Participation in the InCommon Federation ("Federation") enables a federation participating organization ("Participant") to use Shibboleth *identity attribute* sharing technologies to manage access to on-line resources that can be made available to the InCommon community. One goal of the Federation is to develop, over time, community standards for such cooperating organizations to ensure that shared *attribute assertions* are sufficiently robust and trustworthy to manage access to important protected resources. As the community of trust evolves, the Federation expects that participants eventually should be able to trust each other's *identity management systems* and resource *access management systems* as they trust their own.

A fundamental expectation of Participants is that they provide authoritative and accurate attribute assertions to other Participants, and that Participants receiving an attribute assertion protect it and respect privacy constraints placed on it by the Federation or the source of that information. In furtherance of this goal, InCommon requires that each Participant make available to other Participants certain basic information about any identity management system, including the identity attributes that are supported, or resource access management system registered for use within the Federation.

Two criteria for trustworthy attribute assertions by *Identity Providers* are: (1) that the identity management system fall under the purview of the organization's executive or business management, and (2) the system for issuing end-user credentials (e.g., PKI certificates, userids/passwords, Kerberos principals, etc.) specifically have in place appropriate risk management measures (e.g., *authentication* and *authorization* standards, security practices, risk assessment, change management controls, audit trails, etc.).

InCommon expects that *Service Providers*, who receive attribute assertions from another Participant, respect the other Participant's policies, rules, and standards regarding the protection and use of that data. Furthermore, such information should be used only for the purposes for which it was provided. InCommon strongly discourages the sharing of that data with third parties, or aggregation of it for marketing purposes without the explicit permission¹ of the identity information providing Participant.

InCommon requires Participants to make available to all other Participants answers to the questions below.² Additional information to help answer each question is available in the next section of this document. There is also a glossary at the end of this document that defines terms shown in italics.

¹ Such permission already might be implied by existing contractual agreements.

² Your responses to these questions should be posted in a readily accessible place on your web site, and the URL submitted to InCommon. If not posted, you should post contact information for an office that can discuss it privately with other InCommon Participants as needed. If any of the information changes, you must update your on-line statement as soon as possible.

1. Federation Participant Information

1.1 The InCommon Participant Operational Practices information below is for:
InCommon Participant organization name The Moody Bible Institute of Chicago
The information below is accurate as of this date 6/1/2017
1.2 Identity Management and/or Privacy information
Additional information about the Participant's identity management practices and/or privacy policy regarding personal information can be found on-line at the following location(s).
URL(s) <u>http://www.moodyglobal.org/privacy-policy/</u>
1.3 Contact information
The following person or office can answer questions about the Participant's identity management system or resource access management policy or practice.
Name Frank W. Leber, Jr.
Title or role Vice President, Information Technology Services

2. Identity Provider Information

Phone 312.329.4388

The most critical responsibility that an IdentityProvider Participant has to the Federation is to provide trustworthy and accurate identity assertions.³ It is important for a Service Provider to know how your *electronic identity credentials* are issued and how reliable the information associated with a given credential (or person) is.

FAX _____

Email address VP-ITS-Office @moody.edu

Community

2.1 If you are an Identity Provider, how do you define the set of people who are eligible to receive an *electronic identity*? If exceptions to this definition are allowed, who must approve such an exception?

Electronic identities are provided to Applicants, Students and non-enrolled spouses, Employees (Faculty & Staff), Alumni, Contributors, and Contractors/Consultants. Exceptions are approved by the VP of Information Technology Services.

2.2 "Member of Community" is an assertion that might be offered to enable access to resources made available to individuals who participate in the primary mission of the university or organization. For example, this assertion might apply to anyone whose affiliation is "current student, faculty, or staff."

³ A general note regarding attributes and recommendations within the Federation is available here: http://www.incommonfederation.org/attributes.html

⁴ "Member" is one possible value for eduPersonAffiliation as defined in the eduPerson schema. It is intended to include faculty, staff, student, and other persons with a basic set of privileges that go with membership in the university community (e.g., library privileges). "Member of Community" could be derived from other values in eduPersonAffiliation or assigned explicitly as "Member" in the electronic identity database. See http://www.educause.edu/eduperson/

What subset of persons registered in your identity management system would you identify as a "Member of Community" in Shibboleth identity assertions to other InCommon Participants?

Students and Employees (Faculty & Staff)

Electronic Identity Credentials

2.3 Please describe in general terms the administrative process used to establish an electronic identity that results in a record for that person being created in your *electronic identity database*? Please identify the office(s) of record for this purpose. For example, "Registrar's Office for students; HR for faculty and staff."

Admissions Office for Applicants

Registrar's Office for Students

Alumni Relations Office for Alumni

Donor Relations Office for Contributors

Human Resources Office for Employees (Faculty & Staff)

<u>Information Technology Services for Contractor/Consultants/non-enrolled Spouses</u> of Students

2.4 What technologies are used for your electronic identity credentials (e.g., Kerberos, userID/password, PKI, ...) that are relevant to Federation activities? If more than one type of electronic credential is issued, how is it determined who receives which type? If multiple credentials are linked, how is this managed (e.g., anyone with a Kerberos credential also can acquire a PKI credential) and recorded?

userID/password for all identities

2.5 If your electronic identity credentials require the use of a secret password or PIN, and there are circumstances in which that secret would be transmitted across a network without being protected by encryption (i.e., "clear text passwords" are used when accessing campus services), please identify who in your organization can discuss with any other Participant concerns that this might raise for them:

All password transactions are encrypted

2.6 If you support a "single sign-on" (SSO) or similar campus-wide system to allow a single user authentication action to serve multiple applications, and you will make use of this to authenticate people for InCommon Service Providers, please describe the key security aspects of your SSO system including whether session timeouts are enforced by the system, whether user-initiated session termination is supported, and how use with "public access sites" is protected.

<u>The</u> Shibboleth IdP enforces a session timeout and provides a facility for the user to end their session by triggering a logout.

2.7 Are your primary *electronic identifiers* for people, such as "net ID," eduPersonPrincipalName, or eduPersonTargetedID considered to be unique for all time to the individual to whom they are assigned? If not, what is your policy for reassignment and is there a hiatus between such reuse?

We do not reuse student & employee identities.

Electronic Identity Database

2.8 How is information in your electronic identity database acquired and updated? Are specific offices designated by your administration to perform this function? Are individuals allowed to update their own information on-line?

Offices listed in section 2.3 have update capabilities for their respective constituent groups. Students and Employees have access to a self-service portal to update basic bio-demo data.

2.9 What information in this database is considered "public information" and would be provided to any interested party?

<u>Directory information as designated by FERPA is not considered public. Moody's participation in InCommon (or any other identity federation) is for the sole purpose of exchanging authentication and authorization information for federated services.</u>

Uses of Your Electronic Identity Credential System

2.10 Please identify typical classes of applications for which your electronic identity credentials are used within your own organization.

<u>Electronic identities are used to access business and educational application systems.</u>

Attribute Assertions

Attributes are the information data elements in an attribute assertion you might make to another Federation participant concerning the identity of a person in your identity management system.

2.11	vvoula y	you conside	r your attribute	e assertions to	be reliable	enough to:
г	X1 con	trol access	to on-line infor	mation databa	sees license	d to your

[X] control access to on-line information databases licensed to your organization?

[]	be used to	purchase	goods or	services	for your	organization?
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[X] enable access to personal information such as student loan status?

Privacy Policy

Federation Participants must respect the legal and organizational privacy constraints on attribute information provided by other Participants and use it only for its intended purposes.

2.12 What restrictions do you place on the use of attribute information that you might provide to other Federation participants?

Attribute information may only be used for the purposes for which it was provided. Information provided by Moody as part of our participation in InCommon federation is not to be reused or redistributed by other parties or members of the federation without written approval from Moody.

2.13 What policies govern the use of attribute information that you might release to other Federation participants? For example, is some information subject to FERPA or HIPAA restrictions?

Information may be subject to FERPA or HIPAA.

3. Service Provider Information

Service Providers are trusted to ask for only the information necessary to make an appropriate access control decision, and to not misuse information provided to them by Identity Providers. Service Providers must describe the basis on which access to resources is managed and their practices with respect to attribute information they receive from other Participants.

3.1 What attribute information about an individual do you require in order to manage access to resources you make available to other Participants? Describe separately for each service ProviderID that you have registered.

N/A. IdP only.

3.2 What use do you make of attribute information that you receive in addition to basic access control decisions? For example, do you aggregate session access records or records of specific information accessed based on attribute information, or make attribute information available to partner organizations, etc.?

N/A. IdP only.

3.3 What human and technical controls are in place on access to and use of attribute information that might refer to only one specific person (i.e., personally identifiable information)? For example, is this information encrypted?

N/A. IdP only.

3.4 Describe the human and technical controls that are in place on the management of super-user and other privileged accounts that might have the authority to grant access to personally identifiable information?

N/A. IdP only.

3.5 If personally identifiable information is compromised, what actions do you take to notify potentially affected individuals?

N/A. IdP only.

4. Other Information

4.1 Technical Standards, Versions and Interoperability

Identify the version of Internet2 Shibboleth code release that you are using or, if not using the standard Shibboleth code, what version(s) of the SAML and SOAP and any other relevant standards you have implemented for this purpose.

Moody's implementation of Shibboleth IdP is v3.3

4.2 Other Considerations

Are there any other considerations or information that you wish to make known to other Federation participants with whom you might interoperate? For example, are

there concerns about the use of clear text passwords or responsibilities in case of a security breach involving identity information you may have provided?

In the event of a data breach on the part of another member of the federation involving Moody data, please contact the office of the VP, Information Technology Services at (312)329-4388 AND VP-ITS-Office @moody.edu

Additional Notes and Details on the Operational Practices Questions

As a community of organizations willing to manage access to on-line resources cooperatively, and often without formal contracts in the case of non-commercial resources, it is essential that each Participant have a good understanding of the *identity* and resource management practices implemented by other Participants. The purpose of the questions above is to establish a base level of common understanding by making this information available for other Participants to evaluate.

In answering these questions, please consider what you would want to know about your own operations if you were another Participant deciding what level of trust to place in interactions with your on-line systems. For example:

- What would you need to know about an *Identity Provider* in order to make an informed decision whether to accept its assertions to manage access to your online resources or applications?
- What would you need to know about a Service Provider in order to feel confident providing it information that it might not otherwise be able to have?

It also might help to consider how *identity management systems* within a single institution could be used.

- What might your central campus IT organization, as a Service Provider, ask of a peer campus Identity Provider (e.g., Computer Science Department, central Library, or Medical Center) in order to decide whether to accept its identity assertions for access to resources that the IT organization controls?
- What might a campus department ask about the central campus identity management system if the department wanted to leverage it for use with its own applications?

The numbered paragraphs below provide additional background to the numbered questions in the main part of this document.

- [1.2] InCommon Participants who manage Identity Providers are strongly encouraged to post on their website the privacy and information security policies that govern their identity management system. Participants who manage Service Providers are strongly encouraged to post their policies with respect to use of personally identifying information.
- [1.3] Other InCommon Participants may wish to contact this person or office with further questions about the information you have provided or if they wish to establish a more formal relationship with your organization regarding resource sharing.
- [2] Many organizations have very informal processes for issuing electronic credentials. For example, one campus does this through its student bookstore. A *Service Provider* may be more willing to accept your *assertions* to the extent that this process can be seen as authoritative.
- [2.1] It is important for a *Service Provider* to have some idea of the community whose identities you may represent. This is particularly true for *assertions* such as the

eduPerson "Member of Community.". A typical definition might be "Faculty, staff, and active students" but it might also include alumni, prospective students, temporary employees, visiting scholars, etc. In addition, there may be formal or informal mechanisms for making exceptions to this definition, e.g., to accommodate a former student still finishing a thesis or an unpaid volunteer.

This question asks to whom you, as an *Identity Provider*, will provide electronic credentials. This is typically broadly defined so that the organization can accommodate a wide variety of applications locally. The reason this question is important is to distinguish between the set of people who might have a credential that you issue and the subset of those people who fall within your definition of "Member of Community" for the purpose of InCommon *attribute assertions*.

- [2.2] The assertion of "Member of Community" is often good enough for deciding whether to grant access to basic on-line resources such as library-like materials or websites. InCommon encourages participants to use this assertion only for "Faculty, Staff, and active Students" but some organizations may have the need to define this differently. InCommon Service Providers need to know if this has been defined differently.
- [2.3] For example, if there is a campus recognized office of record that issues such electronic credentials and that office makes use of strong, reliable technology and good database management practices, those factors might indicate highly reliable credentials and hence trustworthy *identity assertions*.
- [2.4] Different technologies carry different inherent risks. For example, a userID and password can be shared or "stolen" rather easily. A PKI credential or SecureID card is much harder to share or steal. For practical reasons, some campuses use one technology for student credentials and another for faculty and staff. In some cases, sensitive applications will warrant stronger and/or secondary credentials.
- [2.5] Sending passwords in "clear text" is a significant risk, and all InCommon Participants are strongly encouraged to eliminate any such practice. Unfortunately this may be difficult, particularly with legacy applications. For example, gaining access to a centralized calendar application via a wireless data connection while you are attending a conference might reveal your password to many others at that conference. If this is also your campus credential password, it could be used by another person to impersonate you to InCommon Participants.
- [2.6] "Single sign-on" (SSO) is a method that allows a user to unlock his or her electronic identity credential once and then use it for access to a variety of resources and applications for some period of time. This avoids people having to remember many different identifiers and passwords or to continually log into and out of systems. However, it also may weaken the link between an electronic identity and the actual person to whom it refers if someone else might be able to use the same computer and assume the former user's identity. If there is no limit on the duration of a SSO session, a Federation Service Provider may be concerned about the validity of any identity assertions you might make. Therefore it is important to ask about your use of SSO technologies.

- [2.7] In some *identity management systems*, primary identifiers for people might be reused, particularly if they contain common names, e.g. Jim Smith@MYU.edu. This can create ambiguity if a *Service Provider* requires this primary identifier to manage access to resources for that person.
- [2.8] Security of the database that holds information about a person is at least as critical as the *electronic identity credentials* that provide the links to records in that database. Appropriate security for the database, as well as management and audit trails of changes made to that database, and management of access to that database information are important.
- [2.9] Many organizations will make available to anyone certain, limited "public information." Other information may be given only to internal organization users or applications, or may require permission from the subject under FERPA or HIPAA rules. A Service Provider may need to know what information you are willing to make available as "public information" and what rules might apply to other information that you might release.
- [2.10] In order to help a *Service Provider* assess how reliable your *identity assertions* may be, it is helpful to know how your organization uses those same assertions. The assumption here is that you are or will use the same *identity management system* for your own applications as you are using for federated purposes.
- [2.11] Your answer to this question indicates the degree of confidence you have in the accuracy of your *identity assertions*.
- [2.12] Even "public information" may be constrained in how it can be used. For example, creating a marketing email list by "harvesting" email addresses from a campus directory web site may be considered illicit use of that information. Please indicate what restrictions you place on information you make available to others.
- [2.13] Please indicate what legal or other external constraints there may be on information you make available to others.
- [3.1] Please identify your access management requirements to help other Participants understand and plan for use of your resource(s). You might also or instead provide contact information for an office or person who could answer inquiries.
- [3.2] As a *Service Provider*, please declare what use(s) you would make of attribute information you receive.
- [3.3] Personally identifying information can be a wide variety of things, not merely a name or credit card number. All information other than large group identity, e.g., "member of community," should be protected while resident on your systems.
- [3.4] Certain functional positions can have extraordinary privileges with respect to information on your systems. What oversight means are in place to ensure incumbents do not misuse such privileges?

- [3.5] Occasionally protections break down and information is compromised. Some states have laws requiring notification of affected individuals. What legal and/or institutional policies govern notification of individuals if information you hold is compromised?
- [4.1] Most InCommon Participants will use Internet2 Shibboleth technology, but this is not required. It may be important for other participants to understand whether you are using other implementations of the technology standards.
- [4.2] As an *Identity Provider*, you may wish to place constraints on the kinds of applications that may make use of your *assertions*. As a *Service Provider*, you may wish to make a statement about how User credentials must be managed. This question is completely open ended and for your use.

Glossary

access management system The collection of systems and or services associated with specific on-line resources and/or services that together derive the decision about whether to allow a given individual to gain access to those resources or make use of those services.

assertion

The *identity* information provided by an *Identity Provider* to a *Service Provider*.

attribute

A single piece of information associated with an *electronic identity* database record. Some attributes are general; others are personal. Some subset of all attributes defines a unique individual.

authentication

The process by which a person verifies or confirms their association with an *electronic identifier*. For example, entering a password that is associated with an UserID or account name is assumed to verify that the user is the person to whom the UserID was issued.

authorization

The process of determining whether a specific person should be allowed to gain access to an application or function, or to make use of a resource. The resource manager then makes the access control decision, which also may take into account other factors such as time of day, location of the user, and/or load on the resource system.

electronic identifier

A string of characters or structured data that may be used to reference an *electronic identity*. Examples include an email address, a user account name, a Kerberos principal name, a UC or campus *NetID*, an employee or student ID, or a PKI certificate.

electronic identity

A set of information that is maintained about an individual, typically in campus *electronic identity databases*. May include roles and privileges as well as personal information. The information must be authoritative to the applications for which it will be used.

electronic identity credential An electronic identifier and corresponding personal secret associated with an electronic identity. An electronic identity credential typically is issued to the person who is the subject of the information to enable that person to gain access to applications or other resources that need to control such access.

electronic identity database

A structured collection of information pertaining to a given individual. Sometimes referred to as an "enterprise directory." Typically includes name, address, email address, affiliation, and *electronic identifier(s)*. Many technologies can be used to create an *identity database*, for example LDAP or a set of linked relational databases.

identity is the set of information associated with a specific physical person or other entity. Typically an Identity Provider will be authoritative for only a subset of a person's *identity* information. What *identity* attributes might be relevant in any situation depend on the context in which it is being questioned.

identity management system A set of standards, procedures and technologies that provide electronic credentials to individuals and maintain authoritative information about the holders of those credentials.

Identity Provider

A campus or other organization that manages and operates an *identity management system* and offers information about members of its community to other InCommon participants.

NetID

An *electronic identifier* created specifically for use with on-line applications. It is often an integer and typically has no other meaning.

personal secret (also

verification token)

Used in the context of this document, is synonymous with password, pass phrase or PIN. It enables the holder of an *electronic identifier* to confirm that s/he is the person to whom the identifier was issued.

Service Provider

A campus or other organization that makes on-line resources available to users based in part on information about them that it receives from other InCommon participants.