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4 Identity Assurance Framework:

5 Assessor Qualifications & Requirements

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9	Version:	draft 0.6

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15 This document is a draft and not in final release form. The full list of contributors will be

16 added prior to the final release of this document.

17 Abstract

18 The Kantara Initiative Identity Assurance Work Group (IAWG) was formed to foster

19 adoption of identity trust services. The primary deliverable of the IAWG is the Identity

20 Assurance Framework (IAF), which is comprised of many different documents that detail

21 the levels of assurance and the assurance and certification program that bring the

22 Framework to the marketplace, among them the <u>Assurance Assessment Scheme (AAS)</u>,

23 which encompasses the associated assessment and certification program, as well as the

24 <u>Service Assessment Criteria (SAC)</u>, which establishes baseline criteria for general 25 organizational conformity, identity proofing services, credential strength, and credential

organizational conformity, identity proofing services, credential strength, and credential management services against which all CSPs will be evaluated. The present document

26 management services against which all CSPs will be evaluated. The present document 27 provides an overview of the requirements which applicant assessors must fulfill in order

to become Kantara-Accredited Assessors.

29 Filename: Kantara IAF-1600-Assessor Qualifications and Requirements.doc

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71 **1 INTRODUCTION**

- 72 In order to have conformity to the Kantara Initiative IAF Service Assessment Criteria assessed
- and determined by qualified and independent assessors, Kantara Initiative operates an
- 74 <u>Assurance Assessment Scheme (AAS)</u> which describes the process by which Assessors,
- 75 Service Approval Authorities (future work item), Service Providers, and Federation Operators
- 76 can show themselves to be fit to be granted use of the Kantara Initiative Mark, for their 77 specific services, all of which are orientated toward the provision and use of identity
- redentials at recognized Assurance Levels and across a wide spectrum of public, private, and
- 79 individual sectors.
- 80 This document sets out the requirements which applicant assessors must fulfill in order to
- 81 become Kantara-Accredited Assessors. These requirements will be used to validate
- 82 applicants' suitability by the Assessment Review Board (ARB), according to the processes
- 83 described in the <u>Assurance Assessment Scheme</u>.



84 2 GLOSSARY

- The following terms are used specifically in this document, in addition to other terms from the <u>IAF Glossary</u>:
- Audit Organization an organization which undertakes audits or assessments of
 entities and their services to establish their conformity to or compliance with specific
 standards or other widely-recognized criteria. Specifically, in the context of the AAS,
 entities providing credentialing or identity management services which are claiming
 conformance to the IAF;
- 92 (Accreditation) Applicant an Audit Organization applying to Kantara Initiative for
 93 accreditation under the ACS;
- 94 (Kantara-Accredited) Assessor an Applicant which has satisfied the requirements
 95 of the AAS and to which accreditation has been granted;
- 96 (Audit) Subject the organization submitting its nominated services to a Kantara-
- 97 **accredited Assessor** for audit and certification. (*Note this usage of 'Subject' is*
- 98 <u>exclusive strictly to this document</u> readers should note that it has a different and very 99 specific meaning in other contexts, including within Kantara Initiative, e.g. in the PKI
- 99 specific meaning in other contexts, including within Kantara Initiative, e.g. in the PKI
 100 and Identity Management domains, and is consequently defined otherwise in the IAF
- 101 Glossary, for wider use).



3 Assessor Qualifications & Requirements (AQR)

103 3.1 General Introduction

104	Baseline Assessor Qualifications and Requirements (AQR) are those characteristics
105	which the IAF Assurance Assessment Scheme document requires of its assessors,
106	irrespective of whether they have prior recognition and qualification under any other
107	scheme, framework, or process acknowledged by the ARB, or are seeking <i>ab initio</i>

108 demonstration against the baseline characteristics.

3.2 Baseline Assessor Qualifications & Experience

		www.kantarainitiative.org
132 133 134	[IS 19011]	ISO/IEC 19011:2002 "Guidelines on Quality and/or Environmental Management Systems Auditing"
129 130 131	[IS 17021]	ISO/IEC 17021:2006 "Conformity assessment - –Requirements for bodies providing audit and certification of management systems"
126 127 128	[IRCA802]	IRCA/802/08/1 "Criteria for Certification as an Information Security Auditor", 2008-02
125	[IAF]	Kantara Initiative Identity Assurance Framework
122 123 124	[FPKI FSC PAG]	Federal PKI Policy Authority, SAFE-BioPharma Policy Authority and CertiPath Policy Management Authority " <i>PKI Audit Guidelines</i> ", Draft v0-7
120 121	[AICPA_QCS]	AICPA "Quality Control Standards", 2009-01-01
118 119	[AICPA_CPE]	AICPA "Continuing Professional Education", Revised 2001-12-31
116 117	[AICPA_CPC]	AICPA "Code of Professional Conduct", 1997-10-28
114 115	[AICPA_AUD]	AICPA "Auditing Standards", yyyy-mm-dd
112 113	[AICPA_ATT]	AICPA "Attestation Standards", yyyy-mm-dd
110 111		cteristics selected for the Kantara Initiative Assurance Assessment derived from the following sources:

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135 136 137 138 139 140 141	[IS 27006]	ISO/IEC 27006:2007 "Information technology – Security - Requirements for bodies providing audit and certification of information security management systems" (NB – IS 27006 mirrors IS 17021 but, where deemed necessary, provides supplemental requirements explicitly for information security management systems)
142 143	[ISACA_SGP]	"ISACA IS Standards, Guidelines and Procedures for Auditing and Control Professionals", 2008-10-15
144 145	[ISACA_CISA]	"ISACA Candidate's Guide to the CISA Exam and Certification", 2007 (no more-specific date)
146 147 148	[PCIQSA]	Payment Card Industry Security Standards Council "Validation Requirements for Qualified Security Assessors" Version 1.1, 2006-09
149 150 151 152	positive characteris	n on these sources to identify useful attributes which represent the tics which Kantara Initiative requires of its accredited assessors, if their prior qualifications or by the provision of explicit evidence requirements.
153 154 155 156 157 158 159	possess all of these following headings 1. The Aud 2. Individua 3. The colle	dited by Kantara Initiative, Applicants must demonstrate that they characteristics by fulfilling the following requirements. The preface requirements which address: it Organization itself; al Auditors; ective Audit Team; omain-specific requirements.
160	Use of the above so	ources requires some qualification:
161 162 163 164 165 166 167 168 169 170	rather ti clause h clear ex case wh brought the AC3 specific applical	publications are generally directed at the accounting profession, han information security, and hence specific qualification of any having apparent relevance is required for the infosec domain. As a cample of this, refer to [AICPA_QCS] §10.45 as a very specific here it identifies the possible need for an IT professional to be into the audit team to extend its capabilities, which in the case of S requirements is their fundamental scope, and moreover hally in the infosec domain. Because of this concern over bility any AICPA member organization will have to show how alification relates to information security management.
171 172 173	manage	1 is general in its requirements for bodies auditing and certifying ement systems in general. For application to the specific interests AAS it must be supplemented by specific IT / information security

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174 175	management systems capabilities – these are, at the ISO level, provided in IS 27006 as requirements supplemental to those of IS 17021;
176 177 178 179 180 181 182 183	3. Whilst IS 19011 focuses on quality and/or environmental systems auditing, its provisions are largely general in their expression and therefore widely applicable, (see, e.g., IS 17021 §7,2.11), and even where its clauses are explicitly in a quality and/or environmental context, it is the intention that the standard can, in most instances, be readily interpreted in (e.g.) an information (security) management system context. The requirements of IS 19011 are therefore seen to be significantly relevant to the AAS goals;
184 185 186 187 188	4. ISACA_SGP has been assessed only against the Standards, not the Guidelines and Procedures, which underpin adherence to the Standards. This is justified on the basis that the Standards are the prevailing authority, in addition to which ISACA_CISA ensures that knowledge in reasonable depth is determined.
189 190 191	It should be noted that the AAS neither strives nor claims to embody a rigorous inclusion of all parts of the above references nor to be a proven mapping or comparison between their respective requirements.
192 193 194 195 196	The following baseline requirements are to be considered as an holistic set, rather than being individual and separate. Each requirement should therefore be considered to apply in principal to all other requirement topics, e.g., where requirement AO.8 expresses expectations for competencies, such competencies must be shown to address the implied needs of any other requirement area.
197 198	Note that the tags used for these requirements are deliberately distinct from the format used to define SACs, to avoid any possibility of confusion between them.
199 200 201	References to the IAF are included so as to demonstrate that the provisions of that version of the IAF have been taken into consideration when formulating the present requirements (the AAS document of the IAF applies here).
188 189 190 191 192 193 194 195 196 197 198 199 200	depth is determined. It should be noted that the AAS neither strives nor claims to embody a rigorous inclusion of all parts of the above references nor to be a proven mapping or comparison between their respective requirements. The following baseline requirements are to be considered as an holistic set, rather that being individual and separate. Each requirement should therefore be considered to apply in principal to all other requirement topics, e.g., where requirement AO.8 expresses expectations for competencies, such competencies must be shown to address the implied needs of any other requirement area. Note that the tags used for these requirements are deliberately distinct from the formatused to define SACs, to avoid any possibility of confusion between them. References to the IAF are included so as to demonstrate that the provisions of that version of the IAF have been taken into consideration when formulating the present

202 3.2.1 Audit Organization (AO) Requirements

203 Applicant organizations must:

204 AO.1 Established business status

205	 have a recognized legal status as a business entity operating in compliance with all
206	applicable requirements of the jurisdiction in which the business is principally
207	established and also in those jurisdictions in which it has a base(s) of operations.
208 209	Guidance: For reasons of confidence in the existence and durability of the Applicant, the business has to be formally registered in some way as to there being no doubt that it is

business has to be formally registered in some way as to there being no doubt that it i entitled to purvey its services and that it has an operational background which gives

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- confidence that it has established practices and relevant experience, and all reasonable
 expectation that it will continue to operate for the medium-term future (at least three years).
- 213 Also of significance is that where the Applicant offers services in more than one
- jurisdiction (Country, State, Province, etc.) and has an established office in that jurisdiction (rather than providing a trans-border service) which it requires the Accreditation to cover,
- the same requirements apply to such additional jurisdiction.
- Representative evidence would typically be verifiable copies of, or links to, licenses and/or
 business registrations, etc.
- 219
 2) be in good standing with a level of liability protection set according to a risk-based
 determination, accounting for the scale of the business and the jurisdictions in which
 operations are conducted.
- Guidance: To provide protection for the Subject organizations which it will assess,
 liability protection is necessary. Potential liabilities may be covered by business insurance
 or other instruments, e.g. reserves. Representative evidence would be such policies or
 proof of secured (i.e. fire-walled from application for any other purposes) reserves.
- 226 3) have effective documented management and approval structures.
- 227 **Guidance:** Possession and demonstrated application of a documented management
- structure with clear ownership and approval responsibilities is the most effective way to
- assess whether the organization is set up to manage and perform assessments in the way
- 230 required (e.g. with integrity and independence) by other criteria in this set. Representative
- evidence would therefore be the defined processes and records of their implementation.

232 AO.2 Independence & impartiality

produce a documented commitment to maintaining its impartiality and independence
 from any of the potential providers of services within the Kantara Initiative community,
 and with other CSPs in other Federations with which Kantara Initiative may established
 agreements of any kind.

237 Guidance: The primary requirement is to show the senior management's commitment to 238 allowing no ownership, shareholding, or conflicting contractual or like bindings between the 239 Applicant and those whom it may assess, or with those parties which may have an interest 240 in the outcome of any assessment, e.g. competitors of the Subject. A formal declaration is at the least a basis for addressing any lack of independence should it arise, although the 241 ARB may seek further assurances where any potential conflicts of interest are known to 242 243 them, in fact or as possibilities. Note that this requirement focuses on specific parties with 244 which the Kantara Initiative community has relationships and because of this specific focus 245 would generally be provided as a specific statement in support of the application. 246 Representative evidence would be a published statement.

247 2) acts at all times so as to preserve its impartiality.



Guidance: Whilst a declaration of impartiality is an important public statement, the practices to effect that impartiality must exist and be implemented. This requirement is that such practices be in place and continuously exercised. Potential threats to impartiality relate to organizational conflicts as well as those arising from other services which may have been offered to the Subject or personal interests or participation of individuals. Representative evidence would be records of instances where the Applicant has had to exhibit its

impartiality (potentially in addressing a complaint or appeal, e.g.).

- 255 3) produce documented practices to review threats to impartiality in any assignment, at all
 256 stages of its conduct.
- 257 Guidance: Ensure that the Applicant undertakes an assessment of the risks, with regard to 258 its impartiality undertakings, involved with each assessment it is engaged to perform, and 259 that there is a review of that risk over the duration of the assignment. As a minimum, an 260 initial assessment and one immediately prior to issuing a report would be expected, although others may be included where the assignment is extended or there are other obvious reasons 261 to do so, such as a change of ownership or significant re-organization (of either party). 262 'Practices' include documented record of the application of such practice, and the ARB may 263 require evidence to be provided, as it may for any criterion. This requirement essentially 264 265 underpins sub-requirement (3) of this clause. Representative evidence would be the
- required documentation.

267 AO.3 Management responsibility & liability

- 1) show management commitment to adherence to best governance practices supported by
 having documented policies and procedures which ensure adherence to professional
 standards and practices and in particular to the auditing standards and processes under
 which it operates.
- **Guidance:** Notwithstanding the clear need for the practitioners actually undertaking the assessments to have requisite skills (addressed in subsequent requirements) it is important that the Applicant organization actually demonstrates that it is set up for and capable of employing best management practices as required. Representative evidence would therefore be identification as to how the Applicant's practices fulfill this requirement and identify the audit and technical standards and/or other references on which its operations are based.
- 278 AO.4 Openness / Defined audit process

279	1)	faithfully document and publish the audit process(es) it applies, describing the technical
280		procedures, accounting for principles such as impartiality, objectivity and
281		confidentiality, any applicable reference standards, and its contractual arrangements
282		with its clients.

283	Guidance: Kantara Initiative seeks a consistency in the application of assessments leading
284	to certification of Kantara-recognized Service Providers and therefore requires that Kantara-
285	Accredited Assessors have in place a documented and well-defined process for engaging

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- with clients and performing their assessments which can be repeated and in an ideal world
- would yield consistent results for the same Subject service. Representative evidence wouldbe the documentation defining the process and records of its implementation.

289 AO.5 Confidentiality

- have in place procedures which ensure that proprietary information relating to clients is
 securely stored and controlled in all aspects of its use.
- 292 **Guidance:** Many Subjects will be vying for business from Kantara Initiative members and
- other participants in the wider community, and as a result assessors will potentially be
- exposed to proprietary information relating to one or more of another service provider's
- competitors. As representative evidence, Applicants must show that they have in place
- 296 procedures which will safeguard their clients' confidentiality in all respects.

297 AO.6 Responsiveness to complaints

- have a means by which clients may lodge appeals or complaints concerning their
 practices and determinations and have a documented process for objectively addressing
 those complaints.
- 301 **Guidance:** The Applicant should have the means to receive, process, and respond fairly to
- 302 any complaints or appeals arising from the conduct of its assessment services, since an
- 303 objective audit process may be a cause for contention where findings are concerned.
- Having in place the means to address and resolve any such issues contributes to the overall
- 305 assurance from the accreditation process. Representative evidence would be the
- documented process and samples of its implementation where there are any.

307 AO.7 Resources

- have qualified and competent personnel to manage the organization and to perform the audits.
- 310 **Guidance:** Provision of documentary evidence of the organization's conformity to
- 311 preceding criteria is not, of itself, sufficient the AAS also requires that the Applicant
- 312 shows that it has personnel with the requisite competencies and qualifications necessary to
- effectively apply the organization's policies, procedures, etc. A register of roles, related job
- descriptions, and current employee names for the positions having specific relevance would
- 315 fulfill this requirement.
- have documented processes to ensure that audit and support personnel have and
 maintain the competencies necessary to fulfill their duties according to the systems
 being assessed, their complexity and their geographic location(s).
- Guidance: Provision of documentary evidence of the organization's conformity to
 preceding criteria is not, of itself, sufficient Kantara Initiative also requires that the



321 Applicant shows that it has personnel with the requisite competencies and qualifications

- 322 necessary to effectively apply the organization's policies, procedures, etc. A register of
- roles, related job descriptions, and current employee names for the positions having specific
- 324 relevance would fulfill this requirement.

325 AO.8 Technical competence

 have an operating record of a minimum accumulation of three person months of provision of audit services over an elapsed period of 12 months OR, if unable to fulfill either requirement, having staff who can demonstrate these minima in their professional experience immediately prior to establishing/joining the Applicant organization.

Guidance: Apart from having appropriate competencies, actual experience in their application is required to be shown. This is intended to ensure that the Applicant,

application is required to be shown. This is intended to ensure that the Applicant,
 organizationally, is active in the auditing arena. Provision is made to 'grandfather'

experience from specific staff members when they are able to demonstrate their currency

and are assuming an active role within an organization which might otherwise not meet the

- AAS requirement. Representative evidence would be illustration of past assignments, in
- terms of scope, date, and resources applied, including which specific personnel participated.

337 **3.2.2** Auditor Qualification (AQ) Requirements

Although the AAS does not accredit individuals, the organization must commit to ensuring that

the assessors it uses fulfill the following requirements and that it has in place the means to

340 ensure that these requirements are fulfilled. Applicant organizations must ensure that their

341 individual Auditors:

342 AQ.1 Personal attributes

 exhibit ethical standards by performing audits in an honest, fair, objective, and discreet manner and with due diligence and professional care, with neither record of professional mal-practice nor of criminal conviction such as to bring into doubt their ability to so perform the audit.

347 Guidance: Ethical standing is required of all personnel involved in the oversight, 348 management, performance, review, and granting of certification relating to any audit 349 process. Ethics require the auditor to be fair, truthful, and honest in their dealings with the 350 audit client, in their assessment of only factual matters, and in their overall performance of 351 the audit. This requires strict adherence to professional and technical standards as well as 352 having a balanced personal nature. Whilst some infractions of the law might be identified they may equally be considered to be inconsequential in the context of the performance of 353 354 the required assessments. On the other hand, convictions such as fraud, embezzlement, 355 other acts of moral turpitude, bankruptcy, would be serious concerns, in the event of which 356 judgment would have to be made as to the risk that may be presented to the good standing of the AAS as a whole should the Applicant be granted Accreditation. On-going 357 358 investigations or existing allegations may also require careful consideration by the ARB.



359 Factors in such determinations might be the role of any affected individuals within the

- 360 Applicant organization. The greater the authority and influence of anyone having any
- 361 unfavorable record should be balanced against the severity and nature of their (possibly
- 362 alleged) offense when deciding whether to recognize them or not. Required evidence could 363 be an employee-screening process operated by the organization, records of application of
- that process including background checks, questionnaires, etc.
- Note that this requirement does not assess experience and knowledge in the specific auditing field – see AQ.3.

367 AQ.2 Technical competence

- have and maintain the requisite knowledge, training, and experience of applicable
 generic audit standards and those specifically addressing information security
 governance and management, risk assessment, information technology, and related
 security controls.
- **Guidance:** In addition to overall technical competence across the organization, individual technical competence must be shown for individual auditors. Required evidence would be identification of the specific training undertaken, of standards and other references about which the individuals have knowledge, and of particular techniques applied
- 375 which the individuals have knowledge, and of particular techniques applied.
- 376
 377
 2) have the requisite knowledge, training and experience of applicable laws, regulations and other such requirements.
- **Guidance:** A comprehensive assessment must investigate the regulatory aspects of the
- subject and hence, in addition to technical skills, assessors must have knowledge of
 applicable legislation, etc. Required evidence would be identification of such laws, etc., and
- 380 applicable legislation, etc. Required evidence would be identification of such laws, etc 381 where the assessor purveys their work in more than one jurisdiction, indication of the
- 382 differing requirements across jurisdictions.

383 AQ.3 Subject Matter-specific competence

- be knowledgeable about, trained, and current in the specific management, operational, and technical aspects of the *«specific domain & technology»* in which the audit is performed (see note below), including accepted practices, and applicable standards and specifications.
- Note: For the purposes of being deemed qualified to perform assessments of CSPs claiming
 conformity to the Kantara Initiative IAF Service Assessment Criteria, the requirements for
 «specific domain & technology» shall be fulfilled by conformity to the requirements set
 forth herein under group 'AD'.
- 392 Where other organizations and federations wish to use Kantara-accredited assessor
- organizations for assessments performed in their own *«specific domain & technology»* (e.g.
 PCI DSS, Federal PKI, ...) they should state their own criteria to be used in lieu of (or in
- addition to, according to their chosen scoping) those in group 'AD' herein when fulfilling



- this AAS requirement and take their own measures to determine the Applicant's conformityto those specific needs.
- **Guidance:** Subject-specific knowledge and experience is required to enable the effective
- application of the generic audit competencies to the specific subject area. Since the Kantara
- 400 Initiative Assurance Assessment Scheme is, but for this particular requirement, generic and
- 401 agnostic in its choice of baseline characteristics such that it can be adopted for other uses or
- 402 assessors accredited against it can be used in other domains where the only additional
- 403 requirement is the domain-specific knowledge, this present requirement can be either
- 404 substituted for by an alternative domain's set of specific requirements or extended with 405 other such requirements where the two specific areas are both necessary.

406 AQ.4 Education / Professional gualification/certification

- have received at least a secondary education (and would preferably hold a bachelor's degree in any subject) <u>plus</u> any one (at least) of the following professional technical IT/information security management qualifications, which must be current: CGEIT, CISA, CISSP, CISM, CITP, IRCA for ISMS/ITSM, PCI QSA, or proven equivalent qualification or experience.
- 412 **Guidance:** Current professional qualifications are the more important part of this
- 413 requirement, underpinning the basic training qualifications although a secondary
- 414 education is the minimum acceptable, a bachelor's degree is the preferred baseline
- 415 educational experience and those without it may have to show stronger work experience to
- 416 be acceptable. Holding one of these professional qualifications gives confidence in the
- 417 underlying knowledge of the assessor, which may be broader than some specific experience
- 418 has allowed. Required evidence would typically be certified copies of award of
- 419 qualification or a URL to a professional body's registry, which can be authenticated.

420 AQ.5 Impartiality & Professional Competence

- have no connection to the client, the material subject to the audit, or any relevant parties
 other than in their professional auditing capacity, nor be of a disposition vulnerable to
 coercion.
- 424 Guidance: Although preceding requirements require independence and impartiality on the 425 part of the organization, its audit staff must also exhibit these qualities and be qualified to perform the audit. Past professional experience and assignments will be one way to make 426 an assessment of their impartiality, e.g. ensuring that the auditee organization was not a 427 428 previous employer of the auditor, or the auditor a previous employer of any of the auditee's 429 staff, or that the auditor had not previously given consultancy to the auditee organization, preferably in any form whatsoever, or otherwise demonstrably in a manner which could not 430 have any relationship to the material which the audit will address. Inter-personal 431 432 relationships might also color judgment but will be harder to identify without the cooperation of the auditor. Even harder to assess, unless there is a pattern of auditee's 433 434 complaints about the fairness of an auditor, is the intellectual objectivity, truthfulness, and 435 impartiality which are the scope of professional competence in this context.



- 436 Forms of evidence could be the individual auditor's assertions or the applicant
- 437 organization's processes and records for reviewing previous employment or customer
- 438 complaints.

439 AQ.6 Experience

- have participated for a minimum of 20 days of audit services, of which 10 days musthave been on-site, over an elapsed period of 36 months.
- 442 **Guidance:** This requirement accommodates 'desk auditing', i.e. review of documents from
- the auditor's own offices, but also requires on-site auditing experience, since this is the most
- 444 demanding, challenging, and also effective experience. Verifiable personal or
- 445 organizational records of assignments undertaken would generally satisfy this need.

446 3.2.3 Audit Team (AT) Requirements

447 Auditor Teams must:

448 AT.1 Collective skills

- consist of professionals who collectively have the necessary skills and experience to
 assess the policies, procedures, and practices of the subject in all general and specific
 respects; a single auditor is acceptable but must meet the requirements for Lead Auditor
 (below).
- 453 Guidance: Although an audit team may actually be a single person, the nature of the audit 454 subject may require a range of differing expertise which can only be effectively fulfilled by 455 a team of complementary individuals. A process for determining the skill requirements for 456 any particular audit and selecting suitably skilled audit staff, supported where required by 457 evidence of past assignments and the selected team's skills would typically be the form of 458 required evidence.

459 AT.2 Leader Auditor's skills

- 460 1) be led by an individual who has participated as a Team Leader (including supervised in that capacity) for a minimum of 15 days of audit services, of which 10 days must have been on-site, over an elapsed period of 24 months.
- 463 Guidance: This simply requires that the Lead Auditor has either received training in this
 464 role or has performed it as a qualified Leader within a reasonable period of time and at a
 465 reasonable level of effort. Staff records should be the most practical form of evidence to
 466 support conformity to this requirement.
- 467 2) be led by an individual who has a knowledge of all areas which are addressed by the468 audit, although other team members may have specialist roles.

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- 469 **Guidance:** The selected Lead Auditor's curriculum vitæ, or similar evidence of past
- 470 experience and training, should demonstrate that they have the requisite skills, at least at a
- 471 level where, supported by specialist advice, they can make informed and balanced decisions.
- 472 3) be capable of planning an audit with such a scope.
- 473 **Guidance:** The Applicant is expected to demonstrate by past performance, available
- 474 resource, and tactical capability that they are able to plan and execute an audit of the form
- 475 required to satisfy Kantara Initiative expectations. Record of past performance would be an
- 476 obvious way to evidence conformity to this requirement.

477 AT.3 Use of SMEs

where necessary, only use Subject Matter Experts which exhibit the same degree of
impartiality and competence in their specific field as do the auditors in theirs. SMEs
may advise the Lead Auditor but may not dictate findings, recommendations, or
remedial actions.

482 Guidance: SMEs may be either internal or external, although in the latter case the ARB 483 would expect to see that the organization had in place the means to ensure that the SME, 484 organizationally and individually, would not impinge upon the applicant organization's 485 ability (once accredited) to fulfill the AAS requirements. Evidence of a process for 486 validating and selecting SMEs, possibly supported by records of the application of that 487 process, would be appropriate evidence.

488 489 **3.2.4** Audit Domain (AD) Requirements (i.e. «specific domain & technology»)

490 Auditors assessing Subjects which are Credential Service Providers must be highly491 knowledgeable about:

492 AD.1 Applicable credential and identity management standards

- 493 1) current and evolving international standards
- 494 DIS 27046,
- 495 DIS 29115 (a.k.a. ITU-T x.eaa¹).
- 496 **Guidance:** Whether it is the above-cited standards or others which over time may be added
- 497 or used to replace those here-cited, applicants should show as evidence against this
- 498 requirement any or a combination of: a training program for its auditors which imparts
- 499 knowledge and understanding of these standards; previous performance of audits where



¹ A standard published by ITU-T would be a sector-specific standard. Although this document may evolve through the same channel as Draft International Standard 29115, and have no material differences, this clause is retained to accommodate potential future sector-specific criteria, and if ITU-T x.eaa and DIS 29115 do evolve as a common standard then conformity to this requirement (at least in the context of this specific standard) will suffice to show conformity to the following requirement

- 500 knowledge and understanding of the standards was applied, or; direct participation as an 501 author / editor / expert contributor to development of the standard(s).
- 502 2) current and evolving sector-specific standards503 Draft ITU-T x.eaa.
- 504 **Guidance:** Evidential requirements and principles are as stated for AD.1(1) above.
- 3) national/regional standards:
 Federal Credential Assessment Framework Credential Assessment Profiles,
 NIST Federal Information Processing Standard 201, NIST Special Publication
 800-63,
 Federal Identity Credentialling Committee "*Criteria for Assessing FIPS 201*Compliance of PIV Applicant Registration and Card Issuance Services", v2.Z.
 Guidance: Evidential requirements and principles are as stated for AD.1(1) above.
- 512 4) IAF Service Assessment Criteria (Common Organizational, Identity Proofing,
 513 Credential Management).
- 514 **Guidance:** Evidential requirements and principles are as stated for AD.1(1) above.

515 AD.2 Technical knowledge

- the credential management subject area, across the entire life-cycle and encompassing management and technical matters, the definition and implications of the specified Assurance Levels, and knowledge of the various technologies employed.
- 519 **Guidance:** Evidential requirements and principles are as stated for AD.1(1) above.

520 3.3 Recognition of prior qualification

521 The AAS is based upon the principle that it shall impose the minimum additional effort upon

522 Applicants, and Kantara Initiative itself, commensurate with sufficient confidence being

523 established in the Applicants' conformity to all of the requirements know collectively as the

524 'baseline characteristics'. Through the 'grandfathering' principle maximum recognition is 525 given to Applicants who can demonstrate their qualification against certain recognized industry

526 references, these being:

527 528	[AICPA_ATT]	AICPA "Attestation Standards", yyyy-mm-dd
529 530	[AICPA_AUD]	AICPA "Auditing Standards", yyyy-mm-dd



531 532	[AICPA_CPC]	AICPA "Code of Professional Conduct", 1997-10-28
533 534	[AICPA_CPE]	AICPA "Continuing Professional Education", Revised 2001-12-31
535 536	[AICPA_QCS]	AICPA "Quality Control Standards", 2009-01-01
537 538 539	[FPKI FSC PAG]	Federal PKI Policy Authority, SAFE-BioPharma Policy Authority and CertiPath Policy Management Authority " <i>PKI Audit Guidelines</i> ", Draft v0-7
540 541	[IAF]	Kantara Initiative Identity Assurance Framework, v2.0 (specifically the Assurance Assessment Scheme)
542 543 544	[IRCA802]	IRCA/802/08/1 "Criteria for Certification as an Information Security Auditor", 2008-02
545 546 547	[IS 17021]	ISO/IEC 17021:2006 "Conformity assessment - – Requirements for bodies providing audit and certification of management systems"
548 549 550	[IS 19011]	ISO/IEC 19011:2002 "Guidelines on Quality and/or Environmental Management Systems Auditing"
551 552 553 554 555 556 557	[IS 27006]	ISO/IEC 27006:2007 "Information technology – Security - Requirements for bodies providing audit and certification of information security management systems" (NB – IS 27006 mirrors IS 17021 but, where deemed necessary, provides supplemental requirements explicitly for information security management systems)
558 559	[ISACA_SGP]	"ISACA IS Standards, Guidelines and Procedures for Auditing and Control Professionals", 2008-10-15
560 561	[ISACA_CISA]	"ISACA Candidate's Guide to the CISA Exam and Certification", 2007 (no more-specific date)
562 563 564	[PCIQSA]	Payment Card Industry Security Standards Council "Validation Requirements for Qualified Security Assessors" Version 1.1, 2006-09
565	By their very nature, these re	eferences provide 'credit' against different groups of the AAS

566 requirements, and Applicants may use collective credits from multiple prior qualifications.

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567 The ARB will, where the published credit allowed is 'qualified' or 'none', allow credit where

the Applicant can demonstrate that specific AAS requirements were in fact addressed by the

569 particular prior qualification they are presenting. This recognizes that the determination made 570 in this document is based upon a generic interpretation of the applicable reference, rather than

571 a specific instance of it.

572 The continued validity of the credit granted to Applicants with certified (or otherwise proven)

conformity to the requirements of each reference shall be reviewed and revised accordingly
 whenever the relevant reference source is revised.

575 **3.3.1 Assessor Qualifications & Experience (AQE) matrix**

576 The AQE matrix in Table 1 provides a color-coded quick-look reference for each of the

577 recognized sources of pre-qualification which will allow Applicants with multiple forms of
578 pre-qualification, and the ARB, to determine the AAS requirements where the Applicant must
579 provide specific evidential inputs rather than have their conformity 'grandfathered' on account
580 of credit given for their pre-qualification status.

581 Where there may be two or more clauses from the same reference source applicable for any

582 given AAS requirement which do not have the same 'credit' determination the least favorable

583 determination is given (things can only get better from thereon). Such instances are marked '*

584 in the matrix (e.g. 'Qualified \dagger ').

585 **3.3.2 Minimum Criteria**

These criteria establish minima: Applicants who seek credit on the basis of prior qualification under other schemes acceptable to Kantara Initiative shall be expected to be in full compliance

with the most demanding of the combined criteria, at all times during which they seek the

589 benefit of any prior qualification(s).

590 **3.3.3 Validity**

591 Where an Applicant's accreditation is based on prior qualification the accreditation will lapse

six months after the first-occurring expiration date of any claimed prior qualifications, at any

given point during the first two-and-a-half years of the three year accreditation validity.
 Kantara Initiative considers that a six-month window offers the Applicant sufficient latitude i

594 Kantara Initiative considers that a six-month window offers the Applicant sufficient latitude in 595 renewing the applicable qualification(s) or offering supplemental evidence of conformity

should they choose to no longer rely upon that prior qualification for the applicable AAS

597 requirements.

598 **3.3.4 Waivers**

599 Applicants with reasonable grounds for doing so may request that a waiver be granted where

600 the AAS requirements are not strictly met but the Applicant requests a 'conformity exception -

601 CE' and offers sufficient evidence to convince the ARB that their specific qualifications or

602 evidence are equally acceptable. For example, special experience may have been acquired and

603 used to gain a professional qualification in lieu of conventional requirements, in which case,



- assuming that the qualification was one recognized by the ARB, the same argument wouldmost likely be accepted as fulfillment of the AAS' requirement for relevant experience.
- 606 Kantara Initiative reserves the right, at the sole determination of the ARB, to decline requests
- for waivers, grant waivers on a one-off basis and for whatever time period it deems fit, or to
- undertake revision of the AAS requirements to include the circumstances of the request as a
- 609 permanent part of the AAS (see below).

610 **3.3.5 Revisions to baseline AQE**

- 611 Kantara Initiative reserves the right, subject to due notice and consultation, to revise these
- 612 criteria as it sees fit, including the addition of requirements in response to any CE requests
- 613 which suggest that such evidence is justifiable and likely to be sufficiently commonplace or
- 614 valuable to the overall accreditation process to deserve recognition through revision to
- 615 requirement.

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616 **Table 3-1** Assessor Qualifications & Experience 'credit' reference matrix

ACS Rqt		AICPA	IRCA	ISO 	ISO 17021	ISO 27006	ISACA	PCI SSC
	1)	Qualified	None	None	Qualified	Qualified	None	Qualified
AO.1	2)	None	None	None	Unqualified	Unqualified	None	None †
	3)	None	None	None	Unqualified	Unqualified	None	None †
	1)	None	None	None	Qualified	Qualified	Qualified	Qualified
.0.2	2)	Qualified	None	None	Qualified	Qualified	Unqualified	Qualified
	3)	None	None	None	Unqualified	Unqualified	Qualified	Qualified
.0.3	1)	Qualified	None	None	Unqualified	Unqualified	None	None
0.4	1)	Qualified	None	Qualified	Unqualified	Unqualified	Qualified	None
0.5	1)	Qualified	None	None	Unqualified	Unqualified	None	Unqualified
.0.6	1)	Qualified	None	None	Unqualified	Unqualified	None	None
.0.7	1)	Qualified	None	Qualified	Unqualified	Unqualified	Qualified	Qualified
0.7	2)	Qualified	None	Qualified	Unqualified	Unqualified	None †	None
.0.8	1)	None	None	Qualified	None	Qualified	None	Qualified
Q.1	1)	Qualified	None	Qualified	None	None	Qualified	Qualified
	1)	Qualified	Unqualified	Unqualified	Unqualified	Unqualified	Unqualified	Qualified
.Q.2	2)	Oualified	None	Unqualified	None	Unqualified	None	None
Q.3	1)	None (defers to A	D group)	1				
Q.4	1)	None	Ungualified	Oualified	None	Ungualified	None	None
Q.5	1)	Qualified	None	Qualified	Ungualified	Ungualified	Ungualified	None
.Q.6	1)	None	Unqualified	None	None	Unqualified	None	None
Г.1	1)	Qualified	None	Unqualified	Unqualified	Unqualified	None	None
	1)	None	Ungualified	Unqualified	Unqualified	Ungualified	None	None
Т.2	2)	Qualified	Ungualified	Unqualified	Unqualified	Unqualified	None	None
	3)	Oualified	Unqualified	Unqualified	Unqualified	Ungualified	Oualified †	None
Т.3	1)	Qualified	None	Unqualified	Unqualified	Unqualified	Unqualified	None
	1)			_	-	_	Ľ	-
AD.1	-	None						
	4)		orks may specify their or	wn domain-specific requirer	nents for which different cr	edit may be determined in	recognition of prior qualifi	cation)
.D.2	1)	(and optimit require			and a proof quant	
	1 1)							

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618 **3.4 Compliance Table**

- 619 Use the following table to correlate criteria and the evidence offered to support compliance.
- 620 Assessors preparing an application can use the table to correlate evidence with criteria or to justify non-applicability based upon their prior
- 621 qualification or other factors they believe to be valid.
- 622 The ARB may use the table to record the steps in its assessment and its determination of compliance or of any non-compliancies.

623 **Table 3-2** AQR Compliance

Clause	Description	Compliance				
Audit Organization (AO) Require	Audit Organization (AO) Requirements					
AO.1	Established business status					
AO.2	Independence & impartiality					
AO.3	Management responsibility & liability					
AO.4	Openness / Defined audit process					
AO.5	Confidentiality					
AO.6	Responsiveness to complaints					
AO.7	Resources					
AO.8	Technical competence					
Auditor Qualification (AQ) Requ	irements					
AQ.1	Personal attributes					
AQ.2	Technical competence					
AQ.3	Subject Matter-specific competence					
AQ.4	Education / Professional qualification/certification					
AQ.5	Impartiality & Professional Competence					
AQ.6	Experience					
Audit Team (AT) Requirements	Audit Team (AT) Requirements					

AT.1		Collective skills	
AT.2		Leader Auditor's skills	
AT.3		Use of SMEs	
	Audit Domain (AD) Requirements		
AD.1		Applicable credential and identity management standards	
AD.2		Technical knowledge	

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