2020 GA4GH Strategic Roadmap

Clinical and Phenotypic Data Capture

Deliverable Name	Projected Submission Date
Pedigree V1.0	Q3 2021
Phenopackets schema FHIR Implementation Guide V1.0	Q4 2020
Phenopackets V1.1	?

Cloud

Deliverable Name	Projected Submission Date
Cloud APIs and Interoperability ● FASP ● Deployment Kit ● Registry of known implementations ● Update existing APIs, WES, DRS, TES ● White Paper	?

Data Security

Deliverable Name	Projected Submission Date
Authentication and Authorization Infrastructure (AAI)	
Risk Assessment Methodology for Software Stacks	
Rulesets for detecting suspicious behavior	
Federated Cohort Exploration and Analysis	Q4 2021
Cloud Security and Privacy	Q4 2021
BlockChains for Query Recording	

Data Use and Researcher Identities

Deliverable Name	Projected Submission Date
Data Use Ontology V2.0	
Computable Consent Forms (Standardized Data Sharing Language Guidance: Integrating the Data Use Ontology into consent forms)	
GA4GH Passport V2.0	

Discovery

Deliverable Name	Projected Submission Date
Discovery Search API	Q2 2020
Service Registry / Service Info	Q4 2020
Beacon API V2	

Genomic Knowledge Standards

Deliverable Name	Projected Submission Date
Variant Representation V2.0	2021
Variant Annotation V1.0	Q4 2020

Large Scale Genomics

Deliverable Name	Projected Submission Date
VCF	
SAM/BAM/CRAM	
htsget API	
RNAget API	
refget API	Q4 2020
Crypt4GH	

Regulatory and Ethics

Deliverable Name	Projected Submission Date
Clinical and Familial Consent Clauses	October 2020
Standard Genomic Data Licenses and Agreements	October 2021
Participant Engagement	October 2020
GDPR Forum	Ongoing
Participant Values Survey	Ongoing