

2024 Cloud WS Roadmap

This document describes the high-level 2024 goals for the [GA4GH Cloud Work Stream](#). Much more details can be found on the [work stream wiki](#) as well as the individual GitHub repositories for each standard below (which are linked to from our wiki).

General Cloud Work Stream Priorities & Goals	1
DRS Goals	2
Releases and Features:	2
TRS Goals	3
Releases and Features:	3
WES Goals	3
Releases and Features:	3
TES Goals	3
Releases and Features:	3

General Cloud Work Stream Priorities & Goals

- **Touch base with Driver Projects/Implementers.** *Solicit cloud platforms/implementers feedback and specifically reach out to get outside-US adoption/feedback.*
 - → goal is to have at least 6 Driver/Implementer guest presentations in the cloud work stream
- **Collaborate with Security** *including how to downscope tokens/passports for use with Cloud APIs.*
 - → goal is to participate in at least 1 co-work stream focus session to provide feedback
- **Collaborate with Discovery**
 - → goal is to participate in at least 1 co-work stream focus session to provide feedback
- **Look for opportunities to participate in training events,** *collaborations, GIF projects and other community building opportunities.*
 - → goal is to have one or more cloud work stream members participate in an event leading to the training of users on cloud work stream APIs and/or use of the GA4GH Starter Kit

DRS Goals

Releases and Features:

- Accomplished in 2023
 - DRS 1.3
 - ☒ Released on 1/23/2023
 - DRS 1.4
 - ☒ [deprecating bundles \(documentation changes only\) #389](#)
 - Champion → David G?
 - ☒ [Feature/issue 343 metadata endpoint #390](#)
 - Champion → Michael L.
 - ☒ [Feature/issue 334 drs bulk requests #365](#)
 - Champion → Brian O (but help requested)
 - ☒ Released on 20231023
- In 2024: **DRS 1.5** → The goal is to release in time for Plenary in Sept 2024. The following are the major features we're targeting for 1.5:
 - **Cold storage support** in DRS 1.5
 - Phase 1 - Issue/Feature branch for how to show an object is “accessible/not accessible” or “cold/hot”. In the Access mechanism listing → **feature champion Surya S.**
 - **Issue #395**
 - Phase 2 - Issue/Feature branch for how to trigger thawing via access mechanism, keep informed of the status (maybe callback) → **feature champion TBD**
 - **Stats endpoint PR/ Issue #396 → Feature Champion: Michael L.**
 - Linking to the GA4GH registry as well for discovery purposes
 - We need to think about key metrics for inclusion, for example egress metrics, data footprint, participant counts, etc. Work with Driver Projects on this.
 - **DRS + Data Connect recommendations/best practices → Feature Champion: Michael L.**
 - Related, associating key metadata with a DRS object
 - How to link to other discovery APIs such as Data Connect
 - **Publication for DRS Issue Issue #398 → Feature Champion: Brian O.** with participation by Cloud WS
 - Goal is a draft for Connect
 - **As capacity and feature champions pull additional ideas** from our from our [priorities board](#), the top 4 are:
 - Update GA4GH starter kit to 1.5

- Update DRS client to 1.5
- Improve consistency across our implementations, testing/validation of production DRS services
- Requester pays support in DRS
- *See board for more ideas... We need champions to make issues/PRs in order to move more ideas forward.*

TRS Goals

Releases and Features:

- 2.0.1 implemented in dockstore.org
- Support clients and servers implementing TRS 2.0 and above
- Collecting feedback for potential future versions

WES Goals

Releases and Features:

- **Drafting 1.2:** adding filtering and other quality of life improvements
- Research and Draft 2.0: Engage implementers/stakeholders, Standardizing inputs /outputs, deeper integration with GA4GH APIs, conformance tests, Authentication
- Co-development opportunity between WES, TES, and TRS

TES Goals

Releases and Features:

- Develop conformance tests for 1.1
- **Drafting 1.2:** Authentication, callback URLs, HTTP code mapping