcome of the identity proofing, records of the identity proofing and verification process, of renewals and re-issuances, references of source documents, identity of Authoritative Sources, verification outcomes, and a time-stamp, SHALL be kept in accordance with §6.3.

KI: ALn_CO_NUI#070, ALn_CO_SER#010, ALn_ID_VRC#010, ALn_ID_VRC#030, ALn_CM_RNR#050, ALn_CM_RVP#050

3.3 Authentication Protocols

3.3.1 End User Authentication

a) Only credentials which are active SHALL be authenticated;

KI: ALn_CM_ASS#020

b) Under policies ‘iDme_iDPM_CrP_AL1’ and ‘iDme_iDPM_CrP_AL2’, each instance of an End User presenting their credential will require their authentication based upon the verification of their password;

KI: ALn_CM_ASS#030

c) Under policies ‘iDme_iDPM_CrP_AL3’ and ‘iDme_iDPM_CrP_IAL2’, each instance of an End User presenting their credential SHALL require their authentication based upon the verification of their password and their possession-based second-factor authenticator;

KI: ALn_CM_ASS#030

d) At all ALs a maximum of 100 failed authentication attempts SHALL be permitted within a 30-day period.

KI: ALn_CM_ASS#035

3.3.2 Content

a) Assertions SHALL have default inclusions and SHALL be able to convey further data on request of the RP, subject to the End User’s authorization and compliance with applicable legislation;

b) Default inclusions under policy ‘iDme_iDPM_CrP_AL1’ SHALL be:

i) The unique identifier for the intended RP;
ii) AL at which the credential was issued;
iii) Unique user identity;
iv) Lifetime.

KI: ALn_CM_VAS#030

c) Default inclusions under policies ‘iDme_iDPM_CrP_AL2/3’ and ‘iDme_iDPM_CrP_xAL2’ SHALL be:

i) The unique identifier for the intended RP;
ii) AL at which the credential was issued;
iii) Unique user identity;
iv) Verified End User names;
v) Lifetime.

3.3.3 Protection

a) Cryptographic protections SHALL be employed to ensure that Assertions SHALL be strongly-bound to individual RPs, signed and encrypted, and transmitted through secured, mutually-authenticated communications. Additionally, RPs SHALL be associated with pre-defined end-points;

b) Cryptographic techniques employed SHALL be selected from those listed as approved under the Cryptographic Module Validation Program.

3.3.4 Assertion Lifetime

SAML assertions SHALL have a lifetime of 5 minutes and be valid only for the Relying Party’s domain.

3.3.5 Single Use

Each assertion SHALL apply only to a specific transaction and SHALL only be re-sent in connection with that transaction.

3.3.6 Reliability

Should there be any system failure during authentication, no assertion SHALL be generated.

3.3.7 Re-Authentication

Re-authentication of a credential SHALL be permitted within 12 hours of an initial authentication so long as the session in which the original authentication took place remains active and the End User has been active within the last 30 minutes.
4 CREDENTIAL LIFECYCLE

The status of a credential SHALL be maintained current in real-time, being recorded in one of the following states:

No publication of status SHALL be required since all credential management and authentication functions are handled by the ID.me service.

4.1 Credential Validity Period

ID.me credentials SHALL have a validity period of 5 years, after which End Users must re-affirm their acceptance of the prevailing Terms of Service, Privacy and other Policies and any other required agreements. Credentials not re-affirmed within the 5 year period SHALL be suspended. Any re-affirmation of acceptance of terms and policies, including accepting revisions to existing Terms of Service, Privacy and other Policies, SHALL lead to the credential validity being re-set (and re-activated, if it has been suspended).

4.2 Authentication Process

a) End Users SHALL be authenticated on behalf of Relying Party websites/applications, either by signing-on at the ID.me website or through a Relying Party’s site;

b) under policies ‘idme_idpm_crp_AL1/2’, single-factor authentication SHALL be applied, requiring the End User to submit a username and a password which SHALL be against those associated with the account in the system database. On a successful match the authentication SHALL be complete;

c) under policies ‘idme_idpm_crp_AL3’ and ‘idme_idpm_crp_xAL2’, two-factor authentication SHALL be applied, requiring the End User to first submit a username and a password which SHALL be against those associated with the account in the system database. On a successful match authentication using a possession-based second-factor authenticator SHALL be complete.

4.3 Credential Status Availability

A change in Credential status SHALL be available for immediate reference within the ID.me service. Credential status information SHALL NOT be published other than in authentication assertions.
4.4 Lifecycle Events

The following subsections describe events that occur over the lifecycle of the Credential and the effect (if any) on the state/status of the Credential and if/how such status affects the operation of the Credential.

4.4.1 Credential Activation/Re-Activation

The IdP Credential SHALL be placed in an “Activated” state in accordance with section 3.2, initial registration. Activation is the process of binding the End User to the Account information (i.e., email address, postal address, phone number). Re-registration SHALL be required should the IdP Credential be placed in an inactive or revoked state over the course of its lifetime.

4.4.2 Failed Authentication

Should authentication fail, up to nine further attempts are be permitted before locking the credential. Unlocking the credential can happen either by a positive action by customer support personnel after a phone / email / multi-factor validation of the End User, unlocking the credential by proving ownership of the credential or expiry of a 72 hour time-out period, whichever the sooner.

4.4.3 Suspension after inactivity

If a credential remains unused for a period of eighteen months or longer it SHALL be suspended and SHALL secondary validation before being re-activated.

4.4.4 Modify Account Information

a) The End User SHALL be able to modify their Account information to reflect changes in their personal circumstances or to correct errors. Prior to being able to effect changes the End User SHALL be required to sign-in to their account, accounting for the applicable AL. Users SHALL only be able to change the following information, according to the applicable AL, and SHALL require new and full identity proofing for fields so-marked:

<table>
<thead>
<tr>
<th>Field / value</th>
<th>At all ALs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Email address</td>
<td>Validate new email per §3.1 &amp; §3.2.2</td>
</tr>
<tr>
<td>Password</td>
<td>Validate new password per §3.2.2</td>
</tr>
<tr>
<td>Phone number</td>
<td>Validate new phone number per §3.2.2</td>
</tr>
</tbody>
</table>
b) Once used an email address SHALL not be accepted for any new sign-ups or account modification.

4.4.5 Password Reset

In the event that their password is forgotten or compromised End Users SHALL be able to reset their password as addressed in §3.2.7.

4.4.6 Revocation

Revocation SHALL be supported under all policies. Following an initial revocation request a credential may be suspended while the revocation request is authenticated, but once determined authentic the status SHALL become ‘revoked’ and thereafter the credential SHALL not be used. Should a revocation request not be authenticated or be withdrawn before being fully applied the credential SHALL be re-activated.

4.4.6.1 Circumstances for Revocation

Revocation SHALL be permitted only under the following circumstances.

4.4.6.1.1 Revocation Request from End Users

a) No End User revocation SHALL be provided at AL1;

b) Under policies ‘iDme_iDPM_CrP_AL1/2’ the End User may request a revocation, which SHALL be confirmed by sending an email requiring confirmation of the request to the email address of record;

c) Under policies ‘iDme_iDPM_CrP_AL3’ and ‘iDme_iDPM_CrP_xAL2’ End User revocation SHALL follow the same process as in a) above, and in addition a second-factor confirmation SHALL be required.

4.4.6.1.2 Revocation Request from Non-Users

At all ALs there SHALL be a means by which a recipient of a confirmatory message can respond by stating that they have not requested that the account be created, in which case the associated credential SHALL be revoked.
4.4.6.3 Revocation Request from Authorized Bodies

At all ALs there SHALL be a means by which an authorized body, e.g. law enforcement, a RP (for cause) or other body having a recognized authority, can request revocation. Each such requestor SHALL be authenticated before any final action is taken. According to the authority and manner of request ID.me may suspend the credential pending further authentication and justification for the revocation, and SHALL either revoke or re-activate, according to its findings.

4.4.6.4 Revocation by ID.me

ID.me SHALL revoke any credential, to accommodate instances of false representation, failure to comply with Terms of Service, or for any other reason, at its sole discretion and at any AL.

4.4.6.2 Revocation Response Time

Once a request has been authenticated revocation SHALL be effected immediately, and that status used in any subsequent authentication requests.

4.4.6.3 Revocation Notification

Once an End User’s credential has been revoked all interested parties should be notified with 24 hours.
5  FACILITY AND OPERATIONAL CONTROLS

5.1  Physical Controls

5.1.1  Physical Access Controls

a) Production facilities SHALL be housed in secure data centers which provide for geographical alternate sites and are protected by multi-layer physical security, minimizing the opportunities for unauthorized access, disclosure, loss or corruption of sensitive and system information, and of IT resources on which the service is dependent. The site location and construction, when combined with other physical security protection mechanisms such as guards and intrusion sensors, SHALL provide robust protection against unauthorized access to the service’s equipment and records and protection from adverse environmental conditions;

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b) Where third-party hosting is used, the ability of the entity to provide facilities which meet the above policy requirements SHALL be determined either by physical inspection by responsible ID.me personnel and/or through review of independent analyses and audits of the facilities in question. The findings from such determinations shall be documented and retained in accordance with the ID.me Retention Schedule;

KI:

c) Development facilities (which SHALL not hold real client data) SHALL also be protected by multi-layer physical security, minimizing the opportunities for unauthorized access, disclosure, loss or corruption of sensitive and system information, and of IT resources on which development is dependent. Back-up / disaster-recovery sites SHALL have the same level of protection. A reduced level of security SHALL be permissible to the extent that no real client data is stored but must still be sufficient to ensure that the sensitivity of proprietary information and the ability to support the production system is not compromised;

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d) Information and media transported between sites, and sensitive information and IT resources in the custody of staff, SHALL be protected from unauthorized access, disclosure, loss or corruption, having special regard for their use and potential storage in public areas (e.g. hotels, restaurants, car parks, ...);

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e) Back-up / disaster-recovery sites SHALL have the same level of protection as the primary site.

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5.1.2  Secure Disposal

When it no longer serves a purpose or should not remain on any storage mechanism being serviced or re-purposed, sensitive information SHALL be disposed-of using methods which meet or exceed the requirements of DOD 5220.22_M [7] or NIST SP 800-88 [8], ensuring that techniques applied match the
storage media technology in use. Where third-party services are used, those entities SHALL guarantee and take responsibility for observing or exceeding those same requirements.

5.2 Procedural and Personnel Controls

5.2.1 Security Roles and Responsibilities

5.2.1.1 Trusted Roles Requirement

a) The roles and responsibilities for personnel for each service-related and security-relevant task SHALL be documented. Such roles define positions which underpin the assurances given through the secure development, operations and delivery of ID.me’s service and SHALL include as a minimum:

i) Executive and management functions;
ii) Engineering and development functions;
iii) System information security functions;
iv) Service administrative functions;
v) Member Support functions;
vi) Audit (both internal and external) functions.

b) Personnel fulfilling such roles, both employees and contractors, SHALL be subject to appropriate HR procedures to ensure their character, qualifications and experience meet the documented requirements, including any specific clearances required by the role. Assignment of personnel to trusted roles SHALL be authorized by the ISGF Chairperson or his/her delegate.

5.2.1.2 Personnel Resource Requirements

a) The number of personnel required to effectively operate the service across development, operations and support functions SHALL be determined and suitable resources recruited and applied;

b) For highly-sensitive roles dual-personnel assignments and segregation of duties SHALL be designed and applied. No single person SHALL have more than one means of identifying themselves to the system.
5.2.2 Personnel Qualifications

a) HR policies SHALL provide for and apply adequate checking of personnel, concerning backgrounds, criminal records, qualifications and experience. Adequate training SHALL be provided to ensure that staff are competent to apply the tools used to develop, operate and support the service, including progressive training to ensure that state-of-the-art technologies and best practices are adopted and applied at all times;
b) Such requirements SHALL apply to third-party personnel as well as ID.me’s direct employees.

5.3 Event Logging

a) A log of all relevant security events SHALL be maintained, employing both automated and manual logging;

b) Event logs SHALL be retained and protected against unauthorized access, loss or corruption and be available to support audit functions and any investigative processes, both internal and those conducted under lawful oversight. Event logs SHALL be retained for a minimum of five years, and otherwise as required by applicable legislation, contract or policy;

c) Records SHALL be time-stamped at the time of their generation.

5.3.1 Types of Events Recorded

Logs SHALL capture at least the following events and associated information:

a) any applicable event serial / sequence number (intended to provide a unique reference for the event, either as an instance, or to track an asset, e.g.);
b) the date and time of the event;
c) the nature of the event;
d) the device, application, network or operating system, or person, identifying the event; and
e) other pertinent information as further set out below.

5.3.1.1 End User Sign-up

The following information about End User sign-up SHALL be recorded, both at initial sign-up (whether successful or not) and for any subsequent changes, whether initiated by the service or the End User:

a) the unique user id;
b) references of any specific identifying information sources submitted, according to AL;

c) references to how the identity information was verified;

d) responses received to identity verification;

e) associated device(s) (only under policies ‘iDme_iDPM_CrP_AL3’ and ‘iDme_iDPM_CrP_xAL2’);

f) acceptance of applicable terms and policies;

g) mode of proofing employed;

h) if proofing is under policy ‘iDme_iDPM_CrP_xAL2’ and is Supervised (In-person), the user id of the supervising Trusted Referee.

5.3.1.2 Credential Revocation

The following revocation information SHALL be recorded, whether fully prosecuted or not:

a) the identity of the requesting source;

b) the authority of the requesting source and measures taken to authenticate the source;

c) the End User unique identity associated with the credential for which revocation is sought;

d) the reason for revocation;

e) the revocation decision (i.e. upheld – credential revoked; denied – credential reactivated).

5.3.1.3 Credential Status Changes

Any credential status changes between Sign-up and Revocation SHALL be recorded.

5.3.1.4 Trusted Referee Assignments

The following information about Trusted Referee (TR) Assignments SHALL be recorded, in addition to their supervisory actions cited in §5.3.1.1 above:

a) the unique user id of the TR;

b) the identity of the nominating Referee Organization;

c) each change of status, from initial ‘Suspended’, to ‘Active’, any intermediate ‘Suspended’ / ‘Active’ cycles, to final ‘Revoked’ status, with a reason in each case.
5.3.2 Security Incidents

a) Controls SHALL be applied to provide prevention and detection of security incidents which could imperil the secure operation of the service, and alerts SHALL be provided based on defined thresholds of activity being exceeded, according to the nature of the event\(^1\). Any significant events SHALL be logged and reviewed for signs of suspicious or unusual activity. Automated logs SHALL be continuously monitored to provide real time alerts;

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b) Records SHALL be kept of reviews of event logs and SHALL ensure that the integrity of logs remains preserved;

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c) Actions taken based on alerts and audit log reviews, and their outcomes, SHALL be documented and reviewed for completeness and effectiveness.

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5.4 Risk Assessments

Risk Assessments SHALL be conducted at least every six months to ensure that any new threats are identified and that existing controls are providing a level of risk mitigation which is accepted by management, in accordance with the ISM Policy and ID.me’s Statement of Applicability. Such risk assessments SHALL include a review of actual controls against those found in IS27001 Annex A and SHALL be based on the service being classified as ‘High Assurance’ at AL3, in accordance with NIST FIPS 199 [10].

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5.5 Records Protection and Retention

5.5.1 Record Protection

a) Logical and physical access controls as required elsewhere in this CrP SHALL protect against unauthorized or unlawful access, use, disclosure, alteration, or destruction of any credential data repositories or credential management processes, whether records are stored on-site or by third parties;

KI: ALn_CO_ESM#050

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\(^1\) Detection of an attempt by a human intruder to break in would probably have a ‘frequency threshold’ of zero, i.e. it would be worthy of immediate attention, whereas that for system penetration attempts from the same IP address (given their constancy) may have a threshold of hundreds or thousands.
d) Where necessary, measures **SHALL** be taken to ensure the long-term accessibility of storage media over the required period.

### 5.5.2 Record Retention Period

Unless otherwise specified in this CrP, the default retention period for records **SHALL** be five years from their creation or last use, whichever the later, or a longer period if so dictated by other (overriding) policy, contract or legislation.

### 5.6 Business Continuity

a) The service **SHALL** be included within ID.me’s overall Business Continuity Planning such that in the event of a significant disruption to operations, critical business activities can be resumed (if necessary) and continued;

b) The production system **SHALL** plan for and be deployed such that there is an alternate site capable of picking-up the operational load until the disrupting event can be resolved. This **SHALL** include redundant capacities and mirrored or backed-up copies of critical information, such as End User and RP account data, logs, test data and procedures, system build and configuration records ...

### 5.7 Availability of Services

The service **SHALL** employ redundancies and back-up measures which ensure its 99.9% availability, excluding scheduled maintenance time and events totally outside of ID.me’s control.

### 5.8 Termination of Services

If it becomes necessary to terminate the service ID.me **SHALL** take reasonable measures to give notice to End Users, RPs, out-sourced providers and other interested parties. It **SHALL** then, after expiration of the notice period, effect the revocation of all End User credentials, any PKI certificates which it uses to secure its operations and services, and to ensure the long-term preservation of all records, for their required retention period. This plan **SHALL** be outlined in the Terms of Service.
6  TECHNICAL SECURITY CONTROLS

6.1  Network Security

a) Communications between all service components outside of a common DMZ SHALL be encrypted and mutually-authenticated using protocols which meet or exceed recognized best practices for the threat scenario used by the risk assessment process;

b) End User Sign-up SHALL be protected by end-end encryption such that all data transfers are secured;

c) 24/7 automated monitoring and test script execution SHALL be maintained with automated notification to operational personnel. In addition, daily system management reports SHALL be produced, reviewed and protectively stored. These reports SHALL, as a minimum, address security events, transactions processed, system usage/capacity, availability.

6.2  Key Management

a) Knowledge of private key activation codes SHALL be limited to a minimum group of personnel, on a need-to-know basis. There SHALL be provision for non-availability of code-holders so as to ensure that critical functions can be actioned when required without imperiling the service;

b) On re-assignment or termination of any of those trusted roles there SHALL be a procedure to effect a code- or key-change;

c) In the event that a key is compromised in any way it SHALL be replaced and the compromised key revoked.

6.3  Information Security Management and Lifecycle Controls

This CrP is governed by the ID.me ISM Policy and as such SHALL fall within its provisions for information security management practices. The principles of that policy and of IS27001 [11] SHALL apply to all requirements of and practices derived from this CrP.
7 PROFILES

7.1 SAML

Under all policies except ‘idme_iDPM_CrP_AL1’, authentication assertions SHALL comply with the requirements of the FICAM TFS profile published at http://www.idmanagement.gov/documents/SAML20_Web_SSO_Profile.pdf.
8 COMPLIANCE AUDIT

8.1 Internal Service Audit

An internal audit of the service’s provision SHALL be conducted at least annually and SHALL, as a minimum, ensure that the provisions of this Policy and its CrPS are being met in the service’s provision.

8.2 Independent Audit

a) In accordance with ISM Policy §25.1, ID.me SHALL attain and maintain Kantara Approvals, which SHALL be performed by a Kantara-Accredited Assessor, in accordance with the prevailing Kantara requirements for Approval renewal at the applicable ALs;

SACv4.0: AL3_CO_ISM#080

b) Kantara Approvals SHALL be sought at the ‘Classical’ and ‘NIST SP 800-63 rev.3’ Classes, per https://kantarainitiative.org/trustoperations/classes-of-approval/;

SACv4.0: AL3_CO_ISM#080

c) Records of audits and supporting evidence SHALL be archived for a minimum of four years from the date of audit (Kantara Approval period plus 12 months). Such records SHALL be protected against unauthorized access, loss, alteration, public disclosure, or unapproved destruction in accordance with section 6.4.
9 **LEGAL**

Stipulations relating to fees, insurances, warranties, disclaimers, limitations of liability, indemnities, terms of supply, termination, confidentiality, privacy, notices, amendments, dispute resolution, governing law and other representation and legal matters SHALL be presented in the service’s Terms of Service, Privacy Policy and other documents, all of which SHALL be brought explicitly to the End User’s attention (see also §3.2.2).

KI:
## REFERENCES

<table>
<thead>
<tr>
<th>Ref.#</th>
<th>Document / Source</th>
</tr>
</thead>
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2 Note that the foreword of the ITU-T version explains that that version has four differences from the ISO version.
## 11 Revision History

<table>
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<tr>
<th>Version</th>
<th>Date</th>
<th>Description</th>
<th>Comments</th>
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<tr>
<td>1.0</td>
<td>2014-07-24</td>
<td>Formally released (stand-alone – see CrPS as separate document)</td>
<td>Released under DoA</td>
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<tr>
<td>2.0</td>
<td>2014-08-11</td>
<td>Document reference added</td>
<td>Released under DoA</td>
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<tr>
<td>3.0</td>
<td>2014-11-05</td>
<td>Approved release</td>
<td>RGW</td>
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<tr>
<td>4.0</td>
<td>2015-02-11</td>
<td>Adoption of revisions resolved through PoT preparation</td>
<td>Approved by RGW with delegated authority of MST.</td>
</tr>
<tr>
<td>5.0</td>
<td>2015-09-02</td>
<td>Correction to proofing policy, to state practice already correctly applied</td>
<td>Approved by COO, on ISGF’s recommendation.</td>
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<td>(§3.2.3 b) v), §3.2.4 b)</td>
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<tr>
<td>6.0</td>
<td>2016-08-22</td>
<td>Revision to Id Proofing Policy parts</td>
<td>Approved by COO, on ISGF’s recommendation.</td>
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<tr>
<td>7.0</td>
<td>2018-04-05</td>
<td>Revisions to address SP 800-63 rev.3 conformity, use of Trusted Referees</td>
<td>RGW, with CTO’s delegated authority</td>
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<td>for Supervised (In-person) proofing &amp; Kantara ‘63 rev.3’ Assessment.</td>
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12 Approval

Michael A. Brown
CTO / ISGF Chairman
2018-11-13
https://idmeinc.atlassian.net/browse/IS-97086

SACv4.0: ALn_CO_ISM#020
IS27001: A.5.1.1