Global Alliance for Genomics & Health

GA4GH TASC: Technical Alignment Sub Committee

Minutes and Actions 2020-2026

These are the minutes for the TASC team.
TASC on GitHub: https://github.com/ga4gh/TASC

Relevant information:

- TASC Governance
- TASC issues in GitHub

Table of Contents (below)

2026 Meeting Schedule

2026 TASC Meeting Schedule - NEXT MEETING						
Date	**GMT/BST**	**ET**	**PT**	**SAST**	**AET**	**Notes**
~~**27-Jan-26**~~ **20-Jan-26**	9:00 PM	4:00 PM	1:00 PM	11:00 PM	8:00 AM (21-Jan)	Moved to 3rd Tuesday due to MFW
24-Feb-26	1:00 PM	8:00 AM	5:00 AM	3:00 PM	12:00 AM (25-Feb)	
24-Mar-26	9:00 PM	5:00 PM	2:00 PM	11:00 PM	8:00 AM (25-Mar)	
~~**28-Apr-26**~~	~~1:00 PM~~	~~8:00 AM~~	~~5:00 AM~~	~~2:00 PM~~	~~10:00 PM~~	Cancelled
26-May-26	9:00 PM	4:00 PM	1:00 PM	10:00 PM	6:00 AM (27-May)	
23-Jun-26	1:00 PM	8:00 AM	5:00 AM	2:00 PM	10:00 PM	
~~**28-Jul-26**~~	~~9:00 PM~~	~~4:00 PM~~	~~1:00 PM~~	~~10:00 PM~~	~~6:00 AM (29-July)~~	Cancelled
25-Aug-26	1:00 PM	8:00 AM	5:00 AM	2:00 PM	10:00 PM	
22-Sep-26	9:00 PM	4:00 PM	1:00 PM	10:00 PM	6:00 AM (23-Sep)	
27-Oct-26	1:00 PM	9:00 AM	6:00 AM	3:00 PM	12:00 AM (28-Oct)	
24-Nov-26	9:00 PM	4:00 PM	1:00 PM	11:00 PM	8:00 AM (25-Nov)	
15-Dec-26	1:00 PM	8:00 AM	5:00 AM	3:00 PM	12:00 AM (16-Dec)	Scheduled on 3rd Tuesday due to the holidays

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Meeting Protocols

- Please note that by participating in meetings, attendees agree to adhere to the GA4GH Standards of Professional Conduct.
- Meetings may be recorded for note-taking purposes. Recordings will be deleted within three months of the meeting taking place.

Agendas & Notes

2026-11-24: TASC Meeting

Chairs: Andy Yates, Mamana Mbiyavanga, Sasha Siegel
Attendees:

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda		5 min
2.0	Previous action items	Andy/Mamana	10 min
3.0	Review product documentation templates (Jon) • https://github.com/ga4gh/ga4gh-product_name/blob/main/docs/README.md • To be finalised next meeting		
4.0	2026 TASC Interoperability	Alex/Moni	35 min
5.0	GA4GH Technical Product Requirements	Sasha	35 min
6.0	A.O.B		5 min

2026-10-27: TASC Meeting

Chairs: Andy Yates, Mamana Mbiyavanga, Sasha Siegel
Attendees: Moni Munoz Torres, Andy Yates, Javi Castillo, Michael Baudis, Susheel Varma, Chen Chen, Angela Page, Nara Sobreira, Jeremy Adams, Jon Turner,Jimmy P, Miro Cupak, Larry Babb, Alex Wagner, Jaime Delgado, Jonathan Lawson, Jinny Park, Marc Fiume, Venkat Malladi, Reggan Thomas, Bob Freimuth, Jaime Guidry Auvil, Dashrath Chauhan

	Actions Arising	Assigned To	Deadline

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1.	Vote on Role of TASC in the PDAP - Vote here	TASC Voting Members	Next Meeting
2.	Review GA4GH Technical Product Requirements	All/ Sasha	Next Meeting
3.	Review 2026 TASC Interoperability	All/ Alex/ Moni	Next Meeting
4.	Remove technical implementation guides from ADRs where they create hard requirements	Andy	Next Meeting

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda		5 min
2.0	Previous action items • TASC workshop draft ADRs approved (14/17 votes, 76% approving, 6% abstain, 0% rejections)	Andy/Mamana	10 min
3.0	Vote: Role of TASC in the PDAP • Vote here	Andy/Mamana	5 min
4.0	DOI service	Chen	Deferred
5.0	GA4GH Technical Product Requirements	Sasha	Deferred
6.0	2026 TASC Interoperability	Alex/Moni	25 min
7.0	A.O.B		5 min

	Previous Actions Arising	Assigned To	Deadline	Status
1.	Review new GA4GH Technical Product Requirements document	All		In progress Agenda item
2.	Review 2026 TASC Interoperability	All		In progress Agenda item
3.	Build the infrastructure for PDAP reviews, including GitHub Projects for tracking reviews through assigned reviewers, and identify what can be automated	Jimmy (with Andy helping)		Completed

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	Previous Actions Arising	Assigned To	Deadline	Status
4.	Consolidate TASC directives into a PDAP cheat sheet, giving product teams a single navigable view of what is required - Blocked until 3 and technical requirements document is resolved	Sasha		Blocked
5.	Generate repository template and accompanying guidance - Needs a flow-down mechanism for changes. Larry & Alex to advise - Demo given by Jon - https://github.com/ga4gh/ga4gh-product_name/tree/main	Tech Team		In progress
6.	Agree Schema Registry's schema for implementation in the GA4GH Registry (Issue #79) - Jimmy & tech team has reviewed original content - Proposing what it'll look like integrated - Nathan needs to review https://docs.google.com/presentation/d/13uonG-YWZVaOyTIKzttFR0BYX7YATK3r382EfB2ZDHU/edit?usp=sharing	Jimmy / tech team		In progress
7.	Streamline the remaining two DaMaSC recommendations (Issues #80 and #81)	Andy/Mamana		No progress
8.	Determine next steps for Service Registry and Service Info, including geolocation with OpenTRE, and whether this constitutes a PDAP-level change or a minor release - follow-up with Miro Cupak	Tech Team		In progress
9.	Confirm owner for geolocation item - follow-up with Michael Baudis. Brought together with the previous action item 8.	Tech Team		In progress

Meeting recording:
https://us02web.zoom.us/rec/share/MQW6MmZxQXqQ1xKYGVkm1u0yZYjHWet4kRGYClPDhEaidFp12qNaiprRcZvab_yR.zEm9kO87fe0MHgIr?startTime=1793105993000
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Meeting minutes:

Summary

TASC welcomed new tech team member Javi and returning AI Work Stream co-leads Susheel and Marc. The TASC workshop draft ADRs have been approved with 76% approving. The PDAP review GitHub infrastructure was marked complete and will be tested with the first live product. The Role of TASC in PDAP vote will proceed, conditional on two wording fixes Alex raised. The group agreed that technical implementation guides should be removed as a hard-requirement product category in the ADRs, while keeping “should”-level guidance in the interoperability doc. The goal is to finalize the technical requirements and interoperability documents at the November 24 meeting.

Introductions

- Javi Castillo-Arnemann has joined the GA4GH tech team. He will support and lead the Schema Registry work alongside Jimmy.
- Susheel Varma and Marc Fiume, AI Work Stream co-leads, are rejoining TASC

Previous action items

PDAP review infrastructure

PDAP review infrastructure is complete. Andy demoed a private GitHub repo now shared with the TASC team. It includes issue templates for review requests, concerns, sign-off, community comments and triage, and vulnerabilities. It also has labels for track, needs-info, tier, status, and type, plus a “PDAP Reviews” project board. A reviews folder holds one review document per product, organized by stage (triage or checkpoint) and by track (TASC, DSWS, REWS, or AI). Setup scripts generate the repo, so it can be torn down and rebuilt easily.

The group agreed to test the repo live with the first product instead of doing a formal review first. Bob stressed that only the tooling should change during the test, not decisions about products. Sasha noted that the governance decision points are in the Role of TASC in PDAP document, which deserves careful review.

PDAP cheat sheet: Blocked, low priority

Work on the cheat sheet blocked until the three PDAP-related documents, especially the technical product requirements doc, are finalized.

GitHub repository template for new products

- The structure is in place and needs confirmation. A tool for keeping multiple repos in sync is still being selected.
- Michael asked about documentation guidance. The plan is a docs folder in each repo, supporting standard formats such as RST and Markdown. A docs.ga4gh.org subdomain

would aggregate and index docs from all repos. Beacon already uses MkDocs with Markdown.
- Beacon will be transferred into GA4GH with a V2 folder set up. Jimmy will check with Jon on how implementation repos may differ from product repos.
- Sasha asked for a focus group on the template, using the Beacon migration as a live test. This is urgent: the template needs to be solid within about two weeks to coincide with the PDAP launch.

Schema Registry
Javi will lead this work. The team is waiting on suggestions from Nathan.

Issues #80 and #81
Andy and Mamana will follow up with owners for recommended ontologies and vocabularies (issue #80) and data model best practices (issue #81).

Geolocation in service-info / service registry
- Venkat's PR is not merged yet. Jimmy has reviewed it, but it still needs proper versioning, and Michael will review it as well.
- Michael raised an open question: should geolocation be registered as a standalone GeoJSON-subset schema that service-info references, so other standards can reuse it? He is fine either way.This will be followed up at the next meeting.

The TASC workshop draft ADRs have been approved with 76% approving.

Role of TASC in PDAP (Vote)
Mamana made a clarifying edit before the meeting so the private TASC GitHub repo language matches the interoperability doc. Alex raised two issues:
1. Tier 3 "external audit for interoperability traps" isn't defined anywhere. The PDAP mentions external ethics and security audits but doesn't define them. The group agreed to reword this as "external audits as defined by the PDAP," which avoids adding new content that would require a revote.
2. Tier 2 mitigation at Checkpoint 1 currently says the mitigation "should" establish why a risk belongs in Tier 1 or Tier 3. The group agreed to change this to "must."

The vote will proceed as approved subject to these edits. Anyone who hasn't voted yet should review and vote.

Deferred Items
- DOI service demo (Chen) deferred to future meeting
- The technical product requirements document was postponed because few people had reviewed it. Everyone asked to review it before the next meeting. Sasha has consolidated all technical requirements into this single document, and ADR references in other documents should eventually point to it instead.

Interoperability Document (Alex, Moni)

This is now a complete draft. Updates presented:

- Background section: Dated references, such as schema blocks in the 2020 gap analysis, were generalized while keeping the core finding.
- Three layers of interoperability: Revised from the workshop synthesis and reframed using a System A / System B model.
- Interoperability profiles: Defined for each technical specification type in the product taxonomy (APIs, data models, ontologies, protocols). Alex confirmed that all GA4GH APIs use JSON over HTTP, with minor exceptions such as refget's plain-text sequences and WES multipart forms. Moni asked reviewers to flag any profiles that don't seem intuitive.

New Section 2.4: Resources (starter kits, conformance suites, technical implementation guides)

- This section uses "should" rather than "must," because the product taxonomy says resources are not subject to review.
- Reference cloud: Venkat asked whether it belongs here. Sasha said it isn't needed, since moving a starter kit onto the reference cloud is a tech team handoff.
- Aging starter kits (e.g., DRS at 1.2/1.3): The requirements apply to new products, because enforcing them backward would be impractical. The tech team is contacting owners of older starter kits to update them on a goodwill basis. The technical requirements doc already has language on keeping starter kits current with minor versions.
- Technical implementation guides: The taxonomy says resources need no review, yet the ADRs list technical implementation guides with approval requirements. Andy explained that he had copied the website taxonomy into the ADR template.
    - Bob raised whether multiple implementation guides for the same spec need to be consistent with each other. He also noted that they can span several products and will often be written after those products are released.
    - Susheel distinguished product documentation, which should be reviewed, from context-dependent implementation guides, which should not.
    - Venkat suggested leaving implementation upkeep to product owners, with TASC acting as a sounding board when interoperability questions come up.
    - Decision: Strike technical implementation guides from the ADRs wherever they create hard requirements, and keep the current "should"-level guidance in the interoperability doc.

Section 3, which holds most of the directive content, was not covered and will be reviewed asynchronously.

Next Meeting

November 24, 2026. The goal is to finalize the interoperability document and the technical product requirements document, which completes TASC's role in the PDAP. This will be Sasha's last TASC meeting for a few months. Andy, Mamana, and the group can finalize the documents without her if needed.

2026-09-22: TASC Meeting

Chairs: Andy Yates, Mamana Mbiyavanga, Sasha Siegel
Attendees: Jon Turner, Venkat Malladi,Nara Sobreira,Jimmy Payyappily,Tom Conner,Jeremy Adams,Chen Chen, Bob Freimuth,Reggan Thomas,Alex Wagner, Larry Babb

	Actions Arising	Assigned To	Deadline
1.	Vote on draft ADRs - **Vote here**	TASC Voting Members	Next Meeting
3.	Review Proposal on TASC's role in the PDAP	Mamana/ All	Next Meeting
2.	Review new GA4GH Technical Product Requirements document	All	Next Meeting
4.	Review 2026 TASC Interoperability	All	Next Meeting

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda		5 min
2.0	Previous action items (from the workshop)	Andy/Mamana	10 min
3.0	Review TASC directives documents • draft ADRs - **Vote here** • GA4GH Technical Product Requirements • 2026 TASC Interoperability • Proposal on TASC's role in the PDAP #PR101		70 min
4.0	A.O.B		5 min

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	Previous Actions Arising	Assigned To	Deadline	Status
1.	Review the GA4GH Technical Product Requirements document and add comments - to be polished ahead of Plenary to put out for open comment	Andy	**18 September**	Agenda item
2.	Review the Proposal on TASC's role in the PDAP #PR101 and add comments - to be polished ahead of Plenary to put out for open comment	Andy	**18 September**	Done
3.	Review the 2026 TASC Interoperability document and add comments - to be polished ahead of Plenary to put out for open comment	Andy	**18 September**	Agenda item
4.	Review the draft ADRs - edit directly or raise PRs	Andy	Next meeting	Done
5.	Review the 2026 TASC Workshop Meeting Report		Friday, 28 August	Done
6.	Build the infrastructure for PDAP reviews, including GitHub Projects for tracking reviews through assigned reviewers, and identify what can be automated	Jimmy (with Andy helping)		Ready
7.	Consolidate TASC directives into a PDAP cheat sheet, giving product teams a single navigable view of what is required - Blocked until 5 is resolved	Sasha		Blocked
8.	Generate repository template and accompanying guidance - Needs a flow-down mechanism for changes. Larry & Alex to advise - Demo given by Jon - https://github.com/ga4gh/ga4gh-product_name/tree/main	Tech Team		In progress
9.	Agree Schema Registry's schema for implementation in the GA4GH Registry (Issue #79) - Jimmy & tech team has reviewed original content - Proposing what it'll look like integrated - Nathan needs to review	Jimmy / tech team		In progress

	Previous Actions Arising	Assigned To	Deadline	Status
	https://docs.google.com/presentation/d/13uonG-YWZVaOyTlKzttFR0BYX7YATK3r382EfB2ZDHU/edit?usp=sharing Case point from Larry *BTW - we should begin to socialize here and throughout the GA4GH community the re-organization and branding of resources related to the GKS work stream.* *For example, we have been using the acronym GKS for both the work stream and the suite of schema products (VA, VRS, Cat-VRS). But now that the GKS work stream is expanding to include File Formats and other products we are rebranding the schema products (VA, VRS, Cat-VRS) under the brand Genomic Knowledge Model (GKM).* *Apologies for the confusion, but I would ask others to try to use GKS for work stream and GKM when referring specifically to the schema suite of products.* *It would be nice to make some type of small but impactful campaign for this over the next couple of months (website, plenary, connect) to get everyone shifted. We have started to rebrand the documentation and products already.*			
10,	Streamline the remaining two DaMaSC recommendations (Issues #80 and #81)			No progress
11.	Determine next steps for Service Registry and Service Info, including geolocation with OpenTRE, and whether this constitutes a PDAP-level change or a minor release - follow-up with Miro Cupak	Tech Team		Will wrap up this week
12.	Confirm owner for geolocation item - follow-up with Michael Baudis. Brought together with the previous action item 10.	Tech Team		Will wrap up this week

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Meeting recording:
https://us02web.zoom.us/rec/share/w0lIYiFhu07KUGBZnXMjG0XD1kuh1iNt4sjkbaylUIpQ2BIUJ4tFm6P0TOA2x4TU.KSrVrBfQcVweirbR?startTime=1790107008000

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Meeting minutes:

Summary
The group agreed that voting on the workshop-derived ADRs will happen offline. How ADRs work was also clarified: a vote confirms that an ADR accurately reflects the decision and moves it from Proposed to Accepted, and the date field records the approval date. Sasha walked through her redrafted technical product requirements document. The walkthrough raised several issues: the TASC repo structure is inconsistent, a product taxonomy was found and could be added to the PDAP, and "product owner" and "product lead" are used inconsistently. Of the three draft documents, the Role of TASC in the PDAP is the most polished and the highest priority. The interoperability document isn't ready yet. The goal is to have all documents finished enough to circulate within about a month.

Previous action items
Reviewing the technical product requirements and the proposal were both covered under today's agenda. Jinny shared the workshop report with the GA4GH community, and Sasha will add a QR code linking to it in her plenary talk.

Jimmy and Andy have finished the first part of the GitHub setup work. There are still open questions about how to use GitHub Projects for tracking.

Sasha's cheat sheet item was blocked until the technical requirements document was settled. She now proposes two documents: the technical requirements document as a complete list of requirements, and the cheat sheet as the process guide explaining when in development each requirement applies.

Jon has completed the licensing work. Rolling out template repositories is still in progress and will resume after the plenary. Jimmy's consultation with the Schema Registry team is also in progress, and he plans to meet with them at the plenary. Older action items from earlier meetings remain postponed, given the urgency of the PDAP work.

ADR voting and process
Few voting members were present, so the group agreed to do all voting offline. Sasha has read all the ADRs and considers them non-controversial, since they are based on the workshop summary.

Larry asked what acceptance actually means and who is responsible for enforcing ADRs once they're official. Sasha said the relationships between issues, ADRs, and finalized directives feel muddy.

Andy explained that ADRs formally record significant group decisions. Cross-linking to related recommendations and governance documents is encouraged, and ADRs can later be superseded or withdrawn. Bob described the lifecycle this way:

1. A meeting decides an ADR is needed.
2. A draft is written and marked Proposed.
3. Once reviewed and voted on, it becomes Accepted and active.
4. Later status changes, such as deprecated or superseded, are noted with a pointer to whatever replaces it.

For these workshop ADRs, the vote confirms that each ADR accurately represents what TASC agreed at the workshop, given the time that has passed since then.

Sasha noted that ADRs 001 to 005 still show Proposed and should be updated to Accepted. Andy agreed this had likely been missed.

ADR dates, naming, and linking
The group discussed whether ADRs need a separate "decision date" in addition to the document date. Andy looked at how RFCs handle this: they use the date the document is frozen. The group agreed the single date field should be the approval (vote) date. Background such as where a decision was first discussed belongs in the narrative section, ideally with links to meeting notes.

Bob added that each lifecycle status change should record a date and a pointer to the rationale. Andy noted that RFCs track this information separately in an external database. He agreed that if TASC keeps it within the ADR rather than tracking it elsewhere, those fields are needed. Sasha pointed out that the ADR template calls for a short description in each title, but current ADRs don't have one, which makes them hard to navigate. Mamana agreed they should be renamed.

Mamana raised that ADR 006 refers to a policy document by name only, with no link. The group agreed it's acceptable to update an ADR later to add links to finalized directives, because that doesn't change the decision itself. Andy suggested the template explains how to format an ADR but not how ADRs function, so some guidance on that would help.

Status of draft documents
Interoperability document: Not ready for comment. It hasn't been worked on in a while and is incomplete. Getting it somewhat wrong at first is acceptable, but it needs to at least be a complete document.

Role of TASC in the PDAP: Very polished and thorough. This is the top priority because the PDAP is the least changeable part of the work. Sasha proposed using the next meeting as a working session to go through it and finish it. Mamana asked for comments before the plenary. He also plans to summarize the tiering section and cross-link it to the interoperability document to avoid duplication.
Technical product requirements: Sasha's new draft expands the document to cover all current requirements, grouped into different categories. The draft also includes a list of open items at the bottom.

Issues raised from the technical requirements work
Repo structure: Some directives, such as pagination and service info, live outside the recommendations folder that the repo structure says they belong in. Andy separated these into two groups:

- Namespace resolver, group acronyms, and service info each have a README plus a data payload. Service info and group acronyms already have accompanying recommendations, but namespaced identifier registration doesn't.
- Persistent URLs have no accompanying data, so they should become a recommendation.

Andy also noted that the README has fallen behind the current repo, and that identifiers like "ADR001" don't help navigation. Whatever the final format, the document and the repo need to stay in sync so they don't drift apart over time.

Product taxonomy: Sasha found an unfinished taxonomy document with definitions of product types, commented on over roughly six years. She proposed adding the technical product types to the PDAP and dossier. Andy considers this the most pressing item because it defines TASC's scope.

- Policy types are out of scope for TASC.
- Andy questioned whether "technical implementation" is in scope, since its only example is the machine-readable consent guidance, which he thinks may belong with DUO.
- Andy suggested publishing the full taxonomy in the PDAP, but agreed the technical definitions need TASC review

Proposed new requirements: (Neither of these is written down anywhere yet)

- Released versions must keep resolving.
- Conformance suites must be kept in step with releases, such as patch releases.

Other items:

- The referenced template hasn't been built yet and must be finished before documents go out.
- The PDAP says "product lead" while TASC documents say "product owner." Sasha's view is to change the TASC documents to "product lead," to match the work stream lead and co-lead terminology.

- A process layer is missing, which the cheat sheet should provide.

Compliance visibility in the dossier
Sasha noted that TASC only checks interoperability, through the tiering process, and doesn't police compliance with every directive. She suggested adding a checklist to the dossier where product teams confirm compliance with each directive. This would make the requirements visible to both teams and reviewers and help avoid later disputes of the "we didn't know about this directive" kind.

Repo restructuring
Andy and Mamana were given authority to restructure the TASC repo as they see fit. They'll try to share plans in advance, and people should raise concerns if something looks wrong. Sasha will update other documents once the changes are made.

2026-08-25: TASC Meeting

Chairs: Andy Yates, Mamana Mbiyavanga, Sasha Siegel
Attendees: Jon Turner, Nathan Sheffield, Larry Babb, Angela Page, Jimmy Payyappilly, Venkat Malladi, Alex Wagner, Miro Cupak, Bob Freimuth, Dash Chauhan

	Actions Arising	Assigned To	Deadline
1.	Review the GA4GH Technical Product Requirements document and add comments - to be polished ahead of Plenary to put out for open comment	All	**18 September**
2.	Review the Proposal on TASC's role in the PDAP #PR101 and add comments - to be polished ahead of Plenary to put out for open comment	All	**18 September**
3.	Review the 2026 TASC Interoperability document and add comments - to be polished ahead of Plenary to put out for open comment	All	**18 September**
1.	Review the draft ADRs - edit directly or raise PRs	All	Next meeting
4.	Review the 2026 TASC Workshop Meeting Report	All	Friday, 28 August

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	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda		5 min
2.0	Previous action items (from the workshop)	Andy/Mamana	10 min
3.0	Review TASC directives documents • **GA4GH Technical Product Requirements** • **2026 TASC Interoperability** • Proposal on TASC's role in the PDAP #PR101		70 min
4.0	A.O.B • Please review 2026 TASC Workshop Meeting Report draft by Friday, 28 August		5 min

	Previous Actions Arising	Assigned To	Deadline	Status
1.	Generate one ADR for each of the four approved decisions on product requirements	Andy		Done
2.	Generate ADR for the interoperability framework	Andy		Done
3.	Generate ADR for the role of TASC in the PDAP: what we do and what to expect from TASC	Andy		Done
4.	Generate ADR for the PDAP Technical Product Dossier Section 5.4 decisions	Andy		Done
5.	Build the infrastructure for PDAP reviews, including GitHub Projects for tracking reviews through assigned reviewers, and identify what can be automated	Jimmy (with Andy helping)		Ready
6.	Consolidate TASC directives into a PDAP cheat sheet, giving product teams a single navigable view of what is required - Blocked until 5 is resolved	Sasha		Blocked
7.	Generate repository template and accompanying guidance - Needs a flow-down mechanism for changes. Larry & Alex to advise - Demo given by Jon - https://github.com/ga4gh/ga4gh-product_nam	Tech Team		In progress

	Previous Actions Arising	Assigned To	Deadline	Status
	e/tree/main			
8.	Agree Schema Registry's schema for implementation in the GA4GH Registry (Issue #79) - Jimmy & tech team has reviewed original content - Proposing what it'll look like integrated - Nathan needs to review https://docs.google.com/presentation/d/13uonG-YWZVaOyTlKzttFR0BYX7YATK3r382EfB2ZDHU/edit?usp=sharing Case point from Larry *BTW - we should begin to socialize here and throughout the GA4GH community the re-organization and branding of resources related to the GKS work stream.* *For example, we have been using the acronym GKS for both the work stream and the suite of schema products (VA, VRS, Cat-VRS). But now that the GKS work stream is expanding to include File Formats and other products we are rebranding the schema products (VA, VRS, Cat-VRS) under the brand Genomic Knowledge Model (GKM).* *Apologies for the confusion, but I would ask others to try to use GKS for work stream and GKM when referring specifically to the schema suite of products.* *It would be nice to make some type of small but impactful campaign for this over the next couple of months (website, plenary, connect) to get everyone shifted. We have started to rebrand the documentation and products already.*	Jimmy / tech team		In progress
9.	Streamline the remaining two DaMaSC recommendations (Issues #80 and #81)			No progress

	Previous Actions Arising	Assigned To	Deadline	Status
10.	Determine next steps for Service Registry and Service Info, including geolocation with OpenTRE, and whether this constitutes a PDAP-level change or a minor release - follow-up with Miro Cupak	Tech Team		Will wrap up this week
11.	Confirm owner for geolocation item - follow-up with Michael Baudis. Brought together with the previous action item 10.	Tech Team		Will wrap up this week

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Meeting minutes:

Summary
The meeting reviewed the outcomes of the July workshop. Seven ADRs are now drafted and awaiting approval. Progress was reported on the repository template and the GA4GH registry. Andy proposed to loosen the subdomain ADR so it no longer implies a subdomain per product. The group confirmed that the new requirements apply only to products going through PDAP v2, with older products labelled by the version they were approved under. Mamana presented the draft directive on the role of TASC in the PDAP and Alex presented the interoperability framework, both open for comment until the next meeting. Angela confirmed PDAP v2 will likely launch January 2027.

Previous action items (from the workshop)
ADRs
Andy drafted seven ADRs, now merged into the TASC repository and sitting in the drafts folder, not yet approved. Four capture the workshop decisions: every technical product needs a conforming GitHub repository, a starter kit and a conformance suite, and GA4GH product and topic websites must be served from a GA4GH subdomain. The other three cover the technical product requirements, the interoperability framework, and the role of TASC in the PDAP. A further ADR mandates a robot account for reviews. The group should read the drafts and either edit directly or raise a PR.

Jimmy and Andy will build the PDAP review infrastructure. Sasha will consolidate the directives into a cheat sheet, blocked until that infrastructure exists.

Repository template

Jon demonstrated the first attempt, which contains a README, licence files and folders, all delete-as-necessary depending on product type. The outstanding piece is the flow-down mechanism for propagating master changes to derived repositories. Larry handed his Hinxton research to Jon and will advise alongside Alex, cautioning that it involves fine-grained decisions about how much control TASC wants over repository structure.

Venkat asked whether GA4GH wording is needed in the licences or copyright headers. Only Apache appears in the current policy, which works for code but is limiting for non-software products needing something like CC BY. Sasha and Angela will review it. Andy cited SAMtools as a case where code and specification licensing differ.

GA4GH registry

The Tech Team has reviewed the DaMaSC work and is proposing how it integrates into the GA4GH registry. Jimmy presented the registry: it holds standards, implementations, schemas, organisations and people, subsuming the current service and implementation registries. The DaMaSC spec is reusable, with a UI built around it. Persistence covers metadata and customised organisational extensions, though the depth accepted must be baselined for the pilot.

Open questions include what is persisted, accepted submission formats, manual versus automated validation, and gatekeeping to verify submitters are product leads. Pilot scope is GA4GH namespaces only and will inform the roadmap.

Alex asked whether sequence collections and the GKS schemas are in scope; Jimmy confirmed all GA4GH schemas are included. Alex followed up on whether schema elements supporting formal standards but sitting outside the product repository are covered. Andy noted GKS Core is a fundamental building block.

Service registry, service-info and geolocation

The service registry supports geolocation, but the intent was to fold it into service-info; the team awaits direction from TASC. Andy framed it as a release question: optional makes it a point release, mandatory changes the payload contract and makes it a major release. Miro and Jimmy will connect this week.

GKS and GKM naming

Larry raised that GKS is now the work stream name, with GKM (Genomic Knowledge Model) adopted for the schema products. Larry will speak to Beatrice and Angela about a mini-campaign covering the website and plenary. Alex clarified GKM groups the core schema specs and GKS Core under one umbrella, which helps the starter kit work.

AOB

Comments on the TASC workshop meeting report are due this Friday. Publication is targeted for early September, ahead of the plenary.

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Review of TASC directives document

Technical product requirements

The repository requirement is in progress with action items attached. Jon confirmed there is no theoretical limit on subdomains, but management is the constraint, since Sanger's web team and IDS handle them and Tech Team applications already occupy that space. He proposed dropping product subdomains in favour of a single docs subdomain. Alex agreed but asked that rendering be proven first. Andy wants the ADR made less constrained, removing the product-subdomain example.

Starter kits are minimal scaffolding required for every technical product, with a reference implementation able to serve as one; acceptance criteria still need to come out of ADR 10. Conformance suites are tests derived from the specification and behaviours. Andy considered the document fine as it stands.

Retroactivity for existing products

Alex noted there is no mechanism to apply the requirements retroactively. Andy confirmed an ADR defers backwards review to the future, since retrofitting would halt development on existing products. Sasha added that the changes required would often diverge an old product into a new one, and many lack current owners. Alex identified the hard case as actively developed products under the old PDAP that are not heading for a major version. The agreed position is to label each product with the PDAP version it was approved under, signalled on the website.

Role of TASC in the PDAP

Mamana presented the draft directive. Product teams must address TASC's concerns, TASC does not write the decision record, and TASC focuses on technical alignment rather than whether a product proceeds.

Responsibilities cover reviewing the dossier at each checkpoint, assigning a tier for interoperability risk, producing a single consolidated report, and arbitrating cross-product conflicts. TASC does not make the gate decision (the independent review panel's role), police the whole dossier, or complete dossiers and conformance suites. Further sections cover lifecycle engagement points, tier definitions, accountability and a scope table.

Comments are due by the next meeting.

PDAP v2 timeline

Angela reported that operationalisation is unlikely before January 2027, so the plan is to signal direction now and target launch then. Sasha agreed, noting it allows time for the tiering work from other foundational work streams.

Interoperability framework

Alex presented the document capturing the July workshop outcomes. It defines interoperability as the ability of two or more autonomous systems, applications or components to securely,

reliably and efficiently exchange data and subsequently use it without custom, ad hoc integrations, across syntactic, semantic and behavioural/pragmatic layers.

The section on interoperability by standard type uses the GA4GH website categories and is currently placeholders, to be filled in with product teams. Starter kit language has moved into the PDAP requirements, so the document will reference those ADRs.

Development paths separate three cases: new products, which follow PDAP v2; inactive products, labelled with their approval version; and existing active products, where work stream leads will agree alignment plans without imposing hard requirements until they transition.

Review will be asynchronous, brought forward at the next meeting, with the goal of turning it into a directive.

2026-07-28: TASC Meeting: Cancelled

Chairs: Andy Yates, Mamana Mbiyavanga, Sasha Siegel
Attendees:

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda		5 min
2.0	Previous action items	Andy/Mamana	10 min
3.0	TASC template to be ready - https://github.com/ga4gh/TASC/issues/81 - https://github.com/ga4gh/TASC/issues/92 - https://github.com/ga4gh/TASC/issues/91 - https://github.com/ga4gh/TASC/issues/94 - https://github.com/ga4gh/TASC/issues/90 - https://github.com/ga4gh/TASC/issues/89 - https://github.com/ga4gh/TASC/issues/79		70 min
4.0	A.O.B		5 min

2026-06-23: TASC Meeting - TASC workshop prep

Chairs: Andy Yates, Mamana Mbiyavanga, Sasha Siegel
Attendees: Jon Turner, Venkat Malladi, Alex Wagner, Miro Cupak, Jimmy Payyappilly, Bob Freimuth, Michael Baudis, Larry Babb, Dashrath Chauhan, Nara Sobreira, Francesca Frexia

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	Actions Arising	Assigned To	Deadline
1.	Reach out to the nominated candidates for the Verified Implementations session	Andy	Prep for TASC workshop - please share any materials a week prior to the workshop
2.	Seed the Session 0 / Session 1 discussion on TASC's role in the PDAP with prior notes and options	Andy, Mamana, Sasha	
3.	Put together a short written proposal on cross-product interoperability (Issue #66)	Venkat, Alex	
4.	Send out the current diagram/list of maintenance-mode terminology	Jon	
5.	Provide Francesca and Andy with the required metadata for the citing standards document	Jimmy	
6.	Reach out to Beacon / DURI leads about moving their repos into GitHub and request collaborator/admin access (Issue #54)	Jimmy	
7.	Draft a proposal for harmonizing product documentation URLs / subdomains across GA4GH for group review (Issue #85)	Jon	
8.	Review PDAP	All	

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda		5 min
2.0	Previous action items	Andy/Mamana	10 min
3.0	TASC workshop prep - triage issues & assign owners to do prep work Agenda here: 2026 TASC Workshop Agenda Items in agenda: • TASC role in PDAP (Owner: TBD - Alex, Larry, Melissa?) • Interoperability in PDAP (Owner: TBD - Moni/Alex?)		70 min

	• PDAP templates (Owner: Sasha)
	• Issue #49 - Moving standard to maintenance mode - documentation (Owner: Andy) + State diagrams (Owner: Bob)
	• Issue #39 - Citing GA4GH standards (Owner: Andy)
	• Issue #54 - GitHub Harmonisation (Owner: Tech team)
	• Issue #74 - Verified implementations of GA4GH products (Owner: Andy)
	
	Other:
	• Issue #67 - Geolocation and Service Registry: (Owner: Jimmy)
	• Issue # 66 - Interoperability points across products (Data Types) - (Owner: Bob)
	• DaMaSC issues
	• Issue #16 - GA4GH Namespace Policy
	  ○ #16 Subtask - develop resolver service
	  ○ #16 Subtask - transfer ownership of computed digest to TASC
	• Issue #64 - Align practices in product development across work streams
	• Issue #68 - Create standard glossary of terms
	• Issue #83 - Inverting relationship for registering identifier prefixes		

5.0	AOB		5 min

	Previous Actions Arising	Assigned To	Deadline	Status
1.	Send any “last mile” issues to Andy, Mamana, and Sasha for TASC workshop	All	June 15	Done
2.	Review draft PDAP - arrive with concrete views for TASC interoperability requirements	All	TASC workshop	In progress
3.	Nominate candidate products for Verified Implementations Track 1 (Karen). Approach Track 2 candidates (ELIXIR -Venkat; DECIPHER - Sasha).	Karen, Venkat, Sasha, Andy		Workshop item

	Previous Actions Arising	Assigned To	Deadline	Status
3.	Review & comment on issue #66 - Interoperability points across some of our products • Moni aggregated info on current efforts: Beacon + PXF, PXF←→OMOP, PXF ←→ FHIR, GKS ←→ Clin/Pheno Interop, etc.	All		In progress
5.	Review Citing GA4GH Standards Recommendation and add comments	All		Workshop item

Meeting recording:
https://us02web.zoom.us/rec/share/pPdLsYhkrH-GK3PefzWLDd7bTYQxd5O021nqEFnBJvKdOWYJ4YW1nZ00NAcf_ggj.QUjQGmgWFe36BdaV?startTime=1782215870000

Passcode: g=mT&1*B

Meeting minutes:

Summary

The meeting focused on preparing for the upcoming in-person TASC workshop. The largest workshop item is defining TASC's requirements for the new PDAP, where TASC is now part of the formal review. The group will work on defining these requirements alongside the broader governance question of what interoperability across GA4GH products should look like. Other issues in the workshop agenda include moving standards into maintenance mode, finalising the citing GA4GH standards recommendation, GitHub harmonisation and documentation across products, the verified implementations framework, and wrap-up sessions covering new issues and planning for Plenary and Connect.

Previous action items

Workshop issues
No submissions were received for issues for the TASC workshop, so the leads have gone ahead and prioritised items. Anyone who did submit something, or still wants to suggest items, should flag it.

From chat (Michael):

- *geolocation & service-info as core GA4GH standards*
- *monitoring of non GA4GH repos (ga4gh-beacon …); and then non-Github ones (e.g. we have moved bycon to codeberg.org - because GH shouldn't be trusted etc… <<== European opinion)*

- *… does TASC envision using standard (re-)approval process to e.g. force repository consolidation (under /ga4gh/)?*
- *Common data elements … or "blocks"? :-)*

PDAP review

Andy flagged that the document is thin on TASC's role in the approval process. Michael relayed Beacon-side feedback that it is unclear how the process plays out for a given product, particularly where a major revision of an established product enters. Andy noted the draft is deliberately less stringent than before, and the group must avoid enabling actions that cannot be retrofitted.

Issue #66

No comments had been logged on Issue 66, which was created back in July 2025. Alex noted there had been a related interoperability session at the last Connect and progress on schema-registry work, so relevant activity may simply not be captured in the issue. Bob explained the issue grew from early work on primitive-level common data types and argued the broader question must first be settled at a governance level: what interoperability across GA4GH products should look like and TASC's role.

Alex described the practical driver: GKS implementers using GKS products alongside other products (e.g. Clin/pheno-type) have to write multiple parsers for conceptually overlapping but differently modelled data, and the goal is common data elements so implementers can write one parser instead of two or three. Venkat asked whether this could be championed as a driver project or a GIF, and whether any real-world driver project is hitting these friction points and could lead it. Bob suggested the Implementation Forum, and identifying adopters orchestrating multiple GA4GH products, as a way in. The group agreed the immediate next step is to get a written proposal on paper, and to revisit how this fits into the workshop agenda.

Citing GA4GH standards recommendation

Francesca drafted the material and Andy converted it to the required format and created four ADRs. He asked the group to review at the workshop whether the document represents the group's position and whether the ADRs are standalone and correctly scoped.

TASC workshop prep

Sessions 0 - 4 (July 7,8) - PDAP work

Session 0 leads into the PDAP discussion, which carries into Day 2. Session 1 covers "what role should TASC have in the PDAP," and will be owned by Alex, Larry, and Melissa. Sessions 1 and 2 have been suggested to be swapped so the interoperability discussion comes first and provides better context, since it is hard to define roles before the underlying activities are clear. Bob noted Session 0 has spare time and recommended seeding the discussion with prior notes to drive to a conclusion. He suggested using 20–30 minutes of Session 0 to brainstorm as a

group. Mamana suggested also using the opening session to refresh the group on TASC's founding purpose around interoperability and technical alignment.

Andy clarified that TASC is named throughout the approval process: interoperability between two implementations as evaluated by TASC, risk-tier assignment, triage, a questionnaire, and standards reviews. The document currently does not define this, so the group will need to work together to define it.

Alex observed that Sessions 1, 2, and 3 are thematically related and that Session 4 (open block) can be used for discussion. The group broadly agreed Day 1 could be framed around this connected topical area, with introductory discussion in the morning and formal outcomes in the afternoon.

Session 5 - moving standards into maintenance mode
Previous attempts stumbled on what “maintenance mode” actually means and the implications of signalling that a standard is no longer actively supported. Jon reported that he and Stephanie have built out terminology based on Bob’s diagrams and mainly need the group to confirm and agree on the definitions. Jon will own this item and circulate the diagram or list ahead of the meeting.

Session 6 - citing GA4GH standards
Francesca suggested adding a list of the required metadata, and example tables or use cases showing what values the metadata can take. The documents will stay in draft until approved. Andy will add Francesca as a collaborator, move the documents to draft, and notify the group when ready for PR. Jimmy will supply the required metadata.

Session 7 – GitHub harmonisation and documentation
Jimmy highlighted some DURI and Beacon repos are still outside the GA4GH GitHub, so their data does not flow into the dashboard. Jimmy will reach out to those leads to get permission to move them and to be added as collaborator/admin, aiming to have this at least partially resolved before the session, followed by discussion of repo structure and best practices. The tech team will also present work on the three main projects to gather feedback, refine the roadmap, and preview what will be presented at plenary. Issue #85 - Jon will draft a proposal to harmonise product documentation URLs/subdomains across GA4GH for uniformity.

Session 8 – Verified implementations
The framework, as discussed last meeting, is written so it does not mandate Level 2 or Level 3 approvals, only Level 1 approval, with the other levels presented as a pathway. Andy will make the necessary contacts, progressing Prioritisation 1, and posting an update on the GitHub channel when it comes in.

Sessions 9–10 – Wrap-up, new issues, and forward planning

The wrap-up is the last chance to capture critical items. Bob suggested splitting the final session into a near-term plenary plan and a fuller Connect focus with larger milestones.

2026-05-26: TASC Meeting

Chairs: Andy Yates Mamana Mbiyavanga, Sasha Siegel
Attendees: Venkat Malladi, Moni Munoz Torres, Karen Cranston, Alex Wagner, Nara Sobreira, Larry Babb, Brian Connor, Jimmy Payyappilly ,Nathan Sheffield,Dash, Jaime Guidry Auvil, John Marshall, Reggan Thomas, Bob Freimuth, Jonathan Lawson

	Actions Arising	Assigned To	Deadline
1.	Send any “last mile” issues to Andy, Mamana, and Sasha for TASC workshop	All	June 15
2.	Review draft PDAP - arrive with concrete views for TASC interoperability requirements	All	TASC workshop
3.	Nominate candidate products for Verified Implementations Track 1 (Karen). Approach Track 2 candidates (ELIXIR -Venkat; DECIPHER - Sasha).	Karen, Venkat, Sasha, Andy	

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda		5 min
2.0	Previous action items	Andy/Mamana	10 min
3.0	Connect recap - Verified Implementations next steps	Andy	15 min
4.0	GA4GH Registry discussion - Schema registry/ service registry relationship?	Sasha	15 min
5.0	TASC workshop items	Sasha	25 min
6.0	Identifier prefixes https://github.com/ga4gh/TASC/pull/82 https://github.com/ga4gh/TASC/issues/83		Postponed
7.0	AOB • Call for expressions of interest: participate in the dbGaP FHIR API Initiative (NCBI/NIH)		5 min

	○ Looking for those who are interested in aligning FHIR-based data models and APIs with GA4GH standards and best practices. If you are interested please email beatrice.amos@ga4gh.org. Email with more details was sent on April 30, so please check your inboxes.Thanks! ● Items from Brian: ○ Upcoming deadlines for 1) GIF co-lead and 2) GIF projects both June 30th… please spread the word to your work streams/driver projects/implementers ○ Related, there are several GIF project draft proposals looking for drivers/implementers to join if interested, share with anyone you think would be interested, consider joining if you're interested ■ Federated AI/ML analysis draft ■ Agentic researcher draft		

	Previous Actions Arising	Assigned To	Deadline	Status
1.	Compile and post all relevant docs, slides, and materials on ontology and data models to the corresponding GitHub issues https://github.com/ga4gh/TASC/issues/80 https://github.com/ga4gh/TASC/issues/81	Karen	Next Meeting	Done, see issues in column 1
2.	Vote: 1. Format, placement, and communication standards of TASC approved recommendations (89% members voted; 83% approved) 2. Schema Registry (89% members voted; 72% approved)	TASC Voting Members	April 24	Done (Approved)
3.	Review & comment on issue #66 - Interoperability points across some of our products ● Moni aggregated info on current efforts: Beacon + PXF, PXF←→OMOP, PXF ←→ FHIR, GKS ←→ Clin/Pheno Interop, etc.	All		In Progress
4.	Transfer Service Info/Service Registry repo to Tech Team	Tech Team		Completed

	Previous Actions Arising	Assigned To	Deadline	Status
	- Service Info, Service Registry, and Data Connect spec repos moved into GA4GH org - https://github.com/ga4gh/ga4gh-service-info - https://github.com/ga4gh/ga4gh-service-registry - https://github.com/ga4gh/data-connect			
5.	Review Citing GA4GH Standards Recommendation and add comments	All	Next Meeting	In progress

Meeting recording:

https://us02web.zoom.us/rec/share/54lTgeeZgMsPb379H_n44wt6FDPMA8oq_hwShZtmwu2fp28kSpPHjHH8oeaJ-xOa.Ycvf4annHC24_Wbf?startTime=1779825477000

Passcode: Q1A6i#H=

Meeting minutes:

Previous action items

Karen confirmed that all DaMaSC ontology and data model work is linked to issues #80 and #81, and the DaMaSC Google Drive folder has been moved into the TASC folder. Both proposals that went to a vote were approved. The Service Info and Service Registry repository transfers to the Tech Team are complete.

Moni summarized interoperability work (issue #66), noting the risk of fragmentation across GA4GH standards. Distinct conversations are underway on future-proofing Beacon for longitudinal clinical utility, the CanDIG group's work connecting OMOP to Phenopackets via Python microservices, HL7's Phenomics work on the FHIR side, and Phenopackets / GKS schema interoperability. She has slides summarizing the landscape and will share them once interested parties have reviewed them.

The GA4GH standards recommendation work remains pending. Francesca will adapt it to the newly approved model.

Moni asked about a recent announcement on GA4GH-sponsored standards. Sasha clarified this is the externally developed standards process, which came out of a document Angela is developing on tiers of relationship between GA4GH and external standards. A general call had

gone out to Work Stream Leads, but Mondo was the only standard that came back with real momentum. Sasha and Andy encouraged the group to flag other candidates.

Connect recap: Verified Implementations next steps

Andy recapped the Verified Implementations session at Connect, noting it was useful for normalizing ideas but not a major step forward. The document now covers three tracks: Track 1 for open-source implementations, Track 2 for closed-source in-house implementations, and Track 3 for non-technical implementations. This is verification, not certification.

Andy's main ask was for nominations of real products to run through each track as proof-of-concept exemplars. Without exemplars the framework cannot be tested, and he is not comfortable bringing the document up for a TASC vote in its current form.

Sasha noted that several compliance suites are out of date or missing, and argued that TASC should hold a firm line: a standard cannot have a verified implementation without a current test suite, and that burden should fall on the product owners. Karen agreed and suggested a "good / better / best" stratification rather than a binary pass.

Brian asked whether the long-term flow would be: register the implementation, run automated testing, issue a verified badge. Andy and Sasha agreed that is the right vision but cautioned against conflating the framework with the eventual tooling. For closed implementations, automated pinging will not be possible, so the plan is to ship Docker-based test tooling that groups like Genomics England can run themselves and upload reports from. This would let closed implementations earn a badge listing which standards they have been verified against, allowing them to participate visibly without exposing their code.

Brian observed that GA4GH more broadly needs starter kits and test suites for all of its APIs, and suggested "tests for everything, starter kit for everything" as a key 2026–2027 goal. Sasha agreed and shared that the Tech Team is planning a GA4GH reference cloud. She also met with AWS's genomics team, who are interested in helping build it out and willing to map GA4GH standards directly onto AWS services.

Venkat suggested TES and WES for Track 2 because they have existing test suites and ELIXIR runs them in locked-down environments. Sasha offered DECIPHER as a second Track 2 candidate, since GA4GH needs a working Beacon exemplar. Andy noted this work may not be fully ready for the upcoming TASC workshop, but Track 2 is the priority because it is the biggest blocker.

GA4GH Registry discussion

Sasha introduced a plan to collapse the growing number of separate registries (service registry, implementation registry, schema registry) into a single unified GA4GH Registry. It would expose

GA4GH schemas, registered services, implementations of GA4GH standards, API metadata, and a new people registry component.

The people registry idea came from a National Initiatives Forum (NIF) requirement. NIF members need to find and contact each other across organizations but do not want their emails publicly broadcast, so there is a real need for opt-in visibility with both public and obscured tiers.

Brian endorsed the consolidation and suggested the people registry also capture what people can actively help others with. Moni endorsed the direction and tied it to a broader concern: the GA4GH website is impenetrable to outsiders given the proliferation of acronyms and group types, so any registry redesign should go hand-in-hand with a website redesign aimed at GA4GH newcomers. Sasha agreed and plans to use the existing CRM as the source of truth for people data.

Jonathan suggested meeting people where they already are, for example by leaning on LinkedIn. Sasha said she wants the registry to log in via GA4GH Passports, which would also gate access to the reference cloud, and acknowledged that the current onboarding process (data lands in a CRM users cannot edit) is broken. Andy added that any self-serve model needs an "eject button" for staff edits, and Sasha said the plan is to drop users from the visible registry after repeated unanswered prompts to confirm their information. Jaime cautioned against tying identity too tightly to institutional logins, citing eRA Commons experiences.

AOB

Jinny reminded the group of the dbGaP FHIR API initiative call for expressions of interest; interested parties should email Beatrice. Jinny will resend the details.

Brian shared that GIF has an opening for a third co-lead alongside himself and Wafaa, with applications due June 30. The next round of GIF projects is open with the same deadline. He highlighted two proposals being drafted openly that any driver project or implementer can join: one on federated AI analysis with privacy-preserving model tuning and another on agentic MCP on top of the registry, building on Venkat's work and the Tech Team's registry work.

TASC workshop items

Sasha set up an important workshop topic: deciding what requirements TASC will set for the new PDAP.

The key change is that products must now comply with TASC directives and best practices, and TASC is part of the formal review process - meaning TASC can block a product from progressing if it cannot demonstrate that it has taken interoperability considerations seriously. For this to work, TASC needs to agree on what interoperability means for GA4GH, what counts as sufficient evidence, and what "done" looks like. The mechanism is a "technical and foundational alignment" document that products would go through as part of the PDAP.

"Technical" here means TASC; "foundational" means the foundational workstreams (data security, REWS, AI), each contributing their own sections. Lower-risk, stand-alone products would be exempt from in-depth scrutiny via a risk-tiering system applied during the first stage.

Sasha framed three questions for TASC to answer at the workshop:

- What enabling activities or outputs (starter kits, test suites) should accompany every approved product
- What the minimum requirements are for demonstrating interoperability
- How TASC will adjudicate sufficiency, including how to handle products that simply do not want to be interoperable

Bob suggested pre-work would be valuable so people can arrive having reacted to a structured document, and Sasha agreed to put scaffolding in place. Venkat asked that the discussion also consider where each product fits in the broader AI landscape; Sasha confirmed the foundational work streams will handle that in parallel. Moni endorsed the direction and argued for shipping official toolkits and pilot implementations alongside the standards themselves.

Karen suggested identifying a few products that have recently gone through PDAP and asking them for a couple of slides on how their experience would have differed under the new process. Sasha agreed and reinforced that the measure of PDAP success is how many products succeed after going through it, not whether boxes were checked. She acknowledged that some past products have succeeded and quite a few have not, and TASC needs to be honest about why. Brian agreed from his own PDAP experience - if starter kits and test suites had been required from the start, adoption of DRS, WES, TRS, and TES would almost certainly have moved faster.

Sasha closed by highlighting an important nuance: TASC also needs to prepare for the worst-case scenario. Some product owners will not be interested in interoperability and will prioritize their own product over the GA4GH community's priorities, and TASC needs to decide in advance how hard a line it is willing to draw.

2026-04-28: TASC Meeting: Cancelled

2026-03-24: TASC Meeting

Chairs: Andy Yates Mamana Mbiyavanga, Sasha Siegel
Attendees: Miro Cupak, John Marshall Jinny Park Nathan Sheffield Moni Munoz Torres, Bob Freimuth, Jon Turner, Nara Sobreira, Karen Cranston Brian O'Connor Larry Babb Jimmy Payyappilly Venkat Malladi, Melissa Cline Reggan Thomas

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	Actions Arising	Assigned To	Deadline
1.	Compile and post all relevant docs, slides, and materials on ontology and data models to the corresponding GitHub issues	Karen	Next Meeting
2.	Vote: 3. Format, placement, and communication standards of TASC approved recommendations 4. Schema Registry	TASC Voting Members	April 24

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda		5 min
2.0	Previous action items	Andy/Mamana	10 min
3.0	Call for vote: Format, placement, and communication standards of TASC approved recommendations TASC_Placement_Proposal.pptx ● Vote here ● PR#76	Mamana	10 min
4.0	Schema Registry ● Spec https://ga4gh.github.io/schema-registry/ ● Ticket in TASC GH https://github.com/ga4gh/TASC/issues/79 ● PR diff https://github.com/ga4gh/TASC/pull/76/changes ● Example https://nsheff.github.io/schema-registry-site/ga4gh	Nathan/Jonathan	15 min
5.0	Moving products through TASC	Andy	15 min
6.0	Connect - The TASC-athon: Le Monstre ● Agenda	Andy/Mamana	15 min
7.0	A.O.B ● Register for Connect! Deadline April 6th ● Issue #82		10 min

	Previous Actions Arising	Assigned To	Deadline	Status
1.	Review & comment on issue #66 - Interoperability points across products ● Moni + Bob will connect to aggregate info on current efforts: Beacon + PXF, PXF←→OMOP, PXF ←→ FHIR, GKS ←→ Clin/Pheno Interop, etc.	All		In progress

	Previous Actions Arising	Assigned To	Deadline	Status
2.	Transfer Service Info/Service Registry repo to Tech Team			In progress
3.	Review Citing GA4GH Standards Recommendation and add comments	All	Next Meeting	In progress
4.	Identify additional contributors and staff for Schema registry, ontology, and data model recommendations Ontology - Heather Creasy, Moni, Sasha Data models - Karen, David Bujold, Andy	Andy/Sasha/Karen	Next Meeting	Completed

Meeting recording:
https://us02web.zoom.us/rec/share/1TA2PWOiQQ6rCqhdxUknnabh8vTIKm71yzoxU9d6bGNCqJA8C5rnwoJUBJVM0742.3OS6CQSSZU0gIETH?startTime=1774385932000
Passcode: @9p0fvet

Meeting minutes:

Action item review

- Service Info and Service Registry repo still under Discovery. Jimmy confirmed that the Tech Team is ready to formally take this on - final cleanup and handoff are pending.
- Citing GA4GH recommendations (update from Andy): Francesca completed prepartory work on the document. The previous version was frozen as v1, a new v2 draft was created for review. The GitHub repo structure proposal proposed by Mamana will guide target format for this document and help align and accelerate progress.

Contributors for Schema Registry, Ontology Recommendations, and Data Model recommendations (Karen)

Ontology and Data Model working groups had slowed recently due to the transition from DaMaSC into TASC. Heather Creasy has volunteered to co-lead the Ontology Recommendations group. Karen will co-lead the Data Model group with David Bujold. Moni expressed enthusiasm about joining but emphasized the need for a clearly defined roadmap.

Karen highlighted a persistent challenge: the need for a clear, formalized process for defining leadership roles and membership within each working group. She asked how TASC plans to assign representatives, and how to ensure these projects don't stall further.

The group agreed each working group should have (1) a DaMaSC side co-lead, (2) a TASC/staff representative, and (3) additional volunteer members.

Karen volunteered to compile all existing documentation, slide decks, and historically relevant materials, and post them into the corresponding GitHub issues to create a single source of truth.

Summary:

	Leads	TASC/Staff Rep
Ontology Recommendations	Heather Creasy, Moni Munoz Torres	Sasha Siegel
Data Model Best Practices	Karen Cranston, David Bujold	Andy Yates
Schema Registry	Nathan Sheffield, Jonathan Fuerth	Jimmy Payyappilly

Issue #66 - Interoperability points across products (Bob & Moni)

Bob highlighted the need for discussion about the next steps. Moni and Alex have been working on cross-standard interoperability principles and will lead two sessions at Connect:

1. GKS and Clin/Pheno Schema Interoperability: Focused on variants, genes, phenotypes, and diseases- the shared conceptual core of both standards. The session aims to explore:
    - Compositional modeling strategies
    - Reducing representational drift across standards
    - Foundational principles for future cross-standard alignment
2. Future-Proofing Clinical Data in Beacon: Centered on interoperability challenges around Beacon.

Related work:

- Beacon–FHIR interoperability planning with Catherine Procnell
- PhenoPackets interoperation with FHIR and OMOP

Outputs from the Connect sessions could become early inputs for Issue #66. Bob agreed on focusing on small, achievable steps. Moni and Bob will work on consolidating these threads and define direction.

Voting - Placement of TASC-approved recommendations

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Reminder of proposed structure (Mamana) - vote for:

1. Two core document types: (1) Policy Guide and ADRs
2. Metadata templates: vote concerns the existence of templates and their placement (templates will remain flexible)
3. Numbering/Naming Convention: TASC-GOV-NN, TASC-ADR-NNN, GA4GH-REC-NNN (previously TASC-REC-NNN, see below)
4. GitHub Repo Structure: reorganize into clear sections: recommendations, draft-recommendations, and ADRs, each containing its relevant templates and files
5. Website cards: Simple table with filters, powered by metadata embedded in the documents. Longer-term improvements would be explored once this initial structure is adopted.
6. Comms workflow: TASC will work with the GA4GH Comms team to ensure recommendations and ADRs are effectively communicated to the community.

Discussion on Numbering/Naming Convention (#3)

John Marshall noted that the TASC-REC-NNN convention might imply that recommendations are only relevant to TASC rather than GA4GH as a whole. He suggested reverting to the older, simpler GA4GH-NNN, which historically signaled organization-wide applicability.

Andy added that when drafting the original naming scheme, their intention was to avoid TASC "taking over" all of GA4GH's document namespaces. The naming was meant to be descriptive, not authoritative.

Sasha raised point about product-level ADRs, which will be required in the new PDAP. Since these ADRs will exist outside TASC, the naming conventions need to support GA4GH-wide usage. She clarified that the ADR template TASC is developing is meant to be reusable across the entire organization.

The group agreed on:

- Adjusting recommendations to GA4GH-REC-NN.This keeps the GA4GH-wide emphasis while still clearly denoting recommendations.
- Keeping TASC-GOV and TASC-ADR intact

*Formal votes remain open for up to a month to meet the 70% approval requirement.

Andy encouraged the group to normalize bringing items to a vote earlier and more frequently, as part of iterative process.

Schema Registry (Nathan)/ Moving products through TASC

Recap of Schema Registry:

- Currently draft specification - not approved as a GA4GH standard yet
- The core idea is to define a standard way to represent schemas via a minimal set of API endpoints
- The API allows clients retrieve namespaces and schemas, retained in JSON schema format
- The specification intentionally avoids prescribing backend storage, build pipelines, UI layers, or an official GA4GH-hosted registry
- The immediate objective is simply to standardize the API contract so different groups can implement compatible registries if they choose

Nathan highlighted recent exploratory work he and the GKS team conducted, where they ingested GKS Core and VRS schemas into a mock registry to test feasibility.

He also pointed to an existing TASC issue he had opened the previous year describing the Schema Registry and its intended role, acknowledging there has been limited movement since then.

Central question: Now that Schema Registry is under TASC, what are the expectations? How should they engage, and what are the next steps?

Larry emphasized two concerns:

1. Who is requesting this? - Alex had questioned what implementers or communities were actively asking for a Schema Registry
2. Where is the formal approval? - Schema Registry and other DaMaSC outputs did not go through a formal GA4GH product approval process. This raised questions about whether TASC should automatically adopt DaMaSC work or instead evaluate and justify each item before proceeding.

Larry stressed that Alex's concerns centered on governance and process, not on the technical merits.

Sasha stated the best way forward was to put Schema Registry to a vote:

- Vote on whether Schema Registry should officially exist as a TASC project
- If approved, this would unlock the ability to push the work through the PDAP

Karen agreed, noting that the group was currently "blocked". The issue wasn't technical debate, but administrative clarity. Moni supported moving forward with a vote. She noted there are other registry-like services in the ecosystem. GA4GH needs to ensure Schema Registry is positioned distinctly, focusing on data structure schemas rather than ontologies.

Andy added that TASC had already agreed in principle to bring three DaMaSC items into the TASC backlog, including Schema Registry, though not through a formal vote.

Official voting for Schema Registry will be issued including supporting materials.

Sasha noted that the Schema Registry fits into a broader plan for a unified GA4GH registry (schema, service, implementation). Important future challenge will be maintenance and ownership, especially for any GA4GH-hosted implementation.

Nathan agreed with Sasha's direction, noting that Schema Registry was always envisioned as a first step - a standard that could eventually support a real registry, ideally one with organizational backing and longevity.

TASC Connect Session

Andy highlighted success of previous Uppsala workshop. The original Verified Implementations concept aimed to create a framework to recognize high-quality implementations of GA4GH products - not to certify them formally, but to give a structured "badge of approval" based on good software practices. The feedback last year highlighted that the framework was too narrowly scoped, focused primarily on open-source, deployable software. The approach needed to extend to closed-source implementations and non-software products, particularly regulatory or ethics outputs.

The Verified Implementations Framework was revised with with three distinct tracks:

- Track 1: Open-source software (the most mature and likely ready for approval)
- Track 2: Closed-source software (pilot phase)
- Track 3: Non-software products, including ethics/regulatory outputs (pilot phase)

The session will focus on running real products through the appropriate track to evaluate what works and where the gaps are. The vote during the session will not finalize Tracks 2 and 3 but will approve the framework as a roadmap, with pilot phases explicitly acknowledged.

Andy asked members to review the draft document in Connect session agenda - particularly the new Tracks 2 and 3 (after page 6)

AOB

<u>TASC Workshop - Funding and Logistics (Andy)</u>

Due to funding constraints, GA4GH may not cover flights this year, though venue and catering could be supported.

Andy asked if attendees would still participate under those conditions. The group agreed that pairing with the existing Plenary meeting would be the most feasible (pre or post). Poll will be circulated to determine preferences.

Sasha added that they should have clearer budget confirmation within a week.

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2026-02-24: TASC Meeting

Chairs: Andy Yates Mamana Mbiyavanga, Sasha Siegel
Attendees: Michael Baudis, David Bujold, Alex Wagner, Larry Babb, Nara Sobreira, Jimmy Payyappilly, Tom Conner, Reggan Thomas, Bob Freimuth, Venkat Malladi, Beatrice Amos, Dasharth Chauhan, Jon Turner, Miro Cupak, Jaime Guidry Auvil

	Actions Arising	Assigned To	Deadline
1.	Review & comment on issue #66 - Interoperability points across products	All	
2.	Transfer Service Info/Service Registry repo to Tech Team		

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda		5 mins
2.0	Previous action items		15 mins
3.0	Placement of recommendations and ADRs - Slides	Mamana	15 mins
4.0	Interoperability points across products https://github.com/ga4gh/TASC/issues/66	Bob	20 mins
5.0	Connect - The TASC-athon: Le Monstre	Andy	15 mins
7.0	A.O.B		10 mins

	Previous Actions Arising	Assigned To	Deadline	Status
1.	Review Citing GA4GH Standards Recommendation and add comments	All	Next Meeting	In progress
2.	Submit TASC Connect session proposals	TASC leads	Next Meeting	Completed
3	Identify additional contributors and staff for Schema registry, ontology, and data model recommendations	Andy/Sasha/Karen	Next Meeting	In progress

	Previous Actions Arising	Assigned To	Deadline	Status
4.	Work with Workstream Managers and Comms to draft a separate set of community engagement metrics and circulate for review	Jon	TBD	Paused
5	Share backlog ahead of Connect and run poll to identify highest priority item	Andy	Next Meeting	Agenda Item
6.	Organize recommendations and ADRs for better discoverability on GitHub and the website	Mamana	Next Meeting	Agenda Item

Meeting recording:

https://us02web.zoom.us/rec/share/7Iukk90GwB-bvt4ZBrTFLK3exGteMzfpWI8RBYiwb4JgHWu_ZTgkBRsaHQKKqcK7.aLzZSRfH1CVh2GMV?startTime=1771937893000

Passcode: ZY.6?H&3

Meeting minutes:

Summary

Mamana proposed improving the structure and discoverability of TASC outputs by standardizing document types (policies/recommendations vs. ADRs), reorganizing GitHub repositories, and enhancing website visibility with dynamic, metadata-driven displays; ADRs would remain public but less prominent than formal directives Sasha presented the idea of hosting TASC & Tech Team AMAs. Bob revisited Issue #66, which highlights ongoing interoperability challenges caused by independently developed products and unclear ownership of cross-product integration, and asked whether TASC should establish guardrails to improve alignment. The group discussed possible open issues to focus on for Connect sessions. Suggestions included ADR publication, DOIs, interoperability, Service Info and Registry, and verified implementations.

Action Item Review

- TASC-ahton Connect session scheduled for 14 April at 9:00-10:30 AM
- Identifying owners for DaMaSC items still in progress
- Meetings were held with the Work Stream Managers about community engagement metrics. This work will be put on hold pending finalization of the PDAP.

Placement of Recommendations and ADRs

Mamana revisited the October discussion regarding consistency and discoverability of TASC outputs. Current outputs are scattered across GitHub, Google Docs, meeting notes, and emails.

Mamana proposed a more structured approach with standardized formats, clearer repository organization, and improved website visibility. Document types:

- Policy or Recommendation Documents – Comprehensive, evolving documents that capture guidance or requirements.
- Architectural Decision Records (ADRs) – Short records documenting specific decisions, including context, alternatives, final decision, and consequences. ADRs would clearly capture the rationale behind decisions and provide transparency.

Andy noted that the GA4GH-NN convention was a placeholder and is flexible. Sasha emphasized aligning any ADR structure with the upcoming PDAP.

From chat (Bob):

> My thoughts (after only 1 cup of coffee, so subject to change):
>
> - ADR-YY-NNN
> - Use metadata tags to flag those that should be promoted for more obvious public view
> - Ensure there is a way to cross-ref related ADRs. If 10 are all linked to a single parent decision, we need a way to identify which are related to that. It also provides a way of back-ref'g decisions that are revised a year later.

Sasha asked whether recent outputs were classified as directives or recommendations. Directives imply mandatory requirements; recommendations reflect best practice. Andy noted the charter references directives and policies, and many outputs have been framed as best practice.

Mamana presented a proposed GitHub structure separating ADRs, governance documents, approved recommendations, and draft recommendations.

The group discussed whether ADRs should be public. There was agreement they should remain public for transparency, but with less prominence than formal directives or policies; website filters could manage visibility.

Current static website cards do not scale; a dynamic, metadata-driven display system was proposed to improve discoverability. Mamana will prototype, potentially using Airtable.

TASC (& Tech Team) AMA

Sasha proposed hosting “Ask Me Anything” sessions when major outputs are released to explain recent directives or recommendations and allow Q&A. The idea was well received and will be explored further.

Interoperability points across products

Bob reintroduced Issue #66 which originated several years ago from survey feedback identifying barriers to adoption. While products were developed quickly and largely independently (especially between 2018 and 2020) challenges have emerged when they are implemented together.

Within GKS, specifications like VRS and VA identified shared architectural touchpoints ("GKS Core"), contributing to GA4GH Core discussions. Issue #66 asks whether similar harmonization is needed across products.

A key challenge is ownership. Product teams manage individual specifications, but no group owns the integration points between them. Bob asked whether TASC has the mandate to establish guardrails for cross-product alignment.

Alex supported advancing the discussion, citing misalignment issues such as multiple JSON schema representations of VRS emerging from parallel development. (A GA4GH Connect session will explore related challenges.)

Michael emphasized the need to demonstrate cohesion across products, even if alignment is not perfect, through visible shared foundations.

Sasha acknowledged interoperability as a longstanding challenge and suggested convening a workshop for product representatives to identify alignment opportunities. She also proposed conducting a landscape analysis to identify divergences, particularly across driver projects, and focusing on smaller, tractable issues.

Venkat suggested starting with concrete driver project use cases to generate practical solutions.

Bob encouraged members, especially driver project champions, implementers, and workstream leads, to review and comment on Issue #66 with perspectives on priorities.

Mamana suggested formalizing Issue #66 using the updated TASC ticket template; Bob noted scope agreement may be needed first.

Connect TASC-athon

Andy emphasized the value of focused, in-person working time. With limited virtual support, the 90-minute session will aim to advance one priority issue rather than a general discussion.

Andy invited members to identify which open issue should be the focus. Suggestions included ADR publication, DOIs, interoperability, Service Info and Registry, and verified implementations

Verified Implementations

Sasha raised “verified implementations” as a near-complete piece of work that stalled just before approval.

Andy summarized the concept: define clear criteria for what qualifies as a “verified implementation” of a GA4GH technical product. This would move beyond the assumption that only Tech Team–developed implementations count and instead formally recognize qualifying open- and potentially closed-source implementations. The goal is to establish defined attributes and a transparent pathway for recognition.

Venkat noted overlap with registry efforts (Service Info, geolocation); suggested identifying owners/champions to move these forward.

Service Info & Service Registry

Sasha proposed dedicating time to clarify ownership and roadmap for Service Info and Registry.

Nara clarified these products were considered transferred from Discovery to Tech Team when DaMaSC transitioned to TASC; Michael confirmed this understanding.

Sasha concluded that the repositories should be formally transferred to the Tech Team. However, she emphasized that product-level specification changes remain under TASC ownership, as domain expertise sits there.

Tom supported consolidating Service Info, Service Registry, and verified implementations under TASC; registry infrastructure can support broader interoperability by clarifying declared data types.

Sasha agreed that a clearer roadmap is needed and that repo transfer should be the next practical step.

David noted that recommendations regarding formal specification formats have stalled. He suggested revisiting this question at the TASC level to establish shared guidance on how GA4GH specifications should be formalized in machine-readable formats.

Andy proposed posting a summary of candidate TASC-athon topics in Slack to vote on. Initial thoughts will be gathered and refined after the next TASC meeting.

2026-01-20: TASC Meeting

Chairs: Andy Yates Mamana Mbiyavanga, Sasha Siegel
Attendees: Benjamin Berk, Dashrath Chauhan, Francesca Frexia, Heather Creasy, Jaime Delgado, Jimmy Payyappilly, John Marshall, Jon Turner, Jonathan Lawson, Karen Cranston,

Global Alliance for Genomics & Health

Larry Babb, Melissa Cline, Moni Munoz Torres, Bob Freimuth, Tom Conner, Venkat Malladi, Brian O'Connor

	Actions Arising	Assigned To	Deadline
1.	Review Citing GA4GH Standards Recommendation and add comments	All	Next Meeting
2.	Submit TASC Connect session proposals	TASC leads	Next Meeting
3.	Identify additional contributors and staff for Schema registry, ontology, and data model recommendations	Andy/Sasha/Karen	
4.	Work with Workstream Managers and Comms to draft a separate set of community engagement metrics and circulate for review	Jon	
5.	Share backlog ahead of Connect and run poll to identify highest priority item	Andy	

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda		5 mins
2.0	Previous action items		10 mins
3.0	State Diagram meeting outcomes • TASC - state diagrams of the nation - 20th Jan	Andy Yates	15 mins
4.0	Schema registry, ontology and data model recommendations • Proposed leads • Proposed TASC member representation • Open call for staff to join DaMaSC outcomes TASC Meeting - 20th Jan	Andy Yates	20 mins
5.0	Citing GA4GH Standards Recommendation	francesca.frexi…	20 mins
6.0	TASC Connect Session	Andy Yates	15 mins
7.0	A.O.B • Feb WSL Meeting - Poll due Thursday (Jan 22)		5 mins

	Previous Actions Arising	Assigned To	Deadline	Status
1.	TASC leadership - Discuss next steps and assign champions for Schema Registry, Ontology Recommendations, and Data Model Best Practices	Andy/ Mamana	Next meeting	Agenda item
2.	Host sub-meeting to discuss details of state diagram work	Andy	Next Meeting	Completed
3	Clarify and document the distinctions between versioning, releases, and maturity	Andy/Jon	TBD	Agenda item
4.	Update and align product lifecycle terminology and website structure to reflect new stages	Jon	TBD	
5	Organize recommendations and ADRs for better discoverability on GitHub and the website	Mamana	TBD	
6.	Work on the GA4GH website registry and move DRS map generation to automation	Brian/Venkat/Jimmy	TBD	

Meeting recording:
https://us02web.zoom.us/rec/share/u5judsdSMoGX_UIaShMtvXFLBgvybV2MW9rMiUKZLkAdISx6E85xKBcfJq9sodn1.fkAQNiPTsMry38yM?startTime=1768942586000

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Meeting minutes:

Summary
A new draft PDAP was announced that simplifies the process to three phases, embeds maturity and versioning, and will be shared with the PSC. Updates were provided on registry and map automation, upcoming Workstream Leads discussions, and funding for another in-person TASC workshop. The group agreed to remove “inactive” from the state diagrams, separate lifecycle status from community engagement, and revisit the lifecycle diagram after the new PDAP is finalized. Work will continue on schema registry, ontology, and data model recommendations. Progress was also shared on the DOI-based approach for citing GA4GH standards, using Crossref and a manual process for now. Finally, the group discussed Connect sessions, favoring hands-on, outcome-driven formats to advance priority work ahead of the next workshop.

New Product Development Approval Process (PDAP)

Sasha announces a new draft PDAP. The new version reduces the process from four phases to three, uses a single live document throughout, and clarifies expectations at each stage. Feature maturity, semantic versioning, and previously defined maturity concepts are now embedded. The draft will be shared with the PSC at the next meeting and iterated based on feedback.

Action Item Review

Venkat provided a brief update on the website registry and map automation, noting progress on PRs, plans to load data into the registry, and an initial static map with a longer-term goal of automation.

Some proposed agenda items will be redirected to the future Work Steam Leads meetings happening during February and Connect.

Andy also announced that funding is available for another in-person TASC workshop before the end of September, with dates to be proposed.

State Diagram Sub-meeting Outcomes

Sasha explained that the new PDAP now includes explicit lifecycle phases: draft, candidate, and approved. Questions were raised about how the existing lifecycle diagram aligns with this structure. Bob clarified that the original intent of the diagram was to describe lifecycle states without embedding governance processes. The group agreed that confusion stemmed largely from the term “inactive,” which mixed lifecycle status with community engagement.

Proposals from sub-meeting:

- Proposal 1: Remove inactive from the state diagram, if there is a need to bring it back then we want suggestions about the why
- Proposal 2: This was not intended to model community engagement, but we could add another metric. Jon is working with Work Stream Managers and Comms to create a set of community states based on engagement and support. Draft to be circulated once produced.

The group agreed to remove “inactive” entirely and to separate community engagement from product lifecycle. A simplified lifecycle of Concept - Active - Archived was favored, with “archived” indicating that a product is no longer maintained, regardless of approval status. The lifecycle diagram will be revisited once the new PDAP is finalized. All other diagrams were considered stable and fit for purpose.

Schema registry, ontology, and data model recommendations

Andy confirmed that work will continue in the three areas. The Schema Registry remains a formal product subject to the PDAP. Andy reviewed governance expectations, noting that TASC members must act as champions for work to proceed.

A draft mapping of leads and TASC representatives was presented:

- Schema registry: Jonathan/Nathan
    - TASC WS reps: Cloud - Venkat, Brian
- Ontologies: Karen/David B
    - TASC WS reps: Clin/Pheno - Moni,Benjamin
- Data models: David B/ Karen
    - TASC WS reps: Discovery - Nara,Miro

Karen agreed to be listed on one area, and offered to help identify additional contributors from the DaMaSC group.

Citing GA4GH Standards Recommendation

Francesca updated on progress toward a consistent approach for citing GA4GH outputs. The need for this work emerged from several GitHub issues and has since been refined within the TASC group. DOIs will be used for citation, and Crossref will be the registration agency. The GA4GH tech team has implemented the necessary infrastructure to support DOI minting, and a draft recommendation document has been circulated and reviewed by multiple contributors.

Recent updates to the draft include the addition of concrete use cases and alignment with the GA4GH maturity model and TASC glossary. Where a journal has already issued a DOI, that DOI will be reused rather than duplicated by GA4GH.

<u>Hierarchical standard designator tied to workstreams or products:</u>

Concerns were raised that such hierarchy could become brittle as products move between workstreams or span multiple areas. The group leaned toward keeping designators simple, treating them as historical metadata rather than structural identifiers, and avoiding premature complexity. The consensus was to defer any formal hierarchy until a clear need emerges.

<u>Process for requesting and minting DOIs:</u>

While automation was seen as a desirable long-term goal, the group agreed that the current manual process is sufficient for now. Sasha outlined a phased approach to automation, beginning with form-based submissions and moving toward automated Crossref uploads over the coming months.

<u>Additional clarifications:</u>

GA4GH acts as the DOI minting body through Crossref, and DOIs resolve to landing pages rather than fixed files. URLs can change over time while the DOI remains persistent. Not every GA4GH output requires a DOI; eligibility depends on originality, relevance, and whether the output represents a stable community deliverable.

TASC Connect Session

There was strong interest from GA4GH staff in TASC-led sessions, building on the success of the previous in-person workshop in Uppsala.

Venkat and Brian suggested a hands-on registry TASC-a-thon, where participants would actively update the service and schema registries and see immediate results, such as updated maps.

A possible Connect session focused on the PDAP was also discussed. Some participants questioned whether a live session was the best format, suggesting alternatives such as an AMA-style discussion or a recorded walkthrough with asynchronous Q&A. If held live, there was agreement that the PDAP should be demonstrated through real product examples rather than presented abstractly.

Finally, the group discussed how Connect sessions could be used to prepare for the next in-person TASC workshop. A proposal emerged to share the TASC backlog in advance, run a poll to identify the highest-priority item, and then use a 90-minute Connect session to complete a single focused piece of work. Potential candidates included finalizing the DOI recommendation, advancing registry updates, or resolving remaining state diagram issues.

2025-12-16: State Diagram Sub-meeting

Attendees: Andy Yates, Jon Turner, Bob Freimuth, Jinny Park, Jimmy Payyappilly

Meeting recording:

https://us02web.zoom.us/rec/share/mQDZCSB1jc3G3_fFqY-ghlhZk8Ix6xIZW9UNnrBZeLJBBXi6fr87-ZPFt_k4i6iz.jKleSe0TH_v4P4GQ?startTime=1765890008000

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Meeting minutes:

Background & Context

- Feedback from Comms and other groups highlighted issues with the term “inactive”, as it may:
    - Conflate multiple meanings (stable vs. stalled)
    - Carry negative connotations for potential contributors

    - Be interpreted as a lack of community rather than a product state
- Bob explained that “inactive” was originally introduced to handle cases where:
    - A product loses its driver
    - Development pauses temporarily
- From a technical perspective, “active/inactive” felt intuitive and neutral
- It was acknowledged that the original use case is actually rooted in community engagement, not product quality or maturity
- How can GA4GH signal “this works but help may be limited” without discouraging adoption?

Product State vs. Community State

- Strong consensus that two distinct concepts are being conflated:
    - Product state
    - Community engagement / maintenance activity
- Comms feedback is largely about signaling whether people are actively involved and if newcomers can get help or contribute
- Attaching community signals directly to a product state risks confusion and may discourage participation

Terminology Options

- Keeping “inactive” but redefining it may still cause misunderstanding
- Splitting “inactive” into multiple sub-states adds complexity
- Renaming “active” to “under development” could have a clearer intent, but may imply the product is not ready to be used
- Introducing separate indicators (e.g., maintenance level, community engagement) could be an option
- Example: Apache Software Foundation’s lifecycle (Incubator, Project, Attic) was discussed as a reference
    - Apache’s “attic” still conflates multiple ideas
    - It requires heavy process and governance
    - GA4GH likely needs something simpler

Tentative Direction

- Remove “inactive” from the diagram (for now) to:
    - Test whether stakeholders feel it is truly missing
    - Avoid negative or misleading interpretations
    - Refocus the diagram on product state only, not community engagement
- Treat community engagement / maintenance activity as a separate concern
- Ask Comms to propose:
    - How they would like to describe community engagement or maintenance signals

- Whether simple, relative indicators would suffice

2025-11-25: TASC Meeting

Chairs: Andy Yates Mamana Mbiyavanga, Sasha Seigel
Attendees: Karen Cranston, Jonathan Fuerth, Heather Creasy, Larry Babb, Reagan Thomas, Jessica Seegobin, Jaime Guidry Auvil, Tom Conner, Beatrice Amos, Chen Chen, Brian D O'Connor, John Marshall, Francesca Frexia, Jimmy Payyappilly, Dashrath Chauhan, Ian Fore, Jinny Park, Melissa Cline, Mónica Muñoz Torres, Marion Shadbolt
Regrets: Bob Freimuth

	Actions Arising	Assigned To	Deadline
1.	TASC leadership - Discuss next steps and assign champions for Schema Registry, Ontology Recommendations, and Data Model Best Practices	Andy/ Mamana	Next Meeting
2.	Host sub-meeting to discuss details of state diagram work	Andy	Next Meeting

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5 mins
2.0	Previous action items	Mamana	10 mins
3.0	Show&Tell Using DaMaSc Roadshow slides ● Schema Registry https://github.com/ga4gh/TASC/issues/79 ● Data model best practices https://github.com/ga4gh/TASC/issues/81 ● Ontology recommendations https://github.com/ga4gh/TASC/issues/80 (5 min presentation, 10 min discussion per product)	Karen/ Jonathan	45 mins
4.0	GA4GH Website Registry ● Some notes from 11/12 meeting 20251125 - TASC Update on Registry Work	Brian/Jimmy	15 mins
5.0	A.O.B ● Call for State Diagram Next meeting - 16 December (Attendance?)	Andy	10 mins

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	Previous Actions Arising	Assigned To	Deadline	Status
1.	Clarify and document the distinctions between versioning, releases, and maturity	Andy/Jon	TBD	
2.	Update and align product lifecycle terminology and website structure to reflect new stages	Jon	TBD	
3	Organize recommendations and ADRs for better discoverability on GitHub and the website	Mamana	TBD	
4.	Work on the GA4GH website registry and move DRS map generation to automation	Brian/Venkat/Jimmy	TBD	

Meeting recording:

https://us02web.zoom.us/rec/share/MZKO7F-4Nh2I_sp-mGTQcNu3H7P47rJVcmgRFGoRzKooqIYzqn__DMwGb-vOLkR3._GzW5o1qvfxfLEdq?startTime=1764104246000

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Meeting minutes:

Summary

The meeting focused on updates from DaMaSC and related GA4GH projects. Andy and Mamana will follow up on clarifying versioning distinctions and refining communications for TASC recommendations. Karen and Jonathan presented the Show & Tell: Jonathan demonstrated the Schema Registry's centralized schema publication and versioning, while Karen reviewed ontology recommendations and data model best practices, emphasizing descriptive snapshots, interoperability, and evolving guidance rather than mandates. Discussions highlighted challenges around unifying data models, balancing consistency with flexibility, and reputational considerations for ontology use. Updates on the GA4GH website registry were shared, including ingestion of new entries, geolocation support, and plans for improved visualization and automation. Other topics included externally developed best practices, the publications policy, and the future state diagram, with a follow-up sub-meeting planned in place of the December TASC meeting.

Previous action items

- Andy will follow up with Jon on clarifying and document distinction between versioning, releases, and the maturity model
- Mamana will be meeting with the tech team and comms team to refine organization and communication for recommendations/directives produced within TASC

Show&Tell (Karen & Jonathan)

Beatrice introduced the DaMaSC team, noting that Karen Cranston has been leading the transition following Kathy Reinold's previous leadership. She also introduced Jonathan Fuerth, who serves as the product owner for the schema registry. Karen is now leading work on ontologies and best practices.

Karen provided overview of three products:

1. Schema Registry
2. Ontology Recommendations
3. Data Model Best Practices

These correspond to the three issues now logged in the TASC GitHub.

Schema Registry (Jonathan)

Jonathan reviewed the current schema registry, demonstrating the working implementation. He clarified that the registry does not change how working groups develop schemas but provides a consistent, centralized way to publish, version, and reference them while maintaining existing workflows. He outlined a high-level model where working groups propose schema versions, GA4GH governance approves them, and approved versions appear in the unified registry.

Jonathan showcased features of the implementation developed by Ian Fore, including:

- Namespaces for different schema groups (e.g., GKS, VRS etc.)
- Lists of schemas and available versions
- Access to specific schema versions in JSON Schema format
- Support for search, referencing, and harmonization use cases

He mentioned that some of the versions displayed during the demo were placeholder values in the prototype. Jonathan explained that having schemas consistently structured and versioned enables better tooling, discoverability, and cross-group alignment.

Discussion:

Moni asked whether the DaMaSC schema registry is connected to broader GA4GH efforts for a universal registry and how integration might work.

Sasha explained that the universal registry concept is still conceptual. Multiple registries exist, and the plan is to explore centralizing them (including service and product registries) rather than creating a new one. Integration is not yet implemented, but coordinating registries remains a future consideration.

Larry noted many versions were pre-releases and suggested filtering to determine official status. Jonathan confirmed that schema elements now include status metadata aligned with the GA4GH lifecycle, allowing clients to filter schemas by status.

Ontology Recommendations (Karen)

Karen updated the group on DaMaSC's catalog of ontologies and controlled vocabularies used across GA4GH products. Using input from workstreams and domain experts, the team created a table showing current usage; an updated version is linked in the TASC GitHub issue. She emphasized the goal is not to issue mandates but to provide a snapshot of current practices to inform future interoperability efforts.

Discussion:

Moni cautioned against framing the catalog as formal "recommendations," suggesting it remains a descriptive snapshot of current GA4GH usage. Larry agreed, emphasizing transparency and documenting active usage only.

Angela clarified this work is separate from recognizing externally developed standards. Items can be core dependencies, optional considerations, or miscellaneous references. Care is needed to avoid conflating efforts or creating reputational issues.

Andy noted the catalog can reduce unnecessary ontology proliferation while keeping usage context-dependent. Sasha agreed, stressing that listing preferences supports interoperability without rigid rules.

Ian pointed out that many GA4GH data repositories are managed externally, making enforcement unrealistic. He suggested reputational risk lies mainly with submitters and that a registry allowing them to specify schemas would document practices without imposing requirements.

Karen clarified the discussion was to review DaMaSC's work and gauge TASC interest, not to finalize labels or formats.

Data Model Best Practices (Karen)

Karen presented the GA4GH data models best practices project, focusing on three areas: content, representation, and publication. The group discussed what should be included in a data model package at different maturity levels, such as concepts, relationships, definitions, value

ranges, and required versus optional elements, with standardized vocabularies, ideally ontologies, forming the foundation.

Representation was discussed, noting that early data models are often human-readable, such as spreadsheets, but can evolve into machine-readable schemas. Considerations include schema types, reference implementations, and potential inclusion in registries. For publication, recommended elements include descriptions, diagrams, examples, and documentation, drawing on past experiences with data model adoption.

Karen emphasized the project is still in the brainstorming phase and sought TASC feedback on whether to continue the conversation and how to develop guidance for GA4GH data models.

Discussion:

Sasha asked whether the group is ready to consider a single, unified data model. Karen clarified the focus is currently on best practices, not an overarching model. John Marshall noted a previous comprehensive model was too complex and archived. Sasha questioned whether current experience and timing might make a unified model feasible.

Moni strongly supported a unified approach, highlighting benefits for consistent specifications, governance, and data sharing, noting the group's experience makes it achievable. Melissa Cline emphasized flexibility, leaving gaps where recommendations are not yet feasible to keep the model adaptable.

Larry cautioned that a common model across groups is challenging, requiring incremental adoption for smaller groups and larger adjustments for established ones. Sasha stressed the risk of divergence if alignment is delayed, noting timing and commitment are critical.

Moni confirmed efforts are underway to identify key challenges and alignment principles to balance consistency with expressivity.

Mamana noted that TASC members will be assigned to champion each item from DaMaSC. Sasha suggested a TASC leadership discussion as the next step to guide action.

GA4GH Website Registry (Brian & Jimmy)

Brian reviewed recent work stemming from the Connect meeting,, where a temporary Google Form was used to update DRS entries with geolocation and basic metrics, addressing outdated registry data. This added 22 entries totaling over 72 PB, with the goal of moving them into the official registry.

Jimmy provided a technical update: the registry now supports geolocation, scripts to ingest the Form data are ready, and code changes are expected within a week.

Brian outlined next steps: improving registry visualization on the website (e.g., maps or faceted search), creating a more robust registration process with better validation, and continuing prototype work through the Cloud Workstream. Plans include an AMA/Open House early next year to encourage broader registration of DRS, WES, and TES implementations.

Longer-term, the goal is automatic registry updates via Service Info endpoints to reduce manual maintenance. Sasha strongly supported this approach for sustainability.

AOB

Externally Developed Best Practices & Publication Policy

- Angela asked whether externally developed best practices and the publication policy should go through TASC or remain with Secretariat/PSC
- Sasha noted this is mainly a GA4GH leadership-level decision but supported TASC review for expert feedback, especially on dependencies
- Andy agreed, warning that keeping it outside TASC could miss the right audience

Publications Process

- Moni asked about a publications committee
- Angela explained there isn't one; a new policy is being drafted for PSC to review GA4GH papers
  Sasha confirmed a leadership-level publications process is forthcoming
- Moni will share examples from other groups once the policy circulates

Future State Diagram Discussion

- Andy reminded the group about Bob's state diagram work and proposed a sub-meeting to discuss details
- Sasha emphasized the strategic importance of accurately defining product states, noting potential website use and the need for precise wording

Next Meeting Planning

- The December TASC meeting will be canceled due to low attendance
- The scheduled time will instead be used for a sub-meeting on the state diagram for interested participants
- Jinny will send a follow-up email to coordinate participation

2025-10-28: TASC Meeting

Chairs: Andy Yates Mamana Mbiyavanga, Sasha Seigel

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Attendees: Reggan Thomas (GA4GH),Venkat Malladi,Tom Conner,Mamana M, Nara S, Moni M, Jaime Delgado, Jimmy Payyappilly,Miro Cupak,Angela Page,Brian O Connor,Larry Babb, Jinny Park
Regrets: Michael Baudis

	Actions Arising	Assigned To	Deadline
1.	Clarify and document the distinctions between versioning, releases, and maturity	Andy/Jon	TBD
2.	Update and align product lifecycle terminology and website structure to reflect new stages	Jon	TBD
3.	Organize recommendations and ADRs for better discoverability on GitHub and the website	Mamana	TBD
4.	Work on the GA4GH website registry and move DRS map generation to automation	Brian/Venkat/Jimmy	TBD

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Sasha/Mamana/Andy	5 mins
2.0	Previous action items	Sasha/Mamana/Andy	10 mins
3.0	Maturity model / Product lifecycle • Andy: High level review from connect session - minutes • Andy: Product state and development - slides	Andy/Jon	30 mins

4.0	Placement of TASC approved recommendations - slides
	• Three items to go out
	  ○ TASC Governance
	  ○ TASC Technical Specification Development
	  ○ GA4GH Product Owners
	• Proposals for placement on GitHub and ga4gh.org
	• PR#76
		Mamana	20 mins

5.0	GA4GH website registry Where we currently are (correct)?	Brian/Venkat	15 mins

	• Simple/temporary Google form to collect registry info for DRS • DRS map, code to generate that from the spreadsheet, see Brian's code https://github.com/NimbusInformatics/ga4gh-registry-tools • Michael's issue/PR for adding geolocation: https://github.com/ga4gh/TASC/issues/67 Where do we want to go (correct)? • Get the registry updated to include 1) geolocation and 2) API-specific attributes • Bulk submit these DRS registrations to the registry • Create a user-friendly submission form/process… including validation • Generate a map view on the GA4GH website What are the next steps? Correct? Timeline? • [Brian] make a script to convert to JSON for bulk submission of the 22 DRS servers ○ Draft (ask Brian on Slack for access to the Google Spreadsheet for responses if you don't have it): https://github.com/NimbusInformatics/ga4gh-registry-tools/blob/main/generate_registry_json.py • [Jimmy and team] update the registry to include 1) geolocation and 2) API-specific attributes • [Jimmy and team] user-friendly submission form/process… including validation • [Jimmy and team] Generate a map view on the GA4GH website Action Item: can Jimmy meet with Brian to continue the above work?		
6.0	Cross-collaboration between foundational and technical work streams	Moni (Moved to Nov 25)	
7.0	A.O.B Next meeting - 25th Nov 2025 at 9 pm BST / 4 pm ET / 1 pm PT		5 mins

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	Previous Actions Arising	Assigned To	Deadline	Status
1.	Schedule an introductory chat with Wendi from HDR UK at the upcoming plenary to discuss potential collaboration on the Safe People Registry.	Moni	Next meeting	Completed
2.	Follow up with Wendi's technical team to further understand the HDR UK Safe People Registry and explore integration with GA4GH passports.	Moni	Next meeting	Completed
3	Develop a problem statement and scope for a potential GA4GH AI work stream, including key priorities and a business case.	Sasha	Next meeting	Ongoing
4.	Announce the plans for the GA4GH AI work stream at the upcoming plenary session.	Sasha	Next meeting	Completed
4b	Recruit co-leads for the GA4GH AI work stream.	Sasha	Next meeting	Ongoing
5.	LinkedIn post for DRS server map	Reggan	Next meeting	Completed 3 weeks ago

Meeting recording:
https://us02web.zoom.us/rec/share/ClMo7Ba7NclxzE_M1rwpbuTgeSd2EqEQMZtPd95EGoFdqtMpWwo3eTmWhaKZSIcQ.SNstptLWDzuGA4EF?startTime=1761656398000
Passcode: 3M#YNMzX

Pre-meeting notes:

Michael:

- TBD - transfer of service-info from ga4gh-discovery => who? (privileges)
    - basis for protocol update, GeoLocation

Meeting minutes:

Summary:

The meeting focused on extending GA4GH's maturity model to policies and APIs, distinguishing versioning, releases, and feature-level maturity, and exploring incremental updates for faster iteration while maintaining a clear source of truth. The product lifecycle framework and GA4GH website improvements were reviewed, emphasizing feature-specific maturity, major versus minor releases, clearer version histories, maintenance statuses, and potential tabular views with clarified terminology. Mamana presented the organization of TASC recommendations, proposing

separate folders for detailed policy/process documents and concise ADRs, using Airtable for discoverability while keeping ADRs in GitHub and documenting outcomes neutrally. Brian provided updates on website registry integration, including automating submissions and resolving geolocation data, with follow-up discussions planned on ADR presentation, metadata, folder structure, and registry processes for the next meeting.

Maturity Model Discussion

Andy opened the discussion by summarizing insights from the recent Connect workshop, where participants in three breakout groups explored extending GA4GH's maturity model beyond data models to include policies and APIs. He noted general consensus that the framework could apply broadly, though certain adjustments might be necessary depending on the context.

A central theme was the distinction between versioning, releases, and maturity, which are often used interchangeably:

- Versioning captures changes in the product itself.
- Releases represent formal points of publication.
- Maturity reflects the readiness of a product, feature, or standard for adoption.

The group agreed that clarifying these distinctions would improve understanding of GA4GH's product lifecycle processes.

Moni raised the challenge of integrating a "living standard" model into GA4GH governance, pointing out that policy documents differ from technical standards. She noted that some maturity stages, like "trial use," might not be applicable to policies, whereas stages like deprecation remain relevant when policies become outdated or replaced.

Larry emphasized that GA4GH's reliance on discrete, versioned approvals limits fully continuous updates, unlike W3C's HTML or CSS, which evolve continuously. He described the maturity model as a practical midpoint, offering flexibility while retaining governance oversight.

Venkat suggested implementing smaller, incremental updates (e.g., 2.0 → 2.01) to allow faster iteration. Moni followed up, questioning how GA4GH could maintain a clear source of truth if different adopters implemented slightly different versions. Larry clarified that applying maturity at the feature level, rather than the product level, enables each feature to progress independently through stages like draft, trial use, normative, or deprecated. This approach allows features to evolve while keeping governance manageable.

Product Lifecycle Discussion

Andy presented slides on behalf of Bob, illustrating a product lifecycle framework that defines how products, releases, and features interact. Key points included:

- Each product carries an overall lifecycle status (e.g., concept, active, dormant).

- Each release undergoes PDAP review to determine if it is maintained or unmaintained.
- Within each release, individual features progress independently through maturity stages and may evolve over multiple releases or be removed before publication if not adopted, a process Bob referred to as “dying on the vine.”

Larry noted that this structure enables GA4GH to notify adopters of potential risks associated with draft features and to communicate breaking changes transparently. He emphasized that only major releases require full PDAP review, while minor releases are reviewed by the Product Review Committee to ensure alignment without unnecessary bureaucracy.

Venkat cautioned about “feature creep,” and the group agreed that clear governance boundaries are needed to prevent uncontrolled expansion of features between releases.

Jon updated the team on GA4GH website improvements:

- The previous linear PDAP framework didn’t fully reflect how products evolve; the new lifecycle model includes stages such as study group, active, inactive, and archived, with early “pre-planning” and “study group” phases merged for simplicity.
- Improvements include clearer version histories, maintenance status indicators, and review status visibility. Only the latest approved version is prominently displayed, while historical versions remain accessible.
- Venkat suggested a tabular view to facilitate filtering and comparison.
- Currently, data is drawn from a WordPress database; Sasha noted the long-term goal is to pull directly from the Implementation Registry for consistency and automation

Terminology for product status was discussed:

- Angela raised concerns that terms like “active” and “inactive” might mislead the public; “inactive” could imply a product is obsolete even if it remains stable.
- Moni highlighted the need to distinguish between development activity and usability.
- Andy clarified that “inactive” reflects the team’s capacity to maintain a product, not its functionality.
- Sasha explained that product lifecycle status shows whether a product is under development or paused, while maintenance status indicates if specific releases are actively supported.
- Jaime proposed replacing “inactive” with “dormant”

Placement of TASC Approved Recommendations

Mamana presented slides on recently approved task outputs, emphasizing the importance of communicating recommendations to the wider GA4GH community. He raised two key questions: how recommendations or directives should be presented, and how outputs should be organized on GitHub and the website for discoverability.

Mamana described two main document types:

- Policy or process documents: comprehensive, living guides covering workflows or domains, updated as processes or technologies evolve.
- Architectural Decision Records (ADRs): short, immutable records capturing individual decisions, context, alternatives considered, and consequences.

Mamana proposed maintaining both types: policies in a “recommendations or directives” folder, with linked ADRs in a separate folder. This preserves detailed guidance while clarifying individual decisions.

To improve accessibility, Mamana suggested using Airtable to present metadata for each recommendation, enabling filtering on the website. He submitted a GitHub pull request proposing a reorganized folder structure for recommendations, implementation documents, and governance outputs.

Jon demonstrated a temporary Airtable implementation, showing how users could filter outputs by type or status. He emphasized that the long-term plan is to integrate directly with GitHub, while Airtable provides a functional stopgap.

Moni asked how positive and negative consequences of decisions would be determined. Mamana clarified that slide examples were illustrative and that some decisions would have negative consequences, but the goal is to document all outcomes clearly.

Andy suggested framing outcomes as opportunities rather than labeling them negatively, and Moni agreed that consequences should be presented neutrally.

Sasha added that ADRs are primarily for internal reference, and only policies and recommendations should appear on the public website, while ADRs remain in GitHub for transparency.

GA4GH Website Registry

Brian provided a brief update on registry integration (more info in agenda):

- He outlined a process to automate submissions from Google Sheets for the registry.
- Geolocation data for entries is being resolved.
- Additional discussion and refinement will occur offline before the next meeting.

2025-09-23: TASC Meeting

Chairs : ~~Andy Yates~~ Mamana Mbiyavanga, Sasha Siegel
Attendees: Mónica Muñoz Torres, Jaime Delgado, Brian O’Connor, Alex Wagner, Venkat Malladi Jimmy Payyappilly Dashrath, Bob Freimuth, Ian Fore ,John Marshall,Jinny Park,Jaime,Tom Connor,Jonathan Lawson

Global Alliance for Genomics & Health

Regrets: Francesca Frexia, Andy Yates, Melissa Cline,

	Actions Arising	Assigned To	Deadline
	Schedule an introductory chat with Wendy from HDR UK at the upcoming plenary to discuss potential collaboration on the Safe People Registry.	Moni	
2.	Follow up with Wendy's technical team to further understand the HDR UK Safe People Registry and explore integration with GA4GH passports.	Moni	
3.	Develop a problem statement and scope for a potential GA4GH AI work stream, including key priorities and a business case.		
4.	Announce the plans for the GA4GH AI work stream at the upcoming plenary session.	Sasha	
5.	Recruit co-leads for the GA4GH AI work stream.	Sasha	
6.	LinkedIn post for DRS server map	Reggan	

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana / Sasha	5 mins
2.0	Previous action items	Mamana / Sasha	10 mins
3.0	DRS Registry - discussion • Google Form: https://docs.google.com/forms/d/e/1FAIpQLSeEI6QOt	Venkat / Brian / Jimmy	30 mins

	NQoyha0ZcLQYaTVsA3IkWZLOzz9g1L7ZQjke2MIBA/viewform?usp=dialog • Responses: https://docs.google.com/spreadsheets/d/12lXZvpwzQ3nbjNIxJoqG57U5qFe8PhQ4smeJCeS5ZkM/edit?usp=sharing • GitHub Repo for making a report from the registry: https://github.com/NimbusInformatics/ga4gh-registry-tools • See below for the email and screenshot of report		
4.0	https://github.com/ga4gh/TASC/issues/73 Review updates Andy made to template	Tom	15 mins
5.0	Maturity model - TASC plenary session TASC Technical Specification Maintenance	Sasha	20 mins
6.0	https://github.com/ga4gh/TASC/issues/39 Draft - DRAFT_Citing GA4GH Standards recommendation	Francesca (move to Nov 25th)	
7.0	A.O.B • Concept of AI Workstream - Discussion / feedback • HDR UK's Safe People Registry Next meeting - 28th Oct 2025 at 1 pm BST /9 am ET / 6 am PT	Sasha Moni	10 min 2 min

	Previous Actions Arising	Assigned To	Deadline	Status
1.	TASC governance document - provide feedback	All	Next meeting	Complete
2.	Draft white paper on controlled access data	Venkat	Next meeting	On hold
3	Include Federated ML group	Venkat	Next meeting	On hold
4.	Create an issue in the TASC repository regarding adding geolocation evidence to service information. https://github.com/ga4gh-discovery/ga4gh-service-info/pull/74	Michael Ba…	Next meeting	Complete
4b	I prepared a google form for collecting DRS server info, transforming to JSON for submission to the tech team.	Brian O'Co…	Next meeting	Complete
5.	Prioritize task for the in-person meeting	All	Next meeting	Complete

Meeting recording:
https://us02web.zoom.us/rec/share/aGBBWdJKzYhCkVb7XVeHmsYxImNMKXEOUNazYphpTIFXnZBV4AO4eEHuu64W2RzK.EwMg_-1KEmSaZiYk

Global Alliance for Genomics & Health

Passcode: DfY$gZS4

Meeting minutes:

Current DRS registrations:

GA4GH Registry Summary

Name	Artifact	Registry Version	Live Version	Organization	Service-info URL	More
Cavatica DRS API	drs	1.0.0	1.3.0	Seven Bridges	https://cavatica-ga4gh-api.sbgenomics.com/ga4gh/drs/v1/service-info	Show JSON registration
Cancer Genomics Cloud DRS API	drs	1.0.0	1.3.0	Seven Bridges	https://cgc-ga4gh-api.sbgenomics.com/ga4gh/drs/v1/service-info	Show JSON registration
The Kids First Data Resource Center (KFDRC)	drs	1.1.0	1.0.3	Childrens Hospital of Philadelphia	https://data.kidsfirstdrc.org/ga4gh/drs/v1/service-info	Show JSON registration
National Center for Biotechnology Information DRS API	drs	1.2.0	1.2.0	National Center for Biotechnology Information	https://locate.be-md.ncbi.nlm.nih.gov/ga4gh/drs/v1/service-info	Show JSON registration
NCI DCFS	drs	1.1.0	1.0.3	NCI Data Commons Framework Services	https://nci-crdc.datacommons.io/ga4gh/drs/v1/service-info	Show JSON registration
BioData Catalyst	drs	1.1.0	1.0.3	BioData Catalyst	https://gen3.biodatacatalyst.nhlbi.nih.gov/ga4gh/drs/v1/service-info	Show JSON registration
AnVIL	drs	1.1.0	N/A	AnVIL	https://gen3.theanvil.io/ga4gh/drs/v1/service-info	Show JSON registration

Total services: 7

Brian's email for DRS registry:
Hi Everyone,

TL;DR: I want to make a push to get all known DRS servers in the GA4GH Registry with Geolocation info so we can draw a map of known DRS servers and show it at Plenary... ***The ask***, if you have one or more DRS servers in your platform/driver project please register/update your registration using this Google form and I'll get it updated in the GA4GH Registry and draw the map ahead of Plenary. *Please do this by **Sept 30th** so I have time to put together the figure/slides. Thanks for your help!!*

A little more details... many of you know that we're trying to update the GA4GH Registry to include geolocation information. Michael Baudis has a PR on what this might look like and Jimmy from the GA4GH Tech team is working with him to add this functionality to the registry. This is going to be awesome since it will allow us to see the global view of data availability in DRS all around the world. And coupled with DRS 1.5, which includes some basic metadata, we can understand how much data is available in DRS around the world. And it's not just DRS that will ultimately benefit here, geolocation in the registry will allow us to see the global view of WES, Data Connect, and pretty much all the other API services we have. I think it will be really helpful!

But the work is in progress and I'd really like to be able to show the map of DRS servers by plenary. So I created a simple Google form to collect this info now and will work with Jimmy and Michael to get these DRS servers registered/updated in the official registry. Filling this survey out now, though, will give me the info I need to pull together the map in time for Plenary.

The reason I'm emailing you all is I know some of you have DRS servers running today, a few are already in the registry and need to be updated, see the attached HTML. And some of you work on Driver projects that may have a DRS server but I'm not 100% certain. So I was hoping you could clarify and direct me to the right person to fill out the form if you do have a DRS server. Also, if you know of another driver project that I should reach out to please let me know too.

Thanks ahead of time!! I really appreciate everyone's help here and look forward to seeing many of you in Sweden in just a few weeks!!

Brian O'Connor, Ph.D.

—-
Summary :

The meeting discussed several key topics, including the integration of Damasc projects into GA4GH, the need for a revised product development approval process, and the importance of geolocation data for the GA4GH registry. The team emphasized the urgency of addressing these issues before the plenary. They also explored the potential for an AI workstream to support AI-ready standards and infrastructure, highlighting the need for industry partnerships and a disruptive approach. Additionally, the team discussed the integration of passports with the HDR UK safe people registry, aiming to streamline researcher identity management and compliance. The discussion focused on the significant shift in genomics data resources due to AI integration, emphasizing the need for infrastructure readiness. Sasha highlighted the transition from individual researcher queries to AI models, stressing the importance of preparing infrastructure to handle high traffic. The need for a clear problem statement, business case, and prioritized action items was underscored. Plans to announce progress at the upcoming plenary and the necessity of co-leads were discussed. Despite concerns, enthusiasm for the initiative was noted, and the session concluded with a call for further feedback and preparation for the plenary.

Action Items

- Schedule an introductory chat with Wendy from HDR UK at the upcoming plenary to discuss potential collaboration on the Safe People Registry.
- Follow up with Wendy's technical team to further understand the HDR UK Safe People Registry and explore integration with GA4GH passports.

- Develop a problem statement and scope for a potential GA4GH AI work stream, including key priorities and a business case.
- Announce the plans for the GA4GH AI work stream at the upcoming plenary session.
- Recruit co-leads for the GA4GH AI work stream.
- LinkedIn post for DRS server map

Geolocation and AI Workstream Discussions

- Sasha summarizes the need to discuss geolocation and the AI workstream, mentioning minor modifications to the tasc issue template.
- Sasha and Speaker 4 discuss the need for finalizing the template and the live rendering of the issue.
- Sasha emphasizes the importance of positioning the maturity model correctly and mentions the first directive from the tasc
- Alex agrees with the need for positioning and discusses the session description for the maturity model.
- Sasha and Alex discuss the flow of the session, including breakout topics and the glossary of terms.

DaMaSC Integration and Product Development Approval Process

- Sasha announces the integration of DaMaSC into TASC and the emergency change to the product development approval process (PDAP).
- Sasha explains the need for a narrowly defined problem statement for the PDAP to ensure success.
- Sasha mentions the three projects from DaMaSC that will be folded into the TASC and the need for product owners.
- Alex and Moni express support for the integration and the new process.
- Sasha discusses the implications for the schema registry and the need for a workshop to align on the new governance structure.

Geolocation for DRS Servers

- Brian O'Connor discusses the issues with the GA4GH registry, including the lack of a streamlined registration process and the need for geolocation information.
- Brian mentions the creation of a Google form to collect geolocation information and the need for global representation of DRS servers.
- Jimmy and Sasha discuss the plan to create a fork of the registry repo to include geolocation information.

- Brian suggests adding optional fields for extra information and explicitly including the service info URL.
- Sasha and Brian discuss the potential for a more generalized registry to include other APIs like WES and data connect servers.

Passports and Safe People Registry

- Moni shares a message from Wendy Bacon of HDR UK about their interest in implementing passports for the safe people registry.
- Sasha and Jonathan discuss the potential integration of passports with the safe people registry and the need for a standardized approach.
- Jamie suggests exploring role-based vetting and the potential for a back-end registry to streamline researcher identity verification.
- Sasha proposes scheduling a meeting with Wendy and her team at plenary to discuss the implementation details.
- Venkat emphasizes the need for a comprehensive solution that includes access to compute resources and the potential for collaboration with industry partners.

AI Workstream Proposal

- Sasha introduces the idea of an AI workstream as a foundational work stream, emphasizing its importance and potential impact.
- Moni supports the idea, suggesting a disruptive and far-reaching approach to AI implementation.
- Brian O'Connor highlights the need for partnerships with industry and the integration of AI across different work streams.
- Sasha mentions potential stakeholders like Nvidia Genomics and Google's Alpha Genome team for collaboration.
- Tom emphasizes the complexity and breadth of the AI workstream, noting the need for a comprehensive approach.

Infrastructure and AI Readiness in Genomics Data Resources

- Sasha emphasizes the importance of infrastructure in the context of AI integration with genomics data resources, particularly highlighting the shift from individual user queries to AI models.
- The speaker expresses concern about the infrastructure's ability to handle high traffic and AI-driven queries, suggesting that this aspect is more critical than the integration of AI into specific workstreams or products.

- The discussion touches on the fundamental shift in the customer base from researchers to AI models, which is seen as a significant change that requires careful planning and adaptation.
- Sasha calls for feedback and collaboration to develop a clear problem statement and business case for prioritizing AI integration in genomics data resources, aiming to address these challenges proactively.

Feedback and Next Steps for AI Integration

- Moni inquires about the next steps and how to move forward, prompting Sasha to suggest gathering more feedback and scoping out the problem statement.
- Sasha proposes writing a problem statement and making a business case to outline the initial priorities for AI integration, emphasizing the need for high-level, big-ticket items for discussion.
- The speaker expresses a desire to announce progress at the upcoming plenary, highlighting the importance of meeting the current moment and crystallizing the direction for AI at GA4GH.
- Sasha mentions the need for co-leads to volunteer and expresses optimism about the enthusiasm and questions from the participants, despite some concerns and fears.

Final Remarks and Closing the Meeting
•Sasha reiterates the importance of addressing concerns and giving more time for feedback, while also expressing a desire to make a statement at the plenary.
•The speaker acknowledges the need for recruitment of co-leads and mentions that there has been some interest but that the process needs to be formalized.

2025-08-26: TASC Meeting

Chairs : Andy Yates Mamana Mbiyavanga, Sasha Seigel
Attendees:Andy Yates, Sasha Siegel, Mamana Mbiyavanga, Reggan Thomas, Tom Conner, Bob Freimuth, Alex Wagner, Francesca Frexia, Jinny Park, Jimmy Payyappilly, Brian D O'Connor, Larry Babb, Benjamin Berk, Jon Turner, Nara Sobriera, Dashrath Chauhan, Jaime Guidry Auvil, Beatrice Amos , Venkat Malladi
Regrets: Michael Baudis Jaime Delgado

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	Actions Arising	Assigned To	Deadline

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5 mins
2.0	Previous action item	Mamana	10 mins
3.0	Voting style	Sasha	10 mins
4.0	Review TASC workshop issues	Sasha	20 mins
5.0	https://github.com/ga4gh/TASC/issues/73	Tom	15 mins
6.0	https://github.com/ga4gh/TASC/issues/39 Draft - DRAFT_Citing GA4GH Standards recommendation	Francesca	15 mins
7.0	A.O.B Next meeting - Sep 23,2025		10 mins

	Previous Actions Arising	Assigned To	Deadline	Status
1.	TASC governance document - provide feedback	All	Next meeting	
2.	Draft white paper on controlled access data	Venkat	Next meeting	
3	Include Federated ML group	Venkat	Next meeting	
4.	Create an issue in the TASC repository regarding adding geolocation evidence to service information. https://github.com/ga4gh/TASC/issues/67	Michael Ba…	Next meeting	
4b	I prepared a google form for collecting DRS server info,	Brian O'Co…	Next meeting	

	transforming to JSON for submission to the tech team.			
5.	Prioritize task for the in-person meeting	All	Next meeting	

Meeting recording:

https://us02web.zoom.us/rec/share/1YIVJIeWmvQv5NeRB98U5x_IVB9g85qK5VWUhjvNJiNpsUGkX8jqojnMDMiYJv7U.PTMUXqVuD06Frd-k

Passcode: =6yBQKP@

Meeting minutes:
Summary:

The meeting covered several key agenda items, including the review of action items from the last meeting. The governance documents were discussed but postponed for later review. The draft white paper on control access data was also deferred. The federated machine learning discussion group's updates were postponed until the next meeting. Brian updated on the issue of adding location to the service info, suggesting using ISO codes. The group approved six pieces of work from the task workshop, including the governance document and the maturity model. Francesca presented a draft recommendation document for DOI minting, discussing the structure and open points, and the group debated the need for explicit guidelines on DOI minting.

Action Items

- Review and provide feedback on the DOI minting recommendation document.
- Reach out to Michael to clarify his comments on the terminology used in the DOI minting recommendation document.
- Consider whether requiring DOI minting should be part of the PDAP going forward.
- Harmonize the comments and feedback on the DOI minting recommendation document and align it with the recently approved maturity model.
- Explore options to automate the process of requesting a DOI or make it more streamlined.
- Ensure the DOI minting naming conventions are aligned with the approved maturity model.

Discussion on Geolocation and Registry Data

- Brian discusses creating a Google form for collecting registry info for DURI servers.

- Brian mentions the pull request and comments left on it, suggesting using ISO codes for geolocation.
- Mamana Mbiyavanga asks if there are any other comments, and Speaker 1 suggests discussing it at the next meeting.
- The group agrees to review the pull request before the next meeting.

Voting Process and Approval of Workshop Outcomes

- Sasha discusses the voting process for task issues, asking if it should be private or public.
- Suggests a third option of internal voting with external results communicated as approved or not approved.
- Alex supports the idea of internal voting but external communication of approved results.
- Sasha agrees with the consensus-based approach and internal voting, with external communication limited to yes or no.

Approval of Governance Document and Other Workshop Outcomes

- Sasha announces the approval of six pieces of work from the task workshop: governance document, issue template, maturity model, product owner role, persistent URLs policy, and namespace policy.

- Sasha mentions that there were no votes on the governance document and persistent URLs policy, and one abstention vote on the governance document.

- The group discusses the importance of discussing comments before voting to avoid reevaluation cycles.

- Sasha suggests including comments in the repo for future reference.

Issue Template and Form Simplification

- Tom Conner discusses the need to simplify the issue submission form and the resulting issue.
- Speaker 2 suggests having multiple forms for different types of issues to streamline the process.
- Tom Conner agrees to work with Andy and Mamana to create new templates for different tasks.
- Mamana Mbiyavanga explains the intention behind the comprehensive information in the submission form to assist with pre-filtering and assessing issues.

DOI Minting Process and Recommendation Document

- Francesca presents the draft recommendation document for DOI minting and discusses open points.
- The group discusses the structure of the document and the need for feedback on the proposed changes.
- Francesca mentions the need to define a DOI in an XML configuration file and the use of the STD designator field.
- The group discusses the practical steps for DOI minting and the need for a list of use cases to help with the process.

Discussion on DOI Minting for Different Outputs

- Sasha questions the value of minting DOIs for blog posts and the need for explicit guidelines on what should have a DOI.
- Brian suggests that DOIs are convenient for citations, especially for blog posts.
- The group discusses the need for consistency in minting DOIs and the potential impact on registries.
- Francesca suggests harmonizing the terminology and definitions with the maturity model recently approved.

Consistency and Future Requirements for DOI Minting

- Sasha asks if the DOI minting process should be a requirement for the PDAP in future iterations
- Andy and Tom Conner agree that consistency is important and that DOIs should be required where applicable.
- The group discusses the potential benefits of DOIs for registries and the need for clear guidelines on what should have a DOI.
- The meeting concludes with plans to continue the discussion offline and finalize the DOI minting process.

2025-06-24: TASC Meeting

Chairs : Andy Yates Mamana Mbiyavanga,Sasha Seigel
Attendees:Alex Wagner, Bob Freimuth, Kathy Reinold , Larry Babb , Venkat Malladi ,Benjamin Berk ,Jon Turner, Nara Sobreira , Munoz Torres, Monica , Dashrath Chauhan ,Jaime Delgado , Reggan Thomas
Regrets: Michael Baudis

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	Actions Arising	Assigned To	Deadline

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	
2.0	Previous action item	Mamana	
3.0	TASC Governance document	Andy/Sasha/Mamana	
4.0	Verified implementations	Andy	
5.0	White paper on AI controlled access datasets Protecting Human Genomic Data when Developing Gen…	Venkat	
6.0	Agenda ideas for in-person hackathon - Geolocation PR for registry (Brian O) - Node card support in the registry (Brian O)	Venkat	
7.0	Adopting technical specification maintenance across Workstream	Alex / Beatrice	
8.0	A.O.B Next meeting - Jul 15 - 18 at EBI		

	Previous Actions Arising	Assigned To	Deadline	Status
1.	TASC governance document - provide feedback	All	Next meeting	
2.	Draft white paper on controlled access data	Venkat	Next meeting	
3	Include Federated ML group	Venkat	Next meeting	
4.	Create an issue in the TASC repository regarding adding geolocation evidence to service information. https://github.com/ga4gh-discovery/ga4gh-service-info/pull/74	Michael Ba…	Next meeting	

5.	Prioritize task for the in-person meeting	All	Next meeting	

Meeting recording:
https://us02web.zoom.us/rec/share/7aYIJY5wHlGepeEhvPazdQ1jqCkCEx84eJnHVWaEsrlLIB4htCWejJUbOFCjiw7-.UC5icFs5zf7G0INF

Passcode: r!6PK#1%

Meeting minutes:

Discussion on Task Governance Document

- Andy Yates and other participants debate the preconditions for tasc to take on new issues, emphasizing the need for sufficient interest and resources.
- Larry emphasizes the importance of having champions and invested users for tasks to ensure they are properly resourced and completed.
- Sasha and Andy Yates discuss the decision-making process within TASC, including the assignment of issue owners and the need for stakeholder involvement.
- Participants debate the quorum requirements for voting, with suggestions ranging from 50% to 75% of voting members.
- The discussion includes the possibility of allowing asynchronous voting to address attendance issues.

Finalizing Governance Document and Next Steps:

- Participants agree to remove the quorum paragraph and the substitution of task members for community stakeholders from the governance document.
- The importance of having a high voting threshold for critical decisions is emphasized, with a suggestion of requiring 12 votes for approval.
- Andy Yates suggests bringing the final version of the governance document for approval at the in-person task meeting in July.
- The meeting transitions to discussing the TASC workshop agenda, with participants encouraged to review the task issues tracker and suggest topics for discussion.
- The use of issue labels in the tracker is proposed to facilitate voting and prioritization of topics for the workshop. (IN PERSON)

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2025-05-27: TASC Meeting

Chairs : Andy Yates Mamana Mbiyavanga,Sasha Seigel
Attendees: Reagan Thomas , John Marshall ,Venkat Malladi, Jimmy Payyappilly Chen Chen,Brian O Connor, Michael Baudis, Deeptha Srirangam , Angela Page, Dashrath Chauhan , Pavel Nikonorov, Kathy Reinold
Regrets: Beatrice Amos , Francesca Frexia, Jon Turner, Moni Muñoz Torres

	Actions Arising	Assigned To	Deadline
1.	TASC governance document - provide feedback	All	Next meeting
2.	Draft white paper on controlled access data	Venkat	Next meeting
3	Include Federated ML group	Venkat	Next meeting
4.	Create an issue in the TASC repository regarding adding geolocation evidence to service information.	Michael Baudis	Next meeting
5.	Prioritize task for the in-person meeting	All	Next meeting

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	

2.0	Review Actions
	• GA4GH Connect 2025 report back
	  ○ TASC-athon
	  ○ Finding Synergy – TASC/DaMaSC
		ALL	10min

3.0	• PR #48 - Update service info artifact list to add seqcol and rename refget • PR#61 - GA4GH Service Info Types list Update	John / Mamana	20min
4.0	New issues/projects initial discussion • Adopting technical specification maintenance across Workstream • AI/model sharing for controlled access data - Craft a white paper. • Add GEO location to service registry ○ see issue on ga4gh-discovery/ga4gh-service-info • What is the correct repo? • Trustworthy geolocation evidence	Beatrice Amos Venkat Venkat / Brian Michael Pavel Nikon…	35min

5.0	Upcoming in-house meeting in July — logistics and other planning aspects	Reggan / Sasha	15min
6.0	A.O.B Next meeting - Jun 24, 2025 at 8 am ET/ 1 pm BST / 2 pm SAST / 10 pm AET	ALL	

	Previous Actions Arising	Assigned To	Deadline	Status
1.				
2				

Meeting recording:
https://us02web.zoom.us/rec/share/BB2mSpQ5ztswz4ozRbA5CAkjCw0arguL7pVrFBGAHXGSxjU3ZCvPCnPxdHUEE0_0.4MHIv8_ZxIilMR0-

Passcode: &dJgM!1h

Meeting minutes:

- Issues closed during the TASC'athon at Connect 2025
  - Central Metadata Registry for approved standards · Issue #1 · ga4gh/TASC · GitHub
  - Tracking Cross WS Projects · Issue #3 · ga4gh/TASC · GitHub
  - OpenAPI3 to HTML documentation generator · Issue #12 · ga4gh/TASC · GitHub
  - Promote Slack chat via badges/buttons on repos · Issue #44 · ga4gh/TASC · GitHub
  - Moving Crypt4GH into its own GitHub repo · Issue #40 · ga4gh/TASC

Summary:

The TASC meeting covered several key topics. The taskathon at Connect was successful, closing issues and creating actionable points. The group discussed the GA4GH service info type list pull request, which was merged after resolving technical issues. They also addressed the need for a white paper on AI model sharing for controlled data sets, with a draft to be ready by July. The addition of geolocation to service info and the registry was debated, with a proposal to use Geo JSON and optional encrypted credentials. Finally, plans for an in-person meeting in July were outlined, emphasizing the need to prioritize tasks and finalize attendance.

Review of Connect Meeting Sessions

- Andy Yates provides a recap of the talkathon session at Connect, highlighting the success in closing issues and creating actionable points.

- Sasha Siegel shares her positive experience at the talkathon, emphasizing the productivity and potential for future meetings.
- Andy Yates and Sasha Siegel discuss the importance of maintaining momentum and synergy between TASC and DaMaSC groups.
- Michael Baudis reflects on the need for formal processes and documentation within TASC.

Discussion on Governance and Leadership

- Sasha Siegel emphasizes the need for a governance structure to enable leadership and decision-making within TASC.
- Sasha Siegel suggests revisiting the draft governance document and having a reasoned debate on its implementation.
- Kathy Reinold joins the discussion, agreeing on the importance of maintaining momentum and synergy between groups.
- Andy Yates and Mamana Mbiyavanga support the idea of moving forward with the governance structure and prioritizing tasks for the upcoming in-person meeting.

Pull Request on Service Info Type List

- John Marshall provides an update on PR 48, which involves the GA4GH service info type list and the renaming of the "ref get" value.
- John Marshall explains the technical details and the process of resolving the pull request over the past year.
- Andy Yates and Michael Baudis express support for merging the pull request, emphasizing the importance of maintaining historical information.
- The group decides to merge the pull request, with Andy Yates executing the merge on GitHub.

Discussion on AI Model Sharing for Controlled Data Sets

- Venkat Malladi introduces the topic of AI model sharing for controlled data sets, referencing the NIH's expectations.
- Venkat Malladi proposes that TASC take on the task of crafting a white paper on this topic, with a draft to be ready by the next meeting.
- Michael Baudis and Sasha Siegel express cautious support, emphasizing the need for thought leadership and careful consideration.
- The group agrees to start drafting ideas and share them in the TASC Slack channel for further discussion.

Geolocation in Service Info and Registry

- Michael Baudis raises the issue of adding geolocation information to the service info and registry, referencing ongoing discussions in the iHTF.
- Venkat Malladi provides context, mentioning the need for geolocation information in the DURI paper and the potential use of Geo JSON.
- The group discusses the technical details and potential implementation, with Michael Baudis suggesting a prototype to be discussed at the next meeting.

John Marshall highlights the need for better documentation of the service info specification.

Planning for In-Person Meeting in July:

- Sasha Siegel outlines the logistics for the in-person meeting in July, including travel arrangements, accommodation, and budget.
- Sasha Siegel emphasizes the importance of prioritizing tasks for the meeting and having a clear agenda.
- The group discusses the need for representation from various work streams and the importance of including all relevant stakeholders.
- Sasha Siegel encourages participants to confirm their attendance and provide input on the agenda for the in-person meeting.

Final Discussion and Action Items:

- Mamana Mbiyavanga summarizes the key points discussed during the meeting, including the pull request on the service info type list and the AI model sharing topic.
- The group agrees to create issues on the task GitHub repository for further discussion and prioritization.
- Sasha Siegel reiterates the importance of revisiting the governance document and prioritizing tasks for the in-person meeting.

2025-03-18: TASC Meeting

Attendees:
Regrets:

Agenda Item	Assigned To
Welcome & Confirm Agenda	Mamana
Review Actions	ALL
TASC-athon Connect Session Agenda formation	Andy Yates
AOB	

Note: This will be a shorter call.

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2025-02-25: TASC Meeting

Attendees: Amreen Mohamed, Mamana M, Michael Baudis, Alex Kanitz, Alex Wagner, Andy Yates, Beatrice Amos, Angela Page, Jimmy P, Sasha Siegel, Karen Cranston, Kathy Reinold, Jonathan Fuerth
Regrets: Francesca Frexia, Jonathan Lawson

Agenda Item	Assigned To
Welcome & Confirm Agenda	Mamana
Review Actions	ALL
Issue #43 - Encourage/mandate hosting (Open)API specs at well-known location Issue #45 - Broadcasting an API implementation's optional capabilities Issue #46 - Streamlined API release policies	Alex Kanitz
DaMaSC **DaMaSC Sli.do links:** Schema Registry: https://app.sli.do/event/wGKQMBojgWjFTwCJDzSxp3 Best Practices: https://app.sli.do/event/iKAtzHyokw6AHstJYrXF1C Schema Registry: Best Practices:	Kathy Reinold and DaMaSC team

Meeting Transcript

- Discuss the relationship between DaMaSC and TASC, and how the initiatives presented fit into the GA4GH product development process, at the upcoming Connect meeting.
- Submit schemas to the DaMaSC schema registry prototype to provide feedback.
- Provide feedback on the DaMaSC initiatives through GitHub issues or by reaching out to the DaMaSC team.
- Discussion on Hosting Open API Specs

2025-01-21: TASC Meeting:

Attendees:Kathy Reinold,Robert Freimuth, Neerjah Skantharajah, Mamana Mbiyavanga, Jon Turner, Michael Baudis, Dashrath Chauhan, Amreen Mohamed
Regrets: Francesca Frexia, Alex Wagner (Cat-VRS conflict), Beatrice Amos (Cat-VRS conflict),Reggan Thomas (ISHG meeting)

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Review Actions	ALL	
3.0	General ● TASC Webpage ● Expanding TASC Meeting Participation and Engagement ● Rotating schedule for TASC meetings ● Focused Agenda Format for TASC Meetings ● April Connect	Amreen/Andy/Mamana	
4.0	GitHub Harmonization ● Issue #54 ● Initial Process Documents: ○ GA4GH GitHub Alignment TASC - Initial P… ○ GA4GH Product Repository review	Jon	
5.0	Issue Updates ● Issue #29 - GA4GH Pagination guide ● Issue #16 - GA4GH Namespace Policy ● Issue #50 - GA4GH Persistent URL policy ● Issue #45 - Broadcasting an API implementation's optional capabilities ● Issue #39 - Citing GA4GH Standards ○ Support material for the discussion on Iss…	Andy/Mamana Alex Wagner/Bob Alex Wagner/Bob Alex Kanitz Francesca & Chen John, Mamana & Andy	

	○ https://github.com/ga4gh/ga4gh-doi/blob/suffix-designator-generation/suffix-generator.py ● PR #48 - Update service info artifact list to add seqcol and rename refget		
6.0	DaMaSC	Kathy Reinold and DaMaSC team	

- Past discussion on GitHub Harmonization (meeting_minutes-GA4GH TASC 2020-2021-2022-2023 , meeting_minutes-GA4GH TASC 2020-2021-2022-2023
  - GA4GH Github organisation repo landscape analysis - Slides
  - Resume the TravisCI and Github Actions conversation

Meeting Transcript

2024-11-26: TASC Meeting:

Attendees: Andy Yates, Angela Page, Amreen Mohamed, Alex Wagner, Beatrice Amos, Mamana Mbiyavanga, Kathy Reinold, Jimmy Payyapilly, Jon Turner, Francesca Frexia, Reagan Thomas, Chen Chen, Dasrath Chauhan
Regrets:

Meeting Transcript

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Review Actions	ALL	
3.0	Pagination Document	ALL/Andy	
3.1	● GitHub Markdown ● Google Document	Andy/Mamana	
4.0	TASC Webpage Demo	Jon Turner	
5.0	Issue Updates ● PR #48 - Update service info artifact list to add seqcol and rename refget ● Issue #49 - Moving standards into maintenance mode ● Issue #39 - Citing GA4GH Standards ○ Support material for the discussion on Iss… ○ https://github.com/ga4gh/ga4gh-doi/blob/suffix-designator-generation/suffix-generator.py	Mamana & Andy Reggan Francesca & Chen Alex Wagner/Bob Alex Wagner/Bob Alex Kanitz	

	• Issue #16 - GA4GH Namespace Policy • Issue #50 - GA4GH Persistent URL policy • Issue #45 - Broadcasting an API implementation's optional capabilities		
6.0	DaMaSC	Kathy Reinold/Beatrice Amos	

Decisions

- Temporarily close the TASC GitHub repository, allowing for some exceptions depending on urgency.

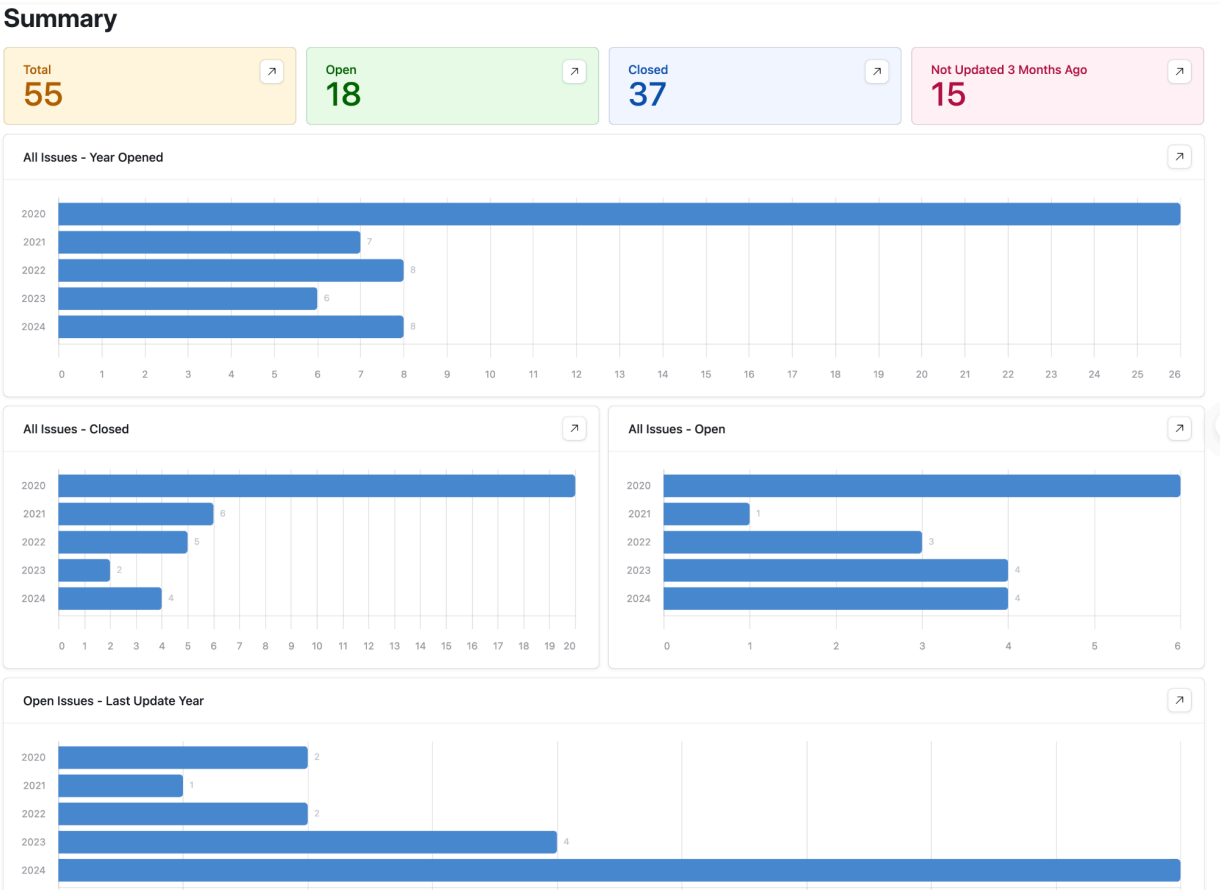
Actions

- Jon to incorporate feedback from meeting into TASC webpage and present new draft
- Alex to break out the name space policy issue into dedicated technical tasks and assign them.
- Francesca to send an email to the group asking for feedback on the proposed steps for citing G4GH standards.

Minutes

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Summary



2024-10-15: TASC Meeting:

Attendees: Reggan Thomas (GA4GH), Jimmy Payyappily, Mamana Mbiyavanga, Jonathan Turner, Neerjah Skantharajah, Francesca Frexia (CRS4)
Regrets:

Meeting Recording

	Agenda Item	Assigned To	Time
1.0	Welcome & Review previous actions	Mamana	5min
2.0	Pagination Document	ALL/Andy	
3.1	• GitHub Markdown • Google Document	Andy/Mamana	
3.0	Issue Updates • Issue #36 - IANA Application for a Media Type ○ Media Types	Mamana & Jimmy	

	○ https://www.iana.org/assignments/media-types/application/vnd.ga4gh.passport+jwt ● PR #48 - Update service info artifact list to add seqcol and rename refget ● Issue #49 - Moving standards into maintenance mode ● Issue #39 - Citing GA4GH Standards ○ Support material for the discussion on Iss… ○ https://github.com/ga4gh/ga4gh-doi/blob/suffix-designator-generation/suffix-generator.py ● Issue #16 - GA4GH Namespace Policy ● Issue #50 - GA4GH Persistent URL policy ● Issue #45 - Broadcasting an API implementation's optional capabilities	Mamana & Andy Reggan Francesca & Chen Alex Wagner/Bob Alex Wagner/Bob Alex Kanitz	

Decisions:

- Close the following issues:
  - Issue #22 - Approaches to locating objects of interest
  - Issue #36 - IANA Application for a Media Type
- Create an issue for the following topics:
  - GitHub Organization - Jon
  - Creating a simple registry on GA4GH objects sitting in external databases - Mamana
- Andy assigned to PR #48

Actions:

- [ ] Jon to draft GitHub organization proposal and share with Jimmy, Peter, Andy, Angela (and future PML if possible)
- [ ] Amreen, Mamana, Andy to identify a community member who can join Jon and bring value to the GitHub organization issue
- [ ] Jon to create a separate issue for GitHub organization
- [ ] Amreen to follow up on pagination comms and update the group
- [ ] TASC webpage - Jon is the point of contact for this and will move this forward
- [ ] Bring this idea to the next meeting and get TASC members' opinions: Temporarily close the TASC GitHub repository to new submissions for a defined period (e.g., 6 months). During this time, the focus will be on resolving all outstanding issues within the project. This pause will allow the team to concentrate fully on addressing existing concerns without the pressure of incoming requests.
- [ ] Mamana to close issue #22
- [ ] Mamana to close issue #36 and create separate issue on GA4GH objects in external databases, keeping in mind this existing list
- [ ] Jimmy to connect with Stephanie (Comms team) and generate a list of externally registered GA4GH items.

- [ ] Andy, Mamana, Amreen to determine approaches to asynchronous engagement and removing barriers to participation from people in Asia/Pacific region
- [ ] Francesca and Chen to connect on DOI issue

Minutes

- Jon to conduct landscape analysis to understand how current GA4GH teams are using/organizing GitHub spaces
    - Runs parallel to issue #40: moving Crypt4gH into its own repo
    - The recommendation for development of new repositories may be different than the solution for issue #40
- Pedigree team shared a document of the process they went through when developing a repo
- Create a separate issue for this and link to issue #40

Reviewing TASC Issue Stats

- 53 total issues, with 20 open, 33 closed, and 18 not updated within the last 3 months
- Sometimes we discuss the issue in the meeting, but the issue itself is not updated
- Majority of issues were submitted in 2022
- 7 issues remain from 2022, 4 issues remain from 2024
- Overall, there are issues from years ago that have yet to be updated. Mamana proposes that we discuss more issues asynchronously (outside of meetings) so that we can address more of them.
- There is no timeline stated in the governance document because if an issue doesn't follow the timeline, there's no recourse/mediation process
- Proposed Idea: Temporarily close the TASC GitHub repository to new submissions for a defined period (e.g., 6 months). During this time, the focus will be on resolving all outstanding issues within the project. This pause will allow the team to concentrate fully on addressing existing concerns without the pressure of incoming requests.

Closing Issue #22

- **Decision:** We are moving forward with closing Issue #22 - Approaches to locating objects of interest

Issue #36 - IANA Application for a Media Type

- Mamana proposes that we close this issue and create a separate one that's focus on creating a simple registry on GA4GH objects sitting in external databases
- Of note, there is somewhat of a list available already: https://www.iana.org/assignments/media-types/media-types.xhtml
- Maybe we just need some documentation directing people to that link ^

PR #48 - Update service info artifact list to add seqcol and rename refget

- Andy to be assigned to this issue

Issue #49 - Moving standards into maintenance mode

- Breakout session at Connect reinforced idea that having a product management lead is the right approach to this issue
- There's no one size fits all solution from GA4GH pov, but having a strong product lead will ensure natural flow into GA4GH PD&A process
- The eventual product for issue #49 will be some type of recommendation on behalf of TASC suggesting product owners for each product, along with a job description (include timed appointment)
    - Ensure that senior leadership committee, and exec have feedback into this
    - Presentation by RT - Issue 49 - Next steps.pptx
    - PO profile (to be edited)

Issue #39 - Citing GA4GH Standards

- Quick recap: https://docs.google.com/presentation/d/1CWIEbLo48oi900Evzmr2zSzbn1HF3Wvh0XzgMYxXKII/edit?usp=sharing
- Francessca to connect with Chen to get more information on technical progress
- Next step: discuss how to define the <std_designator> field and create summarized version of document, which will eventually become the recommendation document that comes out of TASC

Issue #16 - GA4GH Namespace Policy - documentation in progress

Issue #50 - GA4GH Persistent URL policy

- AY: Alex sent through a change which starts to address this - generate persistent URLs through W3IDs
- Documentation in progress
- Jimmy P. working on implementation

2024-09-24: TASC Meeting: CANCELLED

2024-08-27: TASC Meeting:

Attendees: Mamana Mbiyavanga, Alex Wagner, Jimmy Payyapilly, Angela Page, Beatrice Amos, Jonathan Lawson, Andy Yates, Robert Freimuth
Regrets: Alex Kanitz (ELIXIR Cloud & AAI / Cloud WS)

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Pagination Document	ALL/Andy	

3.1	• GitHub Markdown • Google Document	Andy/Mamana	

3.0	Issue Updates
	• Issue #22 - Approaches to locating objects of interest
	• Issue #36 - IANA Application for a Media Type
	  ○ Media Types
	  ○ https://www.iana.org/assignments/media-types/application/vnd.ga4gh.passport+jwt
	• PR #48 - Update service info artifact list to add seqcol and rename refget
	• Issue #49 - Moving standards into maintenance mode
	• Issue #39 - Citing GA4GH Standards
	  ○ Support material for the discussion on Iss…
	  ○ https://github.com/ga4gh/ga4gh-doi/blob/suffix-designator-generation/suffix-generator.py
	• Issue #16 - GA4GH Namespace Policy
	• Issue #50 - GA4GH Persistent URL policy
	• Issue #45 - Broadcasting an API implementation's optional capabilities
		Ian & Neerjah
		Mamana & Jimmy
		Mamana & Andy
		Reggan
		Francesca & Chen
		Alex Wagner/Bob
		Alex Wagner/Bob
		Alex Kanitz	

Actions:

- Speak to comms about an announcement on Pagination - Amreen
- Motion to close Issue #22 to be included in email - Amreen
- Generate a list of registered in GA4GH and externally - Jimmy (and GA4GH Comms)
-

Minutes:

Pagination Issue (AP): All comments on the GitHub and document have been resolved. If you have contributed to the document, please put down the contributions (list is in alphabetical order). Next steps to announce the document and make it available to the wider community.

Issue #22: Ian has suggested that this issue be closed - a motion will be put forward to the wider group to allow for any objections before it is closed.

Issue #36: There should be a registry of objects that are registered in GA4GH and externally

PR #48: Within the refget spec, there is an effort to link between the refget sequence and seqcol. Refget was renamed and although change happens in the registry, there should be an actual procedure for renaming and so John's comments are quite reasonable.

Issue #49: Plan proposal from Reggan: **Create individual templates for each matured standard**:

Develop the template
Present it at the TASC meeting
Collaborate with leads to complete the template
Present the completed template at a TASC meeting
Obtain approval and store it

Form a study group:

We need to decide how to proceed with this approach.

We will determine the best course of action based on the outcome of the connect call discussion.

2024-07-25: TASC Meeting:

Attendees: Alex Kanitz, Alex Wagner
Regrets:

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Pagination Document	ALL/Andy	
3.1	• GitHub Markdown • Google Document	Mamana/Andy	

3.0	Issue Updates
	• Issue #49 - Moving standards into maintenance mode
	• Issue #39 - Citing GA4GH Standards
	  ○ https://docs.google.com/document/d/1mOI1qaZwJzMVAWJrs7pm7nX2PmigGp7NTvv7naMMV1U/edit#heading=h.n5zr298unooq
	  ○ https://github.com/ga4gh/ga4gh-doi/blob/suffix-designator-generation/suffix-generator.py
	• Issue #16 - GA4GH Namespace Policy
	• Issue #50 - GA4GH Persistent URL policy
	• Issue #45 - Broadcasting an API implementation's optional capabilities
	• Issue #22 - Approaches to locating objects of interest
	• Issue #36 - IANA Application for a Media Type
	  ○ https://www.iana.org/assignments/media-types/media-types.xhtml#GA4GH_Secretariat
	  ○ https://www.iana.org/assignments/media-types/application/vnd.ga4gh.passport+jwt
		Reggan
		Francesca & Chen
		Alex Wagner/Bob
		Alex Wagner/Bob
		Alex Kanitz
		Ian & Neerjah
		Mamana & Jimmy
		Mamana & Andy	

	• PR #48 - Update service info artifact list to add seqcol and rename refget		

Actions:

- Pagination Issue:
  - Add contributors onto V4 document - Andy
- Issue #49: Moving into maintenance mode
  - Seeking a TASC owner
  - Reggan to work with Beatrice on a checklist for products in “maintenance mode”
  - Mamana: Have non TASC members own issues along with a TASC owner?
- Issue #16
  - Write up what is relevant to issue #16 and bring back to discuss at a future TASC call - Alex W

2024-06-18 TASC Meeting:

Attendees:
Regrets:

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Connect Debrief/Connect at Plenary • Action Review (session agenda here) • Connect at Plenary Session Proposal form here	ALL	
3.0	Pagination Document	ALL/Andy	
3.1	• GitHub Markdown • Google Document	Mamana/Andy	

4.0	Issue Updates
	• Issue #49 - Moving standards into maintenance mode
	• Issue #39 - Citing GA4GH Standards
	  ○ https://docs.google.com/document/d/1mOl1qaZwJzMVAWJrs7pm7nX2PmigGp7NTvv7naMMV1U/edit#heading=h.n5zr298unooq
	  ○ https://github.com/ga4gh/ga4gh-doi/blob/suffix-designator-generation/suffix-generator.py
	• Issue #16 - GA4GH Namespace Policy
	• Issue #50 - GA4GH Persistent URL policy
	• Issue #45 - Broadcasting an API implementation's optional capabilities
	• Issue #22 - Approaches to locating objects of interest
		Reggan
		Francesca & Chen
		Alex Wagner/Bob
		Alex Wagner/Bob
		Alex Kanitz
		Ian & Neerjah
		Mamana & Jimmy
		Mamana & Andy	

	• Issue #36 - IANA Application for a Media Type
	  ○ https://www.iana.org/assignments/media-types/media-types.xhtml#GA4GH_Secretariat
	  ○ https://www.iana.org/assignments/media-types/application/vnd.ga4gh.passport+jwt
	• PR #48 - Update service info artifact list to add seqcol and rename refget		

Actions

- Pagination Issue:
  - Send out an email to TASC members - **Amreen**
  - Group to approve - two weeks to submit vote
  - Address outstanding comments and post/release
- Issue #49: Moving standards into maintenance mode
  - Find a TASC owner
  - Review points picked up from Connect whiteboard session
- Issue #39: Citing GA4GH Standards
  -

Minutes

~~2024-05-21 TASC Meeting~~: Cancelled

Attendees:
Regrets:

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Pagination Document	ALL/Andy	
2.1	• GitHub Markdown • Google Document	Mamana/Andy	

3.0	Issue Updates
	• Issue #49 - Moving standards into maintenance mode
	• Issue #39 - Citing GA4GH Standards
	  ○ https://docs.google.com/document/d/1mOl1qaZwJzMVAWJrs7pm7nX2PmigGp7NTvv7naMMV1U/edit#heading=h.n5zr298unooq
	  ○ https://github.com/ga4gh/ga4gh-doi/blob/suffix-designator-generation/suffix-generator.py
		Reggan
		Francesca & Chen
		Alex Kanitz
		Ian & Neerjah
		Mamana & Jimmy	

	• Issue #45 - Broadcasting an API implementation's optional capabilities • Issue #22 - Approaches to locating objects of interest • Issue #36 - IANA Application for a Media Type		

2024-03-26 TASC Meeting

Attendees: Andy Yates, Mamana Mbiyavanga, Reggan Thomas, Ian Fore, Robert Freimuth, Francesca Frexia, Alexander Kanitz, Chen Chen, Heidi Sofia, Jimmy Payyapilly, Michael Baudis, Dashrath Chauhan
Regrets: Alex Wagner

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Pagination Document	ALL/Andy	30min
2.1	• GitHub Markdown • Google Document	Mamana/Andy	

3.0	Issue Updates
	• Issue #49 - Moving standards into maintenance mode
	• Issue #39 - Citing GA4GH Standards
	  ○ https://docs.google.com/document/d/1mOl1qaZwJzMVAWJrs7pm7nX2PmigGp7NTvv7naMMV1U/edit#heading=h.n5zr298unooq
	  ○ https://github.com/ga4gh/ga4gh-doi/blob/suffix-designator-generation/suffix-generator.py
	• Issue #40 - Moving Crypt4GH into own Repo
	• Issue #22 - Approaches to locating objects of interest
	• Issue #36 - IANA Application for a Media Type
		Reggan
		Francesca & Chen
		James & Reggan
		Ian & Neerjah
		Mamana & Jimmy	

3.1	TASC Connect Session • Agenda document here		

Actions

- Seeking feedback on this document
- To discuss for next time: Issue #45 in relation to #22

Minutes

AY: We have a number of standards in various stages of maturity. The current phase of development is completed, or there is a decreasing amount of attention. There is no formal mechanism that currently exists to address and conceptualize the process around these standards. This process will be developed through the WSM with the WSL. An example of this is Htsget.
MB: How do we deal with standards that have out-versioned? The main example is Beacon V1 as a concept. It would be good to have something to show the process and make this very visible to indicate that there has been a major change.
IF: Neither of the standards in discussion are retired - they are useful. We have situations where the initial WSL and developers are no longer around and there is a question of who picks up the responsibility of the standards after that point? If there is a new version of a standard, people may not be implementing it as they are still using the old version. Therefore the old version still needs to be supported.
AY: Some issues appear in the standards and the original developers have moved away. This issue has come in from LSG, but it became clear that we have so many standards at various stages of the life cycle. We want to look towards designing a process to support the standard. This is a challenge hopefully we can address this with other WS members. Although WSM will be working on this, we are looking for a WS representative as well.
FF: I have tried to start to draft the recommendation on citing standards. Similar to the pagination guide recommendation with the idea of preparing the results of the DOI system that can be shared with the wider audience. I have already collected the contents of our discussion, but I have a doubt that I would like to address the group and see if there is agreement on the approach and to show you the outline of the draft document.
AY: There should be a clear guidance on how to mint a DOI f

2024-02-26 TASC Meeting

Attendees: Mamana Mbiyavanga, Andy Yates, Amreen Mohamed, Chen Chen, Francesca Frexia, Ian Fore
Regrets:

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Open Feedback on Pagination Document	ALL/Andy	30min
2.1	• GitHub Markdown • Google Document • Open for Comment - deadline **February 28**	Mamana/Andy	
3.0	Issue Updates • Issue #39 - Citing GA4GH Standards ○ https://docs.google.com/document/d/1mOl1qaZwJzMVAWJrs7pm7nX2PmigGp7NTvv7naMMV	Francesca & Chen James & Reggan Ian & Neerjah Mamana & Jimmy	

	1U/edit#heading=h.n5zr298unoog ○ https://github.com/ga4gh/ga4gh-doi/blob/suffix-designator-generation/suffix-generator.py ● Issue #40 - Moving Crypt4GH into own Repo ● Issue #22 - Approaches to locating objects of interest ● Issue #36 - IANA Application for a Media Type		
3.1	TASC Connect Session ● Agenda document here		

Actions

- Pagination Issue
  - Reach out to Tom/Jessica from Data Security WS - Amreen
  - Integrate comments and create v4 document - Andy
  - Send v4 document to group for final review - Amreen
- Issue #39
  - Review this document - ALL
  - Develop a set of recommendations to reference DOI and examples of use.
  - Add as topic to Connect session Agenda - Amreen

Minutes

Francesca: At the end of January, Chen has created a simple tool to automatically generate suffixes.
Chen: I've created the tool to generate the suffixes. And likewise, there's a similar tool that I've created that's going to use a suffix to then generate a designator as well for the DOIs . I just wanted to implement a couple of checks to make sure that since suffixes need to be unique and same with designators. So that's what I'm currently working on. But I believe I've added a GitHub link somewhere and I can send that as well, but if I could get some feedback or any opinions, that'd be great.

Francesca: Aside from Chen's work, I've tried to collect some information to define the use cases, because during the last discussions, the general attitude was that the idea of referencing with the DOI is documentations and not data or tools. I did an experiment to see what kind of documentation exists for each product under references excluding the publication link in the chat. You can see the first results of this experiment for each product. I listed the kind of documentation and how the documents are connected to the idea if you want to have a look here. The first examples of the documents I found to see if we can see classes of documentation that could be associated with the DOIs. If you can have a look to see if other kinds of documents are missing. What other kinds of documentation would be useful and how can we collect more information?

Global Alliance
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2024-01-10: TASC Meeting

Attendees: Alex Wagner, Ian Fore, James Eddy, Andy Yates, Francesca Frexia, Jimmy Payyappilly, Dashrath Chauhan, Yash Puligundla, Amreen Mohamed, Alexander Kanitz, Chen Chen, Neerjah Skantharajah, Yasmeen Kurdi, Angela Page
Regrets: Mamana Mbiyavanga

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Reviewing Feedback on Pagination Document	ALL	
2.1	• GitHub Markdown • Google Document • Open for Comment Dec 14 - Jan 26	Mamana/Andy	
3.0	Issue Updates	Issue Owners	

3.1	• Issue #39 - Citing GA4GH Standards
	  ○ https://docs.google.com/document/d/1mOI1qaZwJzMVAWJrs7pm7nX2PmigGp7NTvv7naMMV1U/edit?usp=sharing
	• Issue #22. - Locating Objects of Interest
	• Issue #40. - Moving Crypt4GH into own Repo
	• Issue #36. - IANA and Media Types registry
	  ○ https://docs.google.com/document/d/1bCl91fZB7FulYmcSTozVlWPGOH2oBKSKJJJsXHtZDFY/edit#heading=h.nhlhig3breit
		Francesca & Chen
		Ian & Neerjah
		James & Reggan
		Mamana & Jimmy	

4.0	Next Steps	ALL	
	• April Connect ○ Session proposal form due **February 16th** • Transitioning coordinators! Neerjah → Amreen		

Actions

- Pagination Doc
  - Follow up with Johnathan Fuerth - Neerjah
  - Talk to WS managers to promote this in their calls - Neerjah
- Issue #39:
  - Francesca to incorporate feedback from today and then share document back with TASC for feedback
  - Review summary doc, once Francesca has sent it, and add feedback - focus on open points at end of doc - ALL

    - Think of possible use cases that would need to be covered by this emerging solution - ALL
    - Tech team can trial generation of namespacing without DOIs and report back on how that goes

Minutes

Pagination Document

- Jordi has positive feedback
- Follow up with Johnathan Fuerth
- Talk to WS managers to promote this in their calls

Issue #39 - Citing GA4GH Standards

Owners: Francesca & Chen

- Over the last few months have collected information on this topic through presentation form Andy, and discussions on GitHub
- Review of summary doc
- Need to cite ga4gh standards in a unified way
- Points to consider
    - What do standards consist of? Documentation vs specs.
    - Applicability of DOI solution - preferred
- How to implement DOI solution working with CrossRef
- GA4GH marking the DOIs
- Chen has updated the document with tools that have already been generated
- Need to collect feedback on open points/questions are stated at the end of the document
- Stakeholders: WS Leadership,
- Tech team insight (AY)
    - Some of the work going on in tech team is dependent on decisions made on this issue
    - If we are taking exploratory decisions that we can go try out, we would be happy to do that
    - One of the biggest blockers is the predictability vs obfuscation remark - fundamentally changes structure of DOI
- AW: GA4GH minting DOIs - would this be a means by which we could produce white papers about the standards/products/services developed in GA4GH? If so, that seems like a preferable avenue than the traditional model of getting a preprint out there and then linking to that. First step could be coming up with that white paper. And then having internal standards to describe that product/service. Would be a useful tool for GA4GH to offer.
- AY: The RFCs that were generated for the pagination document - that could be a citable entity, it's a good plan
- AP: The thing we will point to as the ground truth for a GA4GH standard is the web page for the standard. Reluctance is any kind of requirement e.g. you HAVE to create a white paper
- JE: Once we have the ability to mint DOIs it give us the ability to cite other things, not just the standard
- AY: Final suffix should be unpredictable - small and generated by the system that we're developing, we will have a database of those entries. The individual namespace could

see an argument for WSs to be given a namespace. E.g. The GKS Space. Question for the group - are there any perceived benefits to that? DOI generation is likely scoped towards an individual journal
- AW: There may be a reason why you want to link to a technical object. May want to have prefix identifiers. Might be product specific. [...]
- IF: Part of what's being addressed here is the use of DOI to make things citable. Does that mean we've put to bed the idea of using our own prefixing under a query scheme - GA4GH would own that and can do what they like with it. Since we know we are not covering every possibility/issue, may be best to cover the ground rules and then change it as things evolve and use cases appear. Basic principles should be no different than those couple of papers that speak about how to do identifiers right. Establish a URI and then maintain the relationships between them somewhere else
- AY: Want to see the scope of this specific DOi project limited in the things that we can cite. Reusing grant documents is useful. DOI provides a nice automated redirection system. Realize that there are other systems out here that can do the same thing. Having a document/web page landing is important. Wouldn't want it to link to a dataset.
- FF: Document can be the main focus for this DOI solution. Would it be possible to do a list of kinds of documents/tools/products that are generated and can be included to see if the emerging DOI structure can cover all the use cases.
- Tech team can trial generation of namespacing without DOIs and report back on how that goes
- Make a submission and automate it into crossref - oversight by tech team
- Would need some level of organization to ensure that all submissions are reviewed
- Not meant to be a public thing
- AP: What info from the GA4GH side do we want to submit - specific to standards data model, when we talk about submitting DOIs not related to standards do we need to be looking at a different set of fields
- AY: There are different things that DOI supports. We were talking about standards, because DOI doesn't have a set template for that. If there is one for webpage might want to use that for things such as REWS blog post.
    - https://www.crossref.org/documentation/schema-library/

Issue #22
- Just talked about it in

2023-12-05: TASC Meeting

Attendees: Neerjah Skantharajah , Angela Page , Beatrice Amos, Chen Chen, Jimmy Payyappilly, Yash Puligundla, Heidi Sofia, Andy Yates, John Marshall, Mamana Mbiyavanga, Yasmeen Kurdi, Ian Fore, Michael Baudis
Regrets: Francesca Frexia, James Eddy

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Review Actions	ALL	

2.1	Pagination write up ● Currently out/going out for public comment	Mamana/Andy	
~~2.2~~	~~Issue #39 Follow Up~~	~~Francesca~~	
3.0	Next Steps	ALL	
3.1	● Outstanding issues that require owners: ○ Issue 22. Review approaches to locating objects of interest - Ian to take ownership ● Issue 16. GA4GH Namespace policy - back burner ● Issue 40. Moving Crypt4GH into its own GitHub repo ● Issue 36. https://docs.google.com/document/d/1bCl91fZB7FuIYmcSTozVlWPGOH2oBKSKJJJsXHtZDFY/edit#heading=h.nhlhig3breit ● Rescheduling January meeting - 1.5 hours		

Pagination Issue

- Andy: original intent was to make a soft recommendation regarding pagination, some disagree and think we should have firmer recommendations, there are no dominant opinions about the 2 types of pagination, both are seen as equal viable options
- Andy: The current document is a mix of original material and a series of edits, it's a working proposal > in the new year will present it for evaluation if everyone likes where the document is heading
- Andy: Can't confirm the current key words are the BEST keywords, they come from the results of iterations of editing, could be improved > John Marshall will leave a comment about that
- Andy and Jordi had a chance to talk about the document and they're hopeful it's headed where it needs to be
- Mamana: need to get as much input as possible from the broader community (Neerjah mentioned we should have this by late January)
- Neerjah: mentioned creating a web page for TASC to make their tools available
- Issue 22 is linked to the work of the tech team, Andy mentioned getting some degree of resolution for it > asked for an extended January meeting to address everything

Action items:

- TASC to review the pagination document
- Broader GA4GH community to review pagination document after it is released by comms (mid-December)
- Schedule 1.5 hour TASC meeting in January
- Assigning someone from Secretariat to issue #20 and #40

Global Alliance for Genomics & Health

2023-10-02: TASC Meeting

Attendees: Andy Yates, Francesca Frexia, Heidi Sofia, Beatrice Amos, Jimmy Payyappilly, Mamana Mbiyavanga,

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Review Actions	ALL	
2.1	Comment and vote on pagination issue/write up ● API pagination guide recommendation	Mamana/Andy	
3.0	Issue 16. GA4GH Namespace policy	Bob/ALL	
3.1	General discussion about way forward - Alex to own		
4.0	Next Steps	ALL	
4.1	● Outstanding issues that require owners: ○ Issue 22. Review approaches to locating objects of interest ● Next Meeting ○ Francesca - Issue 39. Citing GA4GH Standards ■ Discussion in slack #general - follow up?		

Pagination Document
- Can someone take this over from Andy?
- Need volunteer to review the comments that came in from the community and reconcile them
- How does TASC respond to input? Something to think about

Actions
- Neerjah to email Jordi with the plan
    - Andy and Mamana to identify major areas of disagreement from existing feedback and add issues to github so community can comment on it
- Neerjah to work with communications team to put out for open for comment once Jordi is informed of the plan
    - Adding issues to github if it's more a technical comment

Namespacing
- Bob tried to connect with Alex about this wrt vrs2.0 - no contact yet
- Separation between implementation and specification
    - Tightly linked however separation needed at a level of abstraction, in order to ensure standard can be adopted outside scope of a specific spec

- Guidance for a particular project (VRS and vrs name spaces) - wishes of the dev team wrt to its implementation
- As implementation changes, matures, etc - needs change, so need flexibility to accommodate
- As decisions are made by groups like TASC, have a statement in writing with a recommendation/guidance for org, need this to be more stable than a particular implementation might be
- Alignment across GA4GH is needed, the longer TASC takes, the more requirements shift - to be expected, not necessarily a bad thing
- If we had resolved this issue a year ago, would that have accommodated changes that have been needed since? If not, what can we do to future proof guidance created by the group?
- ISO standards have some drivers from stakeholder orgs doing implementations; HL7 doesn't have concept of DPs in same way as GA4GH; takes accelerators
    - Organizational separation between WGs that own the specs, vote, approve, reconcile comments, etc - separate from accelerator projects
    - Collections of "dps" ID common use cases, use specs out there to accomplish task, show that standards work
    - Where standards don't work, accelerators can do that - kick tires on new ideas, try things out, once ID's a solution/fix, that would go back to the working group to consider revision to formally make a change
    - Decouples churn of faster pace of implementation from more deliberative longer term decision making / formalism of the WGs
- RF: VRS has two questions on the table:
    - How do we structure namespace identifiers?
        - Syntactic, suggestion to use curie format
        - How do we populate different elements of a cure? - TASC got into it at this point
        - How are we as an org going to provide capabilities to support concept of namespace ID'ers
    - How do we manage those?
        - With information in place how would a project like VRS take that and implement it?
        - How do we as an org coordinate generation and registration of types over time?
- MB: 3 namespacing issues, don't all have to be solved at once
    - CURIEs as identifiers
    - GA4GH namespacing:
        - When to use it
        - How to keep track and issue them?
- Yes - namespace id'ers should be used! That's as far as we've gotten…
- Issuing authority - who is it?
- Who maintains them?
- How do WSs like VRS implement to ensure correctly used?
- Tabling this issue until next call
- Issue owners: Alex Wagner is most appropriate from TASC; maybe tech team

Global Alliance for Genomics & Health

2023-08-31: TASC Meeting

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Review Actions	ALL	
2.1	Comment and vote on pagination issue/write up ● API pagination guide recommendation	Mamana/Andy	
3.0	Issue 16. GA4GH Namespace policy	Alex/Bob?	
	- Moved to next meeting		
4.0	Next Steps	ALL	
4.1	● September Plenary ○ Attending DaMaSC Connect Session ● Outstanding issues that require owners: ○ Issue 22. Review approaches to locating objects of interest ○ Issue 39. Citing GA4GH Standards ● Implementing a rotating schedule ○ Get back to this after October 2nd		

AY: Changes have been made based on comments from Jordi, David, and Ian.

One issue is that the strong preference to pagination via tokenization rather than offset may be apparent in the document.

Another component causing trouble was the business logic which is about how you go through the pages and whose responsibility is that? Server or client? I prefer server side logic (implemented in one place without client needing to understand). The recommendation is being played up to concentrate on offset and token based pagination. Any recommendation around client and server side has been softened to where there is a preference towards server side but not a strong suggestion.

In general the document has shrunk down a lot and focuses on token based and offset based pagination.

Overall ROC structure is good.

AK suggestion: Add examples of when random seeking is needed and guidance so people can make that decision. Add a section for comments on this.

…

May become a technology problem at some point which is an issue for GA4GH standards as they are supposed to sit beyond the technology.

Actions

- Need to see if Andy's edits address Jordi and David's feedback. If not, it would be good to set up a meeting or email thread with them
    - Also contacts: Jonathan Fuerth, Denis Yuen, Jordi Rambla
- Make the pagination document more open to the GA4GH community for feedback once TASC has approved it - follow RFC process
-

2023-07-10: TASC Meeting

Meeting Recording (to be linked)

Chair: Mamana Mbiyavanga Andy Yates
Attendees "Name (Affiliation)": Michael Baudis, James Eddy, Yash Puligundla, Ian Fore, Jordi Rambla, Beatrice Amos, Alastair Thomson, Chen Chen, Angela Page, Neerjah Skantharajah

	Agenda Item	Assigned To	Time
1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Review Actions	ALL	
2.1	Comment and vote on pagination issue/write up • API pagination guide recommendation	Mamana/Andy	
2.2	Recruiting more TASC members (two reps/WS)	Neerjah	

2.3	Taking ownership of issues • Issue 22. Review approaches to locating objects of interest • Issue 16. GA4GH Namespace policy • Issue 39. Citing GA4GH Standards	ALL	
3.0	Next Steps	ALL	
	• Connect Session at September Plenary • Implementing a rotating schedule		

WS	Existing	New
Clin/Pheno	Francesca Frexia	
Cloud	James Eddy	Alex Kanitz
Discovery	Marc Fiume/ Ian Fore	Michael Baudis
DURI	Jonathan Lawson	
Data Security	David Bernick	N/A
LSG	John Marshall	N/A
GKS	Bob Freimuth	Alex Wagner

Actions

- Request for Comments on pagination document - deadline July 31st
    - Comments encouraged on document structure, where is it too specific/too general?, does it address the problem?, is the document usable?
    - Final vote to take place at next TASC meeting (August 14th - tentative)
- Find owners for issue 22, 16, 39
- Readjust status of TASC log (from in progress to under consideration)
- Add ideas for connect session into #tasc slack channel

Pagination Doc Feedback

- Please add comments, specifically around
    - The structure of the document
    - Have we captured what was discussed in issue 29?
    - Have we made an appropriate recommendation?
    - Is it usable?
    - Review pros and cons of different methods available
- Clarification regarding “token based” pagination

    - Where a string has been offered back to the client which identifies where you would want to go to the next piece of data
    - Link based pushing more towards service side business logic
- Could look at providing links out for more information instead of including it in the document
- Client is just asking, not in charge. The server is.
- IF: Original intent was to say can we have an approach that would work for all ga4gh apis - the decision was no. That helps us get to the point where we can get this done quickly. We need a very minimal document. Each API is different and will need to do what it does, but there are different best practices that might be followed. How far we go with creating a best practices doc is something to be determined.
- JR: If we are producing a standard, and I'm a consumer I'd prefer a few very good documents than more not well defined/not specific documents.

How to collect feedback and effectively use people's time
- Open the call up
- Don't waste time of people joining the call
- Send requests to the WS to discuss tasc issues in their own meetings to provide feedback
- Putting tasc into general channel

Taking ownership on issues
- Issue #39 will have direct effect on tech team actions so that issue is in need of a representative
- Namespace policy was highlighted in refget prc as something that needs to be addressed
    - Alex wagner to be engaged in this one
    - See Michael's comments: https://github.com/ga4gh/TASC/issues/16#issuecomment-1628974440
    - The work that Julie and others did handled this problem very well

2023-06-05: TASC Meeting

Meeting Recording

Chair: Mamana Mbiyavanga
Attendees "Name (Affiliation)": Ian Fore, James Eddy, Andy Yates, Francesca Frexia, Chen Chen, Yash Puligundla, Bob Freimuth
Regrets: Michael Baudis

	Agenda Item	Assigned To	Person/ Time

1.0	Welcome & Confirm Agenda	Mamana	5min
2.0	Connect Session Debrief	ALL	
2.1	Creating a GA4GH API Style Guide	Not started	
2.2	Developing material to explain each group, their purpose, and examples of when a contributor would go to each one ● Owner → secretariat	Done	
2.3	Pagination issue/write up ● Owners → Mamana and Andy ● https://docs.google.com/document/d/12Y0MgIRqaBt2CqzEscArVEkCS_8WHFRdQef9IFmEGVc/edit	In progress	
2.4	Recruiting more TASC members (two reps/WS) ● Owner → secretariat	In progress (see table below)	
3.0	Next Steps	ALL	
3.1	● Assigning owners to current issues? https://github.com/orgs/ga4gh/projects/9/views/1?filterQuery=-status%3ADone		
4.0	Metadata Study Group Takeaways		

WS	Existing	New
Clin/Pheno	Francesca Frexia	
Cloud	James Eddy	Alex Kanitz
Discovery	Marc Fiume/ Ian Fore	Michael Baudis
DURI	Jonathan Lawson	
Data Security	David Bernick	
LSG	John Marshall	N/A
GKS	Bob Freimuth	

Actions & Decisions

- Creating a style guide will be put on the backburner until we have done work on some issues
- Pagination Write Up
    - To consider

        - More information to help implementers understand how the different pagination recommendations might apply to their specific situation
        - Considerations for maintaining security across pagination
    - In future write ups, we can add a section on dos, but also **DON'TS**
    - **Next Step:** Mamana and Andy to send revised draft to TASC team ahead of next meeting
- Add your name for the issue you'd like to own: https://github.com/orgs/ga4gh/projects/9/views/1?filterQuery=-status%3ADone

Minutes

- Use the pagination issue as a way of exercising whether what's been written down is fit for purpose
- Iterate on governance doc based on that process, and eventually get it to final review
- Let's freeze the governance doc as is, and not open to changes in the meantime
- Pagination may not be thes best use case, but it would be a good start
- Next step: decide who i son task (current and new), and then put governance doc to a vote as a beta version that will undergo changes based on additional issues
- Creating style guide - started from a conversation about pagination
    - To do pagination you would look online for different ways of doing pagination
    - GA4GH community would be responsible for developing this guide to provide people with guidance about practices (e.g. pagination)
    - It's a massive undertaking -
    - Open API is definitely in scope
    - More about developing coherent and consistent product space
- Important for us to define what we mean by "style guide"
- Creating a Style Guide - to look at in the future (+1 IF and AY)
- TASC's role in relation to the metadata study group - what's the difference between this and things that have been developed before?

2023-03-06: TASC Meeting

Chair: Mamana Mbiyavanga
Attendees "Name (Affiliation)":
Regrets:

	Agenda Item	Assigned To	Person/Time
1.	Welcome & Confirm Agenda	Mamana	5min
2.	2022 strategic plan refresh (TASC section)	ALL	25min

	TASC governance Still to be resolved: ● What is in scope vs out of scope? ● How long does TASC take to make a decision? ● Is this line still representative of our process?: “The members of the TASC would advise the leads of the team who would make final decisions.”		
3.	Connect Ideas Which sessions should we attend? ● Rough Agenda ○ DRS + Data Connect ○ Computable Cohort Do we want to propose a session? ● Potential topics ○ Pagination ■ Cloud-DRS ■ TRS ■ Data Connect ■ Beacon ~~○ Citation~~ ○ GitHub landscape analysis and best practices ○ New issues proposed by AK ● Blank agenda ● Session Proposal form	ALL	

Information about SchemaBlocks from Governance Doc:

- The TASC would discuss the goals of supporting the alignment of schema and decide if the SchemaBlocks concept meets these needs. If they choose to move ahead with SchemaBlocks, they would review the governance process and update it to ensure that the process creates alignment with minimal hindrance to Work Stream agility. SchemaBlocks development can continue as planned with core developers working with deliverable authors to convert their work into Blocks. However, TASC could provide high-level oversight of the team’s direction.
- In particular, recommended data and API schemas or their essential building blocks could be maintained in the SchemaBlocks repositories, also linked from the main website.

Minutes

- 2022 strategic plan refresh (TASC section)

- TASC governance
    - Added 2 reps/WS for redundancy
        - **ACTION**: add more clarity on what is expected of WS reps
    - To add clarity on process, added steps
        - 1) Collecting and evaluating issues - addressing what is in and out of scope
        - 2) pursue research on each issue, talking to relevant stakeholders, make product of research available for open comment

TASC needs to make its decisions based on practical interoperability testing, but that testing should not take place within TASC itself
What is TASC doing? Requiring participation but not mandating adoption [of what?], what role does the group have within the org?

2023-02-06: TASC Meeting

Chair: Mamana Mbiyavanga
Attendees “Name (Affiliation)”: Ian Fore, Bob Freimuth, Jonathan Lawson, James Eddy, Chen Chen, Yash Puligundla, Angela Page, Neerjah Skantharajah

	Agenda Item	Assigned To	Person/Time
1.	Welcome & Confirm Agenda	Mamana	5min
2.	● Issues: quick updates ○ Registrations in IANA URN Namespaces registry and Media Types registry https://github.com/ga4gh/TASC/issues/36 ■ Register media type at https://www.iana.org/form/media-types ○ Namespace issue https://github.com/ga4gh/TASC/issues/16 ○ Register the GA4GH namespace https://registry.identifiers.org/prefixregistrationrequest#!	Mamana	5min
3.	Delegating TASC issues - TASC-Issue_Review_and_Delegation-170123	ALL	
4.	2022 strategic plan refresh (TASC section) TASC governance ● Scope: ○ What kinds of issues should be submitted to TASC? ○ TASC will not work on projects that	ALL	25min

	• Membership/Quorum
	• Process
	  ○ How do we prioritize
	  ○ Timeline for decision-taking/project completion
	  ○ Vote over email
	• Dissemination:
	  ○ List of projects with links to related issues/discussions, status, solution adopted (Google sheet, webpage on GA4GH website, …)
	• Other changes?		

5.	Connect Ideas • Blank agenda • Session Proposal form	ALL	

Minutes

Actions

- Registrations in IANA URN Namespaces registry and Media Types registry: start with Google Doc for tracking purposes
- Secretariat to come up with process to coordinate a certain number of TASC issues at a time
- Prioritize TASC issues to understand which ones we tackle first
- Secretariat to clean up governance doc, incorporate ideas from today and and send out for review

Registrations in IANA URN Namespaces registry and Media Types registry

- Goal:
- Secretariat to decide where to store
    - Options: Google Docs, Website, GitHub
    - Google doc
        - encourages collaboration
    - GitHub
        - maintain tighter provenance
        - Easier to track and see changes
        - potential con of increased overhead
        - Formality is a pro - more than dois
    - To consider:
        - Need to be reserved in how easy it is to change things due to downstream repercussions
        - The Google Doc + GitHub combo seems like a reasonable stopgap to cover both collaborative input and provenance (until a better solution

exists)
- Defining our process of creating dois - needs transparency of the process and record of what happened

- **Action: start with Google Doc for tracking purposes**

Namespace Issue

- Start with defining SOPs, for each individual doi should be traceable to persistent identifier

Process for ensuring Issues keep moving:

- Secretariat makes sure issues keep moving. How they move will be context dependent. Info gathering will require stakeholder leadership, TASC membership will do pre-discussion learning prior to calls, TASC leads could be responsible for coordinating agendas/timing of discussion with secretariat
- Each issue will move through those 3 main stages, but their paces will vary
- Once a decision is made, the clean up work of documenting it and disseminating to stakeholders can be done by leads and secretariat

TASC Issue delegation

- Breaking down TASC issues into subtasks
- For secretariat issues Angela and Yash suggested doing research for each and determining what the options/potential solutions are and summarizing that for a TASC discussion later
- This way everyone can make an informed decision
- Another option is bringing stakeholders together in TASC meetings for discussion
- Research is important for each issue
- Assigning point person for each issue
- Finding specific individuals that are issues
- **Action: Come up with a process for Secretariat to coordinate 4 TASC issues as a time**
- **Action: prioritize issues to understand which ones we tackle first**
- RF: +1 Angela, Secretariat makes sure issues keep moving. How they move will be context dependent. Info gathering will require stakeholder leadership, TASC membership will do pre-discussion learning prior to calls, TASC leads could be responsible for coordinating agendas/timing of discussion with secretariat

Membership/Quorum

- Is it a matter of changing the voting community depending on the topic? or making sure everyone already on TASC is informed on the topic?
- Requirements should be lessened - individuals from different WSs should attend based on if they're involved in the issue

Process

- AP suggestion:

- 1. TASC members and Secretariat members pursue research on each issue, talking to relevant stakeholders, etc.
- 2. Research is made available as a kind of “open for comment” discussion
- 3. All GA4GH active contributors have a chance to weigh in on the document/github where the research is contained
- 4. ALL TASC members (agree with 2/WS) vote asynchronously, and are accountable to having read the research

(And maybe at point 2, we also do some specific outreach to make sure the most relevant reviewers look at it)

- Need to ensure that all relevant stakeholders have a chance to weigh in, not necessarily giving them a vote

Timeline for Decision Making

- Need to make sure we are making timely decisions
- May also be an issue of confirming that a decision has been made and communicating that (e.g. VRS situation had a conclusion)
- Question of how does TASC seal the deal and gain that level of confidence to make that decision
- This is an issue not just in TASC
- Needs executive decision making
- Maybe it’s the responsibility of the owner to determine when enough work has gone into an issue and a vote can happen
- In the past, TASC consolidated info and provided summary
- In the case of namespace, we have a solution
-

2023-01-17: TASC Meeting

Chair: Mamana Mbiyavanga
Attendees “Name (Affiliation)”: Ian Fore, James Eddy, Francesca Frexia, Emre Ferhatoglu, Yash Puligundla, Angela Page

	Agenda Item	Assigned To	Person/Time
1.	Welcome & Confirm Agenda	Mamana	5min
2.	2022 strategic plan refresh (TASC section)	Angela	25min

	TASC governance ● Scope: ○ What kinds of issues should be submitted to TASC? ○ TASC will not work on projects that ● Membership/Quorum ● Process ○ How do we prioritize ○ Timeline for decision-taking/project completion ○ Vote over email ● Dissemination: ○ List of projects with links to related issues/discussions, status, solution adopted (Google sheet, webpage on GA4GH website, …) ● Other changes?	ALL	
3.	Issues Review	ALL	20min
4.	Connect ideas	ALL	5min
5.	A.O.B. ● TASC updates at Steering Committee (GA4GH): ○ Need a volunteer to do the presentation	ALL	5min

Action Items

- Connect draft agenda - Neerjah
- Add call for SC presentation volunteers to follow up email - Neerjah
- Excel sheet with issues - Neerjah
    - Columns include owner (secretariat/TASC), next steps, who needs to be part of the conversation?
- Review governance document - all

Notes

Connect Ideas

- IF: FASP and TASC are complimentary - some discussion centered around strategic refresh would be helpful
- AP: Opportunity to generate more participation from broader community - hammer out goals and working practices of TASC before Connect so once we get there we can have a “relaunch” or present the plan and let groups know what the plan is so we can invite more participants

- MM: perhaps a session on pagination, citing issue,
- JE: Might be useful to start a scaffold agenda
- NS: Would be worth noting down questions when we go through the issues (pagination, citing etc.) where we need greater community input

Steering Committee

- Call for volunteers

Strategic Refresh

- The hope is that through the strategic refresh doc we can take things that are already happening in GA4GH and formalize them
- GIF - GA4GH implementation forum
- GIF projects will unearth needs for technical alignment and those will come to TASC
- Additional Secretariat support for TASC
- Strategic refresh does not go into the “how” it will accomplish the goals it sets out
- The TASC governance doc may go into more detail on the “how”
- Hurting from lack of CSO
- Some decisions need CSO, some need input from larger community
- Secretariat should hold people accountable for contributing to TASC discussions
- In terms of original intent/scope of TASC, it was distinct from FASP
- FASP - maintenance/documentation
    - E.g. everyone being on the same page about what a variant is
- Need to get people to join discussion or at least open up a ticket
- Discussion making has struggled, because we lean on members of TASC to make decision but perhaps we should be more of an advisory group for Susan
- The decision making can be more lateral or go to SC
- SC may not have the technical background to make informed decisions
- Susan wanted TASC to now be top down
- Are there other communities that we can bring these questions to that are not TASC?
- WSL have clear commitment to run work streams
- Members of TASC are voluntary and attendance is always variable
- Idea: expand membership from 1 members/WS to 2 members
- Idea: Bringing people with specific expertise to discuss certain issues - not everyone on TASC knows everything about everything!
- When we go through the issues can we determine next steps and who needs to be part of the conversation.

Issue Review

- Some of these are GA4GH Secretariat thing
    - #40 - moving Crypt4GH
    - #2 - Central Ga4GH Registry
    - #19 - organizational

- If we can categorize these existing questions then we can take those to our staff team and we can have a conversation about which ones we can address

2022-11-07: TASC Meeting

Chair: Mamana Mbiyavanga
Attendees “Name (Affiliation)”: Ian Fore, Lindsay Smith, Yash Puligundla, John Marshall, Neerjah Skantharajah, Jonathan Lawson, Emre Ferhatoglu

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	5min
2.	Previous Actions Review	10min
3.	TASC governance ● Quorum ● Vote over email ● Membership expansion to include Security, REWS and EDI ● Timeline for TASC to make decision ● Other changes?	15min
4.	New Issues Review ● Update service-info artifact list to add refget #41	5min
5.	GA4GH Github organisation repo landscape analysis - Slides ● Moving Crypt4GH into its own GitHub repo #40 ● Resume the TravisCI and Github Actions conversation	10min
6.	Follow up on GA4GH-wide pagination syntax issue #29	10min
	Other Issues Review	
	A.O.B.	

2022-06-27: TASC Meeting

Chair: Mamana Mbiyavanga
Attendees “Name (Affiliation)”: Susan Fairley, Ian Fore, James Eddy, Emre Ferhatoglu Yash Puligundla, Chen Chen, Alex Tsai, Francesca Frexia

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	Actions Arising	Assigned To	Deadline
1	John and Yash to work together on media types IANA proposal	John/Yash	
2	Susan to follow up again with Angela on Cell Genomics and citation	Susan	
3	Contribute to citation discussion on LSG repo https://github.com/samtools/hts-specs/issues/179	All	
4	Follow up with TASC members by email about proposed changes to the group/governance	Susan	
5	Follow up with Melanie Courtot about VRS namespace comments https://github.com/ga4gh/TASC/issues/16	Susan	
6	Register the GA4GH namespace https://github.com/ga4gh/TASC/issues/16	Secretariat	
7	Add the resolver described in the issue to Secretariat work plans https://github.com/ga4gh/TASC/issues/16	Secretariat	
8	Share VRS namespace plans https://github.com/ga4gh/TASC/issues/16	Comms/Susan	
9	GA4GH Github organisation repo landscape analysis to inform decision making on general GA4GH Github policy and the Crypt4GH issue in particular https://github.com/ga4gh/TASC/issues/40	James/Mamana	
10	Resume the TravisCI and Github Actions conversation	All	

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	Mamana/5min
2.	Previous Actions Review	Mamana/5min
3	TASC governance • Quorum • Vote over email • Other changes?	Mamana/5min
4.	Vote on VRS namespace issue: https://github.com/ga4gh/TASC/issues/16	Susan/10min
5.	New Issues Review • Moving Crypt4GH into its own GitHub repo #40 • Citing GA4GH standards #39	All/20min

6.	Replacing TravisCI with Github actions	10min
	Other Issues Review	5min
	A.O.B.	

Review previous actions:

John and Yash IANA work pending - carry forward to next call

TASC voted by email on VRS namespace - review today on call

Susan has contacted Angela about Cell Genomics - waiting to hear back

Citing standards - some comments added to the threads on TASC and LSG repos

TASC governance
Added representation from FASP
Susan interested in expanding membership to include Security, REWS and EDI - so we have representation from each of the GA4GH entities and avoid siloing conversations.
Adjust quorum to reflect addition of FASP and in future others
Looking for new reps for groups who cannot regularly attend

We are not quorate today. Could we try a trial period with REWS and EDI for six months to see if that works?

ACTION: Susan to follow up by email with the rest of the group on these points

VRS namespace
No objections on the call to this going ahead.

IF: Citation issue may need to use namespaces too in near future

ACTION: Susan to follow up with Melanie in case there is further comment
ACTION
- Secretariat: to register ‘ga4gh’ namespace
- Secretariat: to take responsibility for a resolver (see the issue)
- Comms: communicate decision across GA4GH (Susan to contact Comms)
    - To update on this at the next TASC meeting

GitHub repos
AS has raised issue #40. Also a broader issue that we don’t have a GitHub policy on how we organise ourselves.

IF: using GA4GH (the main organisation) makes some sense. Some are in single organisation.
JE: No strong preferences if single organsiation or separate organisations but would like to see some consistency in approach - current variety makes it difficult to find things.

JE: worth starting with some sort of landscape analysis, to get a feel for what is there and and form a plan

JE and IF: need to look at this more, don't know all details at present.

JE: what is in GA4GH, what does it represent. Many repos pre-date the refactoring a few years ago and are essentially deprecated.

SF: options to archive while also keeping around? Labelling? Recent conversation with someone who couldn't find active WES

JE: option to archive repos on Github (no longer writable) and are labelled - although not removed.

ACTION: Landscape analysis of the GA4GH organsiation on GitHub - James and Mamana

Citing standards
Relevant to the discovery work stream
Look to encourage more input on the LSG issue
Continue conversation on the LSG repo https://github.com/samtools/hts-specs/issues/179

TravisCI
JE: moving to Github actions would be good. Cloud workstream had standardised on a workflow for TravisCI - if we could work out how to do that and move one, the others would be easier
EF: That was experience with the staff repos, easier after the first one done.

IF: to what extent do the tools do autogeneration of code?

JE: yes, both can work for that - the tools that generate those client (IF's example) are accessible libraries. Something we can look into - some perils but could be looked at.

Conversation to be continued…

2022-05-04: TASC Meeting

Chair: Susan Fairley, Jeremy Adams
Attendees "Name (Affiliation)": Alex Tsai (GA4GH), Chen Chen (GA4GH), Yash Puligundla (GA4GH)

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	Actions Arising	Assigned To	Deadline
1	John and Yash to work together on media types IANA proposal	John, Yash	
2	Jeremy to email TASC to put namespace issue to vote	Jeremy	
3	Susan to follow up with Angela about Cell Genomics paper and process	Susan	
4	Add additional information/questions to the “Citing Standards” issue	Everyone	

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	5min
2.	Previous Actions Review 1. Jeremy to reach out to Martin to prepare proposal for media types a. Not yet done, best to hand this over 2. John to review ga4gh URN namespace considerations a. Has followed up on this. Two sets of media types (for Martin and also VCF/SAM). What do we need to fit with them as a standards defining organisation. b. John and Yash to take this forward c. URN namespace - John intends getting back to this and commenting d. Seems to be a good consensus developing in #36 e. Summary comment outlining proposal to be added - consensus has emerged. 3. Susan to contact Alex W - DONE 4. Susan to contact GKS - DONE	25min
3.	Vote on VRS namespace issue: https://github.com/ga4gh/TASC/issues/16	Susan/10min
4.	Citing standards https://github.com/ga4gh/TASC/issues/39: This has come up recently in Discovery (in relation to citing Data Connect before there is a publication) and also in file formats https://github.com/samtools/hts-specs/issues/179	Susan/15min
5.		

	New Issues Review -	
	Other Issues Review	
	A.O.B. 1. 2.	

Minutes:

JM**:** Two set of media types, one set in LSG, and another in TASC. I've been emailing IANA. Have an idea of what needs to be drafted. Appreciate support from Secretariat
YP: Yash to support from the staff team side
JM: On URN namespace side, still need to continue on this
IF: need to avoid going in circles with vendor media types
JM: Yes, but we've come to consensus that we do need to carry this forward
IF: immediate need and scope is what passports needed. Are we trying to solve bigger questions?
SF: yes, we're trying to solve the passports use case, not trying to solve all potential problems right now. This is a good use case and model for similar tasks in the future
IF: yes, there's a similar pattern that might be able to be reused

Namespacing (3)
SF: Want to put this to a vote today. Want to put this one out by email instead of waiting for next call.
JM: thumbs up
IF: I agree with Alex, there's no need for a resolver, it's kind of a different thing. The question of whether or not there needs to be a landing page for every compact id has been debated. In some senses it's not actually needed. In the proposal, the namespace refers to an algorithm (GA4GH), and not an owner/authority (which is what n2t and identifiers.org are based on).
SF: a type+version resolver resolves to the schema (e.g. Variant v2, Sequence v1)
SF: We can have a discussion with identifiers.org folks to see if our namespace system worries them. I don't see the necessity of registering this in identifiers.org, but it might be worth it to stop proliferation of 'ga4gh' use.
SF: there's also the simple issue of what we (SC) told GKS 2 years ago, this was already given the go-ahead.
JM: Quorum, we came up with something that's in the governance doc. Quorum of 5 members, including 1 Secretariat and 4 Work Stream members. We probably want to revisit. Support the email approach
SF: I see TASC building up a body of decisions across GA4GH, if we're making decisions here with that level of impact, then we should be following due process.
BF: Agree, for sake of transparency we need to document when decisions were made, and the process behind those decisions
SF: TASC to build up a repository of technical alignment decisions, e.g. what to do with tokens, how to reuse existing data models. These could all be decisions to get alignment for product

development across work streams. E.g. bulk of GA4GH using JSON schema, and some using Protobuf. It could be a technical decision to not deepen the divide. Discourage using too many different technologies unless there's a good reason.

Citing GA4GH standards
SF: Currently there's not a paper for Data Connect, impossible to cite academically at the moment. LSG has provided guidance for citation of file format standards. How can someone consistently cite specific GA4GH standards? How has this been done in the work streams? Also, there is progress in the new GA4GH website, so we might be able to do some of this ourselves. But also very easy to go to Zenodo.
BF: It would benefit us to say what we mean as a GA4GH standard. A published manuscript works well for a particular standard in a particular space. A Gtihub repository works for a versioned codebase. A specification could be considered something different
SF: Perhaps we should be reaching out to journal editors to see their requirements around DOIs
JM: LSG background - how to cite a standard? Was answered to cite the early published papers. How to do this in GA4GH BED was recently raised. It's a good question and probably needs a pan-GA4GH answer. What do we want to achieve by having our standards citable? DOIs seems like a great answer. DOIs enable one to unambiguously cite a file format. Citations are also a measure of visibility, justification of funding, etc. DOIs, protocols.io are some examples
SF: I've been surprised by the things journal editors have asked for DOIs for - code, other unexpected document types
IF:

- https://force11.org/info/joint-declaration-of-data-citation-principles-final/
- https://scicrunch.org/resources
- Here's the RRID for CRAM - RRID:SCR_012975

RRIDs - research resource ID. A way of identifying different resources in biological research. There are IDs for CRAM, samtools, BAM, etc. This infrastructure has been in place for a while, used by some journals
SF: there's recognition here that this is an issue. We do want to have our standards/documents easily citable. There's a variety of different cases, and some level of work done within the work streams. Some simple follow-up actions. Canvas opinions from other work streams not here today. Think of what's a good format for addressing the questions in this space
JM: A potential approach - encourage volunteers to write a document about the issues involved, e.g. use of DOIs and RRIDs, why or why not to use them.
SF: People should contribute relevant material/questions to the Github thread. Get acquainted with the issues

2022-04-04: TASC Meeting

Chair: Jeremy Adams
Attendees "Name (Affiliation)": Susan Fairley, John Marshall, Francesca Frexia, Ian Fore

	Actions Arising	Assigned To	Deadline

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1	Jeremy to reach out to Martin to prepare proposal for media types	Jeremy/Martin	
2	John to review ga4gh URN namespace considerations	John/Jeremy	
3	Susan to contact Alex W and get opinions/considerations on how versioning will be handled in the type prefix system. Ian to also provide feedback	Susan/Ian/Jeremy	DONE
4	Summarize dilemma around resolving and authority, share with GKS	Susan	DONE

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	
2.	Previous Actions Review	
3.	Registrations in IANA URN Namespaces and Media Types registries - #36 ● Entity to make the registrations with IANA (GA4GH Inc?) ● Governance and documentation in TASC repo - how do other media types from the work streams get registered? ● namespace and media types to register?	Jeremy / 30
4.	Namespacing issue #16, PR #32 (old) -> #37 ● URI resolution - have we reached a proposed solution for this? ● Other issues	Jeremy / 30
5.	Product development and approval at Connect ● Design considerations for in-development products ● Point out to documentation within TASC for supporting teams building technically aligned products ● Long term project for TASC - consolidate resources/docs to support product development	
	New Issues Review -	
	Other Issues Review	
	A.O.B. 3. Product development and approval 4. Connect?	

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Minutes:

IANA registrations

- Needs documentation on how other work streams can contribute
- Should GA4GH Inc be the registering group?
    - Ian +1 for the passports use case
- IF: we will need media types for other things, e.g. BAM/CRAM files. Vendor tree expression seems appropriate here but not always appropriate
- JM: in LSG we've wanted to register SAM/BAM/CRAM and VCF/BCF, this hasn't happened yet
    - Vendor-specific registrations are relatively more straightforward
    - Likes the idea of keeping this with the individual working groups as much as possible, but we will need secretariat involvement to make the registration
    - We could create a template in the TASC repo to streamline this for other work streams
    - Read through RFC 6838
- IF: application/json, application/fhir are great, global standards. We want to create the equivalent i.e. application/bam, application/cram
    - Can we get the LSG media types over the finish line too?
- SF: reasonable to take a case-by-case approach, how to best achieve good working outcomes for different standards
    - Try to move forward with the Passports registrations and not delay with figuring out the LSG side of it
- IF: DRS wants to consume these media types
    - There's momentum here in relation to media types
- SF: action to Martin? To work with secretariat to capture the details
    - Also to JM for the LSG side
- JA: Jeremy to connect with Martin on getting these registered
- JA: are the proposed media types by Jeremy ok with TASC?
- IF: looks ok to me, but someone should do the in depth analysis if the syntax is appropriate
- SF: Jeremy and Martin to review
- Current proposed syntax looks good by TASC members
- JM: had an action for the "ga4gh" URN namespace
    - The media types is clearer to move forward
    - Ga4gh URN namespace not as far along yet, John to still do some review of the considerations
- IF: what does IANA want to see to register e.g. application/bam
- JM: a defined and stable specification document
    - SAM/BAM would be easiest to meet the criteria, VCF might get a bit of pushback because of so many vendor-specific customizations

Namespace

- SF: resolving service wasn't part of the original requirement, but some things that have come up recently highlight the importance of being able to find and refer back to data models/schemas
    - A GA4GH registry of its data models could incorporate this functionality, i.e. "this is the generic object/schema for ids with this prefix"

    - Also need documentation noting that it's a computed identifier, what algorithm was used, etc.
- SF: what was said about versioning?
- IF: there needs to be approach to finding out what that identifier means, you should be able to find out where it is located. E.g. a landing page
    - I think there's an obligation to resolve the ID
- SF: maybe this isn't an ID in the typical sense
    - Motivating factors by VRS or refget, it's about disambiguation of identifiers because it's algorithmically derived
    - GKS proposal not so much concerned with resolving the CURIE ID to the full object
- IF: DRS IDs in SRA are determined by hash
    - Demographic example - uniquely identify / hashed id based on demographic data points
- JA: ga4gh is not the authority of the data, just the schema. To add to Ian's comments there is disconnect between the "ga4gh" prefix and the organization that actually owns the data
- IF: yes, in this case the namespace is associated with the algorithm and the representation schema.
    - GA4GH itself has no need for this namespace

2022-03-08: TASC & VRS Meeting

Chair: Jeremy Adams
Attendees "Name (Affiliation)": Ian Fore (NCI, NIH), Susan Fairley, Alex Wagner, Bob Freimuth, John Marshall, Mamana Mbiyavanga, Larry Babb

	Actions Arising	Assigned To	Deadline
1	Add summary of this call to the GitHub issue	Jeremy/Susan/ Neerjah	DONE
2	Make a decision about this on the next TASC call		
3	Add ideas about versioning to the GitHub issue - Jeremy to check in with Alex	Alex	

	Agenda Item	Person/Time
1.	URI resolution and GA4GH universal prefix	
2.		
3.		

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Minutes

Topics for discussion

1. How does URI resolution and GA4GH universal prefix work?

AW: Want to clarify that queries, including those used for VRS IDs, can encompass two unique entities, universal resource identifier (URI) and universal resources names (URN). URN does not guarantee that it is resolvable.
IF: ** No need for every identifier to have a landing page. We just need to know we are referring to the same thing in the same way. That said, I have to respect their use case - I have this ID and have no idea what it means.
AW: With VRS objects, the use of VRS identifiers is to approach the first problem you stated - that we are talking about the same entity. Useful in that context. Not meant to be passed around solely by itself unless it's in a specific context.
IF: Back it out a level - how does identifiers.org work and N2T in relation to prefix and resolves. Identifiers.org and N2t.net are like DNS and they share a database. Also they are not resolvers, they are meta resolvers. They take the prefix and send you off somewhere else. When something arrives at the metaresolver it only looks at the codon and it will know where to send that. For dbgap it knows it's a dbgap codon. There's a unique situation about resolving when you get to VRS. If we have ga4gh codon, that has to go somewhere and that's a huge scope. The resolver for GA4GH codon would be ga4gh - who is going to run that? It's an enormous name space (VRS and others). No one I've heard yet is going to run that. If we have a prefix before the codon that is specific to VRS then only VRS has to deal with it, and that's better scope.
AW: The scope is narrower - e.g. What does the prefix mean in the GA4GH namespace - this is what TASC can work on. There needs to be a way for a shared GA4GH namespace to be maintained, controlled and governed by a central GA4GH authority. SC did say that the notion of a sharee GA4GH namespace is appropriate and what we should aim for so we should continue with that scope. We predicated VRS identifiers on that scope so changing that would break VRS.
JA: The level of resolution that you envision for GA4GH resolving service: a resolver service that tells you where to go get the original data is complex
AW: Agree, that's outside the scope. VRS allows for federated systems to exchange information in a way that eases ** of the system. **
IF: Anybody who has the right algorithm for these can be a resolver because they are computed resolvers. TIdentifier mechanism is a one way hash - true for SRA VRS IDs. Would be SRA codon then a hash. Those are one way computed IDs. From what you told us before, yours is two way.
AW: No, if you create VRS objects in a system and you send those out, you can also provide your own resolver service to reference
IF: Right, you then have to be the resolver. You need to have a database somewhere that says I created this ID and it **
LB: Anybody that creates and registers a computed ID can resolve it.
AW: They can independently create the same digest.

IF: In that case, the database I'm referring to is the thing through which they create the digest. There's a certain set of resolvers which one can use. Just as there are a certain set of resolvers in identifiers.org for the International sequencing consortium. Those can be resolved by EBI, NCBI or *.
AW: Digests in VRS are minimum value objects that allow us to state salient characteristics of variation. Different than having resource like SRA where they maintain data they * digest and everyone can go back to SRA to resolve it.
AW: VRS objects created by GA4GH standards that have computed digest would have an associated prefix. Additionally, there would be other GA4GH services that have their own namespaces that have their own digest. It would be able to resolve to the terminology, informational model ** by the prefix.
IF: We don't have to handle that. Leave it to identifiers.org. When someone with GA4GH wants a prefix, they register it with identifiers.org
AW: The prefix comes after the colon. This is the type prefix.
IF: Right and you manage that for VRS. We cut it down for scope.
IF: GKS maintains the resolver for the scope of the things you described. The prefixing needed by VRS.
AW: But all those exist under GA4GH namespace.
LB: We would register with identifiers.org, not GA4GH, but GA4GH GKS. And then we'd control whatever prefixes we want to put on computed identifiers.
IF: Right. The thing after the codon I'm not going to call the prefix.
LB: Yeah that's basically our type.
LB: Ian is saying that we should carve out our section of GA4GH sub domain - GKS - and do what we need to do. And if any of that rises up to the thing where we need computed identifiers across the WSs they will do their own thing. And if they have a subtype, it won't collide with ours. Nobody will own the GA4GH thing.
JA: The point of the PR was to create a GA4GH wide **. We just have to avoid collision of data prefixes. I think it's possible to do it GA4GH wide and establish a way to do it. Not seeing why it only needs to be scope to VRS.
AW: more to that point, there are issues of trying to move towards greater interoperability generated by WSs. Having a GA4GH namespace -
JM: +1 to Jeremy. VRS already has GA4GH: type prefix etc. In the identiiers.org view of the world, the identifier we want to define is GA4GH. That's what exists in VRS now. Seems clear to me that it would need to be the one managed by GA4GH secretariat. Within that it might be redirected further to VRS or other places. We've come to the conclusion before that it would be good for us to have one prefix that we all collaborated on. And that's what PR #32 focuses on so that we avoid collisions.
SF: I'm usually against us building centralized infrastructure in GA4GH, having said that. From what I've heard, I feel like having a GA4GH namespace probably makes sense. It was a decision that was made at SC. Sounds achievable, so happy to go ahead.
LB: It's like how clinvar registered clinvar, clinvar.record, clinvar.submission, clinvar.submitter in identifiers.org for different sets of namespaces within the clinvar dataset. We just need TASC to help us approve the process for how we register these namespaces with identifiers.org.

IF: Is the V going to be before or after the codon?
AW: After, as it is now.
IF: Ok so we are only taking on GA4GH codon.
JM: Registering ga4gh: with identifiers.org doesn't preclude us from registering other prefixes additionally if we wished to. e.g. ga4ghdos already exists at identifiers.org.
AW: At the end of the day we can always do a major version release and we change the prefix at that time. I think it's about whether or not we want to encourage a shared namespace for interoperability. Shared registries are an ongoing and relevant topic as well. (SF +1)
I see the type of service we're talking about to support the resolver as being lightweight. Very akin to hosting a website in terms of operational overhead.
IF: +1 to John's comment above. Once we've registered the prefix, we don't need to register with anybody other than ourselves from there. No need to do what John suggests. Doesn't mean we wouldn't want to. Would be good to still have that option of registering with identifiers.org. I'm concerned that if we're going down a road that people think to work with GA4GH standards you need to be using GA4GH codon prefix identifiers, that's not necessary and might end up getting away from the value of compact identifiers being compact. Can end up with long IDs. GA4GH standards are already using identifiers with other prefixes. That should be encouraged. There are people outside of this call who won't understand that and they should be given something simple to use. Might be more complex than what they need.
JM: I would like to see GA4GH providing a technical website. The resolver would go from identifying to core GA4GH and out to whoever. Could be small ** easy to support thing that would be appropriate for the core GA4GH to put this infrastructure up. (JA +1)
JA: There needs to be some service for registering GA4GH services and we should be maintaining the location of all that. I would +1 keeping it lightweight and in our wheelhouse.
LB (+1 to JM and JA). Important to segregate compact identifiers that use the computed identifier algorithm that we're talking about. That's the crux of where you separate things. The purpose of the namespace is to ensure uniqueness within the identifier set and that the identifier set has strong linkage to what the namespace is. I'm suggesting we don't just use ga4gh:, we use ga4ghci or vr.
IF: Larry's right on where the issue is. We're choosing to do something differently than what other organizations have done that have used this identifier.
AW: That's true. This is different than NCBI, clinVar etc, but the scope of different too. Those are centralized services with a single resolver. In this case, we're talking about schemas. If we want to shift gears in VRS 2.0 and go to VRS:...For beacon 2.0 we're asking them to align and share different standards namespace…**
JA: From an implementation perspective it would be simpler to have a single prefix - driving at interoperability.
SF: Do we need more discussion?
IF: This conversation has clarified that the stakes are around some core principles - interoperability and centralization vs distributed. I feel that these are big issues and we're taking a step here that takes us down a particular road. It's a high stakes decision.
BF: We do have a lot of the info that we need. I still think we've got 4-5 different issues that are severable but interrelated. It would help me if we could enumerate what those are and address

how we propose to handle each one of those things separately.

2. Clarification around what is agreed upon and ready for TASC to implement and what is still open for discussion? Established vs expectations
3. Versioning of a payload/schema. Currently in GKS VRS schema you have a key that indicates data type, but nothing that identifies the version.
    a. 2 questions:
        i. Guidance on rules on how project can claim prefixes
        ii. How do we deal with versioning?

IF: Versioning is pretty well handled by the query mechanism. Can be dealt with easily. Might punt the problem. Simple as what James said, we need a GA4GH prefix.
AW:

2022-03-07: TASC Meeting

Chair: Jeremy Adams
Attendees “Name (Affiliation)”: Susan Fairley, Reece Hart, Alex Wagner, Ian Fore, Bob Freimuth, John Marshall, Larry Babb, Mamana Mbiyavanga, Martin Kuba

	Actions Arising	Assigned To	Deadline
1	GA4GH core module vrs-python #75 - how will this be managed in future?	Susan	
2	To add comment to Martin’s request	John	
3	Investigate holding IANA namespace registration centrally	Susan	

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	
2.	Previous Actions Review	
3.	GA4GH core module - vrs-python #75	Alex, Reece / 30
4.	Registrations in IANA URN Namespaces and Media Types registries - #36	Martin / 30

	New Issues Review -	
	Other Issues Review	
	A.O.B.	

Minutes:

VRS Python

- AW: VRS Python has a “core” module, we would like to pull that out into its own library to facilitate importing across libraries
    - How to name the module/package/namespace
    - Pip install ga4gh.vrs
    - The ‘core’ module in py will be under ‘ga4gh.gks’ prefix
    - Currently, vrs-python is one package on PyPI
    - Package ‘ga4gh.core’ -> ‘ga4gh.gks.core’
    - Ga4gh.core -> we do see scope for them being across work streams, such as computed identifier namespace, this package currently has methods for supporting it
    - When other groups want to do shared identifiers, the code might get bumped up to another, more universal location
- IF: similar need in fasp-scripts
    - Not in PyPI yet
    - Similar thing in data connect, all the packages are currently labeled ‘dnastack’
    - Will involve other languages beside python
    - Fasp-scripts has identity metaresolver
    - Is this for standards, or is this for implementations? And does GA4GH own standards? Implementations? Need to clarify
- SF: GA4GH has focused on the standards but not ownership of the implementations.
    - We do want to see things being built
- AW: we need vrs-python because there’s a lot going on regarding computed identifiers, we want to provide a library to make adoption easier. This might crop up in other standards
- RH: we need to show an implementation in some form
    - Not so much standards vs implementation, it’s if we want to see reference implementations in isolation, or does GA4GH want to build a coherent whole implementation, “here’s where packages go, what formats are used, etc.”
    - Needs some top down guidance
- SF: historically, GA4GH reference implementations have been one-off, not necessarily a whole framework
- SF: my position is the same as with data models, encourage to reuse schemas, or justify their position if they are going to use something else.

    - Currently work streams have a high degree of freedom
- RH: agree not to force people to do things a certain way
    - OTOH, a base or reference way of doing things can be helpful
- SF: there's a clear plan in GKS for VRS, what is needed from TASC? How is this reuse encouraged?
- AW: we have a plan within GKS and are not blocked on any decision by TASC
    - Most of PyPI implementations have come from the GKS work stream, we're using a typical package structure
- SF: how do we manage this python namespace?
- AW: GA4GH could maintain a sub-index of our projects, "these are official GA4GH packages"
    - Want to at least maintain the root namespace
- RH: replace it with something that just claims the namespace
    - PyPI should be cleaned up
    - Rationale for putting digest stuff in gks?
- AW: yes, it's here because we don't want to overstep our bounds, it helps us not to be blocked. The namespace system was approved by SC
- RH: who makes that decision?
- IF: it needs some wider uptake, we haven't done DD in what's been done
- AW: determine a process? Reference implementations for libraries across products
- SF: at what stage are these things developed?
    - We could build this into the product development process
- IF: how does GA4GH approve a package and what does that mean?
- RH: security team did review VRS Python
- SF: "GA4GH approved package"
    - I'm ok with there being packages developed by work streams that's useful for people
    - Not sure we should be officially stamping packages with approval
- RH: if there's too much that's uncontrolled it will lead to standards that won't work well together

IANA Registrations

- API asks for 2 pieces of metadata pertaining to a token:
    - Media type identifier
    - Registered namespace (URN prefix)
- IF: there's definitely overlap with the GKS conversation
- JM: if we look at what's in there, this looks appropriate for GA4GH
    - It's a central thing, somebody central at GA4GH would have to manage
- MK: there could be a specific structure for the way we register media types (e.g. GA4GH somewhere in the media type)
    - This was not done in Passports 1.0, because a new type of token wasn't defined
- IF: where would we be registering? On identifiers.org?

- SF: VRS is looking at doing something similar but solving a very different type of problem with a different aim
- IF: need to differentiate between the identification and the location
- SF: any specific reason for using a URN vs URI?
- IF: we want compact identifiers, especially URNs with “ga4gh.x.y.z”
- SF: the die is already cast with the GKS namespace prefix system
- JM: this ticket is specifically about OAuth tokens
- SF: if we go ahead with this, then it will be in line with OAuth
    - Should we just go ahead and do this?
    - Ian +1, Jeremy +1
- JM: we will want to investigate how this works and the repercussions in detail
- MK: we will need some solution for this when we release the next version of the passport
- SF: let’s formulate additional questions for clarification
    - GA4GH staff to discuss managing registrations like these centrally
- JM: if we propose an entry here, is it only for OAuth or can it apply to other things? The URN thing requires a pan-GA4GH approach. The media type can be handled by sub groups
- MK: the simple thing is registering the prefix, the complicated thing is managing what happens after the prefix

2022-02-14: TASC Meeting

Chair: Jeremy Adams
Attendees “Name (Affiliation)”: Susan Fairley (GA4GH), Alice Mann (GA4GH), Mamana Mbiyavanga, Ian Fore, John Marshall, Francesca Frexia, Bob Friemuth, Jonathan Lawson (briefly)

	Actions Arising	Assigned To	Deadline
1	Invite Alex Wagner, VRS leads onto next TASC call	Susan Fairley	
2	Schedule a type prefix deep dive call with TASC & VRS	Susan Fairley	

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	Mamana, Jeremy / 5
2.	Previous Actions Review	Mamana, Jeremy / 5
3.	Namespacing discussion - Issue #16, PR #32	Jeremy / 45

Resolution for topics raised in the PR:

- Rename ‘master’ branch to ‘main’
  - Jeremy, Bob +1 to change
  - Mamana need to confirm
  - Does GA4GH want to create a policy about branch naming affecting other repos? Create new issue within TASC
- Rename ‘TASC’ repo to ‘ga4gh-common’, or move registry to new repo
  - Organizational decisions are fluid, can be difficult to name something after a single project
  - Don’t change name - keep as TASC
- Registry format: human (.md) and/or machine readable (.yml)
  - JM: Difference between the VRS repository and the TASC repository, not sure the uses of machine-readable format
  - IF: semantically meaningful, we can envision machine-readable use cases
  - JM: what about just adding the human readable version for now, once we know of machine use cases we can then add that in
  -
- Allow non-computed identifiers?
- Governance process? e.g. maturation of type prefix from ‘proposed’ into ‘fixed’ state
- Register on a resolver service like identifiers.org/n2t? What would this look like?
  - JA: ga4gh prefix not sufficient to resolve to a specific service
  - SF: will follow up with Alex Wagner about resolution
  - BF: minting authority vs resolving service, 2 different problems
    - Minting authority: the group that creates the CURIE system
    - VRS created a system that was independent of the minting authority, there is no central repository for identifiers under this system
    - Intent of the prefix is to label the identifier, to state how that identifier was created based on the underlying object (i.e. computed identifier)
    - You could pass the identifier to any service that supports it
    - Where do you go to get information about this? How do you know which service to go to based on the id? This is not addressed by the registry.
    - The prefix does not convey information about the resolution, it’s about the type of the object
    - **Identification and type, not location**
    - These types that get registered are bound to ‘ga4gh’ under that prefix for all time (e.g. the VA type can never move)

	○ SF: other standards in GA4GH where they will be opinionated on this? ○ BF: question is whether to place other objects under 'ga4gh:' namespace ■ Each object type is bound to an algorithm and a schema, so that the same checksum can be generated every time ■ Any time we change the schema, it will necessarily change the generated checksum. ■ What happens when a bound type prefix changes a schema? (e.g. VA schema change) ■ Policy about minting/versioning the namespace? ■ We are binding the semantic meaning of a thing (e.g. type) to schema/structure ■ 2 questions: ● Guidance on rules on how project can claim prefixes ● How do we deal with versioning? ○ SF: what are the benefits of coordinating this registry across GA4GH products?	
	New Issues Review -	
	Other Issues Review	
	A.O.B.	

Schema Blocks progress?

- SF: Project # 1 - GA4GH data model library - improving documentation, reuse of schemas from GA4GH standards, make it easier to code against the standards
  - Confined to only GA4GH-related models, and schema definition languages already used within GA4GH (JSON schema, Protobuf)
- SF: Project # 2 - another project - a "data model sharing" type project
  - In theory, could work along data connect
  - How to map between schemas of different formats, etc.
  - Currently in an outreach phase to work streams, definition of the problem we are trying to solve, etc.
  - Eventually present to SC, maybe as a new standard
- IF: Where's the definitive place where this is happening?
  - Useful progress during the hackathon that we could apply to this
- SF: a good place to continue talking about this is on SchemaBlocks call
  - For project #1, this is with the tech team
  - For #2, this hasn't got off the ground yet, currently in outreach phase w/ Alice and Marc

- IF: we should stay open to there being crossover between projects 1 and 2
    - Project #2 has been attempted before, perhaps this will be bringing it to a new level of formality
- SF: project 2 needs a landscape analysis with a defined problem statement and scope
    - Not GA4GH's role to provide centralized infrastructure for data models that come from elsewhere

2022-01-10: TASC Meeting

Chair: Jeremy Adams
Attendees "Name (Affiliation)": Susan Fairley (GA4GH), Neerjah Skantharajah (GA4GH), Alice Mann (GA4GH), John Marshall (University of Glasgow), Francesca Frexia (CRS4), joined during discussion of namespace Bob Freimuth (Mayo), Jonathan Lawson (Broad), Ian Fore

	Actions Arising	Assigned To	Deadline
1	Namespace discussion: consolidate questions and seek additional information on questions raised (see notes below for detail)	Jeremy	
2			

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	Mamana, Jeremy / 5
2.	Previous Actions Review	Mamana, Jeremy / 5
3.	Schema Library Quick Update **Background** • Data Model Library: Connect meeting agenda + minutes • Data Model Library: Connect meeting slides	Jeremy / 5
4.	Namespacing discussion - Issue #16, PR #32	Jeremy / 25
	New Issues Review -	
	Other Issues Review	
	A.O.B.	

Global Alliance for Genomics & Health

Discussing namespace (item 4 on agenda) (see https://github.com/ga4gh/TASC/pull/32#issuecomment-1006044012):

- Machine readable registry v human readable registry
  - The pull request discussion includes various people favouring machine readable but use cases for this are unclear
  - TASC would like to see the reasons/use cases supporting the need for this feature
  - Action: Jeremy to follow up with GKS for use cases
- Exclusively computed identifiers or not?
  - Need for an entry saying what the algorithm is?
  - Do we need to limit to compute? As this (the type prefix) defines what follows it do we need to limit?
  - When a new type appears, what is the process there?
  - Do we have current use cases for non-computed identifiers?
    - Would non-computed impact design decisions?
  - JM: If seq collections want to register, they have their own method of constructing a digest - would want to use their algorithm. Possible other cases of grandfathering other accessions into this?
  - IF: DRS had to address this extensively. Looked at identifiers.org. What would a GA4GH namespace be for? Mainly using namespaces that exist elsewhere. Why not use existing? What is this addressing?
  - Summary of background from BF. Noted that GKS wanted this to be GA4GH-wide so that it could be managed GA4GH wide
  - Link from Susan to original proposal https://vrs.ga4gh.org/en/1.0/appendices/ga4gh_identifiers.html
  - Need to go back to GKS (and others?) to clarify the above points and why GA4GH-specific rather than reusing an existing entity like identifiers.org
  - Aim to separate from a given product - e.g. not under VRS if entity used in other specs
  - DRS example may be relevant - using identifiers.org
  - Location of resolvers is also important
  - Action: Jeremy to follow up on the above with GKS and others

2021-11-08: TASC Meeting

Chair: Jeremy Adams
Attendees “Name (Affiliation)”: Alice Mann (GA4GH), John Marshall (University of Glasgow), Francesca Frexia (CRS4), Susan Fairley (GA4GH), Bob Freimuth (Mayo), Jonathan Lawson (Broad), Mamana Mbiyavanga (H3Africa)

	Actions Arising	Assigned To	Deadline
1			
2			

Global Alliance
for Genomics & Health

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	Mamana, Jeremy / 5
2.	Previous Actions Review	Mamana, Jeremy / 5
3.	Schema Library, Connect session and next steps **Background** ● Data Model Library: Connect meeting agenda + minutes ● Data Model Library: Connect meeting slides ● General widespread agreement of the necessity and capabilities ● Outstanding issues a. Support for one language, or allow constrained set of multiple languages b. Support only “core” GA4GH models (i.e. outlined in technical specs) OR include non-standardized “community” models (i.e. what SchemaBlocks currently does). ● Are we ready to pilot a GA4GH-wide schema platform?	Jeremy, Susan / 25
4.	Namespacing update - Issue #16, PR #32	Jeremy / 25
	New Issues Review -	
	Other Issues Review	
	A.O.B.	

Introductions from Jeremy

Overview of data model library from Jeremy, outlining questions listed above

BF: use case questions interesting and considering variety of expectations. Good not to boil the ocean. Start small and build out.

FF: language complexities on deciding on a single language, in same way better to start with core GA4GH models. Leaving out what not standardised could lead to divrgence.

JM: second FF’s comments. Most in LSG specified or specified by regex - not json schema

SF: like to start off with GA4GH, all-encompassing for GA4GH core models. Discovery idea of importing models from elsewhere? Would this make it easy to publish? Does it hurt maintainability?

BF: on maintenance: life cycle. If we create a system with a low bar to publish, also need to think about deprecation. We will eventually accumulate a lot of cruft. We need a concept of **maturity** and a concept of

JA: namespace idea (sim, dockerhub of github). Could include lifecycle here? If other orgs models there might not guarantee quality? Would that be a good path forward? Have GA4GH side and exploratory.

BF: its possible. It's currently a fuzzy line where things go exactly right now, what attributes, etc. It might not ultimately change the requirements. The key to all these things is **searchability.** Users should be able to search through the models and easily identify what's at "core" level

SF: maintaining the models within GA4GH, not easy but doable. Associate with product approval process. For the external stuff, I see 2 approaches:

1. Find a way to link to things outside of GA4GH - what happens when those models are no longer maintained? Offload maintenance to other groups. Could we have a named individual to ensure maintenance of external models?

BF: agree. making a mistake to host external standards, we would get overwhelmed. Currently, there are few external standards we'd be interested in bringing in. What are the touchpoints/mapping points?

JA: examples?

SF: Data Connect, see what JSON schemas some use cases are doing.

BF: clinical side, how do we take what's going on in GA4GH and bring it into clinical space. Need to interact with FHIR, EHR. e.g. how do we represent patient/bio specimen, clinical test? We have a clear mapping between GA4GH and EHR/FHIR

JA: phenopackets and FHIR example?

BF: not necessarily an entire GA4GH schema moving over to FHIR. We'll have to do transformations, are we making models that are transformable to other environments with minimal loss? Would like to see prior work in other standards bodies so we don't create very difficult transformations

BF: 2 parts

1. How do we represent an element in another standard format (e.g. FHIR)? Not necessarily part of this library

2. What is the GA4GH rendering of this model? This should go in the repository. And we can include a mapping documentation of all the equivalent. Mapping space is complex, not needed to make a structured representation

SF: like to start with the GA4GH stuff, implement the core models and move toward mappings as time goes on. Need to make sure GA4GH models aren't moving too quickly, aren't trying to map out to everything, especially if the things they are mapped to are moving targets.

BF: agree, start with GA4GH. Take-home: the idea of mapping (capturing where a structure came from), all that extra information is useful to capture, but doesn't have to be computable within the repo. Mapping at the **documentation** level, not **computation** level.

SF: Bob's work (NLM) implementing things in FHIR. Would be great to get learnings from Bob, Peter, Lindsay

BF: part of NLM, going to be publishing documentation. Looking to take work in GKS and bring into FHIR in new NHGRI funded work.

BF: bidirectional mapping, not just for those in the GA4GH community, but also for people in other groups. Help them understand how to use GA4GH

JA: are we ready for devs to get started?

Namespace:
https://github.com/ga4gh/TASC/pull/32#issuecomment-963313448

JM: need to decide what the initial goal is. Is the audience people (that's how i see it). Many of the comments are around it being a machine readable thing, this might be too much work to spec out. Just want a unified listing. Need to clarify what this is intended to be. For those arguing for machine readable, need reasons, explain what identifiers are. Main goal (simple listing as a starting point) is to give an overview/list that can then be followed up on. Dominant aspect is brief descriptions of what each thing is.

BF: at core agree. Centralised list of what abbreviations mean.

2021-09-13: TASC Meeting

Chair: Jeremy Adams (GA4GH)
Attendees "Name (Affiliation)":

	Actions Arising	Assigned To	Deadline
1	Jeremy to reach out about current Namespace PR. Send to Bob, Susan, Alex, VR subgroup, all of GKS, Clin/Pheno, Melissa	Jeremy	

	Haendel		
2	Jeremy to send email to TASC members about Issue #13 ready to close		

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	Jeremy / 5
2.	Previous Actions Review ● Htsget artifact closed - link	Jeremy / 5
3.	Namespacing update - Issue #16, PR #32 - Next steps? -	Jeremy / 10
4.	Schema library requirements gathering update - check-in - October Connect session - Oct 14th @ 13:30 UTC - Jeremy and Susan to synthesize feedback and create draft plan - Current feedback docs - Clin/Pheno - GKS - Discovery - Cloud - LSG - DURI - FASP - Security	Jeremy / 10
5.	Service info regex - Issue #13, PR #33 - Is this ready to close?	Jeremy / 10
6.	GA4GH scientific use cases - central tracking ● New document ● Can/should TASC support this effort? ○ Can we import existing use cases here	Jeremy / 10
	New Issues Review -	
	Other Issues Review	
	A.O.B.	

Namespace:

BF: would be good to have something to report on by Plenary
SF: perhaps reach out within the week
BF: could do within the week, but gets tricky. By the 24th
SF: where would this be discussed at Plenary?
BF: being able to announce we have a draft

Schema Library:
BF: sometimes the concept is too abstract, need a concrete proposal to get more engagement
BF: suggest a ~15min check-in with the work streams post-connect

Use Cases:
SF: potentially useful, e.g. cancer community workflows. Similar real-world use cases crop up. What somebody wants to accomplish doesn't correspond to a single standard. Make sure we have these use cases captured. TASC could be involved in this - how can you achieve a certain use case with standards A,B, C? How well do the standards integrate?
BF: we have different levels of use cases. Three levels

1. Motivate the development of a specification. That is good as core product documentation.
2. But high-level use cases span multiple products and demonstrate what can happen at an enterprise level. But the person reading the use case has already bought into GA4GH.
3. A third level of use case -- how does the "GA4GH product line" work in the grand scheme of things, how does it interface with standards from other SDOs or community standards? Written from the perspective of the end user.

SF: don't wait for GA4GH to solve all issues, leverage other standards where they exist. End user use cases, need to step back from specific products/technologies and say "what problem are we trying to solve" for the end user.
BF: GA4GH has put together outward facing, non-technical stories. There is a parallel here, the use cases we describe here can feed into these outward stories. For Strategic level individuals thinking about an overall vision
SF: need to make sure the technical products do fulfill these stories

SF: Interesting first step in terms of what use cases exist. Reach out to work streams

MM: Could be useful for a driver project for understanding what each product does. Associating products with use cases, how have certain use cases been accomplished with certain standards

2021-08-09: TASC meeting

Chair: Jeremy Adams (GA4GH)
Attendees "Name (Affiliation)": Susan Fairley (GA4GH), Francesca Frexia, Bob Freimuth (Mayo), John Marshall, Alice Mann, Lindsay Smith, Mamana Mbiyavanga, Jonathan Lawson, Neerjah Skantharajah

	Actions Arising	Assigned To	Deadline

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1	Jeremy to link to FASP hackathon pagination proposal in pagination issue	Jeremy	DONE
2	#22 - https://github.com/ga4gh/TASC/issues/22 to look at scheduling time on a future call when Ian Fore and members of Discovery and Cloud can join the call for a discussion.	Neerjah	
3	#19 - making old versions of standards available. Some complexity. Susan to look at this in context of PA and new website	Susan	
4	#17 - John to summarise and close	John	
5	#13 - Jeremy to take this forward and add regex to doc	Jeremy	DONE #33
6	#12 - relates to web requirements. Susan to add a comment to that effect.	Susan	DONE
7	#31 - No objections on call to htsget artifact value. Jeremy will email list with deadline for objections from those not on the call	Jeremy	DONE

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	Susan/5
2.	Previous Actions Review - Include general update on schema consultation - General update on namespace - PR #32	Susan/15
3.	GA4GH-wide pagination #29	Jeremy/ 5
4.	Review current issues: https://github.com/ga4gh/TASC/issues	Susan/30
	New Issues Review -	
	Other Issues Review	
	A.O.B.	

Pagination:
Proposal sounds fairly sensible. Bob, preference to pattern off of existing things (REST, SQL, etc) but no strong preference for GA4GH specifically. John, agree. See PR for initial proposal, want feedback.
#22 - schedule for a future call with Ian, Discovery and Cloud

#19 - making old versions of standards available. Depends on version management and updated website. Jeremy - could base off of Open API but could also allow other ways, just

making Open API (or similar) available. Stable URLs useful. John: TASC has been subordinate to WSs. Important not to unnecessarily interfere with how work streams operate. John nuances here in terms of which versions people want (including old versions). Susan: keen website can offer current dev, newly released and older versions (if want to check for a given file version, etc - say 1000G VCFs). Should be clear if looking at historical versions. Bob: Github good for some things but GA4GH appropriate for wider audience. John: broad base of users for file formats. Need to accommodate different working styles in work streams. Some standards originated outside of GA4GH. Mamana: initial step to add this to product approval process. See page three of the product approval form.

#17 - this can be closed. Came from refget. John needs to write up a summary but questions has been answered.

#13 - service info artifact - this is a regex to constrain what character sets can be provided here. Looks like this can move ahead. Jeremy will take this forward.

#12 - relates to #19. Tool from Cloud workstream that could be used to generate documentation. Would automatically update github pages site. Could integrate with releases of specifications. This could be writing up a technical guide. Tool currently used for DRS and WES. Susan: part of wider conversation on documentation management and presentation.Jeremy: would integrate nicely with future web presentation and works with some existing Cloud tools. Susan: do we have a list of current documentation processes in GA4GH? Interested in seeing website requirements and working back from that. Susan: mark as one to watch in context of web development - get web requirements and then revisit..

Htsget #31 - adding to artifact value. No objections on call to this going ahead. Jeremy will email list to see if any objections.

Process for voting. John: Should be clear. Would be good to get affirmative responses. Quorate? SUsan: don;t want to tie hands for simple and non-controversial decisions. Give people chance to object on calls, send email after to confirm what is happening and allow objections from those not present.

2021-07-12: TASC meeting

Chair: Susan Fairley, Mamana Mbiyavanga, Jeremy Adams
Attendees “Name (Affiliation)”: Lindsay Smith (GA4GH)

	Actions Arising	Assigned To	Deadline

1	Circulate schemablocks feedback and schedule time on meetings working with TASC members and secretariat	Susan	
2	PRs #27 and 26 to go ahead	Mamana/Jeremy	
3	Get VRS prefixes into system (Alex and Jeremy) and identity a mechanism for updating this with additional future prefixes (Jeremy)	Jeremy/Alex/Bob/Mamana	
4	Look at VRS namespace governance in relation to PA	Susan	
5	Poll for August meeting	Susan	
6	Pagination to next meeting	Susan	
7	Add prioritisation to agenda for next call	Susan	

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	
2.	Previous Actions Review	
3.	Aim to close PRs for 2 open issues: - #27 Add Data Connect to registry - resolved - Jeremy to close this first - #26 Alphabetise service-info registry - John to rebase and close second	Mamana, Jeremy / 5

4.	#16 GA4GH namespace policy in relation to VRS
	- Consolidate original document with Github thread into revised proposal for TASC to review
	- TASC needs to reach decision about:
	  - 1. The identifier format
	  - 2. The process behind registration and maintenance of the master registry
	- Communicate the registry throughout multiple points in the standards development process
	- Maintaining process going forward
	  - Product approval check point
	  - Encouraging people to reach out early
	  - Possible conflicts referred to TASC	

5.	GA4GH-wide pagination #29	Jeremy / 5
6.	August meeting scheduling	

	New Issues Review -	
	Other Issues Review	
	A.O.B.	

Notes:

VRS namespace
BF: Use secretraiat to capture VRS and then move forward
AW: VRS not gated but concerned about conflicts - much already there to move to conflict file

2021-06-14: TASC meeting

Chair:
Attendees “Name (Affiliation)”: James Eddy (Sage Bionetworks), Lindsay Smith (GA4GH), Alice Mann (GA4GH), Francesca Frexia, Ian Fore, John Marshall, Jordi Rambla, Mamana Mbiyavanga, Michael Baudis, Susan Fairley (GA4GH), Neerjah Skantharajah (GA4GH), Jeremy Adams (GA4GH), Jonathan Lawson, Bob Freimuth (Mayo)

	Actions Arising	Assigned To	Deadline
1	Secretariat and TASC members to communicate schemablocks/data harmonization plans with their respective work streams, requirements gathering	Susan	
2	Have a FASP member regularly attend these calls	Susan	
3	Add item 4 and Alex Wagner’s namespace issue to agenda for next meeting		

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	
2.	Previous Actions Review	
3.	Data modelling and schema representation - Introduction from Susan https://docs.google.com/presentation/d/1gbku1vTInSaO5-sCucTqAKPceIcTgTnQvYvoh4y2els/edit?usp=sharing - Discussion - Identify next steps	Susan

4.	Aim to close PRs for 2 open issues: - #27 Add Data Connect to registry - #26 Alphabetise service-info registry	Mamana, Jeremy / 5
	New Issues Review -	
	Other Issues Review	
	A.O.B.	

After Susan's introduction:
JR: would we end up using the same models across GA4GH. When would this happen - sooner rather than later. Need for authority and overarching view.
SF: "authority, management, governance, etc." may rub people the wrong way if we don't consult widely across GA4GH and get consensus. Reluctant to mandate we do something retroactively for existing standards, mainly seeing at as what we do going forward. There is also potential to incorporate into product approval process, encourage new specs to use existing models, etc.
MB: do things in small bits, add tags to show certain schemas that are widely used and blessed by the community. Start small and get initial alignment, a new standard can proactively leverage these community-stamped schemas. We are not sure yet if GA4GH wants to step forward itself and put stamps on schemas. A larger logical schema can arise later organically, ie a bottom up approach is more realistic
SF: try to go for a set of reusable components rather than a single huge logical grouping of schemas. We need to talk to the community to make sure this will be widely used. Check in with work stream leads, do any specs plan to use this and what would they want to see?
IF: not sure we have even reached consensus about what 'it' is. Need to get clearer picture on what it is, e.g. schema library, management process, etc. Can we identify a smaller 'it' that we can focus on and deliver
SF: range of potential options of what 'it' could be

- Small and reusable vs overarching
    - First step: keep it simple and achievable
    - Still need to consult the community: features, implementation models

- Other option is to consult more widely

JR: we are finishing Beacon V2. Let's say we have a library of reusable schemas, but if the ideas are not written in the way I want to use them I will reformat as needed (rename, change properties, etc). The path of least resistance will allow me to change a schema as needed. However if we mandate to use something as is or not at all, then I will likely not use it at all.

- Protobuf vs JSON schema - something like this can be mandatory, be consistent across the community. Can be mandated by GA4GH central
- Provide me with few constraints, but some constraints are necessary

SF: We can ask spec developers to give consideration to existing schemas, reuse existing schemas where possible. Ie we encourage schema reuse without blocking new things

MB: many discussions about making things reusable in Phenopackets by converting to (or supporting) JSON schema. Too much overhead to rewrite and no motivating force for the conversion.
SF: this is an example as a technical barrier, can we support conversions between formats?
SF: sounds like we are leaning to a component approach, need to reach out to work stream leads about this. Lightweight end of the spectrum
LS: good to bring this up at work stream meetings and have a real-time conversation
JM: TASC is made up of members from each work stream

2021-05-10: First TASC meeting with CSO

Chair:
Attendees “Name (Affiliation)”: Susan Fairley (GA4GH), John Marshall (University of Glasgow), Bob Freimuth (GKS, Mayo Clinic), Jeremy Adams (GA4GH), Francesca Frexia (CRS4), James Eddy, Jonathan Lawson

	Actions Arising	Assigned To	Deadline
1	Susan to discuss with FASP, encourage FASP members provide API feedback to TASC		
2	Jeremy to re-circulate SchemaBlocks, data types proposal documents that were discussed in TASC		

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	All / 5
2.	Previous Actions Review	All / 5
3.	TASC Round Robin with CSO - TASC + CSO Whiteboard	
	New Issues Review -	
	Other Issues Review	
	A.O.B.	

Minutes:

- FF: TASC has a role in harmonizing the development of GA4GH standards, harmonize between standards

- JL: appreciate speed of ieration and going from dev to implementation. Also appreciate collabortaion opportunities. Avoid silo'd dev
- JE: Making life easier for those in the work streams, identify common guidelines, bolier plate, software tools. Common templates and frameworks for documentation, common workflows for building, deploying docs, etc.
- BF: spanning both GA4GH and HL7, how to help data flow from one system to another, ie. between the research and healthcare space.
    - GA4GH has a tendency to quickly shifting toward developing software implementations rather than standards. Need to think more about the process for developing the standard more
    - GA4GH nimbleness leads us to encounter a situation where there are dozens of standards, but there is little coordination of how they work together. Push this coordination of standards upstream rather than being post-approval
- JM: original thought was that TASC would be a relatively small additional workload, reactively making rulings on issues brought to it; scope for being more proactive
    - There is scope for improving effectiveness of our standards-making processes

- SF: we all agree that harmonization is a good thing, but how to achieve this
    - Product approval, modifications to process
    - Potential for TASC to play a role in identifying opportunities for alignment, providing feedback for work streams
- SF: TASC member workload, how we make best use of our time, and delegate to other GA4GH groups/work streams. When is it sensible for TASC to be involved, and when is it best offloaded to work streams. How not to overburden TASC with every little detail about all GA4GH specs
    - JL: how much are we a group that looks at the technical viability of standards, vs strategic across multiple work streams?
        - JA: TASC is about strategic alignment, not technical viability assessment
        - BF: +1; TASC should not be a gatekeeping group. TASC has potential advantages, our members should be focussed on interoperability of products across the enterprise. Put together guidance and recommendations on how products should be developed, how they can be retrofitted for deeper interop. Product approval could be expanded to require work streams to read TASC guidelines
        - SF: hopefully technical details will be taken care of within the work stream, TASC "fills in the spaces" between the work streams ie. identifying interfaces, commonalities, places where 2 standards should sync up, etc.
        - Do we have a mechanism by which these interop opportunities are identified? Does this involve FASP?
            - JM: this hasn't happened so often that there are clear patterns. Rishi helped a lot with this, prodded different groups to connect. FASP bringing things to TASC would be a good model

        - BF: FASP is in a position to finding these issues, but there is a lot of insider information, behind the scenes transformations that not all implementers will be aware of. We can't assume that FASP will highlight everything. Good to get naive adopters

- SF: the current Github repo, what are current priorities? Big picture and things that are immediately blocking people
    - BF: not aware of anything that is blocked. Product teams have just continued without our input.
    - JM: identifier issue, next step is to propose the SAM/VCF rules for reference sequence names as the pan-GA4GH rule. But no clear place to put this, what would this solution look like? Need the technical resolution, and a home (e.g. webpage) for where we capture this (and other TASC) resolutions. Ie. where to publish rulings
        - There is the TASC GH repo, but this isn't the right place for it as no one will see it
    - SF: communication and how we make sure the right people see the right things. Anything that works particularly well for getting our comms out?
        - JL: in DURI, we try to coach WS participants to raise issues, proposals via Github. We have to send out the exact URL of where to raise the issue. Only software engineers are familiar with GH and comfortable raising an issue on the platform, anyone else needs more coaching
        - BF: designated liaisons at the work stream or sub group level. Designated point of contact between TASC and working group calls. Member of each working group agrees to sign up to a mailing list, TASC pushes conversation topics to the list

- SF: Schemablocks - should we have a more focused meeting on this at the next meeting?
    - BF: ~6 months old summary documents of potential ways forward with SB, data types. A few proposals: SB as a platform for harboring known interoperable schemas.
- BF: what do we as an org want to achieve? Does GA4GH strive to put out software? Standards? Standards that will have global impact?

2021-04-12: TASC: Level set on data modeling

Chair: Mamana / Jeremy
Attendees "Name (Affiliation)":
Bob Freimuth (GKS, Mayo Clinic), Stephanie Li (GA4GH), John Marshall (Glasgow), Craig Voisin, Francesca Frexia, Jonathan Lawson

	Actions Arising	Assigned To	Deadline
1			
2			

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	All / 5
2.	Previous Actions Review	All / 5
3.	Note from CSO	Jeremy / 5
4.	TASC governance of GA4GH data models/schemas: pre-CSO discussion - slides	Jeremy / 30
	Other Issues Review	
	A.O.B.	

2020-02-08: TASC Meeting

Chair: Mamana / Jeremy
Attendees “Name (Affiliation)”:

	Actions Arising	Assigned To	Deadline
1			
2			

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	
2.	Previous Actions Review	
3.	Harmonise Identifier Rules #5	
	New Issues Review -	
	Other Issues Review	

	A.O.B.	

2021-01-11: Service Info / Identifier Rules / Registry

Chair: Mamana / Jeremy
Attendees “Name (Affiliation)”:

	Actions Arising	Assigned To	Deadline
1			
2			

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	
2.	Previous Actions Review	All / 5
3.	Service-info - Proposed additions: - retrospective TES API service-info entry PR#21 - JE: looks good - JM: +1 - JA: +1 - JA: need to update TASC governance before closing, once we update we can submit this as open for comment - MM: TES is open for approval, is this going to impede the process - add ga4gh-search specification to service info type register PR#23 - JM: if it’s approved as GA4GH Search, then ‘search’ is the appropriate artifact - JE: seems fine, the service info JSON should we include versions? - JA: may be too much for TASC to include all versions of all standards, the registry may be able to do this eventually - Alphabetise the service-info registry entries [trivial editorial] PR#26 - JM: work stream is not apparent, if we sort them that way then we should make that explicit	Mamana, Jeremy / 10

	- JM: registry is designed to avoid collisions, alphabetical highlights this better - BF: in favor of not tying the list to organizational structure, as it can change - Add regex rule for service-info type `artifact` values #13 - JE: looks good, JA +1 - Add regex rule for service-info type `artifact` values #13 -	
4.	Harmonise Identifier Rules #5 JM: will potentially propose this as the standard GA4GH reference/sample name constraint JM: is this the right thing to do? And once we reach a solution where is the proper place to host it? JM: explained what the SAM standard was, and there may be a harmonization process for other work streams, SAM is the only group that has proposed this sort of thing BF: FHIR identifier type, how does that spec align with this? JM: we want to bring all relevant identifier specs together so we can evaluate BF: want to look at FHIR and potentially ISO, make sure we don't allow characters that are invalid there into the GA4GH schema, ie. harmonise a common subset across GA4GH, FHIR, ISO, etc. BF: https://www.hl7.org/fhir/datatypes.html#Identifier	Jeremy, John / 10
5.	GA4GH Registry - can this satisfy #1 and #7 ? - Github Repo - OpenAPI docs JA: is this the same project? JE: looks like the same project, when we talked about this in TASC it sounded like the same idea, this probably a lot of the intended goals JE: there are still questions about how this information gets disseminated, how it's hosted, etc. wherever it ends up living we can provide directions JA: what is next step? One-pager on how to use/contribute to registry? JE: who enforces governance on the registry itself? TASC? Tech team?	Jeremy / 10
	New Issues Review -	
	Other Issues Review	
	A.O.B.	

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2020-11-09: Service Info Registry, CI at GA4GH

Chair: Mamana / Melissa / Rishi
Attendees “Name (Affiliation)”:

	Actions Arising	Assigned To	Deadline
1			
2			

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	
2.	Previous Actions Review	All / 15

3.	Service-info
	- Alphabetise the service-info registry entries [trivial editorial] PR#26
	- Proposed additions:
	  - retrospective TES API service-info entry PR#21
	  - add ga4gh-search specification to service info type register PR#23
		Mamana / 10

4.	GA4GH Registry #1 / #7 - Github Repo - OpenAPI docs	Jeremy / 10
5.	Namespace Issue#16 (with doc) - GA4GH Namespace Register setup PR#18	Bob / 5
6.	Common object proposal doc. Tidy (for #5 Harmonise Identifiers)	Bob, Jeremy / 5
7.	Future of CI at GA4GH	Jeremy / 10
	A.O.B. - Leadership change: Rishi & Melissa moving on - Other Issues Review	Rishi, Melissa

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	Actions Arising	Assigned To	Deadline
1	Add to guidancing process: Merging of items should be restricted to leadership. Determine quorum. - TASC Governance - MM: Issue: when we are not able to meet quorum at a meeting, we cannot decide on anything - Add acceptable quorum to meet and take decisions - JM: does the 5 members include Leads? - BF: clarify between secretariat and WS leadership - BF: propose 1 secretariat and 4 WS - MM: should we have 5 WS members? - BF: need odd number overall, potentially can strive for better consensus - JM: how do we approve this change? Let's submit this in the mailing list and put a timeline	Mamana	
2	#1 / #7 confirmation that GA4GH Registry addresses these,: Jeremy to present	Jeremy	
3	#3 Improve Website, greater integration with FASP PR for FASP member to TASC (RN) [previous discussion below] JE: xWS + FASP, they are identifying areas for improvement in the APIs, we want to ensure they are making their way back to the Work Streams and that these turn into PRs BF: +1 - if a goal of TASC is to provide an enterprise, cross product perspective, we see FASP product demos as a great way of pulling these things out. We want to ensure long term solutions to integration points, not "duct tape" for quick demos BF: let's get FASP projects on TASC, e.g. a FASP representative on TASC meetings, report backs MM: expanding TASC membership? BF: envision the number of FASP-like projects will increase, unsure if each of those need to come to this meeting. Maybe it's sufficient to do an ad-hoc membership, e.g FASP project report back BF: ad-hoc attendance, when a FASP project is instantiated, we have a TASC liaison JE: +1 JA: should we write a proposal? BF: good to have a process for this, even a small paragraph might suffice	Rishi	

	JA: can start initial document		
4	Styleguide - circulate the product definition guides so the group can decide what product types can have styleguides developed for them ● Not sure if this referred to the "Product Roadmap Taxonomy"... JE: should we prescribe or mandate formats for certain GA4GH standards? Not a mandate, but we can provide a catalogue, recommendations for how to go about developing specifications in certain formats, documentation types JE: this info is floating around GA4GH, we can aggregate it BF: preface this with a short statement about why we are doing this. So that it is received as helpful, rather than an arbitrary rule FF: can we take inspiration from IHE, having a common approach/format to how the standards are written. They are in very different areas, so maybe not directly applicable. Take what is applicable: Integrating Healthcare Enterprise FF: to provide link FF: here there are some links and info: https://www.ihe.net/ Integrating the Healthcare Enterprise (IHE) is an initiative by healthcare professionals and industry to improve the way computer systems in healthcare share information. IHE promotes the coordinated use of established standards such as DICOM and HL7 to address specific clinical needs in support of optimal patient care. IHE is organised in Domains (Radiology, Pharmacy, Cardiology, etc.) and each Domain develops its Technical Frameworks. They define specific implementations of established standards to achieve effective systems integration, facilitate appropriate sharing of medical information and support optimal patient care. They are expanded annually, after a period of public review, and maintained regularly by the IHE Technical Committees. The Technical Frameworks are specific to the Domain, but share the same structure: "The Technical Framework for each domain consists of several volumes: ● Volume 1 provides high-level overviews of each profile, the use cases it addresses, the actors involved, and references to the Transactions and Content Modules used. ● Volume 2 provides detailed technical descriptions of each	James Eddy	

	IHE Transaction. ● Volume 3 provides detailed technical descriptions of each IHE Content Module. ● Volume 4 describes National Extensions to the Technical Framework such as country-195 specific code sets or national patient privacy requirements.”		
5	Comms team - strategic roadmap part of the dynamic list of items site upgrade?		
6	PR for the service-info artifact value		

2020-10-12: Leadership Updates

Chair: Mamana / Melissa / Rishi
Attendees “Name (Affiliation)”: James Eddy, John Marshall, Bob Freimuth, Francesca Frexia

	Actions Arising	Assigned To	Deadline
1	Add to guidancing process: Merging of items should be restricted to leadership. Determine quorum.	Mamana	
2	#1 / #7 confirmation that GA4GH Registry addresses these,: Jeremy to present	Jeremy	
3	#3 Improve Website, greater integration with FASP PR for FASP member to TASC (RN)	Rishi	
4	Styleguide - circulate the product definition guides so the group can decide what product types can have styleguides developed for them ● Not sure if this referred to the “Product Roadmap Taxonomy”...	James Eddy	
5	Comms team - strategic roadmap part of the dynamic list of items site upgrade?		
6	PR for the service-info artifact value		

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	

2.	New Issues Review: - retrospective TES API service-info entry Mamana: Submission to the service registry. This is a submission to have a new entry for the TES API, John noticed a lapse in the process to consider the pull request with the group. It's just to retrospectively look at the issue, it can be reopened. - JM: right thing to have, so don't need to revert RN: Need to determine a quorum form making decisions. Can this be done asynchronously?	Mamana
3.	Other Issues Review #1 - Central Metadata Registry - Now we have the GA4GH Registry in place can we move on this? #2 - Central GA4GH Ticketing - what is the proposed mechanism for this? #3 Cross WS tracking - feels like this is outside TASC scope #6 Styleguide/Best Practices - from the discussion can we close? #7 Standards Information Findable - can we integrate with the GA4GH Strategic Roadmap #13 regexp for service-info - sensible? can a PR be made for this? #17 Protocol version number for service-info - how do we move forwards? #19 old versions of GA4GH standards ● RN:Link between 1 & 7. Bring Jeremy into the discussion for #1. ○ James: It seems that what Jeremy has set up with GA4GH Registry is pretty much done. ● Central GA4GH Ticketing. ○ Rishi: Is it a good idea? Changes how ticketing is done across repos ○ James: Zenhub might provide a solution. Who would be using the ticketing system? Is it for the universe of developers that we have now? ○ MK: Could help tech team, but would need to be low effort for teams ○ RN: Wait to see how things go with the technical team. Can consider ticketing system then. ○ BF: Will inform and depend on enterprise level governance. Might be good to defer until the CSO has laid out a plan ● Cross WS tracking ○ RN: This feels like it should be in the GA4GH central roadmap. ○ BF: Things like FASP, Phenopackets, some driver projects are pulling in different GA4GH entities and using them in different ways. I had been thinking it would be good to capture integrative activities.	Rishi

- MK: Snapshot version will be available from maturity model work
- BF: doing this long term might become an admin burden, but could be valuable
- RN: We have annual attempts to sit with DPs and see how they are doing with standards and capture this. FASP has become the natural home for becoming a cross standards project.
- JE: Cross workstream efforts should be linked from the how we work workstreams page on the website
- BF: FASP, as a cross WS effort, could provide good feedback on TASC decisions. May be a consideration for the future
- MM: Can use the planned TASC site to make people aware of what we're working on. A place where we can list the initiatives we're working on.
- RN: FASP has its page now, The strategic roadmap will capture standards projects, but initiatives that are designed to make things work more smoothly can be presented.
- JE: Provide FASP mechanisms to feed back lessons learned into workstreams
- RN: Maybe a central ticketing board could help here.

- Styleguide/best practices
  - RN: GA4GH has wide ranging standards. Is a style guide/template repo appropriate? But more standardization could be appropriate
  - JE: A flow chart of different templates might be more appropriate. We have rest API definitions, ontologies, and data models
  - RN: Jeremy came up with a product definition template. Maybe a starting point would be to circulate that and use that as a way to determine which we can provide a style guide for?
  - JE: We've started to roll out some for the cloud workstream repos, Jeremy may have for some LSG as well. It helps to have more user friendly docs generated, but does not get into user or developer docs, etc. It's still pretty beta, but is working out well
  - JM: I think there is too much variety to make this something that is enforced, but if people would find it useful, it could be created.
- regexp for service-info
  - RN: Seems sensible.
  - BF: This would represent a decision that would import regex restriction on endpoint names?
  - RN: I think just artifact
  - BF: Why would we need to impose regex here?
  - JM: There was a proposal to have one in kabob case, this would reduce confusion and uniformity
  - RN: To make a PR for this

	• #17 Protocol version number for service-info
	  ○ JM: No action from TASC yet. Can be closed. A request for advice to take back to refget. Action: JM to close
	• #19 old versions of GA4GH standards
	  ○ RN: Will defer to Jeremy to see how it integrates into the service registry. We can also host file snapshots on the website.
	  ○ JM: htsspecs has a number of groups managing things in different ways. My feeling is that it's a useful point, but I'm not sure it's TASC's job to be prescriptive on how these things are made available. Good to remind groups of the issue	

4.	Leadership change: Rishi moving on • RN: Will be handing leadership to Jeremy	Rishi
5.	Previous Actions Review Namespace • BF: Have all had a chance to review? The use of the name spaces has been scoped down considerably since then, which should be considered. ○ JE: I will look at it.	Melissa
6		
	A.O.B.	

	Previous Actions	Assigned To	Deadline
1	Namespace: comments from all and Bob to turn doc into PR (for #16)	Bob	
2	Common object proposal doc. Tidy (for #5 Harmonise Identifiers)	Bob	

2020-08-10: Schema Blocks & Search API / Namespace Issue

Chair: Rishi, Mamana, Melissa
Attendees "Name (Affiliation)": Jeremy Adams (GA4GH), John Marshall, Craig Voisin (Google), James Eddy

	Actions Arising	Assigned To	Deadline
1	Namespace: comments from all and Bob to turn doc into PR	Bob	

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2	Common object proposal doc. Tidy	Bob	

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	
2.	Previous Actions Review	
3.	Namespace Issue#16 (with doc) ● Bob: Draft policy about how entity type prefixes should be used in the doc. There are comments in the margins that are unresolved. Need responses. Would propose archiving off material at bottom half of the doc and publishing everything on top. ● Bob: On page 4, naming conventions, there is a bullet point with a comment and would like some feedback. Are we mapping to a type or defined schema object? See comment for detail. ○ Rishi: I prefer conceptual idea, it makes it less likely across spaces to have something that can be shared across the various schemas. If we make it a defined object then it needs to be precisely the same across multiple schemas, which could be problematic. ○ Jeremy: If we must map to a schema object, it might help with aligning to something like schemablocks. What is someone going to want to be able to do with the identifier? If a system needs to know a rigid definition of an object, that would be needed. ○ Bob: There are interesting downstream effects on the ways that the scheme will interact based on this. ○ Rishi: Are our users computers or humans? Flexibility will help products interact ○ Bob: downstream consequences, we will not be able to use this as a cross product retrieval mechanism. This becomes an identifier as an object schema. If you were to change one of the fields you would have to change versions and it becomes overly burdensome. ○ James: If we were talking about metadata in json doc and we could apply some of the standards, we don't have some of the same mechanism with all of the standards and it does become overly burdensome. ○ Bob: Please all read through the doc and focus on this question ○ Rishi: This should get turned into a PR after we've come up with a proposal. 1-2 week on document comments.	Bob
4.	Schema Blocks & Discovery Search API release	Miro, Mamana

	- Bob, Jeremy, and Mamana work on pilot for 3-component system - update - are there blockers for Discovery Search API for using SBs as components? ● Bob: Common object proposal doc. One proposal is the creation of common data types across GA4GH projects as use cases. Can expand into data types beyond primitives if there is a positive response to the document. ○ Rishi: The search group is working under the assumption that they can't define what every group is going to do with defining components so they will be flexible and will be driven by external factors such as what is used by the driver projects. Would be good to discuss this with Miro to ensure that it would align with the Search API. ○ Bob: The data types listed here are for information exchange. There is no mandate for how information is stored. We want to make sure that information does not conflict and allows for a common look and feel across our standards which allows projects using our standards to not need different technology to implement our various specs . Should also improve interoperability externally. Particularly helps when working in the clinical space. When we do cross organizational transformation of data, the goal here will help us harmonize with internationally accepted standards at the object level, it will make it simpler. ○ Rishi: This makes sense. ○ John: Why does this proposal go into this level of detail? Why not one page rec of how to create data types and refer externally? ○ Bob: the expansion of this doc is to help the developer of a GA4GH spec to find all they need here without rereading. We can add an executive summary at the top that includes what you are suggesting. ○ John: There is a mixture of concepts and representations in this doc. ○ Bob: We would need to clean that up in the document.	
5.	New Issues Review - GitHub integrations and security concerns (#20) Should tasc be working on this? ● John: Seems more a secretariat issue. Cna make list of GA4GH repos and who all of the maintainers are and TASC might be involved. ○ Rishi: agree. Might be good to consult DSWS. Probably not a TASC issue ○ Melissa: Sent a request to the Security leads for their expert opinion.	Bob

6	Other Issues Review	
	A.O.B.	

	Actions Arising	Assigned To	Deadline
1	Update product approval process documents to include maintaining historical versions: ● Rishi: made suggestions to product approval doc and to product description document. Section on previous version availability was added. ○ Jeremy: makes it explicit that teams will keep the old versions available. Included examples of the ways that some teams are doing this. ● From James Eddy to Everyone: 04:11 PM ● i can't comment in the product approval doc, but might be worth adding a note re: previous versions about archival (e.g. in zenodo) ● ● ● John: SAM is not doing this at the moment. Legacy info is included in update documentation. We should allow this solution ○ Jeremy: This should be allowed. I can broaden the language to include this ○	Rishi & Jeremy	
2			

Minutes:

2020-07-13: Namespace, Documentation

Chair: Rishi Nag, Mamana Mbiyavanga, Melissa Konopko
Attendees "Name (Affiliation)": Bob Freimuth, Lindsay Smith, James Eddy, John Marshall, Craig Voisin, Jeremy Adams

	Actions Arising	Assigned To	Deadline

1	Update product approval process documents to include maintaining historical versions	Rishi & Jeremy	
2			

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	Mamana / 5
2.	Previous Actions Review	All / 15
3.	Namespace Issue#16 (with doc)	Bob / 20
4.	New issues Ensure old versions of GA4GH standards are permanently available https://github.com/ga4gh/TASC/issues/19,	Jeremy / 5
5.	OpenAPI3 to HTML documentation generator update (Issue#12) ● Repo: https://github.com/ga4gh/gh-openapi-docs ● Example: http://ga4gh.github.io/workflow-execution-service-schemas/preview/reorganize-spec-content/docs/	James Eddy / 10
	A.O.B.	5

	Previous Actions	Assigned To	Deadline
1	Bob, Jeremy, and John to work on proposal for namespacing	in main agenda	
2	Bob, Jeremy, and Mamana to work on pilot for 3-component system		

Minutes:
Bob: Pilot for Common Objects. Feedback Welcome

Namespace Issue#16: 3 sections to doc. 1) entity type prefixes, how they are defined, main components and TACS's rec for how to name and construct them. 2) Governance ideas from last call. 3) Notes/working content. Will probably be pulled out at publication and archived. Please make edits using the track changes feature. We will work through this more before our next meeting and will provide feedback before then. Action: look at this and respond

Jeremy: Ensure old versions of GA4GH standards are permanently available
https://github.com/ga4gh/TASC/issues/19

- Should we keep history of spec versions across all GA4GH standards for orgs that are

using old versions? Is this a goal of GA4GH?

- In service info response there is a type param includes version number. Version should be meaningful for that specific API type. If the old version is gone then this loses its meaning.
- John: deployed versions should remain available and I think most groups would take that on board. TASC shouldn't say how and leave that to working groups.
    - Jeremy: Yes, should ask teams to have a plan in place to make sure older versions are available
    - Rishi: What we could do is update the product approval process to ask how they plan to make sure previous versions are available.
- Bob: Are we talking about documentation, software or functioning API?
    - Jeremy: The documentation that is enough to implement the spec. It helps people understand what that version means.
    - Bob: Isn't this the case in github in version history?
    - Jeremy: Yes, but thinking something that is more human readable.
    - Bob: Sounds trivial to implement and sounds like standard practice. If we're planning to release software that stands the test of time, we should have that kind of functionality available for at least for major and minor releases, not sure about patch.
    - Jeremy: Yes, just whatever the latest patch
    - James: For major and minors, this seems like a basic requirement.
- Rishi: DUO uses an ontology versioning system that is by date.
- Jeremy: We can't be sure that every group already understands that. Should we make this documented within TASC as points to remember within your new version
    - Rishi: Can include within product approval documents and be done in a per standards basis.
- Bob: Can be added to the wishlist for the new tech developers to help oversee and ensure this is done consistently across work streams
- Action: Rishi and Jeremy to start an update to the product approval doc

James: OpenAPI3 to HTML documentation generator update (Issue#12)

- Repo: https://github.com/ga4gh/gh-openapi-docs
- Example: http://ga4gh.github.io/workflow-execution-service-schemas/preview/reorganize-spec-content/docs/
- James spoke through the spec updates. Trying to roll this out for Cloud WS. Has some specific requirements based on branch management and release, but this should be pretty generic. It is tailored to GA4GH approaches, but can be used broader. This does not need to be prescriptive, but it can be used in WSs that want to use this.
- Jeremy: How might this be adapted for other workstreams? If htsget/refget wanted to use this, they are in the same github repo. Is this tool designed for a one spec/repo structure or can be adapted for this?
    - James: I don't think it would be that challenging. It is already designed to point to

multiple specs. If you're working under a feature branch, it will create a preview path. It should be addressable.

- James: Created an initial implementation guide. We'll identify issues as we go. We should have a hackathon with all repo maintainers to get this implemented.
- Rishi: Outside of cloud, does this fill people's repo needs?
    - Jeremy: this is open api centric. This can apply to those.
    - James: Should also use swagger. I know some groups have already built some nice documentation in readthedocs. I assume there will be some graphql, this won't work with, but anything that is REST-like should be good for.

2020-06-08: Versioning/Expedited Review

Chair: Melissa, Mamana
Attendees "Name (Affiliation)": John Marshall, Craig Voisin (Google/DURI), Jeremy Adams (GA4GH), Marc Fiume (DNAStack/Discovery), Francesca Frexia(ClinPheno), Bob Freimuth (Mayo/GKS), David B (Broad/Security)

	Actions Arising	Assigned To	Deadline
1	Bob, Jeremy, and John to work on proposal for namespacing		
2	Bob, Jeremy, and Mamana to work on pilot for 3-component system		

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	5
2.	Previous Actions Review	15
3.	Specification Versioning for Service Info update (see TASC issue #17) or Expedited Review for refget	John, Rishi / 15
4.	Next steps for SB-like team	Bob/15
	A.O.B.	5

	Previous Actions	Assigned To	Deadline

1	Pilot - identify governance candidate entity - Bob to list initial GoogleDoc and share link in github	Bob	next call
2	CURIE/Phenopackets use case added to the issue - for a Reference Sequence Names	John/ClinPheno reps	
3	PR similar to Service Info for the central namespace register - PR#18 raised CRITICAL	Rishi	

Minutes:

…
Bob: The prefixes really should represent the entities that are project independent rather than the org structure because those can change over time

- Jeremy: Not having these associated with a workstream …

Craig: For namespacing of values, I have a case where I have namespaced the name type itself. In passports, there is a claim that gets added to a token, to make sure it doesn't collide with other things, it has a prefix of ga4gh_, should I give it a sub namespace? But it's not the data itself that is being namespaced, it's the name of the field and should be irrelevant to any other GA4GH standard, is this okay to be done?

- Bob: you're talking about pre-coordinating different types of information into the field. ISO complex data types have been identified in FHIR, we don't have that structure within GA4GH, if we want to be CURIE compliant, we're faced with appending with some sort of custom delimiter within our spec so "ga4gh:type."
- Craig: I think we want to keep some things outside of this rec. I don't think it's a goal that a claim name in a token is curie compatible, in this we need to follow other rules as well. There will be things that look and act like a namespace, but are actually something different.

John: In some sense, it's easier if each product gets a different prefix, but it makes it more difficult to share when we are trying to share things that are actually the same. Need to focus on general applicability. Maybe it's not a big problem to have different identifiers for the same thing

- Bob: anytime we have a need to crosswalk between different identifier systems, it adds a burden

Bob: TASC needs to own this regardless how we intend to proceed. It should be handled at the org level. I have 4 recs in there. We need a way of identifying and registering these internally to avoid collisions. Step 1: get a couple of volunteers to put a short proposal together of things that we could consider as a next step to formalize this and bring back to the group for consideration

- Bob, Jeremy, and John to work on ½ pager

John: Issue #5 Ref sequences names and sample IDs: Reference Sequence Names

- One of the motivations for raising this issue was sample identifiers, so biosamples ID field in phenopackets. Added a comment today re: json code in phenopackets. Same as VCF's concept of a sample?
    - Francesca: noted for phenopackets

Bob: Next steps on SB

- Document of agreement for harmonized plan
- Ideas from last discussion: we agreed on (potentially) SB team is looking for a green light to continue development and build out functionality of SB system. End of doc is the (half baked) harmonized plan).
- SB focuses on tooling and container itself and user interface that holds data elements defined by GA4GH.
- 3 component part uses SB as 1 of 3 parts. Adds 1) content that goes in the repo that goes through an established process, developing the data types intentionally. Through our translational space can be used outside GA4GH. 2) Governance process that establishes guardrail around how datatypes are used within the org.
- Next steps: proposed a pilot project to look at what the core data types might look like and render it within the SB system to see how it might all work. Establish a small group to do this.
    - Bob, Jeremy, Mamana to be involved in next steps. Possibly Miro?
- Jeremy: How much do you see this hybrid proposal overlap with namespace registry. Is there an ability to have these objects registered in SB?
    - Bob: I think they are separate. Previous discussion was about defining prefixes and having them registered, like identifying a code. Here we want to create common structure. Identifier, integer, url, etc.
- Bob: ISO has a number of data type specs that have been established. Json and java definitions for integer/string/uri are based on ISO. These are used in FHIR and constrained
- John: lightweight proposal: maybe we just need a list of concepts within GA4GH?
    - Bob: That's the type of alternative that I think the pilot can explore.

John: Issue 17: https://github.com/ga4gh/TASC/issues/17

- Any advice is semantic versioning would allow us to call this up to 1.2
- Bob: Is this about replacing an existing API with a new one or defining a new API that could live in parallel with the original.
    - JOhn: Implementation question. Asking for info about the service. Nature of the json that you get back has changed. If the request had ???
    - Craig: try to avoid a breaking change. You can make sure that you return both old and new response. If the caller is requesting one version, they get that response, and the other version, that get that response.
    - Bob: +1 and say if the requested return format is not specified, it defaults to the original version. In the future as you progress, if at some point you want to update, you can.

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2020-05-11: Namespace, Identifier rules, and SchemaBlocks

Chair: Mamana, Rishi,
Attendees “Name (Affiliation)”: John Marshall, Isuru, Craig Voisin, Jeremy Adams, Stephanie Li, Ashley Hobb, James Eddy, Bob Freimuth, Melanie Cortout

	Actions Arising	Assigned To	Deadline
1	Pilot - identify governance candidate entity - Bob to list initial GoogleDoc and share link in github	Bob	next call
2	CURIE/Phenopackets use case added to the issue - for a Reference Sequence Names	John/ClinPheno reps	
3	PR similar to Service Info for the central namespace register	Rishi	

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	
2.	Next steps Harmonise Identifier Rules Across Formats issue on github	John/10
3.	GA4GH Namespace Policy Issue	Bob,Alex/20
4.	SchemaBlocks models	Melanie, Michael, Bob/20
	A.O.B. - Specification Versioning for Service Info update (see TASC issue #17) or Expedited Review for refget (John)	/10

Minutes:
Next steps Harmonise Identifier Rules Across Formats issue on github - John Marshall

https://github.com/ga4gh/TASC/issues/5

Looking at instead of overarching - what is an identifier?
Reference Sequence Names would be a starting point.

Do other working groups (besides LSG with SAM & VCF) have any similar restrictions on their equivalents of reference sequence names?

JE: Cloud - in DRS API space, but domain specific APIs would take precedence
CV added a comment about how it was not relevant for DURI
MC: We set up a Perl based URI scheme. CNAME setup with perl.org which will have a specific prefix like DUO that can help direct things to the right place
JM: We are looking for a different thing than stuff that uses URI's and URL's
CV: Maybe in a future state where a DUO code is embedded in VCF, this has **:** in it
JM: This sounds fine, VCF can defer to your spec to explain what a value that's an embedded DUO code means

RN: Phenopackets was the identifier of an issue - they had an open field for this that LSG reps wanted clarification Sounded like this can be go forward with
MB: CURIE identifier might be the scope for this
AI: CURIE/Phenopackets use case added to the issue

Should this definition of RNAME identifier be promoted as the GA4GH portable reference sequence name?

JM: What is the mechanism? Should it be included by reference or in some like schema blocks
RN: So if we define something in Schema Blocks, how is it broght in? By reference?

MB: In principle we have the schema that are rendered into JSON schemas. In principle this can be referenced when a canonical version. In place, but not challenged by inclusion be reference. This would need the governance process in place.
JM: This is an even smaller item than a schema. We can agree with a format. Think we can take this one offline

SchemaBlocks Models

MC: Keeping Syntax and Semantics separate is the difference, we have everything in one space - schema and examples.
MB: Tech and documents being separate are partly limited by the technology

BF: I think there were some updates. If GA4GH is truly going to harmonise, needs to be repository + governance + process. We need to take an approach about how that process works. Assists developers. So I would like TASC to consider how we move forward with all three of these.
MB: For development process we envisaged PRC would pick up on alignment. This has not been formalised. TASC ecosystem can try and help settle on one representation.

BF: Pilot needed to assess what the process. Shouldn't have to reinvent schema blocks.

MC: Maybe need to identify a small use case. Phenopackets, Passports...try and bring through the process would help inform
AI: Added for Bob - use shared document. Ongoing reach to MC, MB if needed

GA4GH Namespace Policy Issue Bob Friemuth

Stems from GKS. Alex Wagner has outlined this at the top of the issue.
Background
VRS was going through approval process, had raised an issue for creation of namespaces for CURIE identifiers. One issue was the creation of a GA4GH namespace under which CURIEs could live. VR group has been generating namespace under a GA4GH namespace. Allows products created to come across as enterprise wide. Within products objects need to be identified that may be product specific, e.g. VR has a computed identifier, relying on a hash. Each identifier object created is given a prefix which is used within the CURIE structure.
Question is - How do we know how to develop those prefixes?
Can VR group do what it wants, or does TASC predetermine with certain object types?
I added some comments on some issues (more recent one).

RF: Firstly, should TASC have a role in this? I think it should to prevent clashes, promote harmonisation. Prevents separation.
MC: We typically need to get a namespace identifier quickly in development otherwise you get stuck, but it may not actually end up in the product.
RF: Yes, we don't want to block how things are going on. This is for a point release of specifications. Need stability to these.

CV: This and previous discussion shows that if I need something new how do I co-ordinate with other groups to find out if they overlap?
RF: #3 in last comment I outline a process - a straw man
Establish governance process for approval of prefixes.

- Should prefixes be approved by a project team, sponsoring work space, TASC, and/or Steering Committee?
- Should prefixes be assigned on a “first come, first served” basis, or chosen in an open process that includes potential future users of the prefix?

RN: Echoes Service Info arrangement? A central list with PR approval. AI to create PR with similar space, but also add circulation time to other groups as likely to be less specialised.

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2020-04-20: SchemaBlocks

Chair: Mamana, Rishi, Melissa
Attendees “Name (Affiliation)”: Michael B, Isuru, Jeremy Adams, Lindsay Smith, John Marshall. Bob Freimuth, Francesca F, Craig Voisin (Google), Miro C, James Eddy, Melanie Courtot, Stephanie Li, Ashley Hobb, Francesca Frexia (CRS4)

	Actions Arising	Assigned To	Deadline
1			
2			

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	
2.	Approve the Guidance for TASC Submission	Melissa/10
3.	Introduce the Harmonise Identifier Rules Across Formats issue on github	John/10
4.	Open the SchemaBlocks discussion. ● Presentation from the schemablocks team ● Presentation from an alternative viewpoint ● Managed debate session to come to a conclusion on the direction in which we would like to move.	Rishi Michael B Bob F Melissa
5.		
	A.O.B.	

Minutes:
Melissa: Guidance for TASC Submission

- Minor adjustments made, including removal of status tags. General agreement. Need to discuss Michael’s comment for a future amendment.

John: Harmonise Identifier Rules Across Formats issue on github

John's presentation on several examples of identifiers
Note that for the purposes of this issue we don't mean anything special by the term "identifiers". It's focussing on specific items of metadata individually — reference sequence names, sample names, others to be determined — and just referring to this group of particular items collectively as "identifiers".

For example, reference sequence names appear in various places in SAM files, VCF files, in htsget request URLs, and on command lines:

```
@SQ   SN:foo   LN:500
@SQ   SN:bar   LN:800
r1   9   foo   100   0   4M   *       0     0   ATGC   abcd   SA:Z:bar,50,-,4M,0,0;
r2   1   foo   200   0   4M   bar   700     0   TTAT   aaaa   CC:Z:bar
r3   3   foo   300   0   4M   =     500   204   GGCC   aabb   OA:Z:bar,295,+,4M,0,;

##contig=<ID=foo,length=500>
foo   100   .   A   T   .   PASS   AD=1:AA=A

GET /reads/NA12878?referenceName=foo&start=100&end=500

$ samtools view NA12878.bam foo:100-500
```

SAM is an existing format that has been in heavy use for a decade, and it has no mechanism for escaping metacharacters in most fields. As you see above, sequence names are delimited by tabs and commas in SAM files, and * and = have special meanings. There has always been a regular expression giving rules for characters that might appear in these SAM fields, and we wanted to tighten it up (e.g., comma was not previously disallowed). So we collected detailed statistics about extant punctuation characters in large corpuses from the big BAM archives (see hts-specs PR #333) and tightened the rule to

```
[0-9A-Za-z!#$%&+./:;?@^_|~-][0-9A-Za-z!#$%&*+./:;=?@^_|~-]*
```

Hence: ASCII; No whitespace; No commas; No backslashes; No quotation marks " ` '; No brackets ( ) [ ] { } < >; Must not start with * or =

This same rule has now been applied to VCF Contig IDs too (see hts-specs PR #379). (VCF has always forbidden [ ] < > and initial = in Contig IDs.)

These rules are **specific** and **practical**. The intention is to be specific about what formats can expect from these values so they can be expressed without excess delimiters or escape mechanisms.

Also note for example that colons are not forbidden (as HLA alleles use colons in reference sequence names), but familiar command line syntax uses a colon as a delimiter. See SAMv1.pdf Appendix A for a parsing algorithm recommendation we added at the same time as re-evaluating the rules.

Similar analysis needed for sample names, but (to my knowledge) has not yet been done.

Questions for TASC

- Do other working groups have any similar restrictions on their equivalents of reference sequence names? ⇒ Would want to harmonise to the lowest common denominator
- Should this definition of RNAME identifier be promoted as the GA4GH portable reference sequence name?
    - Incorporate this regexp or equivalent into other GA4GH standards
    - Add references in other GA4GH standards to some pan-GA4GH location describing this pan-GA4GH standard RNAME building block
    - Or simply note in other GA4GH standards that “SAM has rules restricting the characters used in RNAMEs — see the SAM specification for details”
- Similar **specific** and **practical** rules for other categories of identifiers

Discussion afterwards:

- Craig: in passports, we have specific identifiers like email, etc, I can almost encode those based on rules I saw. How broad of a scope does this fit?
    - John: Specific chars in urls, I envisage different roles for different kinds of data. Urls are slightly different categories. Urls are references.
- Bob: we (GKS) have identifiers in use across our systems. The scheme that’s being proposed, we should try to clarify if this is intended for use on business or logical identifiers. A persistent ID or used for internal use as a primary key. Restrictions on the latter would be difficult to implement. In many cases, strings are used as identifiers even when they should be. We should be careful about putting restrictions on strings that may be in use by another system.
    - John: CHR1 that appears in people’s papers/data. Persistent well known things that people interact with. For the second issue, there are interesting issues, but can be discussed in detail later

SchemaBlocks Discussion

- Michael: Info link Slides
- Bob: Slides
    - Questions and comments entered here.

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2020-03-09: Service Info Registry

Chair: Mamana, Rishi, Melissa
Attendees “Name (Affiliation)”: Miro Cupak, James Eddy, John Marshall, Lindsay Smith, Jeremy Adams, Ashley Hobb, Craig Voisin, Marc Fiume, Bob Freimuth, Susheel Varma, Francesca Frexia

	Actions Arising	Assigned To	Deadline
1	Service info register: make changes with removing versions and the criteria for the names	Rishi	
2	Create guidance doc on how to submit a proposal to tasc	Leads	

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	
2.	Service Info Type Register Issue #4 and PRs (process, initial values)	Rishi
3.	Previous Actions Review	Mamana
4.	Heidelberg Non-Meeting Plans / re-schedule of next call (Easter Monday)	Melissa
5.	Remaining issues	All
	A.O.B.	

Minutes:

Rishi: Discuss Service Info Type Register Issue #4 and PRs (process, initial values)

Service info was approved but at the SC meeting, there was an idea to have a central register of the service info names that we have within GA4GH. Jeremy started with a PR on trying to suggest some values. The first step would be to confirm for format. The issues are: process by which things are added to the list, should be part of the runup to the product approval process? Second issue: what do we want to store? Group, artifact, version?

- Craig: Several questions. What is our role in TASC to be able to do this, specifically as a reviewer, is it my role to research other alternatives or to review the work that others have put together?
    - Rishi: we’re trying to have a narrow focus, but if we feel a proposal is not sufficient, then additional research can be suggested.

- Craig: As a reviewer here, I don't feel like I have enough information here to make a review here. I need more background research. They should offer more pros and cons.
    - Susheel: Define how the TASC Team should receive an issue/PR for review. How to triage and then how decision will be taken
- Craig: If I'm offering a service and I'm offering two versions and return 2 diff objects that refer to the same namespaced type, I could register them in a different way at a high level. Want to know more at the API level. How should the payload look?
- Rishi: In terms of what the SC idea was, they wanted to clarify the register of the type field to make sure there was a central list to make sure there weren't two groups with the same name for their identifier. The scope of this is a text file list (for example) that goes forward in a TSB or JSON format to pass this data in a useful way. Want to avoid scope creep.
- John: The individual values are coming from various protocols. Not being made clear in the issues and PRs. Our task here, though is to enumerate a list to prevent collisions and deal with mixed capitalization in RNAseq, for example.
- Rishi: Add stipulations on this artifact value, the artifact should always be lower case, perhaps with hyphens.
- Craig: Patches could change a lot. Should we register every patch? What is the purpose of the version in here?
- Rishi: Version does go above and beyond the ask. Putting the version in does cause problems and syncing issues. Happy to remove version field.
    - James: agree. Sounds like we're not building a service registry, but establishing a controlled vocab for artifact values.
    - Jeremy: Merit to keeping major and minor version with no patch values? Minor version might be important by a new API route that is exposed.
    - James: I think it's valuable, might just be out of scope
    - James: If we enable it here, we'll be allowing artifact values to change between versions
    - Craig: Valuable, just not part of this registry
    - Rishi: Happy to remove versions from this list.
- Rishi: Need guidance on what the artifact name should be. Should we have all lower case, hyphenated or underscored as a limitation?
    - John: It looks like RNAseq capitalization from RNAseq
    - Jeremy: lower or kebab case might eliminate ambiguity
    - Rishi: Kebab case looks like the way to go. I'll make changes with removing versions and the criteria for the names.
- Rishi: other PR, match values as above. Keep org as .ga4gh

Mamana: Actions from the last meeting:

- Set up project boards

- Craig: helpful, but are we part of the “analysis” side? Need to ensure that it’s in our remit, that the proposal contains needed information.
- Rishi: rename to “assessment”. We can go back to submitting team to ask for more info.
- Bob: The activities that occur under each heading need to be clarified. Are we missing a column for refinement of issue. Issue would come in, then the next step is refinement and gathers relevant information, write a discrete ask for the task, then there would be an internal peer review
- Craig: new column should be “ready for review”
- Rishi: review by TASC leadership for refinement
- Craig: document the process is so we’re not all trying to dig through the material, write a scope statement, include background research, include a checklist for submitters.
- Mamana: will link the doc from the TASC main page.

Mamana: Come up with criteria that differentiate between a TASC and WS product. A WS product:

- will be a specification
- is intended for outside use
- is something that would need to go through the product approval process

- John: we’ll know it when we see it. Harmonization across protocols is our main goal.
- Rishi: We can add a mission statement to TASC

John: 1 hour once/month might not be enough. Issue #5 is about harmonization

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2020-01-29: Opening Meeting

Chairs: Mamana, Rishi, Melissa
Attendees “Name (Affiliation)”: Marc Fiume (DNAstack), Miro Cupak, Natasha Singh (CHOP, Kids First DRC), John Marshall (University of Glasgow), Jeremy Adams (GA4GH), Bob Freimuth (Mayo), Lindsay Smith (GA4GH), Craig Voisin (Google), Ashley Hobb (GA4GH), Susheel Varma (HDRUK), James Eddy (Sage Bionetworks), David Bernick (Broad)

	Actions Arising	Assigned To	Deadline

	Agenda Item	Speaker	Time
1.	Welcome!	Chairs	10
2.	Scope: What TASC is and is not	Rishi & Melissa	15
3	Governance: suggested changes?	Chairs, all	30
4	AOB		5

Minutes:

Intros

2020-MM-DD: Template

Chair:
Attendees “Name (Affiliation)”:

	Actions Arising	Assigned To	Deadline
1			
2			

	Agenda Item	Person/Time
1.	Welcome & Confirm Agenda	
2.	Previous Actions Review	
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	Other Issues Review	

Global Alliance for Genomics & Health

	A.O.B.	

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2021-08-09: TASC meeting
2021-07-12: TASC meeting
2021-06-14: TASC meeting
2021-05-10: First TASC meeting with CSO
2021-04-12: TASC: Level set on data modeling
2020-02-08: TASC Meeting
2021-01-11: Service Info / Identifier Rules / Registry
2020-11-09: Service Info Registry, CI at GA4GH
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2025 Meeting Schedule

Global Alliance for Genomics & Health

2025 Meeting Schedule

Date	BST/GMT	ET	PT	SAST	AET	Notes
24-Jun-25	1:00 pm	8:00 am	5:00 am	2:00 pm	10:00 pm	
~~**22-Jul-25**~~	~~9:00 pm~~	~~4:00 pm~~	~~1:00 pm~~	~~10:00 pm~~	~~6:00 am (23-Jul)~~	**Cancelled due to an in-house TASC meeting at EBI**
26-Aug-25	1:00 pm	8:00 am	5:00 am	2:00 pm	10:00 pm	
23-Sep-25	9:00 pm	4:00 pm	1:00 pm	10:00 pm	6:00 am (24-Sep)	
28-Oct-25	1:00 pm	9:00 am	6:00 am	3:00 pm	12:00 am (29-Oct)	
25-Nov-25	9:00 pm	4:00 pm	1:00 pm	11:00 pm	8:00 am (26-Nov)	
~~**16-Dec-25**~~	~~1:00 pm~~	~~8:00 am~~	~~5:00 am~~	~~3:00 pm~~	~~12:00 am (17-Dec)~~	**Cancelled** State Diagram sub-meeting was held in lieu of the TASC meeting

2026 TASC Meeting Schedule						
Date	**GMT/BST**	**ET**	**PT**	**SAST**	**AET**	**Notes**
~~**27-Jan-26**~~ **20-Jan-26**	9:00 PM	4:00 PM	1:00 PM	11:00 PM	8:00 AM (21-Jan)	Moved to 3rd Tuesday due to MFW
24-Feb-26	1:00 PM	8:00 AM	5:00 AM	3:00 PM	12:00 AM (25-Feb)	
24-Mar-26	9:00 PM	5:00 PM	2:00 PM	11:00 PM	8:00 AM (25-Mar)	
28-Apr-26	1:00 PM	8:00 AM	5:00 AM	2:00 PM	10:00 PM	
26-May-26	9:00 PM	4:00 PM	1:00 PM	10:00 PM	6:00 AM (27-May)	
23-Jun-26	1:00 PM	8:00 AM	5:00 AM	2:00 PM	10:00 PM	

28-Jul-26	9:00 PM	4:00 PM	1:00 PM	10:00 PM	6:00 AM (29-July)	
25-Aug-26	1:00 PM	8:00 AM	5:00 AM	2:00 PM	10:00 PM	
22-Sep-26	9:00 PM	4:00 PM	1:00 PM	10:00 PM	6:00 AM (23-Sep)	
27-Oct-26	1:00 PM	9:00 AM	6:00 AM	3:00 PM	12:00 AM (28-Oct)	
24-Nov-26	9:00 PM	4:00 PM	1:00 PM	11:00 PM	8:00 AM (25-Nov)	
15-Dec-26	1:00 PM	8:00 AM	5:00 AM	3:00 PM	12:00 AM (16-Dec)	Scheduled on 3rd Tuesday due to the holidays