



Representing FHIR R4 Delegation of Authority (DOA) in Pre-STU3 Data

Guidance for Pre-STU3 IG Implementers

1 Introduction

The Sequoia Project Healthcare Directories (including the Carequality Healthcare Directory) have moved to FHIR R4.0.1 and a Delegation of Authority (DOA) extension has been added to the structures defined in those implementation guides as part of the alignment of Carequality Framework Policies with TEFCA (Trusted Exchange Framework and Common Agreement). This page provides guidance on how implementers of the Pre-STU3 Implementation Guide (IG) can directly manage delegation relationships in that version.

Key Points:

- Directories have moved to FHIR R4.
- Pre-STU3 endpoints will be available for a transition period.
- New functionality will be added only to the FHIR R4 directories going forward.
- Adding DOA support to implementations of the Pre-STU3 structure is necessary for compliance with the new Delegation of Authority policy added to the Carequality Framework Policies v3.0.
- Support for DOA is achieved through an extension on the Organization resource (Organization.extension).
- Pre-STU3 JSON represents Organization.extension as an object if there is a single DOA extension, or as an array if there are multiple DOA extensions.

The JSON and XML examples provided illustrate the inclusion of the DOA extension (highlighted in yellow) in FHIR R4 and in Pre-STU3.

2 FHIR R4 XML

```
<Organization xmlns="http://hl7.org/fhir">
  <id value="1.2.3.4.5"/>
  <meta>
    <profile
      value="https://sequoiaproject.org/fhir/cq/StructureDefinition/CarequalityConnection"/>
    </meta>
    <contained>
      <Location>
```

```

        <id value="OrgLoc"/>
        <position>
            <longitude value="-96.7973409"/>
            <latitude value="32.7833749"/>
        </position>
    </Location>
</contained>
    <extension
url="https://sequoiaproject.org/fhir/sphd/StructureDefinition/Domains">
        <valueCoding>
            <system
value="https://sequoiaproject.org/fhir/sphd/CodeSystem/Domains"/>
                <code value="CQ"/>
            </system>
        </valueCoding>
    </extension>
    <extension
url="https://sequoiaproject.org/fhir/sphd/StructureDefinition/DOA">
        <valueReference>
            <reference value="Organization/5.6.7.8.9"/>
        </valueReference>
    </extension>
    <extension
url="https://sequoiaproject.org/fhir/sphd/StructureDefinition/org-managing-
org">
        <valueReference>
            <reference value="Organization/1.2.3"/>
        </valueReference>
    </extension>
    <identifier>
        <use value="official"/>
        <type>
            <coding>
                <system
                    value="https://sequoiaproject.org/fhir/sphd/CodeSystem/Se
quoiaIdentifierCodes"/>
                <code value="HCID"/>
            </coding>
        </type>
        <system value="urn:ietf:rhc:3986"/>
    </identifier>

```

```

        <value value="urn:oid: 1.2.3.4.5"/>
    </identifier>
    <identifier>
        <type>
            <coding>
                <system
                    value="https://sequoiaproject.org/fhir/sphd/CodeSystem/Se
quoiaIdentifierCodes"/>
                <code value="TEFCAID"/>
                <display value="TEFCA ID"/>
            </coding>
        </type>
        <system value="urn:ietf:rfc:3986"/>
        <value value="urn:uuid:00000000-0000-0000-0000-000000000000"/>
    </identifier>
    <active value="true"/>
    <type>
        <coding>
            <system
value="https://sequoiaproject.org/fhir/sphd/CodeSystem/OrganizationType"/>
            <code value="Connection"/>
        </coding>
    </type>
    <name value="Peaceful Valley Hospital"/>
    <address>
        <extension
url="https://sequoiaproject.org/fhir/sphd/StructureDefinition/OrgLocation">
            <valueReference>
                <reference value="#OrgLoc"/>
            </valueReference>
        </extension>
        <text value="325 North St. Paul Street Dallas TX 75201 US"/>
        <line value="325 North St. Paul Street"/>
        <city value="Dallas"/>
        <state value="TX"/>
        <postalCode value="75201"/>
        <country value="US"/>
    </address>

```

```

    <partOf>
      <reference value="Organization/1.2.3"/>
    </partOf>
  </Organization>

```

3 FHIR R4 JSON

```

{
  "resourceType": "Organization",
  "id": "1.2.3.4.5",
  "meta": {
    "profile": [
      "https://sequoiaproject.org/fhir/cq/StructureDefinition/Carequali
tyConnection"
    ]
  },
  "contained": [
    {
      "resourceType": "Location",
      "id": "OrgLoc",
      "position": {
        "longitude": -96.7973409,
        "latitude": 32.7833749
      }
    }
  ],
  "extension": [
    {
      "url":
"https://sequoiaproject.org/fhir/sphd/StructureDefinition/Domains",
      "valueCoding": {
        "system":
"https://sequoiaproject.org/fhir/sphd/CodeSystem/Domains",
        "code": "CQ"
      }
    }
  ],

```

```

    {
      "url":
"https://sequoiaproject.org/fhir/sphd/StructureDefinition/DOA",
      "valueReference": {
        "reference": "Organization/5.6.7.8.9"
      }
    },
    {
      "url":
"https://sequoiaproject.org/fhir/sphd/StructureDefinition/org-managing-org",
      "valueReference": {
        "reference": "Organization/1.2.3"
      }
    }
  ],
  "identifier": [
    {
      "use": "official",
      "type": {
        "coding": [
          {
            "system":
"https://sequoiaproject.org/fhir/sphd/CodeSystem/SequoiaIdentifierCodes",
            "code": "HCID"
          }
        ]
      },
      "system": "urn:ietf:rfc:3986",
      "value": "urn:oid: 1.2.3.4.5"
    },
    {
      "type": {
        "coding": [
          {
            "system":
"https://sequoiaproject.org/fhir/sphd/CodeSystem/SequoiaIdentifierCodes",
            "code": "TEFCAID",
            "display": "TEFCA ID"
          }
        ]
      }
    }
  ]
}

```

```

        ]
      },
      "system": "urn:ietf:rfc:3986",
      "value": "urn:uuid:00000000-0000-0000-0000-000000000000"
    }
  ],
  "active": true,
  "type": [
    {
      "coding": [
        {
          "system":
"https://sequoiaproject.org/fhir/sphd/CodeSystem/OrganizationType",
          "code": "Connection"
        }
      ]
    }
  ],
  "name": "Peaceful Valley Hospital",
  "address": [
    {
      "extension": [
        {
          "url":
"https://sequoiaproject.org/fhir/sphd/StructureDefinition/OrgLocation",
          "valueReference": {
            "reference": "#OrgLoc"
          }
        }
      ]
    },
    {
      "text": "325 North St. Paul Street Dallas TX 75201 US",
      "line": [
        "325 North St. Paul Street"
      ]
    },
    {
      "city": "Dallas",
      "state": "TX",
      "postalCode": "75201",
      "country": "US"
    }
  ]
}

```

```

    }
  ],
  "partOf": {
    "reference": "Organization/1.2.3"
  }
}

```

4 Pre-STU3 XML

```

<Organization xmlns="http://hl7.org/fhir">
  <id value="1.2.3.4.5"/>
  <extension
url="https://sequoiaproject.org/fhir/sphd/StructureDefinition/DOA">
    <valueReference>
      <reference value="Organization/5.6.7.8.9"/>
    </valueReference>
  </extension>
  <identifier>
    <use value="official"/>
    <type value="HCID"/>
    <system value="http://www.hl7.org/oid"/>
    <value value="1.2.3.4.5"/>
  </identifier>
  <active value="true"/>
  <name value="Peaceful Valley Hospital"/>
  <type>
    <coding>
      <system value="http://hl7.org/fhir/organization-type"/>
      <code value="Connection"/>
    </coding>
  </type>
  <address>
    <use value="work"/>
    <type value="both"/>
    <line value="325 North St. Paul Street"/>
    <city value="Dallas"/>
  </address>
</Organization>

```

```

    <state value="TX"/>
    <postalCode value="75201"/>
    <country value="USA"/>
    <extension url="OrgPosition">
      <valueCodeableConcept>
        <coding>
          <system
value="https://sequoiaproject.org/StructureDefinition/Address/Position/1.0.0"
/>
          <value>
            <position>
              <longitude value="-96.7973409"/>
              <latitude value="32.7833749"/>
            </position>
          </value>
        </coding>
      </valueCodeableConcept>
    </extension>
  </address>
  <partOf>
    <identifier>
      <use value="official"/>
      <type value="HCID"/>
      <system value="http://www.hl7.org/oid/">
      <value value="1.2.3"/>
    </identifier>
  </partOf>
  <managingOrg>
    <reference value="org.sequoiaproject.fhir.stu3/Organization/Acme EHR"/>
  </managingOrg>
</Organization>

```

5 Pre-STU3 JSON

```

{
  "Organization": {
    "xmlns": "http://hl7.org/fhir",
    "id": {

```

```

        "value": "1.2.3.4.5"
    },
    "extension": {
        "url":
"https://sequoiaproject.org/fhir/sphd/StructureDefinition/DOA",
        "valueReference": {
            "reference": {
                "value": "Organization/5.6.7.8.9"
            }
        }
    },
    "identifier": {
        "use": {
            "value": "official"
        },
        "type": {
            "value": "HCID"
        },
        "system": {
            "value": "http://www.hl7.org/oid/"
        },
        "value": {
            "value": "1.2.3.4.5"
        }
    },
    "active": {
        "value": true
    },
    "name": {
        "value": "Peaceful Valley Hospital"
    },
    "type": {
        "coding": {
            "system": {
                "value": "http://hl7.org/fhir/organization-type"
            },
            "code": {
                "value": "Connection"
            }
        }
    }
}

```

```

    }
  }
},
"address": {
  "use": {
    "value": "work"
  },
  "type": {
    "value": "both"
  },
  "line": {
    "value": "325 North St. Paul Street"
  },
  "city": {
    "value": "Dallas"
  },
  "state": {
    "value": "TX"
  },
  "postalCode": {
    "value": "75201"
  },
  "country": {
    "value": "USA"
  },
  "extension": {
    "url": "OrgPosition",
    "valueCodeableConcept": {
      "coding": {
        "system": {
          "value":
"https://sequoiaproject.org/StructureDefinition/Address/Position/1.0.0"
        },
        "value": {
          "position": {
            "longitude": {
              "value": "-96.7973409"
            }
          }
        }
      }
    }
  }
}

```

```

        "latitude": {
            "value": "32.7833749"
        }
    }
}

    }
}

    }
}

    }
}

    }
},
"partOf": {
    "identifier": {
        "use": {
            "value": "official"
        },
        "type": {
            "value": "HCID"
        },
        "system": {
            "value": "http://www.hl7.org/oid/"
        },
        "value": {
            "value": "1.2.3"
        }
    }
},
"managingOrg": {
    "reference": {
        "value": "org.sequoiaproject.fhir.stu3/Organization/Acme EHR"
    }
}
}
}

```