



Theme / Category / (ID) Requirement	Average Rating
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Solution

Standards and Enforcement

31 The program must assert and enforce: Published / Stable APIs for ALL core components. 5.00

Solution

Federation and Inter-Federation

9 Inter-Federation and Federation needs must be held high in considerations when building core solutions and artifacts related to TIER. 4.92

Person Registry/Personae/Individuals

20 Identity Matching Logic must be a part of the Person Registry Service (Directory) 4.92

Campus Success

Basic Communications

54 One Pager for general stakeholders (elevator speech) 4.83

Solution

De/Provisioning

8 The solutions must enable individuals to have multiple roles/affiliations/relationships/whatever with the institution, each with its own lifecycle and overlapping set of access privileges needed to undertake each role. Statefulness (persistence and preservation of state) must permeate the design goals of all solution components in order to correctly and efficiently manage their access over the course of these multiple lifecycles. 4.83

Standards and Enforcement

32 Implementation, Integration with and Adoption of Community or Commercial Services which have adopted TIER program standards should be "trivial" to implement from a school's perspective as long as the school has implemented TIER and used the TIER default settings. 4.83

Program Success

Governance

58 Provide mechanisms for gathering ideas and suggestions from the investors 4.75

Solution

De/Provisioning

4 Events (such as admission, enrollment, new hire, etc.) must trigger lifecycle stage transitions, role changes, affiliation changes, etc. Those can then cause other events such as service eligibility. Lifecycle changes or affiliations all precipitate a need for provisioning wherein roles are mapped to services / entitlements. 4.75

Person Registry/Personae/Individuals

19 De-Duplication must be a part of the Person Registry Service (Directory) 4.75

User Interface/User Experience (UI/UX)

38 Password Reset capabilities must be standardized upon and deployed in the out of the box solutions, with sufficient flexibility to meet institutional business practices. (Probably need to talk through the non-password self-service interface - See line 43) 4.75

Solution

De/Provisioning

Theme / Category / (ID) Requirement	Average Rating
6 The solution must anticipate the possibility of conflicting roles in the case of multiple personae when exposing Role information to Service Providers so they may adjudicate access, authorization, etc.	4.67
Interoperability	
13 An extensible Publish/Subscribe mechanism must be supported to enable near-real-time communication between dependent systems of record.	4.67
Levels of Assurance (LoA)/MFA (Quality of Identity and Identification)	
18 Flexible Multi-Factor Authentication in Single-Signon should be enabled by default, with the ability to require Multi-Factor Authentication per-Service Provider and/or per-Individual	4.67
Standards and Enforcement	
30 The program must assert and enforce: Persistence (storage of data) standards	4.67
28 The program must assert and enforce: Policy Standards	4.67
User Interface/User Experience (UI/UX)	
36 An end user Identity Console must be instantiated with the ability to update personally-owned attributes (e.g., names, numbers, some addresses, preferences, etc.) and be confident that the data will be reliably propagated to relying party systems (e.g., ERPs, directories, etc.).	4.67
39 A Person may have multiple personas that an organization may require them to "act in the role of", An easy way of switching personas should be constructed as a part of the final solution.	4.67
Solution	
Person Registry/Personae/Individuals	
21 Institutionally Defined Metadata must be enabled in the Cloud-Based solution as well as the on-Premise solution.	4.58
25 The person registry service must provide the ability to present a selected set or subset of attributes to a selected set of systems.	4.58
Solution	
User Interface/User Experience (UI/UX)	
40 "Constituent focused," self-service Interfaces must be included in the final solutions that dynamically and simply express what each constituent is authorized to manage about their own or others' attributes and access privileges. Key such constituencies: administrators supporting on-boarding processes, unit and group managers/leads managing access to their groups' resources, service owners managing characteristics of federation access to their services, and individuals managing their credentials and privacy of their attributes.	4.42
Campus Success	
Basic Communications	
55 One-pager targeted for identified stakeholders	4.33
Solution	
Standards and Enforcement	
27 The program must assert and enforce: Datagram Standards	4.33
29 The program must assert and enforce: Terminology Standards	4.33
Solution	
De/Provisioning	
5 The solution must support high level workflows between "states" (states-of-being). Note: This is a higher-level of activity such as "Adding" "Updating" "Removing" a "Person" or other entity causes a cascade of activities at the same level in other services like Box, Canvas, etc.	4.25
Person Registry/Personae/Individuals	

Theme / Category / (ID) Requirement	Average Rating
22 Individuals must be able to support the association of various personae with their own identity. (Account Linking must also be a part of this functionality.)	4.25
Campus Success	
Context - Program Stakeholders	
49 TIER must engage corporate service providers to ensure success of the Program.	4.17
Solution	
Interoperability	
16 The solution must enable smooth runtime integration / mapping between SAML and OpenID/OAuth Protected services	4.17
Program Success	
Context - Program Stakeholders	
50 TIER must engage XSEDE, NSF, DoEd, and Federal Agencies to ensure success of the Program.	4.08
Governance	
60 Publish governance model and method for participating in decision process	4.08
Solution	
Interoperability	
14 CommonAPP like Integration process should be devised for identity creation, etc. IdP (CommIT) integration not specifically mentioned but is also a clear need.	4.08
User Interface/User Experience (UI/UX)	
37 User Interfaces must be created to ease the installation, implementation, administration and use of the most common tasks for all components. (e.g. the Lack of a User Interface should be a "fail" criterion for any critical feature or function.)	4.08
Campus Success	
Adoption Assistance	
62 Develop "IAM Assessment Model" - Develop lightweight Assessment tool for each release, targeting the features supported for that functional set.	4.00
Solution	
Person Registry/Personae/Individuals	
26 The solution may enable user to be in control of their personal data stores such that when relying parties are requesting access to those data, users should have fine-grained controls over what pieces of personal data are shared with such parties.	3.92
Solution	
Auditing Monitoring and Management	
1 Logging and all other forms of application Instrumentation for Policy and Performance monitoring and management must be rigorously implemented within all components of the solution.	3.83
Interoperability	
15 ECP and CLI protocols for authentication must be enabled as for Research/Collaborative computing	3.83
Person Registry/Personae/Individuals	
24 The person registry service must have a minimum threshold of assurance when linking an account.	3.83
Campus Success	
Context - Campus Stakeholders	
41 Develop materials for CIOs to use when engaging Campus leadership	3.58

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Solution	
Interoperability	
12 A mechanism to augment the catalog of Core Connectors must be provided to the community for inter-institutional sharing and implementation.	3.58
Campus Success	
Adoption Assistance	
64 IAM Assessment Delivery Method - Online form with automatic tally	3.50
Solution	
Levels of Assurance (LoA)/MFA (Quality of Identity and Identification)	
17 The ability to promote and demote the Levels of Assurance of an identity over time should be implemented in the component suite. For example, having higher Levels of Assurance while student, then lower (social?) when alumni, and later yet higher again as grad student or employee are the representative scenarios.	3.42
Research Organization Support	
34 Authorization infrastructure must be constructed (or made available) that can be consumed by applications across both internal and external identities and services.	3.42
Campus Success	
Basic Communications	
56 Glossary	3.33
Context - Campus Stakeholders	
42 Develop materials for CIOs to use when engaging Registrars	3.33
Solution	
Service Providers and Third-Parties	
35 The program and related solutions must enable the service owners of federation-facing campus services to directly manage the controls and access by external identities such that service owners won't need campus federation gurus to manage their services.	3.33
Solution	
Research Organization Support	
33 COMange-like functionality must be included in the solution as a proper starting administration point for Research Organizations (Virtual Organizations) The ability to construct a Research Organization User interface through open APIs to create purpose-specific implementations is a goal.	3.25
Campus Success	
Adoption Assistance	
72 Provide peer/cohort support models	3.08
Solution	
Interoperability	
10 The Solution should provide "other technology" interfaces to facilitate operation with non-NET+ solutions (campus ERP, non-NET+ vendors, etc.). (e.g., OAuth, SCIM, etc.).	3.08
Solution	
Interoperability	
11 Pre-built connectors for the most common of systems of record must be in the "core" TIER release.	3.00

Campus Success**Adoption Assistance**

70 Deployment practice recommendations 2.83

Solution**Person Registry/Personae/Individuals**

23 Once instantiated, the persistence of an identity must extend beyond a lifetime (indefinitely). 2.75

Campus Success**Adoption Assistance**

65 IAM Assessment Delivery Method - Consultant service for on-site assessment 2.67

Campus Success**Adoption Assistance**

71 Provide corporate consulting support models 2.58

Context - Campus Stakeholders

46 Develop materials for CIOs to use when engaging VP of Research 2.58

Solution**Community Documentation and Interaction**

2 Solution must enable the sharing of a common documentation repository as well as a place for school practitioners and service providers to go to find useful instructions, standards, practices and guidelines for building end-to-end services based on TIER components and default configurations. 2.58

Campus Success**Context - Campus Stakeholders**

44 Develop materials for CIOs to use when engaging other business leadership 2.50

Program Success**Governance**

57 Provide mechanisms for gathering ideas and suggestions from the broader community 2.50

Campus Success**Adoption Assistance**

67 Develop guidance for addressing gaps identified in "IAM Assessment Model" - Develop specific guidance for each release 2.42

61 Develop IAM Assessment Model - Develop a complete IAM assessment tool, one comprehensive model that covers broad IAM topics. 2.42

Context - Campus Stakeholders

43 Develop materials for CIOs to use when engaging researchers 2.42

Program Success**Context - Program Stakeholders**

47 TIER must engage schools with fewer available resources to ensure wide adoption of the Program. 2.42

Campus Success**Adoption Assistance**

69 Readiness Education - Webinars 2.33

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Context - Campus Stakeholders	
45 Develop materials for CIOs to use when engaging academic medical centers	2.33
Solution	
Community Documentation and Interaction	
3 Solution extensions must be available in the form of a Marketplace or some other suitable means of presenting a catalog of available functionality, contributed by the community, for utilization by others.	2.33
Program Success	
Context - Program Stakeholders	
53 TIER must engage national organizations of identified stakeholders (AACRAO, NACUBO, etc.) to ensure success of the Program.	2.25
Governance	
59 Publish open source policy statement and license to enable appropriate vendor marketplace and campus understanding of our approach. Published for all Investors in MOU, with abstract for public view	2.25
Solution	
De/Provisioning	
7 The solutions may take into consideration the most COMMON decision making rules and the most RESTRICTIVE decision making should be at the institutional control. Default is DENY then rules-based addition of eligibility to access a service or an object. (We need to work on the individual aspects of this)	2.17
Campus Success	
Adoption Assistance	
66 Develop guidance for addressing gaps identified in "IAM Assessment Model" - Develop overall guidance for broad IAM	2.08
Campus Success	
Adoption Assistance	
63 IAM Assessment Delivery Method - PDF document	2.00
Context - Program Stakeholders	
48 TIER must engage corporate adoption/support vendors to ensure success of the Program.	2.00
Campus Success	
Adoption Assistance	
68 Readiness Education - Face to Face Workshop	1.83
Program Success	
Context - Program Stakeholders	
51 TIER must engage broad education including K12 to ensure success of the Program.	1.75
Program Success	
Context - Program Stakeholders	
52 TIER must engage state departments of instruction to ensure success of the Program.	1.17