



Identity Assurance

Framework:

Rules governing Assurance Assessments

Version: 2.0
Date: 2015-09-04
Status: ARB policy
Approval: KIA20150831

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Abstract

The Kantara Initiative Identity Assurance Work Group (IAWG) was formed to foster adoption of identity trust services. The primary deliverable of the IAWG is the Identity Assurance Framework (IAF), which is comprised of many different documents that detail the levels of assurance and the certification program that bring the Framework to the marketplace. The IAF set of documents includes an Overview publication, the *IAF Glossary*, a summary *Assurance Levels* document, and an *Assurance Assessment Scheme (AAS)*, which encompasses the associated assessment and certification program, as well as several subordinate documents, among them these *Service Assessment Criteria (SAC)*, which establishes baseline criteria for general organizational conformity, identity proofing services, credential strength, and credential management services against which all CSPs will be evaluated.

The latest versions of each of these documents can be found on Kantara's [Identity Assurance Framework - General Information web page](#).

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65 I) INTRODUCTION

66 i.1 Status and Readership

67 This document sets out **normative** Kantara requirements and is required reading for all Kantara
68 Accredited Assessors and applicant Service Providers. It will also be of interest to those wishing
69 to gain a detailed knowledge of the workings of the Kantara Initiative's Identity Assurance
70 Framework.

71 i.2 Purpose

72 The ultimate goal of the Kantara Initiative's Identity Assurance Framework (IAF) is the
73 facilitation of intra- and inter-Federation transactions based upon a range of identity credentials,
74 across a number of levels of assurance, in which Relying Parties can have the confidence that the
75 credentials bearing the Kantara Initiative Trust Mark are worthy of their trust.

76 To accomplish this Kantara Initiative operates an *Assurance Assessment Scheme (AAS)*, an
77 assessment and approval program which assesses the operating standards of certain players in the
78 Identity and Credential Assurance Management space against strict criteria, and grants to
79 Applicants to the scheme the right to use the Kantara Initiative Mark, a symbol of trustworthy
80 identity and credential management services at specified Assurance Levels (i.e. a Grant of Rights
81 of Use – hereafter 'Grant').

82 In implementing the AAS certain Rules are required to be set out, to support fulfillment of the
83 Assessment Scheme and to direct how certain actions and processes within it are bounded and
84 executed. This present document serves that purpose and can be considered to sit between the
85 AAS and the *Service Assessment Criteria*, to which Approved Services must conform and against
86 which their conformity must be assessed by Kantara-Accredited Assessors.

87 The latest versions of each of the IAF documents referenced in this document can be
88 found on Kantara's [Identity Assurance Framework - General Information web page](#).

89 i.3 Changes in this revision

90 The principal reasons for changes in this revision are to:

- 91 a) revise the requirement concerning the performance of Period of Time
92 assessments and when the 'operational period' is considered to commence;
- 93 b) more accurately title the 'Day Zero' assessment concept as 'Ready-to-Operate'
94 assessments;
- 95 c) more clearly define what are the expectations upon Assessors when performing
96 'Ready-to-Operate' assessments, as opposed to 'Period-of-Time' assessments;
- 97 d) provide for the exclusion of criteria where the obligations they convey are
98 transferred to the service's customers.

99 In addition, the opportunity has been taken to:

- 100 e) clarify that, whether Full or Component Service, the service must conform to
101 ALL criteria in the CO-SAC (this is also stated in the SAC but is re-stated here

- 102 so as to reinforce that requirement);
- 103 f) neutralize the use of ‘CSP’ by replacing with plain language, given the chronic
104 application of TLAs to describe electronic identity-related services in confusing
105 and conflicting ways.
- 106 All revisions between v1.0 and v2.0 are shown with a grey background.

107 **II) GLOSSARY**

108 All special terms used in this document are defined in the [IAF Glossary](#).

109 III) APPLICATION OF SERVICE ASSESSMENT CRITERIA

110 iii.1 Principles

111 Kantara's *Service Assessment Criteria* (SAC) are in two classifications, Common Organizational
112 Criteria (CO-SAC) and Operational Criteria (OP-SAC), and Services may be submitted for
113 Approval in two classifications, as a Service Component or as a Full Service. This Section defines
114 the rules under which Applicants for Service Approvals must be assessed and must conform to
115 applicable criteria.

iii.1.1 Statement of Conformity

117 The Statement of Conformity (SoC) (a document required by the *Specification of a Service*
118 *Subject to Assessment – S3A*) must identify the applicable version of the SAC and state, for each
119 criterion and at each applicable Assurance Level(s), whether the criterion is:

- 120 a) “not within scope”, where the criterion is excluded because the scope of the service does
121 not include functionality which the criterion addresses;
- 122 b) fulfilled by another, previously-Approved, Component Service which is incorporated into
123 the Applicant Service (which must be identified according to its Kanata Approval reference); or
- 124 c) is fulfilled directly by the Applicant Service, in which case the SoC must state how
125 conformity is achieved; or
- 126 d) “not applicable”, with a justification as to why the criterion is deemed non-applicable when
127 it otherwise falls within the scope (e.g. where a technical solution may permit a choice of means
128 for conforming, those means not implemented would be ‘not applicable’).

129 Kantara prescribes the required minimum content of the SoC but not a specific structure. The
130 SoC may be a stand-alone document or may be incorporated into another document if that is
131 justified. Kantara's requirement is that a specific documented source of the required information
132 be available and labeled as the SoC.

133 As stated in the SAC, all services must conform to all CO-SAC criteria. However, depending on
134 whether the service in question is a Full or Component Service, how the criteria from the OP-SAC
135 are addressed may vary, as described below.

iii.1.2 Service Component Assessments

137 A Service Component's SoC must identify which OP-SAC criteria are applicable (i.e. are within
138 the service's scope) and for those criteria must state how conformity with them is achieved.

139 The concept of a Service Component is intended to permit flexibility with a Full Service whose
140 Provider which may choose to operate their service core as the basis for multiple service offerings
141 using different Service Components (e.g. to satisfy different market sectors or to permit operations
142 in different jurisdictions). This approach allows significant flexibility in how services are
143 developed by no longer imposing a specific dominance of any particular aspect of the service's
144 provision¹.

7 1 Previous versions of IAF-1400 SAC had assumed that the Credential Management component of an
8 overall service would be pre-eminent.

145 Applicants for Service Component Approval must justify the selection of OP-SAC criteria to
146 which they have elected to conform – the ARB, in assessing an application, shall review the scope
147 of the SoC and shall have the right to ask the Applicant to justify their scope.

148 The operator of an Approved Service Component is entitled to market their service as being
149 Kantara (Component)-Approved to any parties but, where the consumer of that service is not
150 another Kantara-Approved Service (whether Component or Full), Kantara Initiative shall make no
151 claims, nor make any warranties, nor have any interest or liability whatsoever as to the aggregate
152 service, nor to any other non-Approved services.

iii.3.3 Full Service Assessments

154 A Full Service may have all OP-SAC criteria met by the Applicant itself or they may be met by
155 the inclusion of any number of Service Components.

156 The Applicant's SoC must (as stated above) state which criteria (if any) are met by any already-
157 Approved Service Components, which will be initially verified by the Secretariat on first receipt of
158 an Application for Full Service.

159 The Assessment of a Full Service must address all 100% of the SAC OP-SAC criteria
160 within the collective service. This assessment need not include re-examination of the
161 conformity of Component Services being included, unless circumstances suggest there is
162 a justified reason to do so, but must establish that:

- 164 a) where any criterion happens to fall into more than one Component, that there is a clear
165 responsibility on the part of one specific provider that that criterion is being met or that its dual
166 operation does not present any conflicts in the overall provision of the service;
- 167 b) there is adequate contractual specification, driven by the Full Service Provider, governing
168 the technical responsibilities and inter-operation of the Components and evidence that that is being
169 accomplished in reality;
- 170 c) the provider of each Component Service has, within the thirty (30) days preceding the start
171 of the assessment, provided an attestation to the effect that the scope, description, operation and
172 conformity of their Component has not materially changed² since the last Assessment of that
173 Component.

174 The implication of the above is that a Full Service Provider may submit for Assessment and
175 Approval a service constructed purely of previously-Approved Components (i.e. one in which the
176 Provider making the Application provided no essential functionality whatsoever), thus making the
177 determination of contractual arrangements fundamental to ensuring that the Components
178 collectively deliver a Full Service.

179 Additionally, the Provider of a Full Service may exclude specific criteria where it can show that
180 the responsibility for meeting those criteria is assumed by the Service Provider's customer(s).
181 This provision allows for Providers' customers to efficiently leverage information and processes
182 already in their hands. Providers who claim such exclusions must demonstrate how the excluded
183 requirements are communicated to their customers and how their customers are obliged to fulfill

9 2 A material change would be one which required a change to the scoping statement, involved a change of
10 functionality provided or the manner of provision of defined functionality, or which had changed to the
11 point where conformity to any applicable SAC requirement could no longer be upheld or had been replaced
12 by a means of conformity which had not been reviewed in the course of the Assessment on which the
13 present Approval was granted.

184 them and the measures by which they shall be held accountable (typically through explicit notices
185 and sections in service agreements).

186 Where a Provider seeks to exclude specific criteria by declaring them to be “not applicable” they
187 must provide an explicit explanation of their purpose and intent, the affected criteria, and how the
188 measures they will put in place to ensure the best likelihood of conformity being accomplished by
189 the parties to whom those responsibilities are transferred.

iii.1.4 Initial Assessment versus Annual Conformity Review

191 Initial Assessments (i.e. those conducted for the purposes of a Grant of a three-year
192 Approval) shall require assessment against all criteria defined in the Applicant’s SoC and
193 agreed-to by the ARB

194 The Kantara IAF’s assessment model is based on established best practice as defined in
195 ISO/IEC 17021, “*Conformity assessment - Requirements for bodies providing audit and
196 certification of management systems*”), which allows for annual reviews to be less
197 demanding than the initial assessment, subject to the three-year cycle being re-
198 commenced when the Grant of Approval is renewed on the third anniversary of it being
199 last granted.

200 Therefore, the Annual Conformity Reviews performed on the first and second
201 anniversaries of the initial Grant of Approval may have a reduced scope, as defined in the
202 RAA.

203 **iii.1.4.1 AL1 ACRs**

204 For ACRs conducted at AL1, no actual assessment shall be required. CSP’s shall submit
205 to the ARB a self-assertion of their continued conformance with all applicable criteria
206 (per their SoC).

207 **iii.1.4.2 AL2, 3, 4 ACRs**

208 For ACRs conducted at ALs 2, 3 and 4 the scope of criteria to be assessed shall be:

- 209 a) all criteria falling within the Core³ set;
- 210 b) any criteria addressing areas of risk which are of concern to either the CSP
211 itself or to its Assessor;
- 212 c) any criteria against which a non-conformity was identified and subsequently
213 remediated (or for which remediation is outstanding) at the preceding
214 assessment (of either type);
- 215 d) any criteria where there has been either:
 - 216 i) a change arising from a revision to the applicable version of the SAC; or
 - 217 ii) a significant change to how the service is operated and needs to be
218 assessed (e.g. changes to outsourcing arrangements, or to applicable
219 policies);
- 220 e) fifty per cent of all other criteria, such that, over the course of two ACRs, all

16 3 Those criteria considered to be Core and therefore requiring annual assessment are indicated as such in
17 versions of the SAC issued after this document’s release.

221 criteria not already included within a) – d) above are assessed.
 222 For ACRs conducted at ALs 2, 3 and 4, CSP’s shall submit to the ARB a KAR
 223 confirming continued conformance with all applicable criteria (per the CSP’s SoC).

iii.1.5 Ready-to-Operate versus Period-of-Time Assessments

iii.1.5.1 Ready-to-Operate Assessments

226 It is a basic Kantara requirement that Approved services are fully operational. However,
 227 Service Providers may desire a Kantara Approval in advance of there being any
 228 operational history on which a Period-of-Time (PoT) assessment could be based.
 229 Kantara provides for such circumstances by accepting a Ready-to-Operate (RTO)
 230 Assessment (i.e. one in which there is no operational record to underpin the quality of the
 231 assessment) as an interim measure, conditional upon a PoT Assessment being provided
 232 within a specific period (see below) after the point in time at which operational records
 233 begin to be generated.

234 ‘Ready-to-Operate’ shall be understood to require that the service meets all applicable
 235 criteria to the fullest extent practicable but for the provision of proof of effective
 236 operation through the furnishing as evidence of records accumulated during the service’s
 237 operations. Other findings notwithstanding, no lesser readiness shall be accepted by
 238 Assessors as being sufficient to uphold a finding of conformance during a ‘Ready-to-
 239 Operate’ assessment. ‘Nearly-Ready-to-Operate’ is not a conformant state.

240 The availability of a RTO assessment is only open to providers of services at Assurance
 241 Levels 2, 3 and 4. All AL1 services shall be regarded as being operational by default and
 242 therefore be subject to a Period-of-Time audit.

243 Service Providers which elect to seek Approval based on a RTO Assessment may submit
 244 their Application at any time at which they are able to fulfill the applicable SAC,
 245 supported by their chosen Kantara-Accredited Assessor’s RTO Report, subject to the
 246 requirement that they must subsequently provide an Assessment Report based upon a
 247 PoT Assessment conformant to the operational period described below.

248 When Approval is granted on the basis of a RTO assessment the status of the Approval
 249 shall carry the qualifier ‘Ready To Operate’.

iii.1.5.2 Period-of-Time Assessments

251 When the subject Service is already operational prior to being subjected to an Assessment,
 252 or becomes operational after previously undergoing a RTO assessment, the following
 253 periods of time are the minima for which services must be operating before a Period-of-
 254 Time (PoT) assessment can commence (i.e. one addressing a period of time over which
 255 the Service has been operational and therefore has established logs and records of
 256 operations which can provide adequate supporting evidence):

Assurance Level:	1	2	3	4
Minimum operational period (days)	n/a	30	60	90

257

258 Until such time as Approval is granted on the basis of a PoT Assessment, any 'Ready To
259 Operate' Approval status based upon a RTO assessment will remain.

iii.1.6 Site visits

261 At AL2 and above, when performing either an 'initial' or 3-year re-approval assessment,
262 Period of Time assessment, the Assessor shall conduct an on-site visit sufficient to ensure
263 that operations are being adequately executed. Although site visits are not mandatory
264 when an ACR is being performed, Assessors should consider, in their review of risk
265 associated with the assessment, the need for an on-site visit and act accordingly.

266 No site visits are required at AL1.

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IV) REVISION HISTORY

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Vn.	Date	Status	Notes	Approved
1.0	2008-05-08	Initial Release	-	Liberty Alliance
2.0	2015-08-31	Public	Revision to eliminate un-used procedures, clarify/refine and reflect current practice, particularly regarding 'RTO' and 'PoT' assessment procedures.	Kantara ARB

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