

DDIA-FHIR-APIs

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EXECUTIVE SUMMARY

Delta Dental of Iowa is committed towards compliance with corporate and government mandated policies. To be compliant with CMS interoperability and Patient Access final rule to make health information more easily available between health systems, DDIA has implemented FHIR APIs for Provider Directory and Patient Access. The objective of this standard APIs is to ensure that subscribers of Delta Dental of Iowa can choose a client application of their own and use the publicly available APIs to access their data that are safeguarded using FHIR standards.

REFERENCE

| | Document | Type | Description |
|----|---|------|-------------|
| 1. | Implementation Guide (HL7.FHIR.US.DAVINCI-PDEX-PLAN-NET\Home - FHIR v4.0.1) | URL | Standard |
| 2. | | | |

1.0 – SCOPE

1.1 Involved Persons

Delta Dental of Iowa is the facilitator of the APIs.

All members at Delta Dental of Iowa that are subscribed to Delta Dental of Iowa’s Dental Plans and have been active within the last 7 years with claims submitted are targeted consumers.

1.2 Involved Systems

An End-User (members/integration service provider) can choose a client application supported by Azure Health Data Services and get registered in Delta Dental of Iowa's Active directory to be able to use the FHIR APIs.

2.0 – OVERVIEW

2.1 Objectives

Delta Dental of Iowa offers Provider Directory and Patient Access APIs for our members.

- The Patient Access API lets DDIA members access claims, EOB, and a set of procedures. This API is secured by Token based authentication which is available upon request.
- The Provider Directory API lets DDIA members access our provider directory. There is no security required to access this API.

2.2 Components

- Azure Health Data Service.
- FHIR – Fast Healthcare Interoperability Resource.
- Integration Account
- Azure Active Directory
- Logic Apps
- Azure SQL Server/Database
- Client Applications (Postman)

3.0 – PROVIDER DIRECTORY API

Delta Dental of Iowa provides 2 APIs for Provider Directory.

3.1 Get all providers that participate in your

plan. HTTP GET URL: [https://prod-](https://prod-18.centralus.logic.azure.com:443/workflows/149943361ca24ec2b4f0e68ed07a287d/triggers/manual/paths/invoke?api-version=2016-10-01&sp=%2Ftriggers%2Fmanual%2Frun&sv=1.0&sig=Ybw9oPcytyPKKnxe4sqoMnFpJOb1uyd1xvkeXGNPOA)

[18.centralus.logic.azure.com:443/workflows/149943361ca24ec2b4f0e68ed07a287d/triggers/manual/paths/invoke?api-](https://prod-18.centralus.logic.azure.com:443/workflows/149943361ca24ec2b4f0e68ed07a287d/triggers/manual/paths/invoke?api-version=2016-10-01&sp=%2Ftriggers%2Fmanual%2Frun&sv=1.0&sig=Ybw9oPcytyPKKnxe4sqoMnFpJOb1uyd1xvkeXGNPOA)

[version=2016-10-](https://prod-18.centralus.logic.azure.com:443/workflows/149943361ca24ec2b4f0e68ed07a287d/triggers/manual/paths/invoke?api-version=2016-10-01&sp=%2Ftriggers%2Fmanual%2Frun&sv=1.0&sig=Ybw9oPcytyPKKnxe4sqoMnFpJOb1uyd1xvkeXGNPOA)

[01&sp=%2Ftriggers%2Fmanual%2Frun&sv=1.0&sig=Ybw9oPcytyPKKnxe4sqoMnFpJOb1uyd1xvkeXGNPOA](https://prod-18.centralus.logic.azure.com:443/workflows/149943361ca24ec2b4f0e68ed07a287d/triggers/manual/paths/invoke?api-version=2016-10-01&sp=%2Ftriggers%2Fmanual%2Frun&sv=1.0&sig=Ybw9oPcytyPKKnxe4sqoMnFpJOb1uyd1xvkeXGNPOA)

Response Schema

```
{
  "resourceType": "Bundle",
  "id": "30c413ab-66a2-4a03-bd9e-762fe6c2a984",
  "meta": {
    "lastUpdated": "2026-03-02T21:59:11.7107468+00:00"
  },
  "type": "searchset",
  "link": [
    {
      "relation": "self",
      "url": "https://ahdsfhirpoc-ddia-fhir-service.fhir.azurehealthcareapis.com/PractitionerRole?endpoint=ProviderOrganization&count=100&organization=186812"
    }
  ],
  "entry": [
    {
      "fullUrl": "https://ahdsfhirpoc-ddia-fhir-service.fhir.azurehealthcareapis.com/PractitionerRole/bdbc658a-920a-4c5a-a939-
```

```

39cf0cd3562b",
  "resource": {
    "resourceType": "PractitionerRole",
    "id": "bdb658a-920a-4c5a-a939-39cf0cd3562b",
    "meta": {
      "versionId": "1",
      "lastUpdated": "2026-03-02T21:04:41.841+00:00"
    },
    "extension": [
      {
        "extension": [
          {
            "url": "acceptingPatients",
            "valueCodeableConcept": {
              "coding": [
                {
                  "code": "no"
                }
              ],
              "text": "Not accepting new patients"
            }
          }
        ],
        "url": "http://hl7.org/fhir/us/davinci-pdex-plan-
net/StructureDefinition/newpatients"
      },
      {
        "extension": [
          {
            "url": "pediatric-services-ind",
            "valueCodeableConcept": {
              "coding": [
                {
                  "code": "no"
                }
              ],
              "text": "Do not have Pediatric Services"
            }
          }
        ],
        "url": "http://hl7.org/fhir/us/davinci-pdex-plan-
net/StructureDefinition/practitionerrole-pediatric-services-ind"
      },
      {
        "extension": [
          {
            "url": "weekend_late_hours",
            "valueCodeableConcept": {
              "coding": [
                {
                  "code": "no"
                }
              ],
              "text": "Not Open on Weekend and Late Hours"
            }
          }
        ],
        "url": "http://hl7.org/fhir/us/davinci-pdex-plan-

```

```
net/StructureDefinition/practitionerrole-weekend_late_hours"
    },
    {
      "extension": [
        {
          "url": "handicapaccess",
          "valueCodeableConcept": {
            "coding": [
              {
                "code": "yes"
              }
            ],
            "text": "Handicap Accessible"
          }
        },
        {
          "url": "wideentries",
          "valueCodeableConcept": {
            "coding": [
              {
                "code": "yes"
              }
            ],
            "text": "WIDE ENTRIES available"
          }
        },
        {
          "url": "examrooms",
          "valueCodeableConcept": {
            "coding": [
              {
                "code": "yes"
              }
            ],
            "text": "EXAM ROOMS Available"
          }
        },
        {
          "url": "diagnosticequipment",
          "valueCodeableConcept": {
            "coding": [
              {
                "code": "yes"
              }
            ],
            "text": "DIAGNOSTIC EQUIPMENT Available"
          }
        },
        {
          "url": "translationservices",
          "valueCodeableConcept": {
            "coding": [
              {
                "code": "yes"
              }
            ],
            "text": "TRANSLATION SERVICE Available"
          }
        }
      ]
    }
  ]
}
```

```

    },
    {
      "url": "automateddoors",
      "valueCodeableConcept": {
        "coding": [
          {
            "code": "no"
          }
        ],
        "text": "NO AUTOMATED DOORS"
      }
    },
    {
      "url": "signlang",
      "valueCodeableConcept": {
        "coding": [
          {
            "code": "yes"
          }
        ],
        "text": "SIGN LANGUAGE SERVICE Available"
      }
    },
    {
      "url": "culturalcompetency",
      "valueCodeableConcept": {
        "coding": [
          {
            "code": "yes"
          }
        ],
        "text": "CULTURAL COMPETENCY"
      }
    }
  ],
  "url": "http://hl7.org/fhir/us/davinci-pdex-plan-
net/StructureDefinition/practitionerrole-handicapaccess"
},
{
  "extension": [
    {
      "url": "licensenum",
      "valueIdentifier": {
        "value": "10246"
      }
    },
    {
      "url": "licensetype",
      "valueCodeableConcept": {
        "text": "D"
      }
    }
  ],
  {
    "url": "status",
    "valueCode": "active"
  },
  {
    "url": "period",

```

```

        "valuePeriod": {
          "start": "2024-07-17",
          "end": "2099-12-31"
        }
      },
      {
        "url": "whereValid",
        "valueCodeableConcept": {
          "text": "IA"
        }
      }
    ],
    "url": "http://hl7.org/fhir/us/davinci-pdex-plan-
net/StructureDefinition/qualification"
  },
  {
    "extension": [
      {
        "url": "language",
        "valueCodeableConcept": {
          "coding": [
            {
              "system": "urn:ietf:bcp:47",
              "code": "eng",
              "display": "ENG"
            }
          ],
          "text": "ENG"
        }
      },
      {
        "url": "language",
        "valueCodeableConcept": {
          "coding": [
            {
              "system": "urn:ietf:bcp:47",
              "code": "lts",
              "display": "LTS"
            }
          ],
          "text": "LTS"
        }
      }
    ],
    "url":
"https://your.org/fhir/StructureDefinition/practitionerrole-communication"
  },
  "identifier": [
    {
      "system": "ahdsfhirpoc-ddia-fhir-
service.fhir.azurehealthcareapis.com/practitioners",
      "value": "1154166569"
    },
    {
      "system": "http://hl7.org/fhir/sid/us-npi",
      "value": "1154166569"
    }
  ],

```

```
    {
      "system": "urn:gov:plan-provider-number",
      "value": "2443193"
    }
  ],
  "active": true,
  "period": {
    "start": "2024-07-17",
    "end": "2099-12-31"
  },
  "practitioner": {
    "display": "DDS RILEY MANN"
  },
  "organization": {
    "reference": "Organization/186812",
    "display": "JONES FAMILY DENTISTRY"
  },
  "specialty": [
    {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "display": "000 - GENERAL DENTIST"
        }
      ]
    }
  ],
  "location": [
    {
      "display": "537 WESTBURY DR, IOWA CITY, IA 522450000"
    }
  ],
  "healthcareService": [
    {
      "reference": "HealthcareService/example"
    }
  ],
  "telecom": [
    {
      "system": "phone",
      "value": "3193389219"
    },
    {
      "system": "fax",
      "value": "3193387265",
      "use": "work"
    },
    {
      "system": "email",
      "value": "RILEYMANNDSDS@GMAIL.COM",
      "use": "work"
    },
    {
      "system": "url",
      "value": "iowacitydentist.com",
      "use": "work"
    }
  ],
}
```

```
        "endpoint": [
            {
                "reference": "ProviderOrganization"
            }
        ],
        "search": {
            "mode": "match"
        }
    }
]
```

3.2 Get provider directory by provider site

number. HTTP GET URL: <https://prod-29.centralus.logic.azure.com/workflows/08664c7358f74191868474c95b695be8/triggers/manual/paths/invoke/entry/re-source/{organization}?api-version=2016-10-01&sp=%2Ftriggers%2Fmanual%2Frun&sv=1.0&sig=L424wN1opvFHPhYBZNF4VZlf2OPvGZO4Hq3Jlw5DmM>

Replace {organization} with a valid Provider Site Number.

4.0 – PATIENT ACCESS API

Delta Dental of Iowa provides access to Patient Access API in 2 steps.

4.1 Authentication and Authorization token.

End users willing to use our API will need to contact DDIA Team either via email or phone call to request Authentication code. DDIA will need to know what Client Application will be used to access the API. Once we have registered the client application in our Azure Active Directory, users should be able to successfully make call to the DDIA FHIR APIs.

If end user wants to use POSTMAN (support the CARIN for Blue Button Framework), it is already registered to access DDIA FHIR APIs.

We are also working on automating the delivery of Authentication token using another API call.

This API will need First Name, Last Name, DOB, and member ID/SSN in body to get an authorization token. Data matching our system will generate a patient ID and Token and will be sent to the client as response. https://prod-11.centralus.logic.azure.com/workflows/0a992628087f4eff9c710ca3ad31db35/triggers/manual/paths/invoke/{UNIQUEID}/{FIRSTNAME}/{LASTNAME}/{DATEOFBIRTH}?api-version=2016-10-01&sp=%2Ftriggers%2Fmanual%2Frun&sv=1.0&sig=QaMjY_peo1HmwjvLEB0Yng6QaBfi9KZ7bPW2m6nNH4

4.2 Get Claims/EOB Data.

Use Patient ID and authorization token in the body of the API call to Get EOB/Claim data in JSON format.

HTTP GET URL: https://prod-13.centralus.logic.azure.com/workflows/214cd2557b8445139b5166afbb9a4c25/triggers/manual/paths/invoke/{PatientID}/{Token}?api-version=2016-10-01&sp=%2Ftriggers%2Fmanual%2Frun&sv=1.0&sig=JnhdesuD0PmMid2q001i_PZA1pvyZUeKKKLFqXSt18

Example Response:

```
{
  "success": 1,
  "responsebody": {
    "resourceType": "Bundle",
    "id": "059fe92cd66b5686987dd53fed340e69",
    "meta": {
      "lastUpdated": "2023-07-28T22:10:30.0214367+00:00"
    },
    "type": "searchset",
    "link": [
      {
        "relation": "self",
        "url": "https://ahdsfhirddia-ddia-fhir-
service.fhir.azurehealthcareapis.com/ExplanationOfBenefit?_count=1000&patient=154773"
      }
    ],
    "entry": [
      {
        "fullUrl": "https://ahdsfhirddia-ddia-fhir-
service.fhir.azurehealthcareapis.com/ExplanationOfBenefit/e7a7ald6-8aa4-49c5-ad43-3e9bb04c382c",
        "resource": {
          "resourceType": "ExplanationOfBenefit",
          "id": "e7a7ald6-8aa4-49c5-ad43-3e9bb04c382c",
          "meta": {
            "versionId": "1",
            "lastUpdated": "2023-07-28T20:41:59.944+00:00"
          },
          "text": {
            "status": "generated",
            "div": "<div xmlns=\"http://www.w3.org/1999/xhtml\">A human-
readable rendering of the ExplanationOfBenefit</div>"
          },
          "identifier": [
            {
              "system": "http://www.BenefitsInc.com/fhir/explanationofbenefit",
              "value": "PRAIRIE TRAILS FAMILY DENTAL"
            }
          ],
          "status": "active",
          "type": {
            "coding": [
              {
                "system": "http://terminology.hl7.org/CodeSystem/claim-type",
                "code": "ORAL"
              }
            ]
          },
          "use": "claim",

```

```
"patient": {
  "reference": "154773"
},
"created": "2015-01-01",
"enterer": {
  "reference": "Practitioner/9083-IA"
},
"insurer": {
  "reference": "Organization/FPL - Wellness Plan"
},
"provider": {
  "reference": "Practitioner/9083-IA"
},
"payee": {
  "type": {
    "coding": [
      {
        "system": "http://terminology.hl7.org/CodeSystem/payee-type",
        "code": "PROVIDER"
      }
    ]
  },
  "party": {
    "reference": "KANDY THOMAS"
  }
},
"claim": {
  "reference": "Claim/202300607546"
},
"claimResponse": {
  "reference": "ClaimResponse/"
},
"outcome": "complete",
"careTeam": [
  {
    "sequence": 1,
    "provider": {
      "reference": "Practitioner/9083-IA"
    }
  }
],
"insurance": [
  {
    "focal": true,
    "coverage": {
      "reference": "Coverage/"
    }
  }
]
```

USCLS"

```
    ],
    "item": [
      {
        "sequence": 1,
        "careTeamSequence": [
          1
        ],
        "productOrService": {
          "coding": [
            {
              "system": "http://terminology.hl7.org/CodeSystem/ex-
USCLS"
            }
          ]
        },
        "servicedDate": "2015-01-01",
        "adjudication": [
          {
            "category": {
              "coding": [
                {
                  "code": "PP"
                }
              ]
            }
          }
        ]
      }
    ]
  },
  "search": {
    "mode": "match"
  }
}
]
```