
Gateway Test Result Submission Guide

This guide is intended as a resource for external institutions that have a business need to submit test results to NMDP's Be The Match Registry database. NMDP has developed a submission Gateway that leverages modern message formats and technologies to automate and simplify the submission of test results to NMDP systems from authorized business partners. The guide also highlights features available to facilitate manual file upload of test results and a user submission dashboard to view the status of submissions.

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HML 1.0.1

Schema Background and Structure

1. General information about HML can be found at <https://bioinformatics.bethematchclinical.org/hla-resources/hml/>
2. Specific information about the HML 1.0.1 public schema is at <http://schemas.nmdp.org/>
3. NMDP additional requirements (internal operations schema vs public schema) and other data dependencies are listed below.

HML 1.0.1 Business Specific Values and Validation Requirements

Field	Required	Value
hml version	Yes	1.0.1
hml project-name	Yes	Will be provided by NMDP
hmlid extension and root	Yes	The combination of the two must be unique to each file Note: currently hmlid is reported back to lab on 3029
reporting-center	Yes	must be a 3-digit NMDP-assigned number
sample id	Yes	Restricted to digits and Must be between 1 and 31 digits long
sample center-code	Yes	Must be a 3-digit NMDP-assigned number
collection-method	Yes	Must be between 1 and 64 characters in length Free-form, suggested values include: "swab", "buccal swab", "filter paper", and "blood aliquots"
typing-date	Yes	Must be on or before today's date
gene-family	Yes	Must be either "HLA" or "KIR"
allele-assignment date, allele-db, allele-version	Yes	
GIString result reporting	No*	*Preferred Examples: <glstring>HLA-C*04:01:01:01+HLA-C*16:01:01:</glstring> <glstring>HLA-B*35:01:01:01/HLA-B*35:01:01:02+HLA-B*41:01:01:</glstring>
Haploid results reporting (if used)		
- haploid method	Yes	DNA or Serology
- haploid locus	Yes	Must be a fully qualified value like "HLA-A" or "HLA-DPB1"
typing-method	Yes	SSO "locus" is required and must be a fully qualified value like "HLA-A" or "HLA-DPB1"
		SSO "scores" are required and must be a sequence of 1's and 8's
		SSP "locus" is required and must be a fully qualified value like "HLA-A" or "HLA-DPB1"
		SSP "scores" are required and must be a sequence of 1's and 8's
		SBT-sanger "locus" is required and must be a fully qualified value like "HLA-A" or "HLA-DPB1"
		SBT-NGS "locus" is required and must be a fully qualified value like "HLA-A" or "HLA-DPB1"
test-id	No	If present test-id-source must be present
test-id-source	No	If present test-id must be present
typing-test-name	Yes	Maximum size accepted is 255 characters

Direct Submission to Secure NMDP REST endpoint

1. NMDP maintains REST endpoints to perform two functions:
 - a. Validate - The Validate endpoint allows any external entity to have a “sandbox” to aid in HML development. It is an unsecured endpoint to which test messages may be sent. The sender will receive a REST response indicating successful validation or validation failure and error messages to aid in fixing submission issues.
 - b. Submit - The Submit endpoint is a secured REST endpoint that only authorized submitters can access. The endpoint performs the dual function of validating and submitting test results directly to NMDP systems. Like the Validate endpoint, it messages users with a REST response of success or failure along with detailed error messages.
2. Secure REST endpoint values are supplied upon request.
3. Sending software needs to set an HTTP header (which is a name/value pair). The name is “Authorization” and the value is the word “Bearer” followed by a space and the OKTA Refresh token.
4. The request to either the Validate or Submit endpoints requires an HTTPS POST operation with a content-type of “application/xml.” The payload is the HML (XML) message itself.
5. Security for the Submit endpoint is based on authorized users having NMDP supplied credentials (user name and password) and a valid OKTA Refresh token.

General OKTA Refresh introduction <https://Okta.Refresh.io/introduction/>

6. OKTA Refresh tokens are supplied only to institutions that have a business need to submit test results to the NMDP Be The Match Registry. An OKTA Refresh token is obtained by authorized users and is specific to their institution.
7. Third party software vendors will need to provide functionality within their software for the end user to enter the OKTA Refresh token.

Requesting Authorization as an HML Submitter

1. Institutions that wish to electronically submit test results through the NMDP Gateway must register as an authorized user. In order to be approved as an authorized user, institutions must validate a successful HML 1.0.1 test file, and send it to donorlabservices@nmdp.org.

Developer information can be found here:

<https://github.com/nmdp-bioinformatics/hml>

Schema information can be found here:

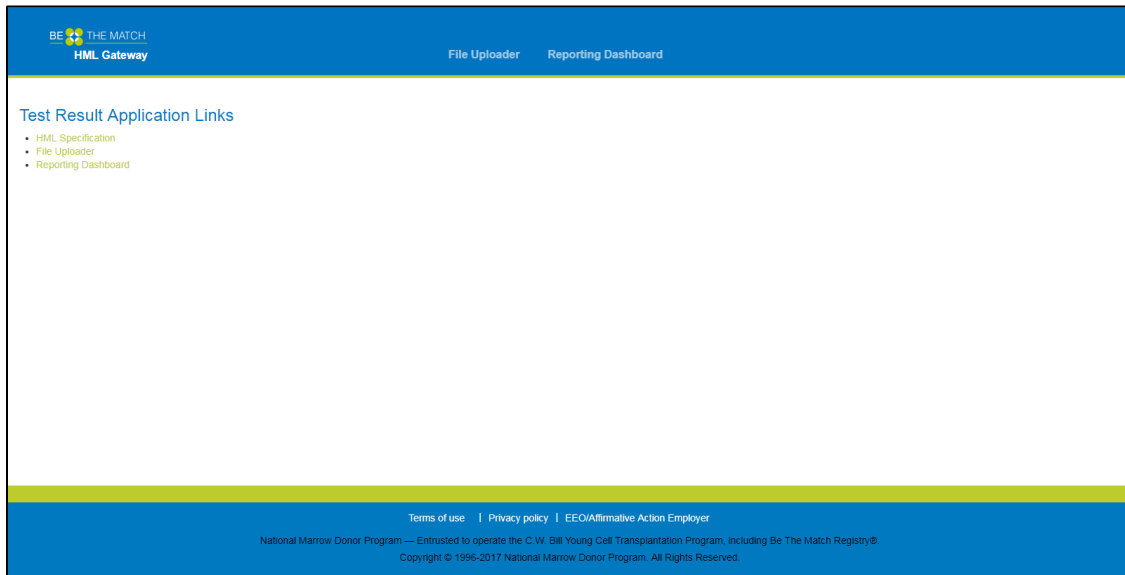
<http://schemas.nmdp.org/spec/hml/1.0.1/hml-1.0.1.xsd>

2. After an HML 1.0.1 test file is successfully validated and approved, the user must submit the following information to NMDP at donorlabservices@nmdp.org:
 - a. First and last name
 - b. Email address (if different from requester)
 - c. Phone number
 - d. Submitting institution (i.e. laboratory, registry, etc.) name
 - e. Reason for request
3. NMDP will verify information and communicate credentials directly to the requester, including user name, password, and OKTA Refresh token. All lab and TC users are required to provide this information to access the submit function of the Gateway File Uploader and/or the Submission Dashboard application.
4. Instructions for managing account credentials will be sent directly to the authorized user.
5. The OKTA Refresh token will be valid for a fixed length of time communicated to requester at the time of distribution. A new token must be requested to renew the authorization of the submitter.

The Gateway: File Uploader

Upload HML Files

1. Navigate to the Gateway Portal Login page, <https://hml.nmdp.org/>, and select File Uploader under Test Result Application Links.

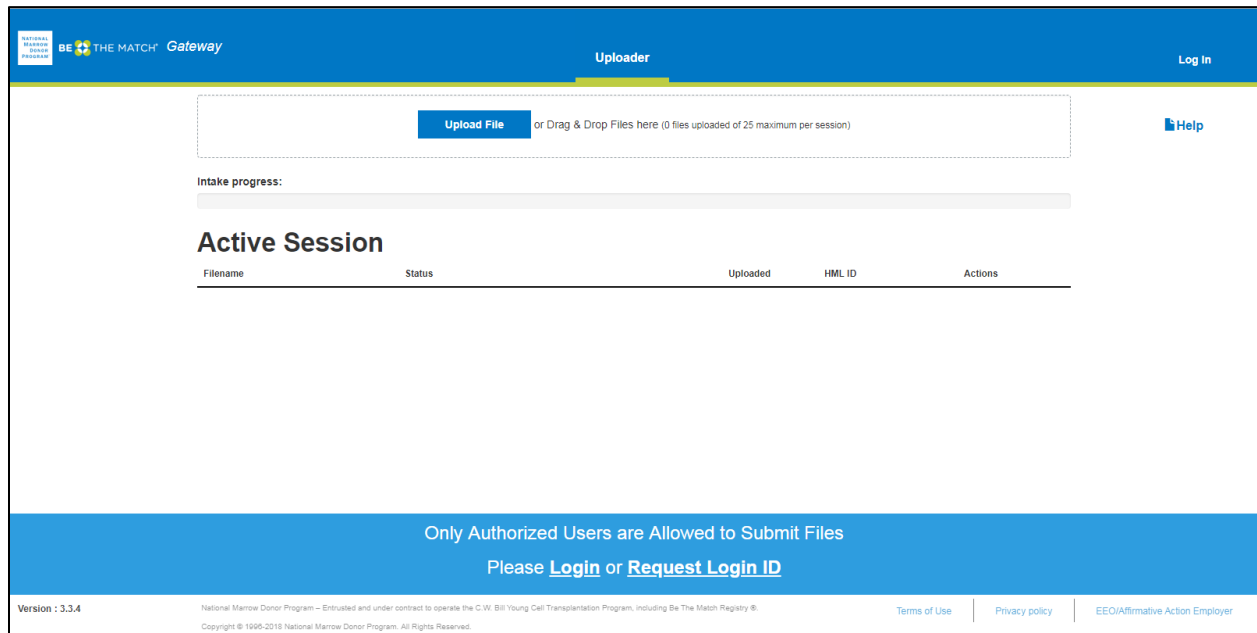


2. Enter NMDP supplied credentials to sign in as an Authorized User, or click on 'Continue as Guest' to continue to the Active Session page as a Guest User.

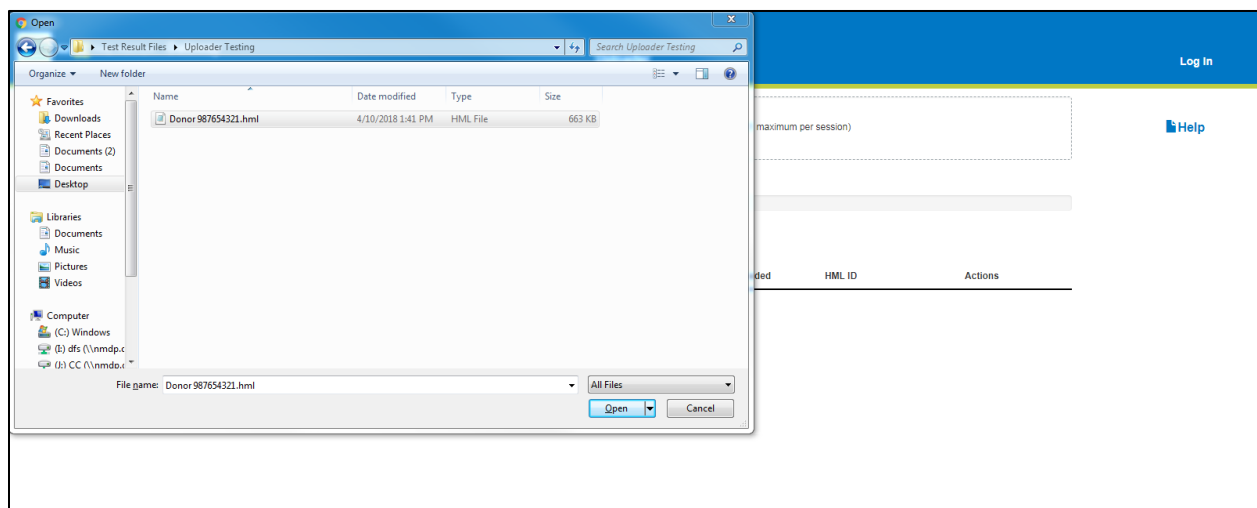
A screenshot of the Be The Match login page. At the top is the 'BE THE MATCH' logo. Below it, the text says 'Sign in to access your suite of Be The Match applications.' There are two input fields: 'Username' with the value 'User1' and 'Password' with masked characters. A 'Forgot password?' link is next to the password field. Below the fields is a link to 'National Marrow Donor Program Terms of Use'. A blue 'Sign In' button is centered. Below the button, there's a section 'Are you a Guest user?' with a 'Continue as Guest' link. At the bottom, there's a footer with 'EEO/Affirmative Action Employer' and copyright information for the National Marrow Donor Program.

Note: Actions completed as a Guest User will not be visible upon signing in as an Authorized User. **If you intend to use the File Uploader to submit test results, please ensure you're signed in before uploading files.** A banner will display at the bottom of the application prompting you to login if you're not signed in as an Authorized User. The Dashboard link located in the header is also not accessible to Guest Users.

3. Upload CSV or HML files using the 'Upload File or Drag and Drop Files here' box. Multiple files can be uploaded at one time, with up to 25 files allowed per session.



- a. Click on the blue 'Upload File' button. A file selection overlay window displays. Select the desired file(s) from your local computer and select 'Open.'



or

- b. Drag up to 25 files from your local computer and drop them into the box.

4. The file(s) will automatically upload. A progress bar will display above the Active Session table to show the intake progress. Other actions are prohibited during this time. After the file upload process is complete, the entire intake progress bar will be blue.
 - a. If successful, the 'Status' column will display "File Upload Successful." The 'Actions' column will display a 'Convert' button for CSV files,

The screenshot shows the 'Uploader' section of the BE THE MATCH Gateway. At the top, there's a blue header with the logo and 'Gateway' text. Below the header, there's a 'Log In' link. The main area has a dashed box for file upload with an 'Upload File' button and text: 'or Drag & Drop Files here (1 files uploaded of 25 maximum per session)'. Below this is a blue progress bar labeled 'Intake progress:'. Underneath the progress bar is the 'Active Session' table.

Filename	Status	Uploaded	HML ID	Actions
Sanger Converter Results.csv	File Upload Successful	2018-04-10		Convert

or a 'Validate' button for HML files.

This screenshot is similar to the previous one, showing the 'Uploader' section. The 'Active Session' table now shows an HML file upload.

Filename	Status	Uploaded	HML ID	Actions
Sanger Test Results.HML	File Upload Successful	2018-03-26		Validate

- b. If a file was uploaded that was not an HML or CSV file, a pop-up window with an 'Invalid File Type' warning message will display. This file will not show up in the Active Session table.

This screenshot shows the same 'Uploader' interface, but with a white pop-up window in the center. The pop-up has a title bar 'Warning! Invalid File Type.' with a close button (X). The message inside says: 'Some or all of the files you attempted to upload failed due to invalid file types. Valid file types are HML and CSV.' There is a blue 'Continue' button at the bottom of the pop-up. The background interface is dimmed.

Convert CSV Files

1. After a CSV file has successfully uploaded, a blue 'Convert' button will appear in the actions column. Click the 'Convert' button.

The screenshot shows the 'Gateway' interface with the 'Uploader' tab selected. At the top, there's a header with the 'NATIONAL MATCHING SYSTEM PROGRAM' logo and 'BE THE MATCH' branding. Below the header, there's a navigation bar with 'Uploader' and 'Dashboard' tabs. The main content area features an 'Upload File' button and a text prompt 'or Drag & Drop Files here (1 files uploaded of 25 maximum per session)'. Below this, there's an 'Intake progress' bar. The 'Active Session' section displays a table with the following data:

Filename	Status	Uploaded	HML ID	Actions
SSOConverter Test.csv	File Upload Successful	2018-04-11		Convert

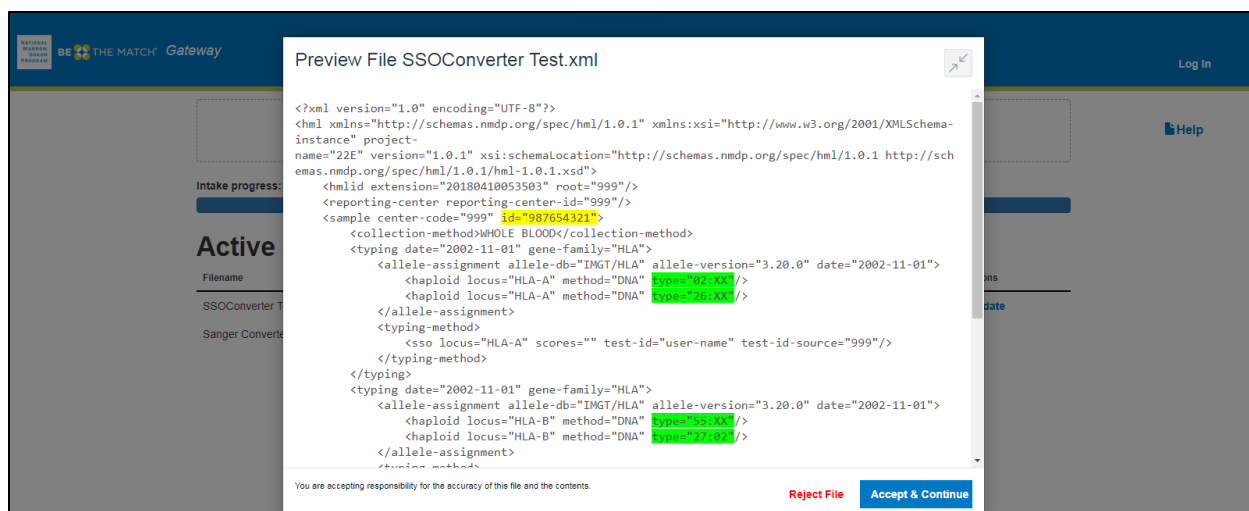
While your file is converting, running blue dots will appear in the 'Actions' column.

This screenshot shows the same 'Gateway' interface, but the 'Convert' button has been replaced by two blue dots in the 'Actions' column of the 'Active Session' table, indicating that the file is currently being converted.

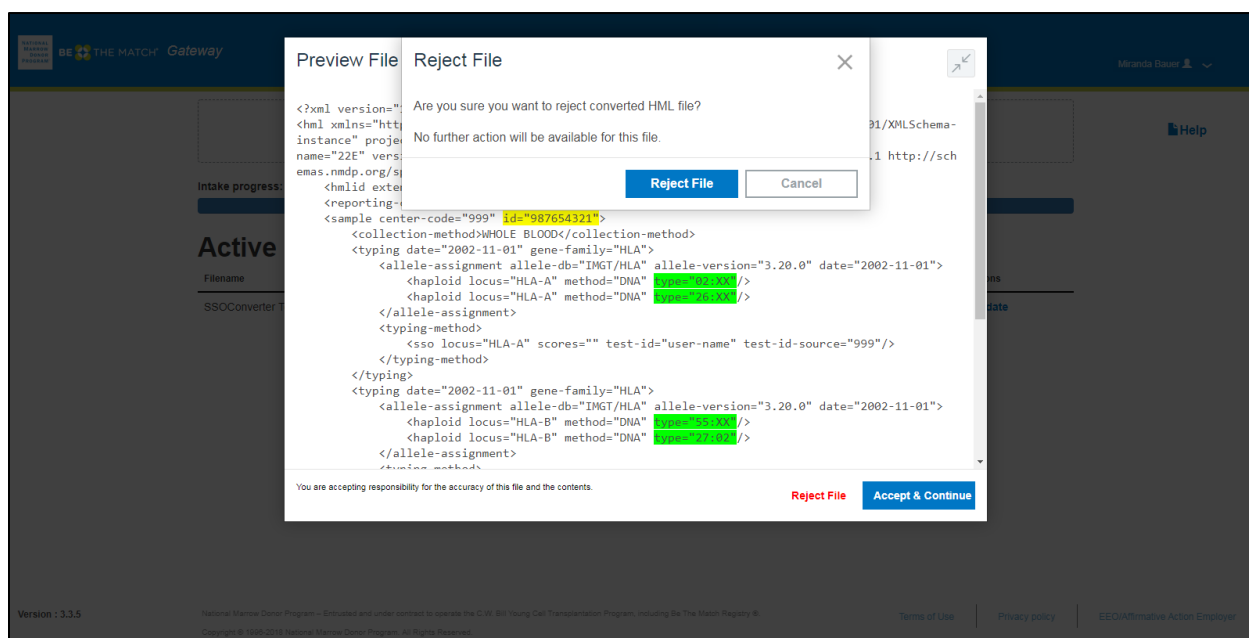
2. If the file contains at least one error, an error message will display under the 'Status' column of the Active Session table. The file conversion process will stop as soon as a single error is found, so any additional errors in the file will not be identified until the next attempt at conversion.

This screenshot shows the 'Gateway' interface with an error message displayed in the 'Status' column of the 'Active Session' table. The error message is 'Invalid: 'project name' or 'reporting center' is inconsistent'. The 'Convert' button is no longer present, and the blue dots are also gone.

3. If the file is valid CSV format, a 'Preview File' window will appear, showing the converted HML file. The subjects/sample IDs (yellow) and HLA results (green) will be highlighted. Review the content for accuracy.
 - a. If you approve the test results reported within the file, click 'Accept & Continue' at the bottom right hand corner of the 'Preview File' window. Proceed to step 3.



- b. If you do not approve the file contents, click the red 'Reject File' button. A pop-up window will display asking you to confirm the action. Selecting 'Cancel' will take you back to the Preview File screen, where you can continue the CSV file conversion process. Selecting 'Reject File' will stop the file conversion process, and you will be redirected back to the Active Session screen.



- c. The 'Status' column in the Active Session table will display "Converted HML file rejected by user," and no further actions will be available for this file. Edit the contents of the file on your local desktop as needed, and repeat the upload and convert steps.

BE THE MATCH Gateway

[Uploader](#)
[Dashboard](#)

Miranda Bauer

[Upload File](#)
or Drag & Drop Files here (1 files uploaded of 25 maximum per session)

[Help](#)

Intake progress:

Active Session

Filename	Status	Uploaded	HML ID	Actions
SSOConverter Test.xml	Converted HML file rejected by user	2018-04-11		

4. After selecting 'Accept and Continue,' the converted file will continue to display.
 - a. (Optional) Click the 'Download File' link at the bottom of the display window to download and save a copy of the converted HML file on your local desktop.
 - b. Click 'Close and Continue' to proceed.

BE THE MATCH Gateway

[Uploader](#)
[Dashboard](#)

Log In

[Upload File](#)
or Drag & Drop Files here (3 files uploaded of 25 maximum per session)

[Help](#)

Intake progress:

Active Session

Filename	Status	Uploaded	HML ID	Actions
SSOConverter Test.xml	Converted HML file rejected by user	2018-04-11		

Preview File SSOConverter Test.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<hml xmlns="http://schemas.nmdp.org/spec/hml/1.0.1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" project-name="22E" version="1.0.1" xsi:schemaLocation="http://schemas.nmdp.org/spec/hml/1.0.1 http://schemas.nmdp.org/spec/hml/1.0.1/hml-1.0.1.xsd">
  <hmlid extension="20180410053503" root="999"/>
  <reporting-center reporting-center-id="999"/>
  <sample center-code="999" id="987654321">
    <collection-method>WHOLE BLOOD</collection-method>
    <typing date="2002-11-01" gene-family="HLA">
      <allele-assignment allele-db="IMGT/HLA" allele-version="3.20.0" date="2002-11-01">
        <haploid locus="HLA-A" method="DNA" score="99.999"/>
        <haploid locus="HLA-A" method="DNA" score="99.999"/>
      </allele-assignment>
    </typing>
    <typing-method>
      <sso locus="HLA-A" scores="" test-id="user-name" test-id-source="999"/>
    </typing-method>
  </sample>
</hml>

```

Validation has not been performed yet on this file and it may contain errors.
[Download File \(526 B\)](#)
[Close & Continue](#)

5. The Active Session table will display again with your file name showing an XML extension. The 'Status' column will show "CSV successfully converted to HML." Proceed to the Validate Files section of the guide. If you're an Authorized User and want to submit the file, you may proceed to the Submit Files section.

BE THE MATCH Gateway

[Uploader](#)
[Dashboard](#)

Log In

[Upload File](#)
or Drag & Drop Files here (3 files uploaded of 25 maximum per session)

[Help](#)

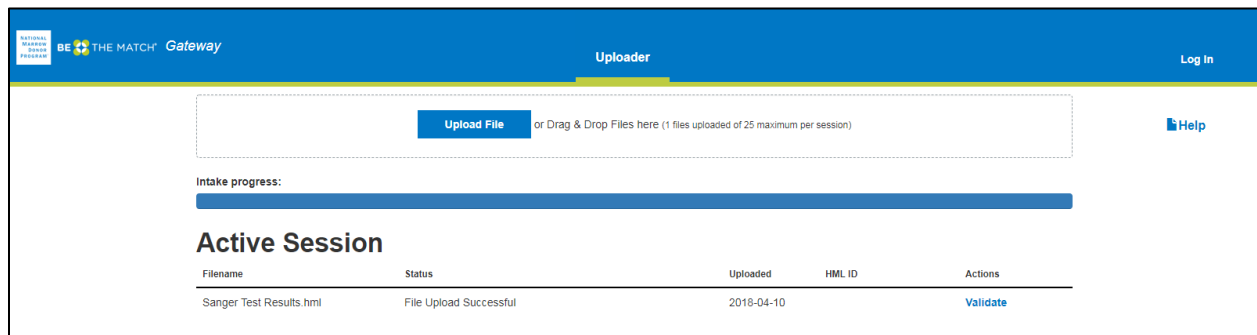
Intake progress:

Active Session

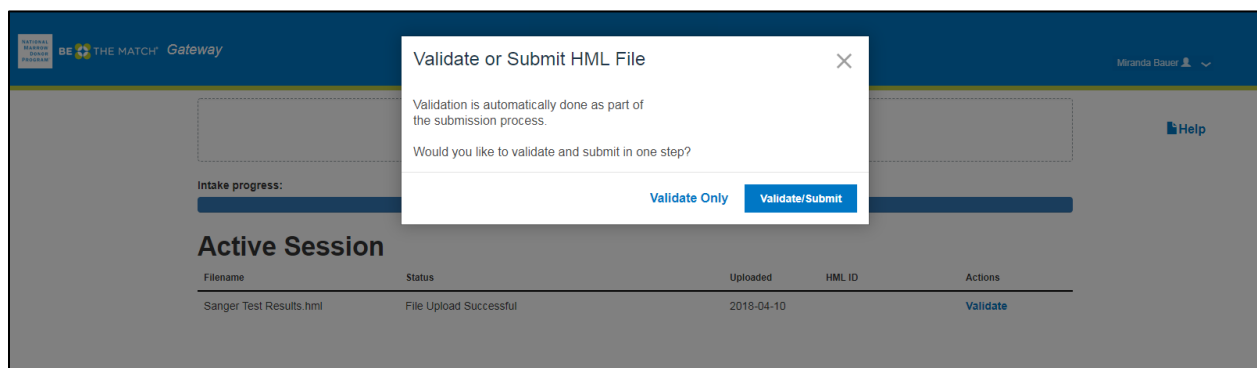
Filename	Status	Uploaded	HML ID	Actions
SSOConverter Test.xml	CSV successfully converted to HML	2018-04-10		Validate
Sanger Converter Test.xml	Converted HML file rejected by user	2018-04-10		

Validate Files:

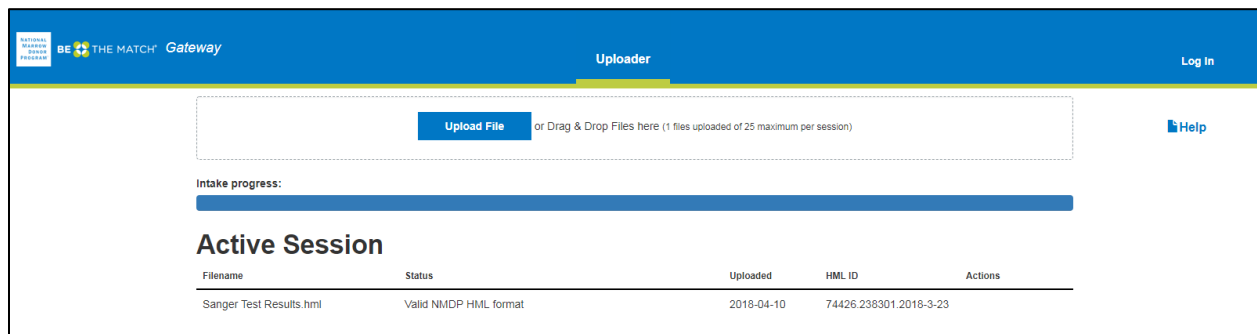
1. After an HML file is successfully uploaded or a CSV file is successfully converted, a blue 'Validate' button will appear in the 'Actions' column. Click the button to proceed.



2. A pop-up will display for Authorized Users only with a prompt to 'Validate Only' or 'Validate/Submit' in one step. Select 'Validate Only' to validate the file without submitting. The 'Validate/Submit' function will be described in the Submit Files section of the guide.



3. Upon successful completion of the 'Validate' function, the 'Status' column will display "Valid NMDP HML format."



4. If the file does not successfully validate:
 - a. For single errors, the message will be reported in the 'Status' column only. You may need to hover over the error message to see the complete text.
 - b. If the file contains multiple errors, "File contains HML error. Edit original file and upload again" will display in the 'Status' column, and a red 'View Errors' button

will appear in the 'Actions' column with the error count indicated. Click the button to see more detail on the error(s).

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BE THE MATCH Gateway

UploaderDashboard

Miranda Bauer

Upload File

or Drag & Drop Files here (2 files uploaded of 25 maximum per session)

Intake progress:

Active Session

Filename	Status	Uploaded	HML ID	Actions
0042.HML	gistring contains illegal allele format: HLA-A*03:01:01:	2018-04-11	534534-111215	
Donor 987654321 Test Results.txt	File contains HML error. Edit original file and upload again	2018-04-11	74426.238301.2018-3-...	View Errors (4)

- c. A pop-up window will display the error details and the location of the error(s) in the original file by line number. Correct the file contents using the original file before repeating the upload and validate steps.

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MARROW
DONOR
PROGRAM

BE THE MATCH Gateway

UploaderDashboard

Log In

Intake progress:

Active Session

Filename	Status	Uploaded	HML ID	Actions
Donor 987654321.txt	File contains HML error. Edit original file and upload again	2018-04-10	747227881	View Errors (2)
Sanger Test Results.html	Valid NMDP HML format	2018-04-10	74426.238301.2018-3-23	

Donor 987654321.txt (2 errors found)

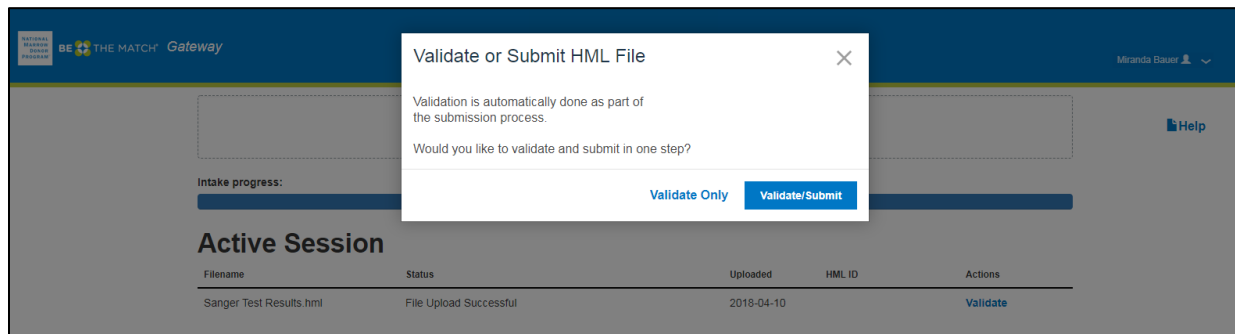
Error Location	Description
Line 6	cvc-datatype-valid.1.2.1: '03-05-2018' is not a valid value for 'date'.
Line 6	cvc-attribute.3: The value '03-05-2018' of attribute 'date' on element 'typing' is not valid with respect to its type, 'date'.

Access your original file to correct errors. Upload corrected file.

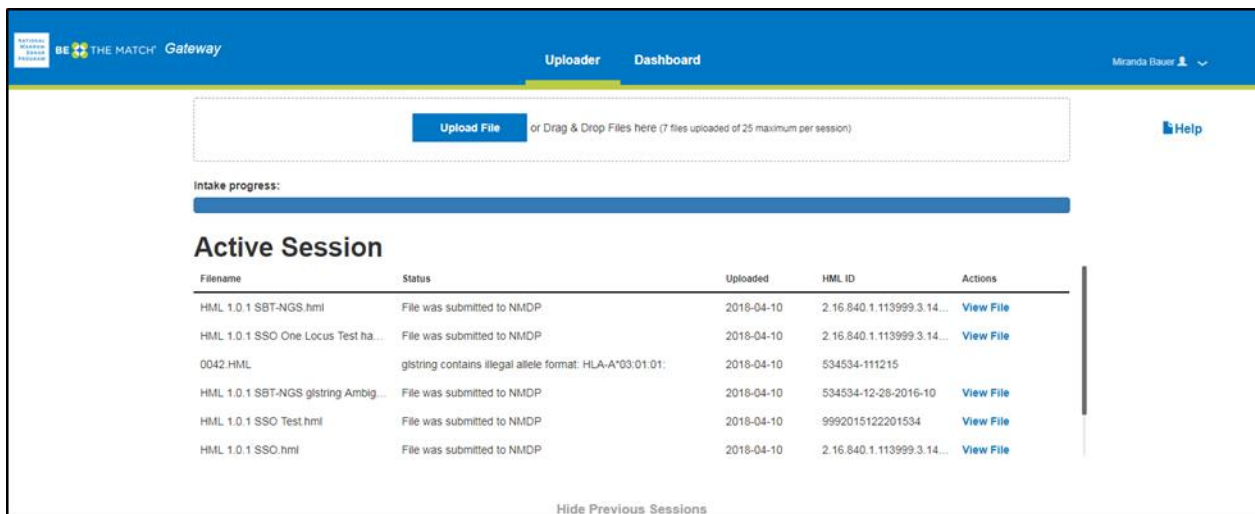
- d. No further actions can be taken on this file. Correct the errors in the original file and upload/submit again.

Submit Files

1. Input your user name and password credentials on the login screen to sign in as an Authorized User.
2. Follow the steps to upload a file or multiple files. A 'Validate' button will appear under the 'Actions' column. Click the button to proceed. A 'Validate or Submit HML File' window will pop up.
 - a. The default selection is 'Validate/Submit.' Click this button to validate and submit the file in one step. If you're confident the file will validate successfully, this is the most efficient option. If you Validate/Submit in one step, and your file fails validation, you'll have to change the HML ID extension/root combination within the original file in addition to fixing all errors reported in the 'Status' or 'Actions' columns before resubmitting.
 - b. Click 'Validate Only' to verify the HML structure and content of the file is correct. This will NOT submit the file for processing. See the Validate File section for more information on this function.



3. If the file successfully submits:
 - b. The 'Status' column will display "File was submitted to NMDP."
 - c. A 'View File' button will appear in the 'Actions' column. Selecting this button will take you to the raw file in the Gateway's Submission Dashboard.



4. If the file does not successfully submit:
 - a. For single errors, the message will be reported in the 'Status' column only. You may need to hover over the error message to see the complete text.
 - b. If the file contains multiple errors, "File contains HML error. Edit original file and upload again" will display in the 'Status' column and a red 'View Errors' button will appear in the 'Actions' column with the error count indicated. Click the button to see more detail on the error(s).

The screenshot shows the 'BE THE MATCH Gateway' Uploader interface. At the top, there's a blue header with the logo and navigation tabs for 'Uploader' and 'Dashboard'. A user profile 'Miranda Bauer' is visible in the top right. Below the header, there's a file upload area with a dashed box and a button labeled 'Upload File'. Below this is an 'Intake progress' bar. The main section is titled 'Active Session' and contains a table with the following data:

Filename	Status	Uploaded	HML ID	Actions
0042.HML	glstring contains illegal allele format: HLA-A*03:01:01:	2018-04-11	534534-111215	
Donor 987654321 Test Results.txt	File contains HML error. Edit original file and upload again	2018-04-11	74426.238301.2018-3-...	View Errors (4)

- c. No further actions can be taken on this file. Correct the errors in the original file and upload/submit again.
5. Check the Submission Dashboard for additional information on the submission status. The File Uploader application performs basic content and genomic validation. In depth genomic validation is performed by downstream NMDP processes. To confirm your file is processed successfully, please confirm the Status value in the Submission Dashboard and correct any errors reported there.

Previous Sessions

1. As an Authorized User, you may view files uploaded during your active session, along with files that were uploaded during your previous sessions. Under the Active Session table, there is a 'Show Previous Sessions' button. Select the button to display up to 25 files that were uploaded during previous sessions.

The screenshot shows the 'Be The Match Gateway' Uploader interface. At the top, there's a blue header with the logo and navigation tabs for 'Uploader' and 'Dashboard'. A user profile 'Miranda Bauer' is visible in the top right. Below the header, there's a file upload area with a blue 'Upload File' button and a note: 'or Drag & Drop Files here (0 files uploaded of 25 maximum per session)'. A 'Help' icon is on the right. The main section is titled 'Intake progress:' followed by a progress bar. Below this, the 'Active Session' section features a table with columns: Filename, Status, Uploaded, HML ID, and Actions. The table is currently empty. A 'Show Previous Sessions' button is centered below the table. At the bottom, there's a footer with version information (3.3.4), copyright details, and links for Terms of Use, Privacy policy, and EEO/Affirmative Action Employer.

Version : 3.3.4

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[Terms of Use](#) | [Privacy policy](#) | [EEO/Affirmative Action Employer](#)

2. Files uploaded in previous sessions may not be converted, validated or submitted, but you may still use the 'View File' function associated with any successful submission. This will redirect you to the raw file in the Submission Dashboard. You may also still use the 'View Errors' function to view detailed error messages associated with previously validated or submitted files.

This screenshot shows the same 'Be The Match Gateway' Uploader interface, but with the 'Show Previous Sessions' button clicked. The 'Active Session' table remains empty. Below it, a 'Hide Previous Sessions' button is visible. The 'Previous Sessions' section now displays a table with columns: Filename, Status, Uploaded, HML ID, and Actions. This table contains six rows of data, each with a 'View File' link in the Actions column. The footer information is identical to the previous screenshot.

Active Session

Filename	Status	Uploaded	HML ID	Actions
SBT-Sanger Separate Haploids.html	File Upload Successful	2018-04-10		Validate
SBT-Sanger Haploids Single Allele ...	File Upload Successful	2018-04-10		Validate
SBT-Sanger GL String.html	File Upload Successful	2018-04-10		Validate
SBT-NGS Separate Haploids.txt	File Upload Successful	2018-04-10		Validate
SBT-NGS Separate Haploids.html	File Upload Successful	2018-04-10		Validate
SBT-NGS GL String.html	File Upload Successful	2018-04-10		Validate

[Hide Previous Sessions](#)

Previous Sessions

Filename	Status	Uploaded	HML ID	Actions
HML 1.0.1 SBT-NGS.html	File was submitted to NMDP	2018-04-10	2.16.840.1.113999.3.14...	View File
HML 1.0.1 SSO One Locus Test ha...	File was submitted to NMDP	2018-04-10	2.16.840.1.113999.3.14...	View File
0042.HML	glstring contains illegal allele format: HLA-A*03:01:01:	2018-04-10	534534-111215	
HML 1.0.1 SBT-NGS glstring Ambig...	File was submitted to NMDP	2018-04-10	534534-12-28-2016-10	View File
HML 1.0.1 SSO Test.html	File was submitted to NMDP	2018-04-10	9992015122201534	View File

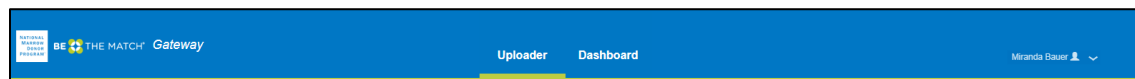
Gateway Portal: The Submission Dashboard

1. Navigate to the Gateway Portal Login page: <https://hml.nmdp.org/>
 - a. Select Reporting Dashboard under the Test Result Application Links



Or

- b. From the File Uploader application, select the 'Dashboard' link in the header at the top of the screen.



2. All HML files submitted by the user are displayed with the most recent at the top.

Reporting Dashboard

Submission History > Submission Search Results

HML Submission History

View Search Filters

HML ID: [] Filename: [] UUID: []

Sample ID: [] User Name: [] Gene Family: HLA

Project Name: [] Reporting Center: []

Start Date: 2017-02-20 End Date: 2017-04-25

Status: [] Submission Type: []

Filter Results Clear Filters

Displaying Results 100 of 1492

HML UUID	Filename/HML ID	Reporting Center	Received (Central time)	Sample Count	Audit Step	Audit Status	Audit Description	Submission Process
e56c2723-5705-4d68-b0e4-ba72795e93	2.8192.23a9f5030-00aa-4a0a-8236-69a6b255602b	789	2017-04-25 03:15:35	1	HLA_ERR	FAILED	HLA was not valid	DIRECT
52704e9e-855a-455e-b6f5-4d3c932f10a	7.1.1520115005b-644-40c1-b6db-56c910035a91	630	2017-04-25 03:15:34	1	STAR2	OK	Submitted to Star2	DIRECT
6162719e-decc-442e-8786-3a803765c25c	2016.12.16.053a6d97-42a7-4066-ba4d-905079b3ac4	751	2017-04-25 03:15:33	1	HLA_ERR	FAILED	HLA was not valid	DIRECT
931a2b46-4ba7-49f5-b2c1-742795b89f3	2016.12.20228955a-7584-4c9d-8222-2a4b76a2087f	744	2017-04-25 03:15:32	2	DONE	COMPLETE	Gateway submission complete	DIRECT
11896e5d-4961-43ed-b014-91728ea1079a	2.2016.12.204396011-c195-44c5-b8a4-9d41212b7cae	751	2017-04-25 03:15:31	1	DONE	COMPLETE	Gateway submission complete	DIRECT
20653166-7025-4207-a31f-58110b8b919	2016.12.20276a4022-4b1-4789-ba2b-153670af1d5c	633	2017-04-25 03:15:18	96	DONE	COMPLETE	Gateway submission complete	DIRECT
7ef4e6b-af66-4523-921f-4754e15856c1	2016.12.16.56858738-8a16-46bd-80a3-ad9770189e48	634	2017-04-25 03:14:56	96	STAR2	OK	Submitted to Star2	DIRECT
eb975a3-9d71-467f-9745-0e3d4095800	27.16.8942945-36bc-eb68-4731-	617	2017-04-25 03:14:47	2	STAR2	OK	Submitted to Star2	DIRECT

The NMDP assigned UUID and lab assigned Filename/HML ID are displayed. Audit Status shows the submission status, while the Audit Description gives a brief summary

HML UUID	Filename	Reporting Center	Received (Central time)	Sample Count	Audit Step	Audit Status	Audit Description	Submission Process
1ced89cb-203f-484e-a34f-6b74214f5e1b	744117758-2016-12-2	744	2016-12-02 10:25:12	610	STAR2	OK	Submitted to Star2	DIRECT
ba2fea91-c9dc-41f8-84e0-9126265a850d	747185422_2	747	2016-12-02 09:23:25	9	STAR2	OK	Submitted to Star2	DIRECT

Partial searches can be carried on HML ID, Project name and Filename fields. No wildcard characters are allowed (e.g. sbt-ngs*)

Search field validation is built into each field. Content that is invalid will be indicated in red. Content that is valid will be indicated in green or black

HML UUID	Filename	Reporting Center	Received (Central time)	Sample Count	Audit Step	Audit Status	Audit Description	Submission Process
1ced89cb-203f-484e-a34f-6b74214f5e1b	744117758-2016-12-2	744	2016-12-02 10:25:12	610	STAR2	OK	Submitted to Star2	DIRECT
ba2fea91-c9dc-41f8-84e0-9126265a850d	747185422_2	747	2016-12-02 09:23:25	9	STAR2	OK	Submitted to Star2	DIRECT

After inputting valid search criteria, click 'Filter Results.' Any file submitted that matches the selected criteria will display

Reporting Dashboard Search Fields

Field Name	Detail	Definition	Source
HML ID	<text> or <partial text>	HML message hmlid extension and root and concatenated	<hmlid
Filename	<text> or <partial text>	File name included in the HML User Upload submitted file. Not expected in a Soap submitted message. Allows partial data entry.	<property name="uploadFileName"
UUID	<text >	Unique id systematically assigned to the HML message on Submit. Returned to the user on the Upload page or, in the Soap response.	Submit web service response
Sample ID	<text >	Sample ID from the HML message	<sample id=
Username	<text>	e.g. mboomer, mrottach	
Gene Family	<dropdown list> Select Gene Family	e.g. KIR, HLA, ABO, CCR	<ns2:typing gene-family="HLA" date="2015-02-22">
Reporting Center	<text > or <partial text>	Reporting center id from the HML message	<reporting-center reporting-center-id
Project Name	<text > or <partial text>	Project Name from XML header	ns2:hml version="1.0.1" project-name="ABDR"
Start Date	<text>	Starting date from which results will be returned. If no End Date entered will return from Start Date through current date.	User data entry in format yyyy-mm-dd
End Date	<text >	End date through which results will be returned. Requires Start Date	User data entry in format yyyy-mm-dd
Status	<dropdown list> Select Status Ok Failed	Processing status	Submit web service response
Submission Type	<dropdown list> Select Submission Type	e.g. Product Submission, Test Submission	