

VIRGINIA HEALTH INFORMATION PUBLIC HEALTH REPORTING IMPLEMENTATION GUIDE

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PUBLIC HEALTH REPORTING INTRODUCTION

Virginia Health Information (VHI), is the statewide health information exchange for Virginia and provides the transport of public health-related messages to and from government entities¹ to enable healthcare entities, providers, etc. to meet Promoting Interoperability (formerly Meaningful Use) requirements. VHI currently supports submissions of the following data types through the reporting pathway: immunization, bidirectional immunization, syndromic surveillance, electronic lab reporting, cancer, rabies, interpartner messaging, vaccination/client matching data for payers' HEDIS measures, opioid overdose, and dried blood spot newborn screening.

All public health reporting submissions are transferred to the Virginia Department of Health (VDH) in a secure manner. VHI is responsible for helping organizations establish their secure connections. The content (payload) for public health messages is defined by VDH. All providers intending to electronically submit via VHI must be registered in VDH's electronic MU Registration System. VDH requires additional Memorandum of Understanding/Agreement (MOU/MOA)s for health care entities submitting immunization and syndromic surveillance data. VDH validates the message structure and content of public health reporting messages and provides corresponding MU attestation documentation based on achieved progress.

More information about public health reporting, including message content specifications for MU Stage specifications can be found on VDH's Meaningful Use website. Questions about MU can be sent to MeaningfulUse@vdh.virginia.gov.

PUBLIC HEALTH REPORTING ONBOARDING PROCESS

Onboarding to VHI's Public Health Reporting Service is a multi-step process that must be coordinated with VDH.

1. **ALL** Eligible Professionals (EPs), laboratories, health systems, etc. referred to herein as "Participant," **MUST** register with VDH to indicate the public health reporting objectives they plan to use to attest for MU.
2. VDH will provide Participants with the MOUs necessary for submitting immunization and syndromic surveillance data.

¹ Government entities include: the Virginia Department of Health (VDH), the DGS (Department of General Services), the Association of Public Health Laboratories (APHL), etc.

3. Each Participant must sign and return the VHI Public Health Reporting Agreement (in the Appendix, or can be requested by emailing phrsupport@vhi.org).
4. VDH will perform message structure validation for messages submitted via email by the Participant or the Participant’s vendor. **Message structure validation generally utilizes test (non-Protected Health Information (PHI) containing) data.**
5. While in the message structure validation stage, the Participant should set up the secure transport with VHI (either HTTPS or SFTP) in preparation for the message content validation phase. **The message content validation phase requires data from the onboarding participant’s production environment to be sent via VHI.**
6. Once structural testing is complete, VDH will approve message content validation for message sent via the secure transport provided by VHI. VDH will notify VHI and the participant (or vendor) when the message content validation step has been completed.
7. When notified to do so by VDH, VHI will coordinate with the onboarding participant to move their transmissions from the testing environment (TEST) to the production environment (PROD). VDH will change the provider status to “In Production” and supply the appropriate documentation for MU attestation activities.

SETTING UP PUBLIC HEALTH REPORTING TRANSPORT

1. Each participant must obtain an OID to identify their organization, if they do not already have one, and provide this OID to VHI. An OID is a unique identifier for the organization – it looks similar to: 2.16.840.1.113883.3.9 Your organization or vendor may already have one, if not, you can register for one here: <http://www.hl7.org/oid/index.cfm>. Currently HL7 charges \$500 per OID for nonmembers.
2. With your EHR vendor, determine the type of connection to be established – HTTPS or SFTP. See the specifications and required information for both types of transport below.
3. Submit your signed Public Health Reporting Agreement, identify the type of transport you wish to set up, and supply the required information to phrsupport@vhi.org.
4. VHI will issue the appropriate credentials and information to connect to the TEST endpoint at VDH. Although you or your vendor may test connectivity at any time, **VDH must authorize the participant to utilize the HIE for message content testing** (see step 6 above).
5. Once content testing is complete and VDH instructs, VHI will provide the onboarding participant the PROD information.

HTTPS SPECIFICATION

- VHI provides two endpoints for submission of all types of public health report data using HTTPS – one endpoint for TEST and one endpoint for PROD

- The POST request is used to submit the report data; the report (HL7 message data) is submitted in the **body** of the POST request.
- Customized HTTP headers are used to indicate to VHI who the submitting organization is and what type of report is being submitted.
- The following custom headers must be provided on the HTTPS request for public health report processing to function properly:
 - **Css-custom-oid:** OID identifying the sending organization. This OID must be acquired by the onboarding participant or vendor and provided to VHI during the onboarding process.
 - **Css-transaction-id:** Unique identifier provided by the submitting entity to identify the transaction for audit and response purposes. Each request provided to VHI must contain a unique identifier within the scope of the organization making the request.
 - **Css-phr-type:** Indicates the type of public health report being submitted.

Valid Report Types for the *Css-phr-type* header are:

- **CANREG** - Cancer Registry
- **COVID19_Visits**
- **ELR** – Electronic Lab Reporting
- **ELReICR** – Electronic Case Reporting
- **ELR_Flatfiles** – to report ELR via flatfile
- **ELR_eICR**– to report via C-CDA format files
- **IMM** – Immunization
- **Imm_HealthPlan** - HEDIS (for payers/health plans only)
- **IMUNZQUERY** – Bidirectional Immunization (only via HTTPS)
- **NBSORDERS**
- **NBSORDERS_ENCRYPT** - Newborn Screening lab orders
- **NBSRESULTS_RESP** – Newborn Screening lab results
- **SYND** - Syndromic Surveillance

Organization authentication and authorization is provided by the VHI issued client certificate. This certificate must be provided as part of the HTTPS POST request to VHI on every transaction. VHI forwards acks and nacks from VDH indicating successful (or unsuccessful) messages

SETTING UP HTTPS TRANSPORT

1. Send a request to phrsupport@vhi.org to set up a HTTPS account for your organization. You **must** include the following items in your request:
 - A signed VHI Public Health Reporting Agreement
 - Your organization’s OID (vendor hubs should have their own OID)
 - Your organization’s physical address

- Client generated private key and certificate signing request (CSR)
 - Peer IP address(es) from which your organization will send data
 - Contact information – Name, email and phone number, for the appropriate technical resource(s)
2. VHI will execute and return the Public Health Reporting Agreement
 3. VHI will issue URL's for Test and Prod
 4. VHI will issue client specific public cert to be used
 5. Once you have a test message with the custom headers ready, please notify VHI at phrsupport@vhi.org when you are ready to verify connectivity.
 6. Estimated timeline for creating public cert after receipt of CSR is 3- 5 days

HTTPS – TIPS AND FAQs

- Uses a HTTPS POST request with custom headers
- Here are the custom headers
 - ★ **Css-custom-oid** Your organization's OID that you provide to VHI
 - ★ **Css-transaction-id** Unique identifier that can be used for auditing, monitoring, or troubleshooting transactions.
 - ★ **Css-phr-type** the type of report/data. Valid values are
 - **CANREG** - Cancer Registry
 - **COVID19_Visits**
 - **ELR** – Electronic Lab Reporting
 - **ELReICR** – Electronic Case Reporting
 - **ELR_Flatfiles** – to report ELR via flatfile
 - **ELR_eICR**– to report via C-CDA format files
 - **IMM** – Immunization
 - **Imm_HealthPlan** - HEDIS (for payers/health plans only)
 - **IMUNZQUERY** – Bidirectional Immunization (only via HTTPS)
 - **NBSORDERS**
 - **NBSORDERS_ENCRYPT** - Newborn Screening lab orders
 - **NBSRESULTS_RESP** – Newborn Screening lab results
 - **SYND** - Syndromic Surveillance
- The HL7 message data are in the **body** of the request, **not** the headers
- VHI will provide you an endpoint for VDH content TEST. You need to submit data from **YOUR PRODUCTION ENVIRONMENT** for content testing. After VDH validates your message content and approves you for production, we will provide an endpoint for VDH PROD.

- Each type of data must be validated before you are approved to send to PROD. This means you may have data feeds for both TEST and PROD at the same time depending on where you are in content validation and testing with VDH.
 - VHI forwards acks and nacks from VDH indicating successful (or unsuccessful) messages.
 - PHRS uses port 443 – be sure your firewall allows this connection.
 - What we need from you – your OID and Peer IP Address and CSR
 - What we provide to you – SSL certificate and TEST/PROD Url endpoints
1. **Do I need an SSL Certificate?** Yes, VHI will issue you a certificate once you provide us with an OID, IP Address and CSR.
 2. **What is an OID and where can I get one?** An OID is a unique identifier for your organization – it looks something like this: 2.16.840.1.113883.3.9 Your organization may already have one, if not, you can register for one here: <http://www.hl7.org/oid/index.cfm>. Currently HL7 charges \$500 per OID to non-members.
 3. **How do I create custom headers?** Header fields are colon-separated name-value pairs in clear-text string format, terminated by a carriage return (CR) and line feed (LF) character sequence. How you accomplish this depends upon your software. The most common error is forgetting the colon.
 4. **I've installed my certificates, what do I need to do next?** If you have a test message with the customized headers ready, you can test your connectivity by sending a message to the test endpoint. **Please notify VHI at phrsupport@vhi.org & your VDH contact before sending a test message.** You can also test connectivity using telnet or an internet browser. If telnet does not work, you most likely have a firewall issue.
 5. **How will I know if I have connected successfully?** If you receive an ack, you have connected successfully with a properly formatted HL7 message. If you receive a nack, you have connected successfully, but your message (in the body) is not formatted correctly per the VDH specs.
 6. **What is this HTTPS 500 error?** This most often means that your certificates are not installed correctly or that your headers are not formatted correctly – see Q 11.
 7. **What if I have questions about the HL7 message content, or my MU attestation status or MU documentation?** Use your VDH contacts for MU questions. You should already be working with them on validating your message structure using test data sent to them via email.
 8. **Can I test my headers before I send a message through?** Httpbin.org/post lets you send an HTTP Post request and returns your request so you can verify it is properly formatted. Here is a response from a properly formatted ELR message:

```
{
  "args": {},
  "data": "MSH|^~\&|QA^1.234.1^ISO|SAMPLE
LABORATORY^34D0932172^CLIA|VDHELRL|VDH^2.16.840.1.113883.3.3556^ISO|20140101210443||ORU
^R01^ORU_R01|@No-CC_1400226988|P|2.5.1|||AL|NE|||PHLabReport-
```

```
Ack^2.16.840.1.114222.4.10.3^ISO\nSFT|ORION HEALTH|4.1.1|RHAPSODY
CONNECT|0100101||20120926\nPID|1|ABC-458^^^SAMPLE
LABORATORY&1.234.1&ISO^MR||LAST^FIRST||19000115|F||1234 MAIN
ST^CITY^VA^16850|||||0\nPV1|1|O|||||12345^LAST^FIRST|||||||OS|||||||
||||201312310000\nORC|RE||Z1234567^SAMPLE
LAB^1.234.1^ISO|||||||1234567890^LAST^FIRST^MIDDLE^^^^^CMS&2.16.840.1.113883.19.4.6&ISO^
^^^NPI|^WPN^PH^^1^703^1234567|||||SAMPLE LAB|1234 MAIN ST
^CITY^VA^24018|^WPN^PH^^1^703^1234567|123 MAIN STREET^CITY^VA^16850\nOBR|1||
Z1234567^SAMPLE^1.234.1^ISO|13955-0^Hepatitis C virus Ab [Presence] in Serum by
Immunoassay^LN^HCABS^Hepatitis C Ab
Screen^L||201301011155|||||201301011155|1234567890^LAST^FIRST^MIDDLE^^^^^CMS&2.16.8
40.1.113883.19.4.6&ISO^^^NPI|^WPN^PH^^1^703^1234567||123L34567890|
Z1234567|201301011155|SP|F|HBABC&HCABS|||||3978\nOBX|1|CWE|13955-0^Hepatitis C virus
Ab [Presence] in Serum by Immunoassay^LN^HCAB^Hepatitis C Ab Screen^L|1|11214006^(Note) Reactive
Screen^SCT^^^^^(Note) Reactive Screen||NEG|||F||201301011155||123^FAKE^FAKE
FAKE^^^^^CLIA&1.3.6.2.3.0.0000.0.1234.1&ISO^^^EN||201301011155||FAKE LAB
^L^^^^CLIA&1.3.6.2.3.0.0000.0.1234.1&ISO^XX^^^34D1234567|123 MAIN STREET-Ste.
000^CITY^VA^16850\nNTE|1|L|Results
checked\nSPM|1|^T1610713&FAKELAB&1.234.1&ISO||119364003^Serum specimen
(specimen)^SCT|||||||201312310000|201312310000",
"files": {},
"form": {},
"headers": {
  "Accept-Encoding": "gzip,deflate",
  "Connection": "close",
  "Content-Length": "1567",
  "Content-Type": "application/soap+xml;charset=UTF-8;action=\urn:ReceiveELR\"",
  "Host": "httpbin.org",
  "Css-Custom-Oid": "1.3.6.1.4.1.39899",
  "Css-Phr-Type": "ELR",
  "CssMedfx-Transaction-Id": "e835bfdc-0b92-4f32-bab0-180eff347a72",
  "User-Agent": "Apache-HttpClient/4.1.1 (java 1.5)",
  "X-Request-Id": "52b49d0d-f944-4fba-8a1c-26c8c01a3925"
},
"json": null,
"origin": "174.79.162.2",
"url": "http://httpbin.org/post"
}
```

9. **Do you have a sample message that processes correctly?** Yes, here an ELR message:

```
POST https://test.crisphealth.org/[yourorgname]/vhi/phr: 443 HTTP/1.1
Accept-Encoding: gzip,deflate
Content-Type: application/soap+xml;charset=UTF-8;action="urn:ReceiveELR"
Css-custom-oid: 1.2.3.4.5.
Css-phr-type: ELR
Css-transaction-id: e835bfdc-0b92-4f32-bab0-180eff347a70
Content-Length: 1567
```


Host: [https://test.crisphealth.org/\[yourorgname\]/vhi/phr:443](https://test.crisphealth.org/[yourorgname]/vhi/phr:443)

Connection: Keep-Alive

User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

```

MSH|^~\&|QA^1.234.1^ISO|SAMPLE
LABORATORY^34D0932172^CLIA|VDHELRL|VDH^2.16.840.1.113883.3.3556^ISO|2014010121044
3||ORU^R01^ORU_R01|@No-CC_1400226988|P|2.5.1|||AL|NE|||PHLabReport-
Ack^^2.16.840.1.114222.4.10.3^ISO
SFT|ORION HEALTH|4.1.1|RHAPSODY CONNECT|0100101||20120926
PID|1||ABC-458^^^SAMPLE
LABORATORY&1.234.1&ISO^MR||LAST^FIRST||19000115|F||1234                MAIN
ST^CITY^VA^16850|||0
PV1|1|O|||12345^LAST^FIRST|||OS|||201312310000
ORC|RE||Z1234567^SAMPLE
LAB^1.234.1^ISO|||1234567890^LAST^FIRST^MIDDLE^^^^^CMS&2.16.840.1.113883.19.
4.6&ISO^^^NPI|^WPN^PH^^1^703^1234567|||SAMPLE LAB|1234 MAIN ST
^CITY^VA^24018|^WPN^PH^^1^703^1234567|123 MAIN STREET^CITY^VA^16850
OBR|1|| Z1234567^SAMPLE^1.234.1^ISO|13955-0^Hepatitis C virus Ab [Presence] in Serum by
Immunoassay^LN^HCABS^Hepatitis C Ab
Screen^L||201301011155|||201301011155||1234567890^LAST^FIRST^MIDDLE^^^^^CM
S&2.16.840.1.113883.19.4.6&ISO^^^NPI|^WPN^PH^^1^703^1234567||123L34567890|
Z1234567||201301011155||SP|F|HBABC&HCABS|||3978
OBX|1|CWE|13955-0^Hepatitis C virus Ab [Presence] in Serum by
Immunoassay^LN^HCAB^Hepatitis C Ab Screen^L|1|11214006^(Note) Reactive
Screen^SCT^^^^^(Note) Reactive Screen||NEG|||F||201301011155||123^FAKE^FAKE
FAKE^^^^^CLIA&1.3.6.2.3.0.00000.0.1234.1&ISO^^^EN||201301011155||FAKE LAB
^L^^^^CLIA&1.3.6.2.3.0.00000.0.1234.1&ISO^XX^^34D1234567|123 MAIN STREET-Ste.
000^CITY^VA^16850
NTE|1|L|Results checked
SPM|1|^T1610713&FAKELAB&1.234.1&ISO||119364003^Serum                specimen
(specimen)^SCT|||201312310000|201312310000

```

10. Who do I contact in case I have problems connecting? phrsupport@vhi.org

11. What do I do after making a successful connection? VDH will notify you when your message is approved to be sent through VHI for content validation. After your content has been validated, you will get a PROD endpoint. If you have any problems with your public health transporting service connection, contact phrsupport@vhi.org during regular business hours (M-F 9-5 EST).

SFTP SPECIFICATION

- When you SFTP into VHI, you will be presented with 2 directories:
 - ★ PROD
 - ★ TEST
- Within each directory, you will see 3 folders:
 - **PHR-in** – input directory – where you drop your HL7 files.
 - **PHR-out** – output directory – for responses (acks/nacks) or messages from VDH
 - **PHR-err** – error directory – for other errors
- All public health reporting files are placed in the same folder (in)
- Each filename must be formatted with the **PHR type** and a **Transaction ID**
- **VALID PHR types** are:
 - **CANREG** - Cancer Registry
 - **COVID19_Visits**
 - **ELR** – Electronic Lab Reporting
 - **ELReICR** – Electronic Case Reporting
 - **ELR_Flatfiles** – to report ELR via flatfile
 - **ELR_eICR** – to report via C-CDA format files
 - **IMM** – Immunization
 - **Imm_HealthPlan** - HEDIS (for payers/health plans only)
 - **IMUNZQUERY** – Bidirectional Immunization (only via HTTPS)
 - **NBSORDERS**
 - **NBSORDERS_ENCRYPT** - Newborn Screening lab orders
 - **NBSRESULTS_RESP** – Newborn Screening lab results
 - **SYND** - Syndromic Surveillance
- **Transaction ID** is a unique identifier provided by the submitter to identify the transaction for audit and response purposes
- **The filename must be formatted as: {phr-type}~{transaction-id}.extension**
 - The extension of the file name CANNOT be .out or .err
 - Any other extension will work. Ex. .hl7, .txt, .in, etc.
 - Example filenames:
 - IMM~B4E1682D-BDB8-401B-9005-5A78FAB33FAA.txt
 - SYND~AA3719193.hl7

SETTING UP SFTP TRANSPORT

1. Send a request to phrsupport@vhi.org to create an SFTP account for your facility. You must include the following items in your request:
 - An executed VHI Public Health Reporting Agreement
 - Your facility's OID (vendor hubs should have their own OID)
 - Your organization's Physical Address

- All **public** IP addresses of the server(s) uploading the SFTP Messages (all need to be received so firewall permissions can be installed or you will receive error messages)
 - Contact information – Name, email and phone number, for the appropriate technical resource(s)
2. VHI will execute and return the Public Health Reporting Agreement
 3. VHI will send you a Username, Password and the Hostname and Port via secure email
 4. Client to log in to MFT site change password and set up 2FA
 - a. This is required prior to using the SFTP function of the account or the password will fail on attempting to reach the SFTP server.
 5. Once you have a test message ready, please notify VHI at phrsupport@vhi.org when you are ready to test connectivity.

SFTP-TIPS AND FAQs

- Information we need from you to set up your account:
 - Organization Name
 - Organization OID
 - Public IP Address of server uploading SFTP Messages
- Here is what we will provide to you when your account is created:
 - Username & Password
 - MFT URL
 - Hostname & Port with Test and PROD directories
- What you need to know about submitting your public health reporting files:
 - When you SFTP into VHI, you will be presented with 2 directories:
 - PROD
 - TEST
 - Within each directory, you will see 3 folders:
 - **PHR-in** – input directory – where you drop your HL7 files.
 - **PHR-out** – output directory – for responses (acks/nacks) or messages from VDH
 - **PHR-err** – error directory – for other errors
 - **All** public health reporting files are placed in the **same** folder (in)
 - Each filename **must** be formatted with the PHR type **and** a Transaction ID
 - VALID PHR types are:
 - **CANREG** - Cancer Registry
 - **COVID19_Visits**
 - **ELR** – Electronic Lab Reporting
 - **ELReICR** – Electronic Case Reporting
 - **ELR_Flatfiles** – to report ELR via flatfile
 - **ELR_eICR**– to report via C-CDA format files

- **IMM** – Immunization
 - **Imm_HealthPlan** - HEDIS (for payers/health plans only)
 - **IMUNZQUERY** – Bidirectional Immunization (only via HTTPS)
 - **NBSORDERS**
 - **NBSORDERS_ENCRYPT** - Newborn Screening lab orders
 - **NBSRESULTS_RESP** – Newborn Screening lab results
 - **SYND** - Syndromic Surveillance
- Transaction ID is a unique identifier provided by the submitter to identify the transaction for audit and response purposes
- The filename **must** be formatted as: **{phr-type}~{transaction-id}.extension**
 - The PHR Type is CASE SENSITIVE
 - The extension of the file name **CANNOT** be **.out** or **.err**
 - Any other extension will work. Ex. .hl7, .txt, .in, etc.
 - Example filenames:
 - ELR~1234567890.in
 - IMM~B4E1682D-BDB8-401B-9005-5A78FAB33FAA.txt
 - SYND~AA3719193.hl7
 - COVID-19 example filenames:
 - ELR~B4E1682D-BDB8-401B-9005-5A78FAB33FAA.hl7
 - ELR_Flatfiles~AA3719193.txt
- Each type of data must be validated for structure (via email using test data with VDH) before you are approved to send data to VDH for content testing in TEST. Then, each type of data must be approved to move into PROD. This means you may have SFTP accounts for both TEST and PROD at the same time depending on where you are in content validation and testing with VDH.
 - VHI forwards acks and nacks from VDH indicating successful (or unsuccessful) HL7 message processing – these will be in the **out** directory.
 - SFTP uses port 22– be sure your firewall allows this connection
1. **What is an OID and where can I get one?** An OID is a unique identifier for your organization – it looks something like this: 2.16.840.1.113883.3.9 Your organization may already have one, if not, you can register for one here: <http://www.hl7.org/oid/index.cfm>. Currently HL7 is charging \$500 per OID for nonmembers. **It takes about one business day to receive your OID via email.**
 2. **Can my organization re-use an existing OID?**
 3. Most vendor hubs (and some larger organizations) have an existing OID. There is the option to utilize an existing OID by adding an extension, or “sub OID”, for each connection (e.g. multiple facilities). For (fake) example, if your vendor's OID is 2.16.667.1.145683.3.7433, then you could add an extension of .1 for example, making it 2.16.840.1.145683.3.7433.1. It is up to you to determine what is best for your organization.
 4. **How will I know if I have connected successfully? Please notify us at phrsupport@vhi.org before sending a test message.** Check the out directory. If you receive an ack, you have connected

successfully with a properly formatted HL7 message. If you receive a nack, you have connected successfully, but your HL7 message is not formatted correctly per the VDH specs. If you do not receive an ack or nack, check the err directory for any other errors.

5. **What if I have questions about the HL7 message content, or my MU attestation status or MU documentation?** Use your VDH contacts for MU questions. You should already be working with them on validating your message structure using test data sent to them via email.
6. **Who do I contact in case I have problems connecting?** phrsupport@vhi.org
7. **What do I do after making a successful connection?** VDH will notify you when your message is approved to be sent through VHI for content validation. After your content has been validated, you will get a PROD hostname/port. If you have any problems with your public health transporting service connection, contact phrsupport@vhi.org during regular business hours (M-F 9-5 EST).
8. **What if I'm already sending data directly to VDH?** All existing direct connections to VDH will be transferred to VHI. Generally, data are sent to the TEST folder for a period of time until VDH verifies that the data can be sent to the PROD folder.
9. **This is my first time attempting to log in with credentials but I'm getting a time out error. What is the cause and resolution?** This error usually occurs when you are attempting to access from an IP addresses that firewall permissions have not been established for. Please send phrsupport@vhi.org all of the public IP addresses of the server(s) SFTP messages will be sent from.

OTHER RESOURCES

Still have questions? Also included in this Guide are FAQ sheets for both types of transport, as well as a guide with instructions for registering an HL7 OID. Other questions about transport/connectivity can be sent to phrsupport@vhi.org. MU questions and questions about the data standards should be directed to meaningfuluse@vdh.virginia.gov.

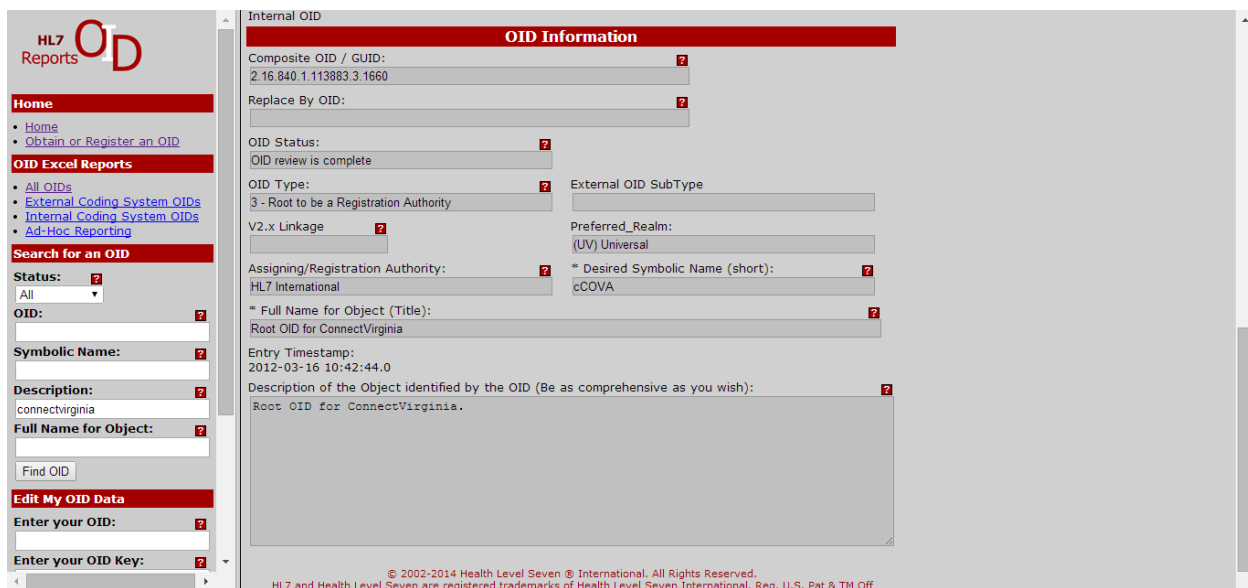
OID Instructions

VDH and VHI recommend using HL7.org to get your site's OID.

<http://www.hl7.org/oid/index.cfm> ***It takes about one business day to receive your OID via email**** You must purchase a coupon for an OID and create a user account in the next steps.

Follow the on-screen instructions for Submitter Information, Contact Information, and Responsible Body Portions.

Register for an Internal OID



The screenshot shows the 'Internal OID' registration form. The form is titled 'OID Information' and contains the following fields:

- Composite OID / GUID: 2.16.840.1.113883.3.1660
- Replace By OID:
- OID Status: OID review is complete
- OID Type: 3 - Root to be a Registration Authority
- External OID SubType:
- V2.x Linkage:
- Preferred Realm: (UV) Universal
- Assigning/Registration Authority: HL7 International
- * Desired Symbolic Name (short): cCOVA
- * Full Name for Object (Title): Root OID for ConnectVirginia
- Entry Timestamp: 2012-03-16 10:42:44.0
- Description of the Object identified by the OID (Be as comprehensive as you wish): Root OID for ConnectVirginia.

At the bottom of the form, there is a copyright notice: © 2002-2014 Health Level Seven International. All Rights Reserved. HL7 and Health Level Seven are registered trademarks of Health Level Seven International, Reg. U.S. Pat & TM Off.

The OID Type should be 3 - Root to be a Registration Authority (this will allow you to create sub OIDs if you need other OIDs for different parts of your organization)

The External OID Sub Type and V2.x Linkage fields can remain blank

Preferred Realm should be (UV) Universal

Desired Symbolic Name – a short version of a name, something to identify you i.e. We could have chosen “VHI” as well.

Full name – the complete name of your Organization.

Description can be “Root OID for [Your Organization]”

****It takes about one business day to receive the email with your OID****