



# *Data Exchange*

## **In this chapter:**

- Data Exchange Setup
- Flat File Data Exchange
- HL7 Data Exchange
- HMO Data Exchange
- Organizational Extract
- Exchange Data Status
- Exchange Data Details
- Flat File Response File
- HL7 Response File

## Data Exchange Setup

The data exchange feature of GRITS provides a means for provider organizations to exchange client and immunization information between GRITS and other immunization applications.

GRITS supports multiple file formats and methods for uploading and extracting client and immunization information.

A provider organization's Data Exchange setup determines the type of file format to be exchanged as well as several other important configurations.

Prior to performing a data exchange, your provider organization will need to contact the GRITS project manager and arrange for your organization to be set up to perform data exchanges. You will need to provide the following information regarding the type of data exchange you desire:

### *Provider Organization Data Exchanges*

- *File format:* Indicate Health Level 7 (HL7) or Flat File.
- *Direction of data:* Indicate the direction of data from the three following options -

*Bi-directional:* You, the provider organization, will submit files to GRITS containing client and immunization information. In return, GRITS will provide a response file, which provides summary information regarding the uploaded file and documents errors. GRITS also will return files containing client and immunization information that have been updated in GRITS, since your last data exchange upload.

*Provider organization (PO) to GRITS:* You, the provider organization will submit files to GRITS containing client and immunization information. In return, GRITS will only provide a response file, which provides summary information regarding the uploaded file and documents errors.

*GRITS to provider organization (PO):* Upon request from the provider organization, GRITS will send files containing client and immunization information that have been updated in GRITS since your last request for information.

- *Type of transmission:* Indicate whether the exchange will be a test or an actual production transfer.
- *Deduct From Inventory:* Indicate whether new immunization transactions will deduct from GRITS inventory.

## Data Exchange Availability to User Roles

Once your provider organization is setup to your requested configurations, you will need to set up certain users of the GRITS system with access to the data exchange functionality.

The current user roles with access to data exchange functionality are:

- *Data Exchange User*
- *Administrator + Data Exchange*
- *Typical User / Data Exchanger*
- *Parent Admin + Data Exchange*
- *HMO/Data Exch/Typical User*
- *HMO User*

## Flat File data exchange

This section pertains to provider organizations with the following data exchange set up:

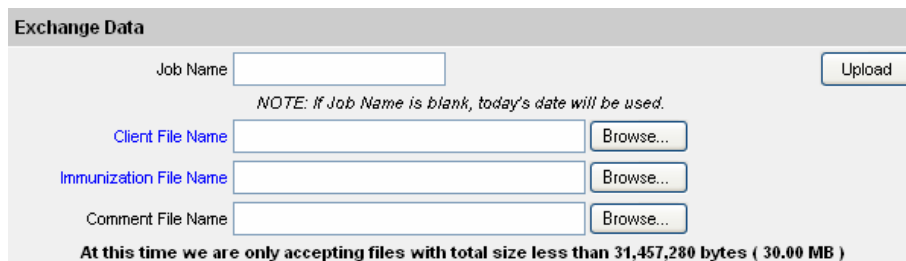
File Format: Flat File

Data Direction: "PO to GRITS" or "Bi-directional"

### Submitting a Flat File Upload

1. Click on Exchange Data under the Data Exchange menu group on the menu panel.

The following fields will be displayed:



The screenshot shows a web form titled "Exchange Data". It contains the following elements:

- A "Job Name" text input field with an "Upload" button to its right.
- A note: "NOTE: If Job Name is blank, today's date will be used."
- A "Client File Name" text input field with a "Browse..." button to its right.
- An "Immunization File Name" text input field with a "Browse..." button to its right.
- A "Comment File Name" text input field with a "Browse..." button to its right.
- A footer notice: "At this time we are only accepting files with total size less than 31,457,280 bytes ( 30.00 MB )"

- *Job Name*: Optional field.
  - *Client File Name*: Required field.
  - *Immunization File Name*: Required field.
  - *Comment File Name*: Optional field.
2. Optional. If Job Name is left blank, GRITS will use the current date for a job name. Type a job name, if desired.
  3. Press  to select the Client file you wish to upload.



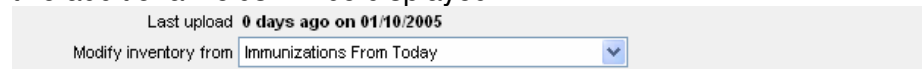
You can process only one job at a time. If you attempt to initiate a second job before the first job completes, the Exchange Data Status screen will display a message that reads "Processing has not completed on previous data exchange."

4. Press  to select the Immunization file you wish to upload.
5. Press  to select the Comment file you wish to upload.

Skip to step # 7, if your provider organization's data exchange account is setup not to deduct from GRITS inventory.

*(Deduct from Inventory Users only)*

If your data exchange account is set up to deduct from inventory, two additional fields will be displayed:



Last upload 0 days ago on 01/10/2005  
Modify inventory from Immunizations From Today

- *Last upload:* Displays the number of days since your last upload and the date of that upload.
- *Modify inventory from:* allows the user to indicate whether or not immunizations will deduct from GRITS inventory for the current data exchange file. Additionally, it allows the user to set an age limit on immunizations that will deduct from inventory. For instance: the value "7 days" indicates that only immunizations administered within the last 7 days are.

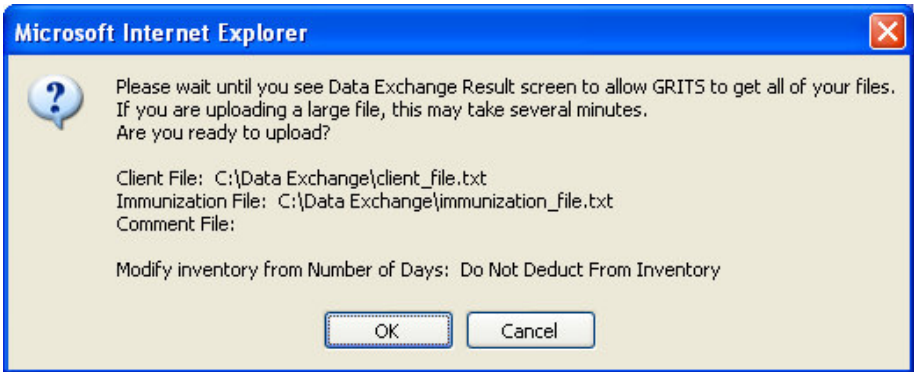
**Options include:**

Do Not Deduct From Inventory: no immunizations will deduct from GRITS inventory.

Immunizations From Today: only immunizations with today's date will deduct from GRITS inventory.

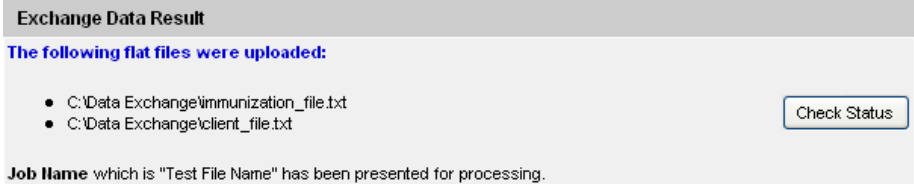
1 day – 30 days: immunizations that are within the selected number of days from today's date will deduct from GRITS inventory.

6. Set the "Modify inventory from" pick list to limit the age of an immunization that will deduct from GRITS inventory.
7. Press  on your screen to submit your files for processing.
8. Verify the files in the message box provided, and Press  to begin processing.



(Deduct from Inventory Users Only) – Additionally, verify the value displayed for “Modify inventory from Number of Days”.

9. The **Exchange Data Result** screen will display the files uploaded and the job name. Press  to review job summary information.



Refer to the *Exchange Data Status* section later in this chapter to review the job summary information contained on the **Exchange Data Status** screen.

## HL7 data exchange

The section pertains to provider organizations with the following data exchange set up:

- File Format: HL7
- Data Direction: “PO to GRITS” or “Bi-directional”

### *Submitting a HL7 Upload*

GRITS will currently accept a data exchange upload of the HL7 2.3.1 and HL7 2.4 format.

1. Click on Exchange Data under the Data Exchange menu group in the menu panel.

The following fields will be displayed:



You can process only one job at a time. If you attempt to initiate a second job before the first job completes, the Exchange Data Status screen will display a message that reads “Processing has not completed on previous data exchange.”

**Exchange Data**

Job Name

*NOTE: If Job Name is blank, today's date will be used.*

HL7 File Name

**At this time we are only accepting files with total size less than 220,200,960 bytes ( 210.00 MB )**

- *Job Name*: Optional field.
  - *HL7 File Name*: Required field.
2. Optional. If Job Name is left blank, GRITS will use the current date for a job name. Type a job name, if desired.
  3. Press  to select the HL7 file you wish to upload.

Skip to step #5, if your provider organization's data exchange account is setup not to deduct from GRITS inventory.

*(Deduct from Inventory Users only)*

If your data exchange account is set up to deduct from inventory, two additional fields will be displayed:

Last upload **0 days ago on 01/10/2005**

Modify inventory from

- *Last upload*: Displays the number of days since your last upload and the date of that upload.
- *Modify inventory from*: allows the user to indicate whether or not immunizations will deduct from GRITS inventory for the current data exchange file. Additionally, it allows the user to set an age limit on immunizations that will deduct from inventory. For instance: the value "7 days" indicates that only immunizations administered within the last 7 days are.

**Options include:**

Do Not Deduct From Inventory: no immunizations will deduct from GRITS inventory.

Immunizations From Today: only immunizations with today's date will deduct from GRITS inventory.

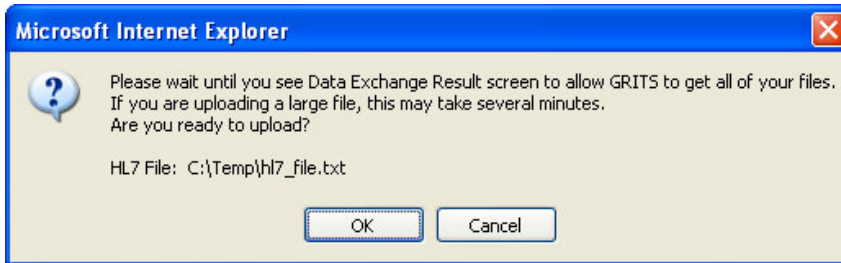
1 day – 30 days: immunizations that are within the selected number of days from today's date will deduct from GRITS inventory.

4. Set the "Modify inventory from" pick list to limit the age of an immunization that will deduct from GRITS inventory.
5. Press  on your screen to submit your file for processing.

6. Verify the file(s) in the message box provided, and Press

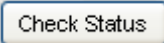


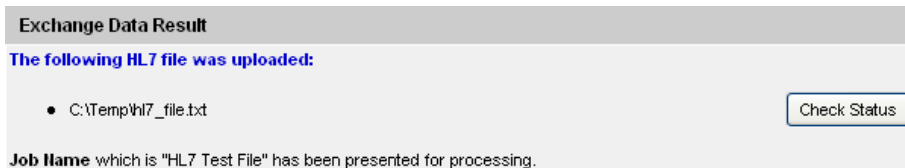
to begin processing.



(Deduct from Inventory Users Only) – Additionally, verify the value displayed for “Modify inventory from Number of Days”.

7. The **Exchange Data Result** screen will display the files

uploaded and the job name. Press  to review job summary information.



Refer to the *Exchange Data Status* section later in this chapter to review the job summary information contained on the **Exchange Data Status** screen.

## HMO data exchange

HMO data exchange allows a Health Maintenance Organization to submit HMO data uploads to GRITS to add immunizations and create associations with clients in the application. HMO queries can be submitted, and GRITS will generate output files of all clients, immunizations, comments who are associated with the HMO organization.

### *Submitting a HMO Data Upload*

Submitting an HMO Data upload is the same as submitting a Flat File or HL7 upload except for the menu items available in GRITS. It is important to know the data exchange set up of your provider organization before attempting to submit an HMO Data upload.

To perform an HMO Data Exchange, follow these steps:

1. Click on Submit HMO Data under the HMO Data Exchange menu group in the menu panel.



You can have only one job processing at a time. If you attempt to initiate a second job before the first job completes, the Exchange Data Status screen will display a message that reads “Processing has not completed on previous data exchange.”

Depending upon the type of file format you are set up to use, you will submit either Flat File or HL7 files.

**File Format:**

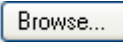

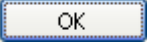
- Flat File: Follow steps 2 – 9 in the Flat File Data Exchange section earlier in this chapter to submit a Flat File HMO data exchange upload.
- HL7: Follow steps 2 – 7 in the HL7 Data Exchange section earlier in this chapter to submit an HL7 HMO data exchange upload.

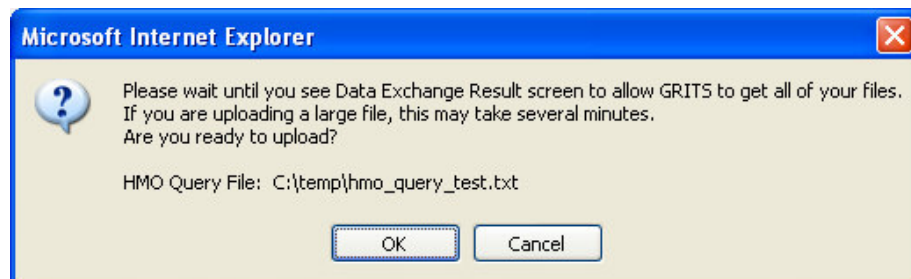
*Submitting a HMO Query*

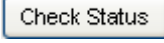
To perform an HMO Data Query, follow these steps:

1. Click on Submit HMO Query under the HMO Data Exchange menu group in the menu panel.



- *Job Name*: Optional field.
- Query File Name: Required field.
2. Optional. If Job Name is left blank, GRITS will use the current date for a job name. Type a job name, if desired.
3. Press  to select the appropriate query file.
4. Press  on to submit your file for processing.
5. Verify the file(s) in the message box provided, and Press  to begin processing.



6. The **Exchange Data Result** screen will display the query file submitted and the job name. Press  to review job summary information.



**Exchange Data Result**

The following HMO query file was uploaded:

- C:\temp\hmo\_query\_test.txt

[Check Status](#)

**Job Name** which is set as default string "Job 12/27/2005 14:19:22" has been presented for processing.

Refer to the *Exchange Data Status* section later in this chapter to review the job summary information contained on the **Exchange Data Status** screen.

## Organizational Extract

From the Organizational Extract menu option, you may generate a Flat File, HL7 2.3.1 or HL7 2.4 extract of client, immunization and comment information as a downloadable text file.

When the user submits an organizational extract request, GRITS generates an output file of all clients (with immunizations and comments), who are associated to the provider organization, and who match the filter criterion selected on the **Organizational Extract** screen. The output file(s) should then be loaded into the provider organization's immunization or health-related application.

### Submitting an Organizational Extract Request

To select and submit organizational extract criteria, you will need to select filtering criteria on the **Organizational Extract** screen, an online form. Follow these steps to generate an extract:

1. Click Organizational Extract under the Data Exchange menu group on the menu panel.
2. Select a value for Organization ID(s). (The Select Organization ID(s) section ONLY appears for an organization who is a parent in a parent/child relationship with another organization or a vendor in a vendor/client relationship.)

**Organizational Extract**

*A Complete Immunization History Will Be Generated for All Clients That Meet the Selection Criteria Below*

Select Organization ID(s) ...

All clients for Parent and all Child Organizatons  
 All Clients for Parent Organization  
 All clients for these child organizations

Available Organizations      Selected Organizations



Regardless of the criteria submitted to limit the results of an organizational extract, GRITS will always provide a complete immunization history for each client returned in the extract file.

- Indicate whether you wish to view all clients associated with the parent and child organizations, associated with the parent organization, or associated with selected child organizations by clicking on the appropriate radio button.
- If you choose to include only clients associated with selected child organizations, select these organizations by clicking on an organization or highlighting a chosen organization and pressing **Add >**. Do this for each organization desired.

*Note:* This will limit the search to only those clients who are associated with the selected organizations.

3. Select and filter the extract by county.

- Indicate whether you wish to view clients residing in all counties or if you wish to include only clients residing in selected counties by clicking the appropriate radio button.
- If you choose to include only clients residing in selected counties, select these counties by clicking on a county or highlighting a chosen county and pressing **Add >**. Do this for each county desired.

*Note:* This will limit the search to only those clients who reside in the selected counties.

4. Select and filter the extract by vaccine group.

- Indicate whether you wish to include all vaccine groups in the search criteria or if you wish to include only selected groups by clicking the appropriate radio button.
- If you choose to include only selected groups, select these groups by clicking on a group or highlighting a chosen group and pressing **Add >**. Do this for each group desired.

*Note:* This will limit the search to clients who have been administered the selected immunizations. However, GRITS will provide a list of all immunizations for the clients returned.

5. Select date criteria and enter a date range.

Select Date Criteria ...

- No Date Criteria
- Vaccine Administration Date Range
- Birth Date Range
- Client / Immunization Update Date Range

- Indicate whether you wish to include no date criteria or if you wish to specify a data range for vaccine administration date, birth date or client / immunization update date by clicking the appropriate radio button.
- Enter the beginning date in the From text box and the ending date in the To text box using the format MM/DD/YYYY.
  - Vaccine Administration Date Range: When this option is selected, the extract will include clients who have received an immunization during the specified date range.

*Note:* GRITS will provide a list of all immunizations for the clients returned.
  - Birth Date Range: When this option is selected, the extract will include clients who have a birth date that falls within the specified date range.
  - Client / Immunization Date Range: When this option is selected, the extract will include clients who have at least one client or immunization update date that falls within the specified date range.

*Note:* GRITS will provide a list of all immunizations for the clients returned.

6. Select a client status.

Select Client Status ...


- All
- Active
- Inactive
- Permanently Inactive / Deceased

- Indicate whether you wish to view clients of all status or if you wish to include only clients who are active, inactive or permanently inactive / deceased by clicking the appropriate radio button.

7. Enter a job name and select an extract format.

- To give the extract a meaningful name, enter the desired text in the Job Name text box. If the job name is not specified, a title will be automatically assigned with the word “Extract” followed by the date and time that the extract was created.
- Indicate whether you wish for the extract file to be created in the GRITS ASCII Flat File Format, HL7 2.3.1 Transaction Format, or HL7 2.4 Transaction Format by clicking the appropriate radio button. By default the format of the extract is the GRITS ASCII Flat File Format.

Note: For HL7 requests, GRITS provides an HL7 - Unsolicited Vaccination Update (VXU) message.

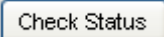

8. Press . The Data Exchange Job Processor will begin processing your extract request and the **Exchange Data Status** screen will appear.


Refer to the *Exchange Data Status* section later in this chapter to review the job summary information contained on the **Exchange Data Status** screen.

## Exchange Data Status

The **Exchange Data Status** screen displays job summary information for all data exchange requests that a provider organization submits. This includes Flat File uploads, HL7 uploads, HMO uploads and queries, and various data extracts.

### *Reviewing Job Status screen*

1. To view the **Exchange Data Status** screen, press the Check Status menu item under the Data Exchange menu group,  
Or  
Press  from the **Exchange Data Results** screen.
2. By default, the data exchange **Job Status** screen displays data exchange requests submitted for the current day and the last 7 days. To display jobs for a different time period, select a value from the date filter .

3. Press  periodically to review the status of a job request you have recently submitted to GRITS. The **Status** field will display changes in the processing of your job.
4. When a data exchange job completes processing, click on the underlined [job name](#) to review the **Exchange Data Details** screen.

Refer to the *Exchange Data Details* section later in this chapter to review the job details information.

5. To view all columns on the **Exchange Data Status** screen, you may need to use the LEFT/RIGHT scroll bar located at the bottom of your web browser .

The following fields will be displayed:

Exchange Data Status		Past 7 Days	Refresh			
Job Name	User Name	Exchange Data Date	Process Start Date	Process End Date	Status	Type

- *Job Name*: This field displays the name assigned to the data exchange job request.
- *User Name*: This field displays the user name of the person who initiates the data exchange request.
- *Exchange Data Date*: This field displays the Date and Time the data exchange request was initiated.
- *Process Start Date*: This field displays the Date and Time the application begins processing the data exchange job.
- *Process End Date*: This field displays the Date and Time the application finishes processing the data exchange job.
- *Status*: This field displays the processing phase of the data exchange request. (i.e. Queued, Processing, Complete, etc.)
- *Type*: This field displays the type of data exchange request that has been submitted (i.e. Flat File, HL7 2.3.1, HL7 2.4, HMO, and various extract requests.)

Rejected			Inventory		Pending	Unmatched	
Clients	Immuni- zations	Comments	Updated	Not Updated	Clients	Immuni- zations	Comments

- *Rejected Clients*: This field displays the number of clients rejected in a data exchange upload.
- *Rejected Immunizations*: This field displays the number of immunizations rejected in a data exchange upload.
- *Rejected Comments*: This field displays the number of comments rejected in a data exchange upload.

- *Inventory Updated:* (Deduct from Inventory Users Only) This field displays the number of immunization records that were successfully deducted from inventory in a data exchange upload.
- *Inventory Not Updated:* (Deduct from Inventory Users Only) This field displays the number of immunization records that were NOT deducted from inventory in a data exchange upload.
- *Pending Clients:* This field displays the number of clients in a data exchange upload that result in the temporary storage of pending clients. Pending clients are stored when a client in a data exchange upload matches more than one existing client in the Immunization Registry; pending clients are an indicator that duplicate client records may exist in GRITS. Contact the GRITS Help Desk to review and merge Pending Client records.
- *Unmatched Immunizations:* This field displays the number of immunizations that are not associated with a client in a data exchange upload. Unmatched immunizations are NOT processed and loaded into the Immunization Registry. (Pertains to Flat File users only.)
- *Unmatched Comments:* This field displays the number of comments that are not associated with a client in a data exchange upload. Unmatched comments are NOT processed and loaded into the Immunization Registry. (Pertains to Flat File users only.)

### *Reviewing Job Status field*

Upon submitting a data exchange request, the Data Exchange Job Processor runs through several stages that can all be viewed in the Status field on the **Exchange Data Status** screen.

#### **Preliminary stages:**

Typically data exchange jobs rapidly transition through these preliminary stages, so the number of stages you see will vary. In the event one of the preliminary stages is displayed for a prolonged period of time, contact the GRITS Help Desk as there may be an issue with the Data Exchange Job Processor.

- **FOUND:** Initial phase in which the Immunization detects that a data exchange request has been submitted.
- **UNPROCESSED:** When the Immunization Registry experiences a high volume of data exchange requests, a back load of job requests may occur.

- **PREPROCESSED:** When the Immunization Registry experiences an internal error, data exchange jobs processing at the time of the error will be set to Exception. GRITS keeps track of the number of records committed to the database up to the point that the exception occurred. GRITS will create a split file of all records in the file that have not been processed and committed. This split file will be set to the status Preprocessed. The split file will be submitted by a GRITS program associate after the internal error that caused the Exception is identified and fixed.
- **QUEUED:** Job request placed in the Job Processor queue awaiting its turn to start processing.

#### **Processing stages:**

When the Data Exchange Job Processor begins to process your data exchange request, the **Process Start Date** will appear and the **Status** field will display a new value.

- **PROCESSING:** This message indicates the data exchange request is currently processing.

#### **Final stages:**

When the Job Processor finishes processing your data exchange request, the **Status** field will display one of the following values:

- **COMPLETE:** This message indicates the data exchange request has processed successfully.
- **ERROR:** This message indicates the data exchange request could not be processed due to formatting errors in the data file you have uploaded. Review the format of the file you submitted; contact the GRITS Help Desk for additional assistance if needed.
- **EXCEPTION:** This message indicates that the Registry encountered an internal problem while attempting to process your data exchange request. Check the Announcements section on the GRITS Home Page for any current data exchange issues that may have caused your data exchange request to go to Exception; contact the GRITS Help Desk to research the problem if no explanation is given in the GRITS Announcements.

## **Exchange Data Details**

The **Exchange Data Details** screen is accessible from the **Exchange Data Summary** screen. On the **Exchange Data Summary** screen, you must click on the Job Name you wish to review.

The **Exchange Data Details** screen allows you to review data exchange job response files, input files, output files, log information regarding the review of response/input/output files, and detailed job summary information. The **Exchange Data Details** screen is divided into three sections: download or upload files, download log, and summary information.

### *Download Files section*

The *Download Files for: [job name]* section contains data exchange response files and output files for completed data exchange requests. Click on the blue, underlined file name, to download and review a download file.



Available Response File:

- **Response File:** The response file is generated by GRITS listing job summary detail information and error messages for a data exchange request.  
(Refer to the *Response File* section later in this chapter to review the response file information and possible error messages.)

Available Output Files:

Output files are data exchange files generated by GRITS. Provider Organizations that use applications other than GRITS for tracking immunizations can use GRITS output files to keep their system up-to-date with information in GRITS. The output files are intended to be downloaded from GRITS and uploaded into a different application.

You will receive output files in one of the following file formats depending on your provider organization's data exchange file format set up.

- *Flat File: Client file, Immunization file and/or Comment file*
- *HL7 2.3.1 file*
- *HL7 2.4 file*

You will receive data exchange output files ONLY if your provider organization's data exchange set up is "Bi-directional" or "GRITS to Provider Organization."

- **Bi-directional data exchange users:** When a user submits a data exchange upload, GRITS generates the appropriate output file(s) consisting of all clients (with immunizations and comments), associated to the provider organization, who have



been updated in GRITS since the previous data exchange upload.

- GRITS to Provider Organization: When a user submits a data exchange request, GRITS generates the appropriate output file(s) consisting of all clients (with immunizations and comments), associated to the provider organization, who have been updated in GRITS since the previous data exchange request.

Note: The output file(s) are NOT the same files submitted by a user in a data exchange upload.

The **Organizational Extract** and **HMO Query** screens allow a user to submit a request for data that also produce data exchange output files.

### *Upload Files section*

The *Upload Files for: [job name]* section appears in place of the *Download Files* section when your data exchange upload request is set to ERROR status. GRITS returns your original input file(s), so you may download your file, fix the error, and resubmit the file(s).

Click on the blue, underlined file name, to download and review an upload file.

**Uploaded Files for: Baldwin12230501**

[Client File](#) ( 50KB )

[Immunization File](#) ( 69KB )

Available upload files:

- *Flat File: Client file, Immunization file and/or Comment file*
- *HL7 2.3.1 file*
- *HL7 2.4 file*

### *Download Log section*

The *Download Log for: [job name]* section contains log information pertaining to users who have downloaded Response Files and Output Files for review.

The following fields will be displayed:

Download Log for: Job 09/30/2005 14:00:19		
File	User Name	Download Date
No Download Logged		

- File: The file name of the response file, output file or input file that has been downloaded.
- User Name: The name of the user who downloaded the response file, output file or input file.
- Download Date: The date the response file, output file or input file of the response file, output file or input file was downloaded.

### Summary Information section

The *Summary Information for: [job name]* section contains all information pertinent to the exchanged data file that was processed.

Summary Information for: 409 G0070			
Description	Client	Immunization	Comment
Processed	1	1	0
Accepted	1	1	0
New	0	1	0
Updated	1	0	0
Already in GRITS	0	0	0
Rejected	0	0	0
Pending	0	0	0
Inventory Updated	0	1	0
Inventory Not Updated	0	0	0
No Client Match	0	4	0
Total	1	5	0

(All clients in a file are processed. Immunizations and comments are listed as either *Processed* or *No Client Match*.)

- *Processed Client, Immunization and Comment*: This row displays the number of clients, immunizations and comments in a data exchange upload that are processed.

(Processed clients, immunizations and comments will either be Accepted, Rejected or Pending.)

- *Accepted Client, Immunization and Comment*: This row displays the number of clients, immunizations and comments in a data exchange upload that are accepted by GRITS.

(Accepted clients, immunizations and comments can either be Accepted, Rejected or Pending.)

- *New Client, Immunization and Comment*: This row displays the number of clients, immunizations and comments in a data exchange upload that were not previously in GRITS and will be inserted as a result of the upload.

- *Updated Client, Immunization and Comment:* This row displays the number of clients, immunizations and comments in data exchange upload that already exist in GRITS and are updated as a result of the upload.
- *Already in GRITS Immunization and Comment:* This row displays the number of immunizations and comments in a data exchange upload that already exist in GRITS but are NOT updated by the upload.
- *Rejected Client, Immunization and Comment:* This row displays the number of clients, immunizations and comments in a data exchange upload were rejected due to errors.
- *Pending Client, Immunization and Comment:* This row displays the number of clients, immunizations and comments in a data exchange upload that result in the temporary storage of pending client data. Pending client data is stored when a client in a data exchange upload matches more than one existing client in the Immunization Registry; pending clients are an indicator that duplicate client records may exist in GRITS. Contact the GRITS Help Desk to review and merge Pending Client records.
- *Inventory Updated (Deduct from Inventory Users Only):* This field displays the number of immunization records in a data exchange upload that were successfully deducted from inventory.
- *Inventory Not Updated (Deduct from Inventory Users Only):* This field displays the number of immunization records in a data exchange upload that were NOT deducted from inventory.
- *No Client Match Immunizations and Comments (Flat File Users Only):* This row displays the number of immunizations and comments in a data exchange upload that do not match a client in the upload. These unmatched immunizations and comments are NOT processed and are NOT loaded into the Immunization Registry.
- *Total Client, Immunization and Comment:* This row displays the total number of clients, immunizations and comments in a data exchange upload.  
(The *Total* row equals *Processed* plus *No Client Match* rows.)

If the job did not complete successfully, the **Job Error** screen will display. This screen will contain an explanation of why the exchange

data could not be processed, contains the original uploaded file(s), and lists information regarding the activity of the downloaded file(s).

## Flat File Response File

The *Response File* is a downloadable and printable electronic document that contains all information pertinent to a processed data exchange upload. In addition to having the same information available on the **Exchange Data Details** screen, the Response File also includes a list of all errors located in the data exchange upload.

### *Summary section*

The *Summary* section contains two parts: a basic *Job Information* section and a Files Received By GRITS section that contains the same information as the *Summary Information* section of the **Exchange Data Details** screen.

#### **Job Information:**

The *Job Information* section contains the following items:

```
*****  
** JOB INFORMATION  
*****  
Job ID:                61757  
Job Start Date:       Fri Feb 10 16:22:20 EST 2006  
Job End Date:         Fri Feb 10 16:24:59 EST 2006
```

- *Job ID*: A number assigned to your data exchange request that uniquely identifies your data exchange request from all other requests submitted to GRITS.
- *Job Start Date*: The date and time the GRITS Job Processor started processing your data exchange request.
- *Job End Date*: The date and time the GRITS Job Processor completed processing your data exchange request.

#### **Files Received By GRITS:**

The *Files Received By GRITS* section contains the following items:

```

*****
** FILES RECEIVED BY GRITS
*****
DESCRIPTION          CLIENT          IMMUNIZATION          COMMENT
-----
Processed            587              1598                   0
  Accepted            585              1131                   0
    New              111              1131                   0
    Updated           474               0                      0
  Already in GRITS    0                462                   0
  Rejected            1                2                     0
  Pending             1                3                     0
  Inventory Updated   -                0                     -
  Inventory Not Updt  -                0                     -
No Client Match      -                5                     0
Total                587              1603                   0

```

(All clients in a file are processed. Immunizations and comments are listed as either *Processed* or *No Client Match*.)

- *Processed (Client, Immunization and Comment)*: This row displays the number of clients, immunizations and comments in a data exchange upload that are processed.  
Processed clients, immunizations and comments will either be Accepted, Rejected or Pending.
  - *Accepted (Client, Immunization and Comment)*: This row displays the number of clients, immunizations and comments in a data exchange upload that are accepted by GRITS.  
Accepted clients, immunizations and comments can either be Accepted, Rejected or Pending.
  - *New (Client, Immunization and Comment)*: This row displays the number of clients, immunizations and comments in a data exchange upload that were not previously in GRITS and will be inserted as a result of the upload.
  - *Updated (Client, Immunization and Comment)*: This row displays the number of clients, immunizations and comments in data exchange upload that already exist in GRITS and are updated as a result of the upload.
  - *Already in GRITS (Immunization and Comment)*: This row displays the number of immunizations and comments in a data exchange upload that already exist in GRITS but are NOT updated by the upload.
  - *Rejected (Client, Immunization and Comment)*: This row displays the number of clients, immunizations and comments in a data exchange upload were rejected due to errors.

- *Pending (Client, Immunization and Comment)*: This row displays the number of clients, immunizations and comments in a data exchange upload that result in the temporary storage of pending client data. Pending client data is stored when a client in a data exchange upload matches more than one existing client in the Immunization Registry; pending clients are an indicator that duplicate client records may exist in GRITS. Contact the GRITS Help Desk to review and merge Pending Client records.
- *Inventory Updated (Deduct from Inventory Users Only)*: This field displays the number of immunization records in a data exchange upload that were successfully deducted from inventory.
- *Inventory Not Updated (Deduct from Inventory Users Only)*: This field displays the number of immunization records in a data exchange upload that were NOT deducted from inventory.
- *No Client Match (Immunizations and Comments) (Flat File Users Only)*: This row displays the number of immunizations and comments in a data exchange upload that do not match a client in the upload. These unmatched immunizations and comments are NOT processed and are NOT loaded into the Immunization Registry.
- *Total (Client, Immunization and Comment)*: This row displays the total number of clients, immunizations and comments in a data exchange upload.

The *Total* row equals *Processed* plus *No Client Match* rows.

### *Detail section*

The *Detail* section contains several sections that display different types of errors that are encountered during the processing of a data exchange upload.

#### **Clients That Are Pending:**

Pending client data is stored when a client in a data exchange upload matches more than one existing client in the Immunization Registry. This section specifies clients in a data exchange upload and the existing clients in GRITS who caused the pending client situation.

#### **Clients That Were Rejected:**

This section specifies clients in a data exchange upload that are processed but rejected for various reasons.

**Clients That Were Accepted, Though Had One or More Immunizations That Were Rejected:**

This section specifies clients in a data exchange that are processed and accepted although one or more immunizations have been rejected for various reasons.

**Clients Accepted; Includes Inventory-Related Responses and Optional Field Errors:**

This section includes clients in a data exchange that are processed and accepted. The responses in this section include inventory-related messages and responses reflecting optional field errors.

**Immunizations Unprocessed, Contained No Matching Client in Client File:**

This section specifies immunizations that are unprocessed because they have no matching client in the client file.

**Comments Unprocessed, Contained No Matching Client in Client File:**

This section specifies comments that are unprocessed because they have no matching client in the client file.

The following are examples of messages that may appear:

<b>Flat File Response File Messages</b>	
<b>Errors</b>	<b>Resolution</b>
<b><i>Pending Errors</i></b>	
The incoming client matches more than one existing candidate. Existing candidate client ids include [client information included.] The incoming client information has been saved for review. Contact the GRITS Help Desk to perform a client merge.	Contact the GRITS Help Desk. A Help Desk representative will merge duplicate client records.
<b><i>Client Errors</i></b>	
Record rejected. The provider organization that initiated this data exchange is not identified as a parent or vendor of the organization that it labeled as the "SENDING PROVIDER ORGANIZATION" for this record. [PROVIDER ORGANIZATION RELATIONSHIP]	Contact GRITS Data Exchange representative to set up a parent/child or vendor/client relationship for the necessary organizations. Alternately, modify the Sending Organization field to match the organization submitting the file or leave the field blank.

<b>Flat File Response File Messages</b>	
<b>Errors</b>	<b>Resolution</b>
Record rejected. Client does not have any valid immunizations.	Submit at least one valid immunization.
Client and Immunization Record(s) Rejected. Eligibility code missing for a new immunization.	For 'new' immunizations, client and immunization eligibility cannot be blank. Send a valid eligibility code, or send the immunization as 'historical'.
Record rejected. Demographic Updates not supported when client does not already exist in registry.	Submit the new client with immunizations or contact GRITS to temporarily allow demographic-only updates.
Record rejected. This client has existing immunizations with vaccination date(s) prior to the client's birth date.	The record you have submitted attempted to update a client's birth date, but immunizations exist before the birth date. Contact the GRITS Help Desk to review the existing client and immunizations.
Record rejected. A valid date must be entered. [BIRTH DATE]	Submit a valid birth date.
<b>Immunization Errors</b>	
Record rejected. CPT Code, Vaccine Group and Trade Name are not a valid combination.	Review GRITS allowed values, modify the Immunization and resubmit. If multiple value types have been submitted, ensure they are a valid combination.
Record rejected. This immunization matches another immunization in incoming file.	The immunization for this client was submitted twice in the same file. Review GRITS to ensure the immunization was loaded. Reload if necessary.
Record rejected. A valid vaccination date must be entered. [VACCINATION DATE]	Most likely, the format was incorrect. Review and correct the date of the immunization then resubmit.
Record rejected. CPT Code 90714 is outside its effective date range. [IMMUNIZATION IDENTIFIER (CPT CODE)]	The CPT Code is not valid for the date of the immunization submitted. Review and correct the CPT Code then resubmit.
<b>Optional Field Errors</b>	
Relationship code not recognized, defaulting to Guardian. [RESPONSIBLE PERSON RELATIONSHIP]	Correct the extract process to load GRITS accepted relationships. Login to GRITS to manually update responsible person relationships.



<b>Flat File Response File Messages</b>	
<b>Errors</b>	<b>Resolution</b>
Inaccurate or missing data. No value stored. [RESPONSIBLE PERSON LAST NAME, RESPONSIBLE PERSON FIRST NAME]	Login to GRITS to manually update responsible person information. Ensure your extract process is extracting responsible person information correctly.
Comment Record rejected. A valid date must be entered. [APPLIES TO DATE]	Most likely, the format was incorrect. Review and correct the date of the comment then resubmit.
Record rejected. This comment matches another comment in incoming file.	The comment for this client was submitted twice in the same file. Review GRITS to ensure the comment was loaded. Reload if necessary.
<b>Inventory Success</b>	
IM06072007 90734 MCV Menactra U2068AA 06072007 Deduct 1.0 x 0.5ml Lot 2068AA/Prv/Menactra; 12955-CHEROKEE CO HD - CANTON. [VACCINE INVENTORY - DOSE QUANTITY]	No action required. The immunization was properly deducted from inventory. This message shows the immunization date, CPT Code, Vaccine Group, Trade Name, Lot Number, Dose Quantity, Dose Size, Funding Source, Site ID and Site Name.
<b>Inventory Site Errors</b>	
Too many active sites with inventory for this organization. No site name provided. [SITE NAME]	Specify a Site ID or Site Name in your organization from which GRITS should deduct inventory.
No sites found for this organization with name like Capitol Sq [SITE NAME]	Specify a Site ID or Site Name in your organization from which GRITS should deduct inventory.
Given site name (Testville) was found, but it is not a site with inventory. [SITE NAME]	Add inventory to your site, or specify an alternate site from which GRITS should deduct inventory.
<b>Inventory Vaccine Lot Errors</b>	
Given lot number (0018F) and funding (PUBLIC/PRIVATE), no active vaccine lots were found for Site ID - Site Name. [VACCINE LOT NUMBER]	Review your file to ensure the lot number is correct; edit and resubmit if necessary. Review GRITS to ensure the lot number is correct. Edit the lot number if it is incorrect, or add inventory if the lot does not exist.

<b>Flat File Response File Messages</b>	
<b>Errors</b>	<b>Resolution</b>
Given lot number (99943Z) and given funding (PUBLIC/PRIVATE), too many active vaccine lots were found for Site ID - Site Name. [VACCINE LOT NUMBER]	Verify the correct lot number with corresponding expiration date and funding source of inventory lot.  Either edit the lot number, funding source, eligibility code of the immunization or inactivate the duplicate lot.
Given lot number (99943Z), and funding (PUBLIC/PRIVATE), too many active vaccine lots were found for Site ID - Site Name. No trade name was supplied. No expiration date supplied. [VACCINE LOT NUMBER]	Verify the correct lot number with corresponding expiration date and funding source of inventory lot.  Either edit the lot number, funding source, eligibility code of the immunization, or inactivate the duplicate lot.  If possible, specify missing information identified.
Given lot number (8876R), funding (PUBLIC/PRIVATE), and trade name (Tripedia), too many active vaccine lots were found for Site ID - Site Name. No expiration date supplied. [VACCINE LOT NUMBER]	Verify the correct lot number with corresponding expiration date and funding source of inventory lot.  If possible, specify missing expiration date.
Given lot number (1054-2), funding (PUBLIC), and expiration date (20090131), too many active vaccine lots were found for Site ID - Site Name. Trade name not supplied.	Verify the correct lot number with corresponding expiration date and funding source of inventory lot.  If possible, specify missing trade name.
Given lot number (99943Z), and funding (PUBLIC/PRIVATE), too many active vaccine lots were found for Site ID - Site Name. No matching trade name (VAQTA Adult). No expiration date supplied. [VACCINE LOT NUMBER]	Verify the correct lot number with corresponding expiration date and funding source of inventory lot.  Make sure the trade name in inventory and the incoming file match.  If possible, specify missing expiration date.
Given lot number (9876K), funding (PUBLIC/PRIVATE), and expiration date (20080101), too many active vaccine lots were found for Site ID - Site Name. No matching trade name (Twinrix).	Verify the correct lot number with corresponding expiration date and funding source of inventory lot.  Make sure the trade name in inventory and the incoming file match.
Given lot number 9002, the vaccine lot was found, but it is inactive for Site ID - Site Name. [VACCINE LOT NUMBER]	Activate your inactive lot and resubmit the immunization to deduct from inventory.

<b>Flat File Response File Messages</b>	
<b>Errors</b>	<b>Resolution</b>
Vaccine lot number not on incoming transaction for Site ID - Site Name. [VACCINE LOT NUMBER]	Specify a lot number from which GRITS should deduct inventory.
The vaccine is not associated to any inventory for Site ID - Site Name. [VACCINE LOT NUMBER]	GRITS did not locate inventory from which to deduct. Ensure your inventory is up-to-date in GRITS, and ensure the inventory lot on your file is correct.
Vaccine lot number (D600EF) matches two or more active lots with different trade names for Site ID - Site Name. No inventory was deducted.	GRITS identified two lots in your inventory with identical lot numbers, but with different trade names. Verify the inventory lot numbers are correct.
This immunization is too old (08/01/2004) to adjust inventory for Site ID - Site Name. [VACCINATION DATE]	Adjust the length of time allowable to deduct from inventory and resubmit the immunization, or enter the immunization from inventory in the user interface.

## HL7 Response File

The HL7 *Response File* is a downloadable and printable electronic document that contains all information pertinent to a processed data exchange upload. GRITS generates a General Acknowledgement (ADT) message according to the ANSI Health Level 7 (HL7) Standard.

For additional information regarding the HL7 Standard, refer to the GRITS HL7 – General Transfer Specification.

