Expectations for Potential Trusted Partners that Store and Distribute Genomic Data for the National Institutes of Health

Trusted Partner Expectations Checklist

Data Submission		Completed by IC (include corresponding contract page numbers)	Completed by Trusted Partner Subcommittee
Policy	I. Adherence to the NIH <u>Institutional Certification process</u> for submission of data		
Technical	I. Data specifications:		
	 A. Contracts must stipulate: 1. Unrefined (e.g., prepublication) versions of individual-level data 		
	 Aggregate summary results, when they are available and clearly part of the analysis result Summary-level information of the main individual phenotype or exposure variables and any covariates Summary-level information of the genomic region(s) analyzed and factors that affect genomic properties, such as the study population, specimen tissue type, tissue origin, and developmental stage 		
	 B. Data file types and formats must include: Indication of the type and accuracy of instrument data Metadata—sufficient context and description for users to identify and obtain individual-level data of interest Methods—sufficient context and description of process used to create data (e.g., workflow, tools versions) 		
	 II. Data quality requirements: A. Contracts must describe the quality assurance process and critical quality control steps that must be performed prior to making data available for distribution or as a part of long-term data maintenance 		
	 III. Availability and resilience measures: A. Where possible, community standards should be applied to the data submission system that address factors such as: Uptime Time to recover on failure Response time to resolve information technology 		

	4. Percentage successful downloads/requests		
	Data Storage	Completed by IC (include corresponding contract page numbers)	Completed by Trusted Partner Subcommittee
Policy	 I. NIH maintains the expectation that all data accepted to the trusted partner data repository are de-identified according HHS Regulations for the Protection of Human Subjects (45 CFR 46.102(f)) and the HIPAA Privacy Rule (45 CFR 164.514(b)). The data will be provided with a random, unique code that is held by the submitting institution. 		
Technical	 I. Capacity for growth—data capacity should accommodate the anticipated needs of the project, particularly with rapid advances in technology leading to increased amounts and complexity of data; it should be evaluated by considering factors such as: A. Percentage of space used/available 		
	B. Rate of space utilization (actual vs. predicted)		
	C. Percentage of network bandwidth used		
	D. Rate of bandwidth growth		
Data Distribution		Completed by	Completed by
	Data Distribution	IC (include corresponding contract page numbers)	Trusted Partner Subcommittee
Policy	Data Distribution I. Data will be maintained through controlled access: A. Permission to access data will be requested through NIH Data Access Committees, per NIH-prescribed processes for the institutional certification of data sharing requests B. Standard telemetry will be used to communicate with NIH systems for authenticating Approved Users through the dbGaP data request process	corresponding contract page	Trusted Partner

Data Security		Completed by IC (include corresponding contract page numbers)	Completed by Trusted Partner Subcommittee
Policy	I. At a minimum, policies, procedures, controls, and standards comparable to the HHS Information Security Program to ensure the integrity, confidentiality, and availability of Federal information systems must be adopted and		
Technical	 implemented (http://www.hhs.gov/ocio/index.html) I. Security policies and procedures, which should be continually updated, must be in place that incorporate the following items at a minimum: A. Training of personnel B. Physical security of the network and system C. Physical security of the server facilities D. User authentication and activity logging Systems to track system usage Monthly reports of data input/output information E. System intrusion prevention and detection II. Documentation should be provided and reviewed at a minimum of every three years for a(n): A. Technical IT security plan B. IT risk assessment C. Federal Information Processing Standards (FIPS) 199 Standards for Security Categorization of Federal Information and Information results III. Completion of an independent Federal Information Security Management (FISMA) Act security audit and implementation of security controls or security mitigations before the status as an NIH trusted partner is authorized by the NIH IC IV. Documentation that security plans have been reviewed and approved by an appropriate organizational authority at the trusted partner location (e.g., IT Director, Dean of 		
	Research, or Chief Information Officer) Stewardship	Completed by IC (include corresponding contract page numbers)	Completed by Trusted Partner Subcommittee
Policy	 I. All data are the property of the NIH and cannot be sold, redistributed, or otherwise transferred without the authorization of the NIH¹ II. All trusted partners must comply with Section 508 of the Rehabilitation Act of 1973 regarding electronic and 		

	information technology accessibility	
Technical	 I. Contracts should document: A. Responsibilities for each party (e.g., trusted partner, NIH staff) B. Procedures for reporting and handling data management incidents C. Project close-out plans for the end of the contract period or if the contract is prematurely terminated including: 1. Description of the policy and storage facility if data are transferred to another database with NIH authorization 2. Method of data transfer and specified maximum allowable time for transfer (e.g., three months) 3. Description of data destruction procedures from institutional systems and mobile devices, if data are not retained or transferred 	

¹ Solicitation Provisions and Contract Clauses, Federal Acquisition Regulation 52.227-17 Rights in Data-Special Works (d) Release and use restrictions. Except as otherwise specifically provided for in this contract, the Contractor shall not use, release, reproduce, distribute, or publish any data first produced in the performance of this contract, nor authorize others to do so, without written permission of the Contracting Officer. (e) Indemnity. The Contractor shall indemnify the Government and its officers, agents, and employees acting for the Government against any liability, including costs and expenses, incurred as the result of the violation of trade secrets, copyrights, or right of privacy or publicity, arising out of the creation, delivery, publication, or use of any data furnished under this contract; or any libelous or other unlawful matter contained in such data. The provisions of this paragraph do not apply unless the Government provides notice to the Contractor as soon as practicable of any claim or suit, affords the Contractor's consent to the settlement of any claim or suit other than as required by final decree of a court of competent jurisdiction; and these provisions do not apply to material furnished to the Contractor by the Government and incorporated in data to which this clause applies.