

*One*HealthPort

ISO OBJECT IDENTIFIERS FOR OHP

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1 PRIVATE ENTERPRISE NUMBERING

OneHealthPort has registered the following ISO Object Identifier with IANA.org:

OID-IRI Notation: 1.3.6.1.4.1.38630

ASN.1 Notation: {iso(1) identified-organization(3) dod(6) internet(1) private(4) enterprise(1) onehealthport(38630)}

1.1 IDENTITY SERVICE

The OneHealthPort Identity Service has been operational for ten years as a community registration authority and private certificate authority. The service vets the identity of healthcare providers or healthcare trading partner organizations and their users for organization level identifiers and individual user identities. The OneHealthPort Identity Service does not currently enumerate OIDs for trading partners because historically the systems of relying partners were not capable of consuming the OID structure. A private number convention, the OneHealthPort Organization Identifier (OrgID), of nine alphanumeric characters is currently used but can be mapped to an OID structure if the trading community is ready to support that convention. The OneHealthPort OrgID is currently cross-walked to an OID structure in the OneHealthPort HIE for in-state support of current identifiers and external use of the OID standard for external HIE to HIE messages.

Subarc OID: 1.3.6.1.4.1.38630.1

ASN.1 Notation: {iso(1) identified-organization(3) dod(6) internet(1) private(4) enterprise(1) onehealthport(38630) identityservice(1)}

1.2 HEALTH INFORMATION EXCHANGE

Health Information Exchanges are logical groupings of trading partners securely exchanging clinical and business documents and transactions.

Subarc OID: 1.3.6.1.4.1.38630.2

ASN.1 Notation: {iso(1) identified-organization(3) dod(6) internet(1) private(4) enterprise(1) onehealthport(38630) healthinformationexchange(2)}

1.2.1 HOSTED EXCHANGES

OneHealthPort hosts multiple exchanges for the health care vertical.

Subarc OID: 1.3.6.1.4.1.38630.2.1

ASN.1 Notation: {iso(1) identified-organization(3) dod(6) internet(1) private(4) enterprise(1) onehealthport(38630) healthinformationexchange(2) exchanges(1)}

Trading Partner	Name	OID
OneHealthPort (OHP) HIE	ohp hie	1.3.6.1.4.1.38630.2.1.1
National Renal Administrators	nraa hie	1.3.6.1.4.1.38630.2.1.2

Association (NRAA) HIE		

1.2.2 TRADING PARTNER ORGANIZATIONS

Trading Partner organizations require a hierarchy in order to attribute data or reports to multiple levels of an organization. Attribution is essential for quality reports and analysis of root causes or locations of data trends. Since meta data provided in the SOAP headers of many healthcare transactions with repositories is used to augment analysis of data from different sources, multiple layers of enumeration allows attributes to define parent and child organizations but also source systems at either level. Source system analysis allows for vendor and Trading Partner feedback to correct data omissions or data quality issues at the user and system level.

In the National Health Information Network (NHIN) Authorization Framework v3.0 the Attribute Statement describes the various identifiers. OneHealthPort has enumerated to support this structure:

3.2.2 Attribute Statement (from NHIN Authorization Framework Specification v 3.0)

The <AttributeStatement> element describes a statement by the SAML authority asserting that the requesting user is associated with the specified attributes. The <AttributeStatement> is required to contain <Attribute> elements as defined by the OASIS XSPA profile of SAML and described in the sections that follow.

The NHIN defines the use of the following 8 attributes in the saml:AttributeStatement (use of additional attributes is allowed, but not defined, by this specification):

1. Subject ID - OneHealthPort Security Officer
2. Subject Organization – HIE name
3. Subject Role
4. Purpose Of Use
5. Home Community ID = **specific Exchange identifier (OHP HIE or NRAA HIE)**
6. Organization ID = **tradingPartner or tradingPartner plus tpChild**
7. Resource ID (Optional) = **vendorSystem**
8. National Provider Identifier (Optional)

The value on the Subject ID and Subject Organization attributes shall be a plain text description of the user's name (not user ID) and organization, respectively. These are primarily intended to support auditing.

- a. Subarc OID: 1.3.6.1.4.1.38630.2.1.1 - **OneHealthPort HIE**

ASN.1 Notation: {iso(1) identified-organization(3) dod(6) internet(1) private(4) enterprise(1) onehealthport(38630) healthinformationexchange(2) exchanges(1) tradingPartner (16) tpChild (9) vendorSystem (0)}

Trading Partner	OHP OrgID	OID
WA St HCA - Medicaid	b4vi9600	1.3.6.1.4.1.38630.2.1.1.1
PTSO of Washington	1ce98k00	1.3.6.1.4.1.38630.2.1.1.2
Yakima Neighborhood Health Services	2793uw00	1.3.6.1.4.1.38630.2.1.1.2.1
Family Health Centers	wtg5ji00	1.3.6.1.4.1.38630.2.1.1.2.2
Neighborcare Health	or6yp000	1.3.6.1.4.1.38630.2.1.1.2.3
Health Point CHC	0p94x700	1.3.6.1.4.1.38630.2.1.1.2.4
Country Doctor	bw3p5x00	1.3.6.1.4.1.38630.2.1.1.2.5
Group Health Cooperative	wcap4r00	1.3.6.1.4.1.38630.2.1.1.3

NorthShore Medical Group	fof35x00	1.3.6.1.4.1.38630.2.1.1.4
Virginia Mason Medical Center	ccm55b00	1.3.6.1.4.1.38630.2.1.1.5
Pathology Associates Medical Lab (PAML)	fhsqxx00	1.3.6.1.4.1.38630.2.1.1.6
Skyline Hospital	q81wyw00	1.3.6.1.4.1.38630.2.1.1.7
Memorial Physicians, PLLC	n2d80o17	1.3.6.1.4.1.38630.2.1.1.8
Yakima Valley Farm Workers Clinic	hqj4a100	1.3.6.1.4.1.38630.2.1.1.9.0
Children's Village - Yakima	hqj4a101	1.3.6.1.4.1.38630.2.1.1.9.1
Family Medical Center - Walla Walla	hqj4a102	1.3.6.1.4.1.38630.2.1.1.9.2
Grandview Medical	hqj4a103	1.3.6.1.4.1.38630.2.1.1.9.3
Hermiston Medical	hqj4a104	1.3.6.1.4.1.38630.2.1.1.9.4
Lancaster Family Health Center - Salem	hqj4a105	1.3.6.1.4.1.38630.2.1.1.9.5
Lincoln Avenue Medical Center - Yakima	hqj4a106	1.3.6.1.4.1.38630.2.1.1.9.6
Mid Valley Family Medicine - Wapato	hqj4a107	1.3.6.1.4.1.38630.2.1.1.9.7
Miramar Health Center - Pasco	hqj4a108	1.3.6.1.4.1.38630.2.1.1.9.8
Mobile Unit - Wapato	hqj4a109	1.3.6.1.4.1.38630.2.1.1.9.9
Mountainview Women's Health Center	hqj4a110	1.3.6.1.4.1.38630.2.1.1.9.10
Riverstone Family Health	hqj4a111	1.3.6.1.4.1.38630.2.1.1.9.11
Rosewood Family Health Center	hqj4a112	1.3.6.1.4.1.38630.2.1.1.9.12
Salud Medical - Woodburn	hqj4a113	1.3.6.1.4.1.38630.2.1.1.9.13
Spokane Falls Family Clinic	hqj4a114	1.3.6.1.4.1.38630.2.1.1.9.14
Toppenish Medical	hqj4a115	1.3.6.1.4.1.38630.2.1.1.9.15
Valley Vista Medical Group - Prosser	hqj4a116	1.3.6.1.4.1.38630.2.1.1.9.16
Yakima Medical	hqj4a117	1.3.6.1.4.1.38630.2.1.1.9.17
United General Hospital	8uif2n01	1.3.6.1.4.1.38630.2.1.1.10
Yakima Valley Memorial Hospital	wswbhp01	1.3.6.1.4.1.38630.2.1.1.11
Kadlec Regional Medical Center	w4xqhy00	1.3.6.1.4.1.38630.2.1.1.12
Wenatchee Valley Medical Center	5e99xx00	1.3.6.1.4.1.38630.2.1.1.13
Evergreen Healthcare	cmypedh00	1.3.6.1.4.1.38630.2.1.1.14
OneHealthPort HIE Testing account	7uycso15	1.3.6.1.4.1.38630.2.1.1.15
Puget Sound Family Physicians	1xboiq00	1.3.6.1.4.1.38630.2.1.1.16
PSFP - Edmonds Family Medicine	1xboiq12	1.3.6.1.4.1.38630.2.1.1.16.4
PSFP - Woodinville Primary Care	1xboiq11	1.3.6.1.4.1.38630.2.1.1.16.3
PSFP - Marysville Family Medicine	1xboiq10	1.3.6.1.4.1.38630.2.1.1.16.2
PSFP - Snohomish Family Medical Center	1xboiq05	1.3.6.1.4.1.38630.2.1.1.16.1
Kittitas Valley Community Hospital	sv51v600	1.3.6.1.4.1.38630.2.1.1.17
MultiCare Health System	cevv2400	1.3.6.1.4.1.38630.2.1.1.18
Washington State Dept of Health	dn1fro00	1.3.6.1.4.1.38630.2.1.1.19
Overlake Hospital Medical Center	nfe88a00	1.3.6.1.4.1.38630.2.1.1.20

Vendor Systems	OHP OrgID	OID
Epic	OHP90001	1.3.6.1.4.1.38630.2.1.1.0.1
NextGen	OHP90002	1.3.6.1.4.1.38630.2.1.1.0.2
Cerner	OHP90003	1.3.6.1.4.1.38630.2.1.1.0.3
Relay Health	OHP90004	1.3.6.1.4.1.38630.2.1.1.0.4
GE Healthcare	OHP90005	1.3.6.1.4.1.38630.2.1.1.0.5
Trading Partner system/warehouse	n/a	1.3.6.1.4.1.38630.2.1.1.x.6

b. Subarc OID: 1.3.6.1.4.1.38630.2.1.2 **NRAA HIE**

ASN.1 Notation: {iso(1) identified-organization(3) dod(6) internet(1) private(4) enterprise(1) onehealthport(38630) healthinformationexchange(2) exchanges(2) tradingPartner(1) tpChild(0) vendorSystem(6)}

Trading Partners	NRAA OrgID	OID
St. Joseph Hospital Renal Center	nraa10001	1.3.6.1.4.1.38630.2.1.2.1.0.1
Dialysis Center of Lincoln	nraa10002	1.3.6.1.4.1.38630.2.1.2.2.0.1
TRUDE WEISHAUPT MEMORIAL DIALYSIS CENTER	nraa10003	1.3.6.1.4.1.38630.2.1.2.3
NKC PORT ANGELES KIDNEY CENTER	nraa10004	1.3.6.1.4.1.38630.2.1.2.4
Puget Sound Kidney Centers – Smokey Point	nraa10005	1.3.6.1.4.1.38630.2.1.2.5.0.2
PUGET SOUND KIDNEY CENTER WHIDBEY ISLAND	nraa10006	1.3.6.1.4.1.38630.2.1.2.6.0.2
ROGOSIN INSTITUTE	nraa10007	1.3.6.1.4.1.38630.2.1.2.7.0.3
FIRELANDS DIALYSIS CENTER SOUTH	nraa10008	1.3.6.1.4.1.38630.2.1.2.8.0.3
WELLBOUND OF SAN JOSE LLC	nraa10009	1.3.6.1.4.1.38630.2.1.2.9.1.4
SATELLITE DIALYSIS TRACY	nraa10010	1.3.6.1.4.1.38630.2.1.2.10.2.4
NORTH HILLS DIALYSIS	nraa10011	1.3.6.1.4.1.38630.2.1.2.11.0.5
PORTAGE HEALTH DIALYSIS CTR	nraa10012	1.3.6.1.4.1.38630.2.1.2.12.0.5
PEDIATRIC DIALYSIS UNIT AT UCSF	nraa10013	1.3.6.1.4.1.38630.2.1.2.13.0.6
UC CHRONIC DIALYSIS/MT. ZION	nraa10014	1.3.6.1.4.1.38630.2.1.2.14.0.6
Vendor Systems	NRAA OrgID	OID
Clinical Computing	nraa90001	1.3.6.1.4.1.38630.2.1.2.0.0.1
Health Informatics International	nraa90002	1.3.6.1.4.1.38630.2.1.2.0.0.2
MIQS	nraa90003	1.3.6.1.4.1.38630.2.1.2.0.0.3
Satellite Healthcare	nraa90004	1.3.6.1.4.1.38630.2.1.2.1.0.4
Visonex	nraa90005	1.3.6.1.4.1.38630.2.1.2.0.0.5
Ascend Clinical	nraa90006	1.3.6.1.4.1.38630.2.1.2.0.0.6
Trading Partner system/warehouse	n/a	1.3.6.1.4.1.38630.2.1.2.x.x.7

1.2.3 CONSENT POLICIES

Each HIE is required to publish their patient consent policies for trading partners and other HIEs to be aware of the burden of patient permissions and the consent model of the exchanged message. A unique object identifier is assigned to each consent policy.

Subarc OID: 1.3.6.1.4.1.38630.2.2

ASN.1 Notation: {iso(1) identified-organization(3) dod(6) internet(1) private(4) enterprise(1) onehealthport(38630) healthinformationexchange(2) exchanges (2) consentpolicies(2)}

Policy	Brief Name	OID
Washington State Health Information Exchange (WaHIE) Community	WAHIE	1.3.6.1.4.1.38630.2.2.1

Consent Policy		
National Renal Administrators Association (NRAA) Consent Policy	NRAA	1.3.6.1.4.1.38630.2.2.2

1.3 PROVIDER DIRECTORY

The national framework outlines a provider directory for each hosted exchange to allow trading partners and other HIEs to search and find entity level healthcare organizations and their identifiers for messaging and practitioner level identifiers for Direct practitioner messages. The national framework allows the host exchange to enumerate one or more provider directories based on the business model and exchange types offered.

Subarc OID: 1.3.6.1.4.1.38630.2.3

ASN.1 Notation: {iso(1) identified-organization(3) dod(6) internet(1) private(4) enterprise(1) onehealthport(38630) providerdirectory(3)}

Directory	Brief Name	OID
Washington State Health Information Exchange Entity Directory	WAHIE elpd	1.3.6.1.4.1.38630.2.3.1
OneHealthPort HIE Entity Level Directory – organizations participating in OHP HIE	Ohp elpd	1.3.6.1.4.1.38630.2.3.2
OneHealthPort HIE Practitioner Level Directory	Ohp plpd	1.3.6.1.4.1.38630.2.3.3

2 HIE TO HIE IDENTIFIER CONVENTIONS

Each HIE may enumerate their trading partners and exchange in the fashion that best suits their business needs. When exchanging messages on behalf of trading partners with an external HIE, the two exchanges must exchange meta data for repository and message delivery purposes. The recommended national standard is a SAML wrapper and a SOAP envelope with attributes as outlined in section 1.2.2 above. If all parties to the exchange are not using SAML wrappers on individual documents/messages then a secondary convention that provides the same identifiers in a more traditional HL7 header is an acceptable convention. The required attributes regardless of the header or wrapper approach should include to and from for:

- a. Home Community ID = **specific Exchange identifier (OHP HIE or NRAA HIE)**
- b. Organization ID = **tradingPartner or tradingPartner plus tpChild**
- c. Resource ID (Optional) = **vendorSystem or trading partner hosted system**

A single object identifier from the **sender** identifying level a,b or c to a receiver (push message) or query (pull message) should also identify the receiver organization at the appropriate level:

- a. Home Community if a repository being queried
- b. Organization ID when a request or push is sent to a specific entity organization in an HIE.
- c. Receiver resource ID if the HIE has identified specific optional systems (EPIC for CCD, Dell Rad for PACS images, NXTGT for master person index queries). The trading partner must request

enumeration of their vendor or system description if the HIE has not currently listed that offering with an OID.

Sample headers and wrappers:

- a. **Generic xml header:** Use of object identifiers assigned by the respective HIEs for the entity organization is required in both the “to” and the “from” fields alternatively called “SenderId” and “RecipientID”

XML Element	Value	Name
To	1.2.5.6.2.127899.1.2.56	Recipient Identification = Beacon Project on INHS HIE
From	1.3.6.1.4.1.38630.2.1.1.3	Sender Identification = Group Health on the OHP HIE
MessageID	98888321	Transaction control reference
SentTime	2005-08-29T19:28:50.0Z	Date of initiation : Time

If an HIE is sending SAML secured messages, the SAML wrapper should include the sender information for message authentication.

SAML attributes as part of SAML wrapper include Sender information:

```
- <saml2:Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:subject-id">
  <saml2:AttributeValue xmlns:ns6="http://www.w3.org/2001/XMLSchema-instance" xmlns:ns7="http://www.w3.org/2001/XMLSchema"
    ns6:type="ns7:string">Sue Merk</saml2:AttributeValue>
</saml2:Attribute>
- <saml2:Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:organization">
  <saml2:AttributeValue xmlns:ns6="http://www.w3.org/2001/XMLSchema-instance" xmlns:ns7="http://www.w3.org/2001/XMLSchema"
    ns6:type="ns7:string">NRAA Health Information Exchange</saml2:AttributeValue>
</saml2:Attribute>
- <saml2:Attribute Name="urn:oasis:names:tc:xspa:1.0:subject:organization-id">
  <saml2:AttributeValue xmlns:ns6="http://www.w3.org/2001/XMLSchema-instance" xmlns:ns7="http://www.w3.org/2001/XMLSchema"
    ns6:type="ns7:string">urn:oid:1.3.6.1.4.1.38630.2.1.2</saml2:AttributeValue>
</saml2:Attribute>
- <saml2:Attribute Name="urn:nhin:names:saml:homeCommunityId">
  <saml2:AttributeValue xmlns:ns6="http://www.w3.org/2001/XMLSchema-instance" xmlns:ns7="http://www.w3.org/2001/XMLSchema"
    ns6:type="ns7:string">urn:oid:1.3.6.1.4.1.38630.2.1.2</saml2:AttributeValue>
</saml2:Attribute>
```

The SOAP envelope should include Patient and Recipient identifiers in the published standard fields:

Patient identifier segments in SOAP include:

```

- <ns3:Slot name="sourcePatientId">
  - <ns3:ValueList>
    <ns3:Value>6578946^^^&1.3.6.1.4.1.38630.2.1.2&ISO</ns3:Value>
  </ns3:ValueList>
</ns3:Slot>
- <ns3:Slot name="sourcePatientInfo">
  - <ns3:ValueList>
    <ns3:Value>PID-3|PQRI2TEST10^^^&1.3.6.1.4.1.38630.2.1.2&ISO</ns3:Value>
    <ns3:Value>PID-5|Rodney^Smith^^^</ns3:Value>
    <ns3:Value>PID-7|19321201</ns3:Value>
    <ns3:Value>PID-8|M</ns3:Value>
    <ns3:Value>PID-11|1300 Elden Street^^College Park^MD^20742^USA</ns3:Value>
  </ns3:ValueList>
</ns3:Slot>

- <ns3:Slot name="patientId">
  - <ns3:ValueList>
    <ns3:Value>6578946^^^&1.3.6.1.4.1.38630.2.1.2&ISO</ns3:Value>
  </ns3:ValueList>
</ns3:Slot>
- <ns3:Slot name="sourceId">
  - <ns3:ValueList>
    <ns3:Value>1.3.6.1.4.1.38630.2.1.2</ns3:Value>
  </ns3:ValueList>

```

Intended Recipient identifier:

```

- <ns3:Slot name="intendedRecipient">
  - <ns3:ValueList>
    <ns3:Value>^^^^^^^^^^2.16.840.1.113883.13.34.110|000001</ns3:Value>
  </ns3:ValueList>
</ns3:Slot>

```

Each HIE should publish their meta data and object identifiers for use by the other HIEs in advance of any document trading in order to establish the minimum data set required by the participating HIEs. The process should conform to NHIN standards but the broadness of the standard requires more specific details and agreement on the use of various attributes and the minimum required meta data.

3 REVISION HISTORY

Version #	Date	Author	Description of Change
0.9	9/22/2011	Ryan McNeilly	Initial creation.
1.0	11/2/2011	Sue Merk	Enumeration of Provider Directories and Consent Policy subarcs
1.1	12/6/2011	Sue Merk	Enumeration of HIE Trading Partner subarcs and crosswalks
1.2	1/12/2012	Sue Merk	Enumeration of Trading Partner Child Organization subarcs
1.3	1/30/2012	Sue Merk	Enumeration of Trading Partner vendor system subarcs
1.4	2/17/2012	Sue Merk	HIE to HIE conventions
1.5	4/18/2012	Sue Merk	Added Trading Partners to tables