

**PRIME Data Hub**

**Receiver Integration Guide**

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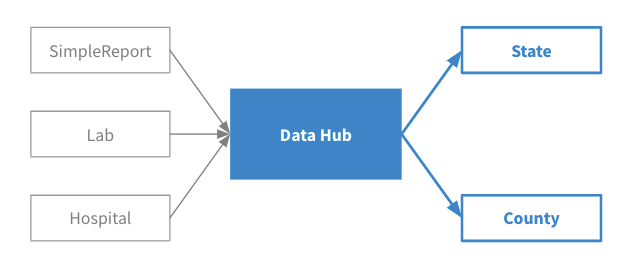
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# Prime Data Hub Background

## Overview

The PRIME Data Hub is a free data platform that makes it easier for public health data to be more easily transferred between senders and public health departments. The short term focus is to make it easier for local public health departments to receive complete, well-structured Covid-19 electronic test result (ELR) data.



## Benefits

* Receive data from SimpleReport
  + If your jurisdiction is interested in receiving point-of-care tests from the [SimpleReport](https://simplereport.cdc.gov/) app, you’ll need to build an integration with Data Hub to receive this data.
* Support fewer connections
  + Data Hub’s model focuses on aggregating data from multiple sources and translating it into a single feed.
* Get complete, timely data
  + Data Hub validates data from its senders, and transfers it to you at your preferred frequency.

# Integration Overview

Connecting with the Data Hub is very similar to setting up an ELR feed with a lab or hospital.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Kickoff and Requirements Gathering** | **Building Connection** | **Testing and Rollout** |
| Milestones | - **Public Health Department (PHD)** confirms set up details, such as data schema, transport mechanism, via our registration form  - **Public Health Department (PHD)** shares relevant forms, such as sample integration guides and data use forms  - **Data Hub and PHD** meet to jointly confirm integration details | - **PHD** generates and shares credentials  - If connecting via Redox, no other action is required  **-** Else, **Data Hub** will build data mappings | **- Data Hub** sends test files for confirmation  - **Data Hub and PHD** set up new facility process  - **PHD** receives production data from first sender |
| Time | 1 day -1 week | 0 days - 1 week | 1-2 weeks |

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# Integration Next Steps and Checklist

In order to move forward with integration, there are a series of steps that you will need to take. Any documentation that needs to be exchanged, can be sent to us at [USDS@cdc.gov](mailto:USDS@cdc.gov).

|  |  |  |
| --- | --- | --- |
| **Area** | **Details** | **Your Next steps** |
| Data Schema | Data Hub collects all of [HHS’s required fields](https://www.hhs.gov/sites/default/files/covid-19-laboratory-data-reporting-guidance.pdf), as well optional fields related to case follow up.  We send this via CSV or HL7. | * If you are integrated with Redox, we are already mapped to you   OR   * Share a mapping guide and sample file (flat file, HL7) and we can map to our data schema. |
| DataTransport | Data Hub supports SFTP and VPN connections  We can send the data real time or in a batched format. | * (If required) Create a set of login credentials for the Data Hub project team * Confirm your preference around when you want to receive data (realtime, batched) |
| New Organization/Site Set Up | The Data Hub will be submitting data on behalf of multiple organizations collecting covid data (eg. long-term care facilities, schools, etc.). The feed of data we send will be an aggregate from multiple senders, but we will be able to provide unique identifiers for each organization/site. | * Confirm this aggregation relations,   + Provide details if any particular issues have come up in the past * Confirm the Data Hub [new facility registration process](#yrjsh6cif0fj)   + Provide any unique fields you require for each organization/site |
| Local jurisdictions | Data Hub has the ability to send data to state, county, city, and tribal public health departments.  By default, we send the data to the state if 1) the patient is a resident, 2) the facility is present in the state. We also make the data available to the county based on these rules. | * Confirm whether there are local (state, county) reporting jurisdictions that may be different from the state |
| Data Use / Custody | Data Hub currently considers agreements as required by each jurisdiction. | * Share any registration/data use agreement forms that you require for your ELR connection |
| Testing | Data Hub is able to send test data before moving to production. | * Share your requirements around your testing process |

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# New Organization/Site Registration Process

The Data Hub works as an aggregation model - we receive data from multiple senders, clean the data, and send it to the local public health department in a consistent format.

Data Hub collects and shares the following information from each sender as they are registered to send data through the Data Hub

* Organization/Site Name
* CLIA
* Address (Optional)

We will send a spreadsheet on a daily/MWF/weekly cadence to an email address of your choice whenever there are new facilities

* [See sample spreadsheet](https://docs.google.com/spreadsheets/d/1D7Stc2BC02NUXHoLsdluTACWg3gQ0gs43oyfTWl3R2M/edit#gid=0)

For the first site, we will send data to your testing server before moving onto production

* For subsequent organizations/sites, we will send data directly to production

# Frequently Asked Questions

## Who owns the data?

* The ordering facilities own their own data. We submit on their behalf. We have a policy of transitory data retention - we delete the data after 14 days.

## 

## Where does the data live?

* CDC Cloud, for now. We have plans for migrating to a trusted third-party, long term.

## 

## Can the DataHub interface with senders other than SimpleReport?

* Yes. We are currently prioritizing large, multi-state senders, but if you have other senders you’d like to re-direct to Data Hub, please get in contact with us regarding the senders you are thinking of.

## 

## Do you currently send data to NHSN?

* Not currently.

## 

## Do you send data to APHL?

* Not currently.

## 

## How is data protected?

* *Need to fill this out.*

## 

## How do you have the right to send data?

* *Need to fill this out.*

# APPENDIX

**Intake Form**

* Are you integrated with Redox?
  + Yes
  + No
* *If no, confirm ideal file type and share sample file and integration guide*
  + HL7
  + CSV
* *If no, confirm your transport method*
  + SFTP
  + SOAP
  + PHNIMS
  + ...
* How often do you want to receive data?
  + Real time
  + Daily
  + Other
* Are you able to accept AOE questions?
  + Yes
    - *If so, what field do you want to send this as?*
  + No
* Other technical questions
  + Confirm receiving application OID and name

(Data Hub hosts data schema) Look through our data schema and flag if any fields are missing

(Data Hub has standard data use agreements) Data Hub has standard data use agreements to sign

(Data Hub has standard testing processes) Data Hub has standard testing procedures to follow

**Developer Facing doc** (From Jim’s brainstorm)

For both senders and receivers, We need a technical developer portal that our customers can go to, that describes:

|  |  |  |
| --- | --- | --- |
|  | Sender (e.g. a lab, app) | Receiver (e.g. state, territory) |
| Our API | X |  |
| Data formats we can handle | X | X |
| Data schema | X |  |
| Our authentication protocol | X |  |
| What kinds of batching we can handle (e.g. frequency) | X | X |
| Our versioning: how we handle changes to the schema | X |  |
| Our recommendations on retries on failure, corrections | X |  |
| Explanation of how we do routing and filtering. | X | X |
| Explanation of our available outgoing transport mechanisms (to sftp, to redox, make available for download, etc) | X | X |
| Our process for validating prior to going into Production mode. | X |  |

Questions we need to ask the sender in a survey/form and/or initial meeting:

- desired batching rules

- desired business rules for where the data should go.

- desired format

- how they intend to handle connection failures

- require a a sample copy of the data they are generating. Once we have that, we'll study it, in prep for a second meeting.

- any known non-standard data reqs (eg, state-specific fields beyond what HHS requires)

- how long a testing/validation phase do they need? How will they test and validate?

**Possible On boarding steps for someone SENDING us data.**

* Read docs on our developer site.
* Send us sample data and answer our survey questions (see above)
* Meeting: Kickoff meeting
* We generate draft schema
* Meeting: Schema review meeting - the gory details
* **==SCHEMA MILESTONE**: Customer has given us enough info to generate a final schema.
* We generate final schema. Code changes, if needed, here.
* Meeting: Walk through checklist to enter Testing mode.
* Set up testing endpoint for them to send data, with final schema deployed.
* ==**TESTING MILESTONE**: Customer has entered Testing mode.
* Send test files
* Approve
* ==**PRODUCTION MILESTONE**: Customer has entered Production mode.