

# Data Use Certification Agreement

## Alzheimer's Disease Sequencing Project (ADSP)

### Introduction and Statement of Policy

The National Institutes of Health (NIH) has developed central data repositories to archive and distribute the results of studies provided by Contributing Investigators examining the relationship between genomic data (e.g., genotype, sequence, or epigenetic information) and phenotype. Such studies include genome-wide association studies, medical sequencing, and molecular diagnostic assays. Implicit in the establishment of the NIH data repositories, for example the database of Genotypes and Phenotypes (dbGaP), is the view that scientific progress in this area will be greatly enhanced if the data produced by these studies are readily available to all investigators in the research community.

Dataset access will be provided to research investigators who, along with their institutions, have certified their agreement with the expectations and terms of access detailed below. It is the intent of the NIH and National Institute on Aging (NIA) that Approved Users of NIH-provided datasets recognize any restrictions on data use delineated within the original informed consent agreements of contributing studies, as identified by the submitting institutions and stated on database websites.

Definitions of terminology used in this document are found in the Appendix.

The parties to this agreement include: the Principal Investigator (PI) requesting access to the genomic study dataset ("the Approved User"), his/her home institution as represented by the Institutional Signing Official designated through the eRA Commons system ("the Requester"), and the NIA, NIH. The effective date of this agreement shall be the Project Approval Date, as specified on the Data Access Committee approval notification.

### Terms of Access

#### 1. Research Use

The Requester agrees that if access is approved, the Principal Investigator named in the Data Access Request (DAR) submitted to the NIH, those named in the "Senior/Key Person Profile" portion of the DAR, which should include the Information Technology Director or his/her designee, and any trainee or employee working on the proposed research project under the direct supervision of these individuals, shall become Approved Users of the requested dataset(s). Research use will occur solely in connection with the research project described in the DAR, which includes a 1-2 paragraph description of the research objectives and design. New uses of these data outside those described in the DAR will require submission of a new DAR; modifications to the research project will require submission of an amendment to this application (e.g., the addition of new aims related to the approved project, adding or deleting collaborators from the same institution, and the potential addition of new NIH genomic datasets to an approved project). The Requester and all Approved Users may use the dataset(s) only in accordance with the parameters described on the NIH database Web site for the appropriate research use, and any limitations on such use, of the dataset(s) and as required by law.

Research access to the requested dataset(s) is granted for a period of one (1) year as defined below.

Contributing Investigators, or their direct collaborators, who provided the data or samples used to generate an NIH genomic dataset and who have appropriate IRB approval, if applicable, for broader use of the data are exempt from the limitation on the scope of the research use as defined in the DAR.

### The Alzheimer's Disease Sequencing Project (ADSP)

On February 7, 2012, a new Presidential Initiative was announced to fight Alzheimer's Disease (AD), specifically to identify a broad range of AD risk and protective gene variants, with the ultimate goal of facilitating the identification of new pathways for therapeutic approaches and prevention. The analysis

will also provide insight as to why individuals with known risk factor genes escape from developing AD. The project developed jointly by NIA and NHGRI is called the Alzheimer's Disease Sequencing Project (ADSP).

The overarching goals of the ADSP are to: (1) identify new genomic variants contributing to increased risk of developing AD, (2) identify new genomic variants contributing to protection against developing AD, and (3) provide insight as to why individuals with known risk factor variants escape from developing AD. The ADSP will conduct and facilitate analysis of sequence data to extend previous discoveries that may ultimately result in new directions for AD therapeutics. The specific aims of the ADSP are to: (1) identify protective genomic variants in older adults at risk for AD, (2) identify new risk variants among AD cases, and (3) examine these factors in multi-ethnic populations as applicable in order to identify new pathways for disease prevention.

Investigators in academic and clinical communities will have immediate access to the ADSP genomic and associated data, for performing their own analyses. Investigators wanting additional data not included in the primary data set may apply to the dbGap or the NIA Genetics of Alzheimer's Disease Data Storage Site (NIAGADS <http://www.niagads.org/>) for those additional data. The NIA supports the National Institute on Aging Genetics of Alzheimer's Disease Data Storage Site as operated under an NIA award (U24 AG041689) to the University of Pennsylvania. NIAGADS maintains as a national resource both primary and secondary Genetic Analysis Data and Associated Phenotypic Data on the genetics of AD as well as related data relevant to the AD phenotype that are distributed for analysis to qualified scientific investigators conducting research on the genetic bases of AD. The researcher will indicate what data they are requesting and this request will be reviewed by the NIAGADS Data Use Committee. Applicants must have appropriate IRB approval. Investigators making a data request will receive genomic and associated data on the condition that they provide back to the database any data and summary statistics that they derive from the ADSP data. All members of the ADSP will have access to data in NIAGADS.

## **2. Institutional and Approved User Responsibilities**

The Requester agrees through the submission of the Data Access Request (DAR) that the PI named in the DAR has reviewed and understands the principles for responsible research use and data handling of the genomic datasets as defined in the [NIH GWAS Data Sharing Policy](#) and as detailed in this Data Use Certification (DUC) agreement and in the dbGaP Approved User Code of Conduct. The Requester and Approved Users further acknowledge that they are responsible for ensuring that all uses of the data are consistent with federal, state, and local laws and regulations and any relevant institutional policies. The Requester certifies that the Approved User is in good standing with the institution and relevant funding agencies (i.e., no known sanctions) and is eligible to conduct independent research. Through submission of the DAR, the Principal Investigator also agrees to submit annual data use reports to the appropriate NIH Data Access Committee (DAC) describing the research use of the Approved Users as described under "*Research Use Reporting*" below.

Approved Users who may have access to personal identifying information for research participants in the original study at their institution or through their collaborators, may be required to have IRB approval. By approving and submitting the attached Data Access Request, the Institutional Signing Official provides assurance that relevant institutional policies and applicable federal, state, or local laws and regulations (if any) have been followed, including IRB approval if required. The Institutional Signing Official also assures through the approval of the Data Access Request that other organizations within the institution with relevant authorities (e.g., the Office of Human Subjects Research, the Office of Information Technology, the Office of Technology Transfer, etc.) have reviewed the relevant sections of the NIH GWAS Data Sharing Policy and the associated procedures and are in agreement with the principles defined.

It is anticipated that, at least in some cases, these datasets will be updated with additional information. Unless otherwise indicated, all statements herein are presumed to be true and applicable to the access and use of all versions of these datasets.

## **3. Public Posting of Approved User's Research Use Statement**

The Principal Investigator agrees that, if he or she becomes an Approved User, information about the PI

and the approved research use may be posted on a public, US government web site that describes approved research projects. The information may include the Approved User's name and institution, project name, Research Use Statement, and a Non-technical Summary of the Research Use Statement. In addition, citations resulting from the use of NIH genomic datasets may be posted on NIH data repository websites.

#### **4. Non-Identification**

Approved Users agree not to use the requested datasets, either alone or in concert with any other information, to identify or contact individual participants from whom phenotype data and DNA samples were collected. This provision does not apply to research investigators operating with specific IRB approval, pursuant to 45 C.F.R. 46, to contact individuals within datasets or to obtain and use identifying information under an approved IRB research protocol. All investigators conducting "human subjects research" within the scope of 45 C.F.R. 46 must comply with the requirements contained therein.

#### **5. Non-Transferability**

The Requester and Approved Users agree to retain control over the data and further agree not to distribute data obtained through this Data Access Request to any entity or individual not covered in the submitted Data Access Request. If Approved Users are provided access to NIH genomic datasets for inter-institutional collaborative research described in the Research Use Statement of the Data Access Request, and all members of the collaboration are also Approved Users through their home institution(s), data obtained through this Data Access Request may be securely transmitted within the collaborative group. All data security practices and other terms of use defined in this agreement and the [dbGaP Security Best Practices](#) for the raw data are expected to be followed for the derived data, including any transmission of the data.

The Requester and Approved Users acknowledge responsibility for ensuring the review and agreement to the terms within this Data Use Certification and the appropriate research use of NIH genomic data by research staff associated with any approved project, subject to applicable laws and regulations. NIH genomic datasets obtained through this Data Access Request, in whole or in part, may not be sold to any individual at any point in time for any purpose.

Approved Users agree that if they change institutions during the access period, they will submit a new Data Access Request and Data Use Certification in which the new institution agrees to the NIH GWAS data use policy before data access resumes. Any versions of data stored at the prior institution for the approved use will be destroyed and documented through a final Data Use Report as described below. However, if advance written notice and approval by the Joint Addiction Aging and Mental Health (JAAMH) Data Access Committee is obtained to transfer responsibility for the approved research project to another Approved User within the same institution the data may not need to be destroyed.

#### **6. Data Security and Data Release Reporting**

The Requester and Approved Users, including the institutional Information Technology Director or his/her designee, acknowledge the intent of the NIH that they have reviewed and agree to handle the requested dataset(s) according to the current [dbGaP Security Best Practices](#), including its detailed description of requirements for security and encryption. These include, but are not limited to:

- o all Approved Users have completed all required computer security training required by their institution, for example, the <http://irtsectraining.nih.gov/>, or the equivalent;
- o the data will always be physically secured (for example, through camera surveillance, locks on doors/computers, security guard);
- o servers must not be accessible directly from the internet, (for example, they must be behind a firewall or not connected to a larger network) and unnecessary services should be disabled;
- o use of portable media, e.g., on a CD, flash drive or laptop, is discouraged, but if necessary then they should be encrypted consistent with applicable law; use of updated anti-virus/anti-spyware software;
- o security auditing/intrusion detection software, detection and regular scans of potential data intrusions;

- use of strong password policies for file access.
- all copies of the dataset should be destroyed, as permitted by law and local institutional policies, whenever any of the following occurs:
  - the DUC expires and renewal is not sought;
  - access renewal is not granted;
  - the NIA requests destruction of the dataset;
  - the continued use of the data would no longer be consistent with the DUC.

In addition, the Requester and Approved Users agree to keep the data secure and confidential at all times and to adhere to information technology practices in all aspects of data management to assure that only authorized individuals can gain access to NIH genomic datasets. This agreement includes the maintenance of appropriate controls over any copies or derivatives of the data obtained through this Data Access Request.

Requesters and Approved Users agree to notify the JAAMH Data Access Committee of any unauthorized data sharing, breaches of data security, or inadvertent data releases that may compromise data confidentiality within 24 hours of when the incident is identified. As permitted by law, notifications should include the known information regarding the incident and a general description of the activities or process in place to fully define and remediate the situation. Within 3 business days of the JAAMH Data Access Committee notification, the Requester, through the Approved User and the Institutional Signing Official, agree to submit to the JAAMH Data Access Committee a more detailed written report including the date and nature of the event, actions taken or to be taken to remediate the issue(s), and plans or processes developed to prevent further problems, including specific information on timelines anticipated for action.

**All notifications and written reports of data security incidents should be sent to:**

JAAMH Data Access Committee  
URGENT Email  
JAAMHDAC@mail.nih.gov

The NIA, the NIH, or another entity designated by the NIH may, as permitted by law, also investigate any data security incident. Approved Users and their associates agree to support such investigations and provide information, within the limits of applicable local, state and federal laws and regulations. In addition, Requesters and Approved Users agree to work with the NIA and the NIH to assure that plans and procedures developed to address identified problems are mutually acceptable consistent with applicable law.

**7. Intellectual Property**

By requesting access to genomic dataset(s), the Requester and Approved Users acknowledge the intent of the NIH that anyone authorized for research access through the attached Data Access Request follow the intellectual property principles within the [NIH GWAS Policy for Data Sharing](#) as summarized below:

Achieving maximum public benefit is the ultimate goal of data distribution through the NIH genomic data repositories. The NIH believes that these data should be considered as pre-competitive, and urges Approved Users to avoid making IP claims derived directly from the genomic dataset(s). However, the NIH also recognizes the importance of the subsequent development of IP on downstream discoveries, especially in therapeutics, which will be necessary to support full investment in products to benefit the public.

It is expected that these NIH-provided data, and conclusions derived therefrom, will remain freely available, without requirement for licensing. The NIH encourages broad use of genomic datasets coupled with a responsible approach to management of intellectual property derived from downstream discoveries in a manner consistent with the [NIH's Best Practices for the Licensing of Genomic Inventions](#) and the [NIH Research Tools Policy](#).

## 8. Research Dissemination and Acknowledgement of NIH Genomic Study Datasets

It is the intent of the NIH to promote the dissemination of research findings from NIH genomic dataset(s) as widely as possible through scientific publication or other appropriate public dissemination mechanisms. Approved Users are strongly encouraged to publish their results in peer-reviewed journals and to present research findings at scientific meetings, etc.

### ADSP Immediate Release of Data

The Bermuda Principles (<http://www.gene.ucl.ac.uk/hugo/bermuda.htm>) in 1996 and the Ft. Lauderdale Large Scale Biological Sequencing Projects accord in 2003 (<http://www.genome.gov/Pages/Research/WellcomeReport0303.pdf>) were developed by the scientists engaged in the International Human Genome Sequencing Consortium and their funding agencies. These documents observe that pre-publication data release might conflict with a fundamental scientific incentive: publishing the first analysis of one's own data. It is not possible to absolutely guarantee this incentive without applying restrictions that would undermine the rationale for rapid, unrestricted release of data from community resources. Nonetheless, it is essential that excellent scientists continue to be attracted to these projects. To encourage this, the scientific community should understand that pre-publication data release needs active community-wide support if it is to continue to receive widespread support from the producers. The ability of the producers to analyze and publish their own data should be respected by the research community and the contributions and interests of the data producers should be recognized and respected by the users of the data. As an extension of the Bermuda Principles and the Ft. Lauderdale Accord, the following obtains with regard to ADSP data:

In a Memorandum of Understanding signed by the members of the ADSP, it was agreed that ADSP sequence and phenotypic data would be made available rapidly after generation and that all partners in the ADSP would have immediate access to sequence data through an NIH-approved data base. In keeping with the Bermuda Principles, the Ft. Lauderdale accord, and the ADSP MOU, **data generated by the ADSP will be made available to the research community at large immediately after quality control checks and variant calls are completed.** Data can be accessed by application either through dbGaP: <http://www.ncbi.nlm.nih.gov/gap> or the NIA Genetics of Alzheimerih.gov/gap" or through dbGaP: <http://www.niagads.org/>.

In the spirit of the clear benefit that ensues from converting such data sets into community resources as rapidly as possible, it is expected that **users of the data generated by the ADSP will withhold publication until the producers of the data have published their findings.** ADSP participants will publish their data in an expeditious fashion at least one major paper reporting the results of the ADSP to be jointly submitted by all of the members.

Approved Users agree to acknowledge the NIH data repository, the Contributing Investigator(s) who contributed the phenotype data and DNA samples from his/her original study, and the primary funding organization that supported the contributing study in all oral and written presentations, disclosures, and publications resulting from any analyses of the data.

### Application process specific to the ADSP

The Requester and Approved Users, including the institutional Information Technology Director or his/her designee, acknowledge the intent of the NIH that they have reviewed and agree to handle the requested dataset(s) according to the current **Data Distribution Agreement** [Distribution Agreement PDF](#) , and **NIA Data Sharing plan** [NIA Data Sharing Plan PDF](#).

## **Applications from Outside the US.**

In keeping with NIH policy, NIAGADS requests additional information for applications from investigators at institutions outside the US.

1. NIAGADS requests information to ensure applicants fit the NIH definition of a qualified investigator. Investigators must be permanent employees of their institution at a level equivalent to a tenure-track professor or senior scientist. Laboratory staff and trainees such as graduate students and postdoctoral fellows are not permitted to submit project requests. NIAGADS expects that the official Institution Signing Official will verify the PI's status. Please provide ethics board, institutional review board or institutional equivalent approval document.
2. NIAGADS expects a signature on the application from an Information Technology (IT) Director, who is an institutional staff member with the authority to vouch for the institution's IT capacities.
3. Please provide a data security plan that states that all of the data are stored at the university under security policies and procedures. This includes the necessary assurances that data will be encrypted and not accessible to other users.



Approved users further agree that the acknowledgment shall include the dbGaP accession number to the specific version of the dataset(s) analyzed. A sample statement for the acknowledgment of the ADSP dataset(s) follows:

*The Alzheimer's Disease Sequencing Project (ADSP) is comprised of: two Alzheimer's Disease (AD) genetics consortia and three National Human Genome Research Institute (NHGRI) funded Large Scale Sequencing Centers (LSSC). The two AD genetics consortia are the Alzheimer's Disease Genetics Consortium (ADGC) funded by NIA, and the Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) funded by NIA, NHLBI, other NIH institutes and other foreign governmental and non-governmental organizations. The ADGC cohorts include: Adult Changes in Thought (ACT), the Alzheimer's Disease Centers (ADC), the Chicago Health and Aging Project (CHAP), the Memory and Aging Project (MAP), Mayo Clinic (MAYO), Mayo PD (MPD), Miami University (MIA), the Multi-Institutional Research in Alzheimer's Genetic Epidemiology (MIR), the National Cell Repository for Alzheimer's Disease (NCRD), Religious Orders Study (ROS), the Texas Alzheimer's Research and Care Consortium (TARC), Vanderbilt University (VAN), the Washington Heights-Inwood Columbia Aging Project (WHI) and the Washington University Sequencing Project (WUSP). The CHARGE cohorts include: the Atherosclerosis Risk in Communities Study (ARIC), the Austrian Stroke Prevention Study (ASPS), the Cardiovascular Health Study (CHS), the Erasmus Rucphen Family Study (ERF), the Framingham Heart Study (FHS), and the Rotterdam Study (RS). The three LSSC are: the Human Genome Sequencing Center at the Baylor College of Medicine, the Broad Institute Genome Center, and the Washington University Genome Institute.*

*Biological samples and associated phenotypic data used in primary data analyses were stored at Study Investigators' institutions, and at the National Cell Repository for Alzheimer's Disease (NCRAD) at Indiana University funded by NIA. Associated Phenotypic Data used in primary and secondary data analyses were provided by Study Investigators, the NIA funded Alzheimer's Disease Centers (ADCs), and the National Alzheimer's Coordinating Center (NACC) and stored at Study Investigators' institutions, NCRAD, National Institute on Aging Alzheimer's Disease Data Storage Site (NIAGADS) at the University of Pennsylvania, funded by NIA, and at the Database for Genotypes and Phenotypes (dbGaP) funded by NIH. Contributors to the Genetic Analysis Data included Study Investigators on projects that were individually funded by NIA, and other NIH institutes, and by private U.S. organizations, or foreign governmental or nongovernmental organizations.*

## **9. Research Use Reporting**

To assure that NIH policies and procedures for genomic data use are adhered to, Approved Users agree to provide to the JAAMH Data Access Committee annual feedback on how these data have been used and any results that have been generated as a result of access to the data, including patents and publications. This information will be used by the JAAMH Data Access Committee staff for program evaluation activities, and may be considered by the NIH GWAS Governance committees as part of the NIH effort to provide ongoing oversight and management of all NIH genomic data sharing activities.

Approved Users thus agree to provide a brief Annual Data Use Report on the research specified within the DAR submitted with this DUC. Approved Users who are seeking renewal agree to provide specific information in a renewal DAR. Those not seeking renewal agree to provide specific information to the Data Access Committee via the contact information below. Annual Data Use Reports will provide information regarding potentially significant findings and publications or presentations that resulted from the use of the requested dataset(s), a summary of any plans for future research use, any violations of the terms of access described within this Data Use Certification and the implemented remediation, and information on any downstream intellectual property generated as a result of the data. Approved Users also may include general comments regarding topics such as the effectiveness of the NIH genomic data access process (e.g., ease of access and use), appropriateness of data format, challenges in following the policies, and suggestions for improving data access or the program in general if desired.

Approved Users agree to send the Annual Data Use Report prior to the anniversary of the Approved [ADSP]

Access Date assigned by the DAC and specified within the manifest file provided to Approved Users by the NIH Data Repository at the time that data access is provided. It is agreed that the Annual Data Use Report will be shared with the NIH within the context of a renewal Data Access Request, or via a letter signed by the Institutional Signing Official and the Approved User.

**Annual Data Use Reports should be submitted to:**

The JAAMH Data Access Committee by e-mail at JAAMHDAC@mail.nih.gov, unless otherwise indicated in automated reminder messages from NCBI/dbGaP. Requests for continued data access should be made through dbGaP.

**Note that any inadvertent or inappropriate data release incidents should be reported to the JAAMH Data Access Committee according to the agreements and instructions under Term 6.**

**10. Non-Endorsement, Indemnification**

The Requester and Approved Users acknowledge that although all reasonable efforts have been taken to ensure the accuracy and reliability of NIH genomic data, the NIH, the JAAMH Data Access Committee, and Contributing Investigators do not and cannot warrant the results that may be obtained by using any data included therein. The NIH, the JAAMH Data Access Committee, and all contributors to these datasets disclaim all warranties as to performance or fitness of the data for any particular purpose.

No indemnification for any loss, claim, damage or liability is intended or provided by any party under this agreement. Each party shall be liable for any loss, claim, damage, or liability that said party incurs as a result of its activities under this agreement, except that the NIH, as an agency of the United States, may be liable only to the extent provided under the Federal Tort Claims Act, 28 U.S.C. 2671 et seq.

**11. Termination and Violations**

This Data Use Certification will be in effect for a period of one (1) year from the date the dataset(s) are made accessible to the Approved User ("Approved Access Date"). At the end of the access period, Approved Users agree to destroy all copies of the requested dataset(s), except as required by publication practices or law to retain them.

Consideration will be given to a renewal of this agreement upon submission of a new DAR. Copies of NIH genomic dataset(s) may not need to be destroyed if, with advance notice and approval by the JAAMH Data Access Committee, the project has been transferred to another Approved User. In this case, documentation must be provided that other Approved Users are using the dataset(s) under an active DAC approved research project at the same institution.

The Requester and Approved User acknowledge that the NIH or the NIA may terminate this agreement and immediately revoke access to all NIH genomic datasets at any time if the Requester is found to be no longer in agreement with the policies, principles and procedures of the NIH and the NIA.

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By submission of the attached Data Access Request, the Requester through the Institutional Signing Official attests to the Approved Users' qualifications for access to and use of NIH genomic dataset(s) and certifies their agreement to the NIH principles, policies and procedures for the use of the requested datasets as articulated in this document and as summarized in the dbGaP Approved User Code of Conduct, including the potential termination of access should a violation of any of these agreement terms be identified.

Requesters and the Principal Investigator further acknowledge that they have shared this document, the dbGaP Approved User Code of Conduct, and the NIH GWAS data sharing policies and procedures for access and use of genomic datasets with any Approved Users, appropriate research staff, and all other Key Personnel identified in the DAR.

Institutional Signing Officials acknowledge that they have considered the relevant NIH GWAS policies and procedures, that they have shared this document and the relevant policies and procedures with



appropriate institutional organizations, and have assured compliance with local institutional policies related to technology transfer, information technology, privacy, and human subjects research.

## Appendix

### Definitions of Terminology

**Annual Data Use Report:** A report submitted to the DAC on the anniversary of access approval summarizing the analysis of NIH genomic datasets obtained through the Data Access Request and any significant findings derived from the work.

**Approved User:** Post-DAC approval will include the PI, collaborators at the home institution who are named in the "Senior/Key Person Profile" portion of the DAR, the IT Director or designee named in the "Senior/Key Person Profile" portion of the DAR, and trainees or staff to these investigators.

**Contributing Investigator:** The researcher who submitted the genomic dataset to dbGaP.

**Data Access Request:** SF 424 (R&R) cover pages and requested attachments, if any.

**Data Derivative:** any data including individual-level data or aggregate genomic data that stems from the original dataset obtained through dbGaP. Excepted from this term is summary information that is expected to be shared through community publication practices.

**dbGaP Approved User Code of Conduct:** A short summary highlighting key principles and practices agreed to by all research investigators requesting access to NIH genomic data from dbGaP. The elements within the Code of Conduct reflect the Terms of Access in this Data Use Certification (DUC) agreement. Failure to abide by the Code of Conduct as agreed to at the time a dbGaP Project Request is submitted may result in revocation of access to any and all approved data sets.

**Final Data Use Report:** A final report submitted to the DAC at the conclusion of the approved access period when no additional access is sought, or when leaving an institution. This report should summarize the analysis of genomic study datasets obtained through the Data Access Request and any significant findings derived from the work.

**Information Technology Director:** Someone with the authority to vouch for the IT capacities at an institution, or higher-level division of an institution (e.g., the School of Medicine).

**Institutional Signing Official:** Someone with the authority to sign on behalf of the Requester and credentialed through the eRA system as such.

**Requester:** The home institution/organization for the Primary Investigator (PI) that will use the requested data.

**Senior/Key Persons:** Collaborators at the home institution, and the IT Director or designee.