a. This associatedEntity **SHALL** contain exactly one [1..1] **@classCode**="OWN" Owned Entity (CONF:4537-32973).

b. This associatedEntity **SHALL** contain exactly one [1..1] **scopingOrganization** (CONF:4537-43).

    i. This scopingOrganization **SHALL** contain at least one [1..*] **id** (CONF:4537-50).

    ii. This scopingOrganization **SHALL** contain at least one [1..*] **name** (CONF:4537-51).

    iii. This scopingOrganization **SHOULD** contain zero or more [0..*] **telecom** (CONF:4537-52).

    iv. This scopingOrganization **SHOULD** contain zero or more [0..*] US Realm Address (AD.US.FIELDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:4537-47).

Figure 62: Provenance – Assembler Participation Example

```
<participant typeCode="DEV">
    <templateId root="2.16.840.1.113883.10.20.22.5.7" extension="2020-05-19" />
    <functionCode code="assembler" codeSystem="2.16.840.1.113883.4.642.4.1131"
                  codeSystemName="ProvenanceParticipantType"/>
    <time value="20191206011130-0400" />
    <associatedEntity classCode="OWN">
        <scopingOrganization>
            <!-- Represents the Assembler Organization -->
            <id root="2.16.840.1.113883.19.5" extension="4"/>
            <name use="L">Good Health HIE</name>
            <telecom value="tel:+1(202)776-7700" use="WP" />
            <addr use="WP">
                <streetAddressLine partType="SAL">555 Badger Way</streetAddressLine>
                <city partType="CTY">Amherst</city>
                <state partType="STA">WI</state>
                <postalCode partType="ZIP">01002</postalCode>
                <country partType="CNT">US</country>
            </addr>
        </scopingOrganization>
    </associatedEntity>
</participant>
```

4.2 Provenance - Author Participation (V2)

```
[author: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.5.6:2019-10-01
(open)]
```

This template represents the key information to record Provenance in an Author Participation.

This Participation is appropriate at any place CDA allows an author. For example, at the CDA Header, CDA Section, CDA Entry, or within a CDA entry (e.g. Organizer and contained Observation(s)).

This template is consistent with the C-CDA Author Participation, however, it doesn't use a formal 'conforms to' relationship. All constraints for conformance are defined in this template which specializes the Author Participation (2.16.840.1.113883.10.20.22.4.119).

This template is used to identify primary authorship for an entry. An entry may have many authors, but recipients need a single authoritative point of contact for resolving issues. This is typically the last provider to make substantive changes to the entry If two providers are simultaneously involved in that activity, the implementer must choose one, ideally in a repeatable way.

The assignedAuthor/id may be set equal to (a pointer to) an id on a participant elsewhere in the document (header or entries) or a new author participant can be described here.

Note: The Provenance template title includes a version 2 to support moving from the 'Basic Provenance' guide to the this Companion Guide, so the templateId has not changed.

Table 98: Provenance - Author Participation (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
author (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.5.6:2019-10-01)					
templateId	1..1	SHALL		4515-32980	
@root	1..1	SHALL		4515-15	2.16.840.1.113883.10.20.22.5.6
@extension	1..1	SHALL		4515-36	2019-10-01
time	1..1	SHALL		4515-32983	
assignedAuthor	1..1	SHALL		4515-32975	
id	1..*	SHALL		4515-2	
id	1..1	SHALL		4515-20	
@nullFlavor	0..1	MAY		4515-21	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = UNK
@root	1..1	SHALL		4515-22	2.16.840.1.113883.4.6
@extension	0..1	SHOULD		4515-23	
code	0..1	SHOULD		4515-32979	
assignedPerson	0..1	SHOULD		4515-32976	
name	1..*	SHALL		4515-32977	
family	1..1	SHALL		4515-17	
given	0..*	SHOULD		4515-18	
assignedAuthoringDevice	0..1	MAY		4515-32	
representedOrganization	0..1	MAY		4515-32978	
@nullFlavor	0..1	MAY		4515-35	
id	1..*	SHALL		4515-32981	
id	1..1	SHALL		4515-24	
@nullFlavor	0..1	MAY		4515-25	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = UNK
@root	1..1	SHALL		4515-26	2.16.840.1.113883.4.2
@extension	0..1	SHOULD		4515-32982	
id	1..1	SHALL		4515-28	
@nullFlavor	0..1	MAY		4515-29	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = UNK
@root	1..1	SHALL		4515-30	2.16.840.1.113883.4.6
@extension	0..1	SHOULD		4515-31	

XPath	Card.	Verb	Data Type	CONF#	Value
name	1..1	SHALL		[4515-11](#)	
telecom	0..*	SHOULD		[4515-12](#)	

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:4515-32980) such that it
   a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.5.6" (CONF:4515-15).
   b. **SHALL** contain exactly one [1..1] **@extension**="2019-10-01" (CONF:4515-36).
2. **SHALL** contain exactly one [1..1] **time** (CONF:4515-32983).
3. **SHALL** contain exactly one [1..1] **assignedAuthor** (CONF:4515-32975).
   a. This assignedAuthor **SHALL** contain at least one [1..*] **id** (CONF:4515-2).
      i. If the assignedAuthor/id is not referencing a Provenance Author described elsewhere in the document with a representedOrganization populated, this assignedAuthor **SHALL** contain exactly one [1..1] representedOrganization (CONF:4515-64).
   b. This assignedAuthor **SHALL** contain exactly one [1..1] **id** (CONF:4515-20) such that it

If id with @root="2.16.840.1.113883.4.6" National Provider Identifier is unknown then

      i. **MAY** contain zero or one [0..1] **@nullFlavor**="UNK" Unknown (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:4515-21).
      ii. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:4515-22).
      iii. **SHOULD** contain zero or one [0..1] **@extension** (CONF:4515-23).

When the author is a person who is not acting in the role of a clinician, this code encodes the personal or legal relationship between author and the patient.

   c. This assignedAuthor **SHOULD** contain zero or one [0..1] **code** (CONF:4515-32979).
      i. If the content is provider authored, the code **SHOULD** be selected from ValueSet Healthcare Provider Taxonomy urn:oid:2.16.840.1.114222.4.11.1066 DYNAMIC (CONF:4515-56).
      ii. If the author is a person who is not acting in the role of a clinician, the code **SHOULD** be selected from ValueSet Personal And Legal Relationship Role Type urn:oid:2.16.840.1.113883.11.20.12.1 DYNAMIC (CONF:4515-57).
   d. This assignedAuthor **SHOULD** contain zero or one [0..1] **assignedPerson** (CONF:4515-32976).
      i. The assignedPerson, if present, **SHALL** contain at least one [1..*] **name** (CONF:4515-32977).
         1. Such names **SHALL** contain exactly one [1..1] **family** (CONF:4515-17).
         2. Such names **SHOULD** contain zero or more [0..*] **given** (CONF:4515-18).
   e. This assignedAuthor **MAY** contain zero or one [0..1] **assignedAuthoringDevice** (CONF:4515-32).

If the assignedAuthor/id is not referencing a Provenance Author described elsewhere in the document with a representedOrganization populated, this assignedAuthor SHALL contain exactly one [1..1] representedOrganization (See - CONF:4440-64).

        f.   This assignedAuthor **MAY** contain zero or one [0..1] **representedOrganization** (CONF:4515-32978).

A nullFlavor of "NA" is allowed If the assignedAuthor is not a clinician

        i.   The representedOrganization, if present, **MAY** contain zero or one [0..1] **@nullFlavor** (CONF:4515-35).

        ii.   The representedOrganization, if present, **SHALL** contain at least one [1..*] **id** (CONF:4515-32981).

        iii.   The representedOrganization, if present, **SHALL** contain exactly one [1..1] **id** (CONF:4515-24) such that it

If id with @root="2.16.840.1.113883.4.2" Tax ID Number is unknown then

        1.   **MAY** contain zero or one [0..1] **@nullFlavor**="UNK" Unknown (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:4515-25).

        2.   **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.4.2" Tax ID Number (CONF:4515-26).

        3.   **SHOULD** contain zero or one [0..1] **@extension** (CONF:4515-32982).

        iv.   The representedOrganization, if present, **SHALL** contain exactly one [1..1] **id** (CONF:4515-28) such that it

If id with @root="2.16.840.1.113883.4.6" National Provider Identifier is unknown then

        1.   **MAY** contain zero or one [0..1] **@nullFlavor**="UNK" Unknown (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:4515-29).

        2.   **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:4515-30).

        3.   **SHOULD** contain zero or one [0..1] **@extension** (CONF:4515-31).

        v.   The representedOrganization, if present, **SHALL** contain exactly one [1..1] **name** (CONF:4515-11).

        vi.   The representedOrganization, if present, **SHOULD** contain zero or more [0..*] **telecom** (CONF:4515-12).

Figure 63: Provenance - Author Participation Example

```
<author>
    <!-- Provenance - Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.5.6" extension="2019-10-01"/>
    <time value="201308011235-0800"/>
    <assignedAuthor>
        <!-- NPI of Author (example) -->
        <id root="2.16.840.1.113883.4.6" extension="1234567"/>
        <assignedPerson>
            <name>
                <given>Nurse</given>
                <family>Nightingale</family>
                <suffix>RN</suffix>
            </name>
        </assignedPerson>
        <representedOrganization>
            <!-- Tax Identifier of Organization is Unknown -->
            <id root="2.16.840.1.113883.5.1008" nullFlavor="UNK"/>
            <!-- NPI of Organization -->
            <id root="2.16.840.1.113883.4.6" extension="1104145838"/>
            <name>Good Health Hospital</name>
            <telecom value="tel:+1(555)867-5309"/>
        </representedOrganization>
    </assignedAuthor>
</author>
```

4.3 Related Person Relationship and Name Participant

[participant: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.5.8:2023-05-01 (open)]

Table 99: Related Person Relationship and Name Participant Contexts

Contained By:	Contains:
US Realm Header (V4) (optional)	

This template represents a generic participant person that has a relationship to the patient. (e.g., parent, next-of-kin, neighbor). The related person's name is required and it is recommended that the person's contact information is present. The more specific CDA participant of Guardian (recordTarget/patientRole/patient/guardian) can be used to represent a legally responsible guardian of the patient within the header. This template may be used to represent a person with any relationship to the patient within the header, or at the entry level when pertinent to a particular clinical statement.