

GP IT Integration: FHIR Payload of Healthcare Data

Published Version 2.0

Publish Date 01.05.2024

```
{
  "Bundle": {
    "id": {
      "_value": "f4c01c74-ef04-46ad-918d-399d86568a8d"
    },
    "meta": {
      "lastUpdated": {
        "_value": "2021-06-20T10:22:00+00:00"
      }
    },
    "type": {
      "_value": "message"
    },
    "entry": [
      {
        "fullUrl": {
          "_value": "urn:uuid:7b1a7d5e-66b7-4926-aa18-4f1cdceaaaa0"
        },
        "resource": {
          "Patient": {
            "id": {
              "_value": "7b1a7d5e-66b7-4926-aa18-4f1cdceaaaa0"
            },
            "meta": {
              "profile": {
                "_value":
"https://fhir.hl7.org.uk/STU3/StructureDefinition/CareConnect-Patient-1"
              }
            },
            "extension": [
              {
                "valueCodeableConcept": {
                  "coding": {
                    "system": {
                      "_value":
"https://fhir.hl7.org.uk/STU3/CodeSystem/CareConnect-EthnicCategory-1"
                    },
                    "code": {
                      "_value": "E"
                    },
                    "display": {
                      "_value": "White and Black African"
                    }
                  }
                },
                "_url":
"https://fhir.hl7.org.uk/STU3/StructureDefinition/Extension-CareConnect-EthnicCategory-1"
              },
              {
                "extension": [
                  {
                    "valueCodeableConcept": {
                      "coding": {
                        "system": {
                          "_value":
"https://fhir.hl7.org.uk/STU3/CodeSystem/CareConnect-HumanLanguage-1"
                        },
                        "code": {
                          "_value": "q4"
                        }
                      }
                    }
                  }
                ]
              }
            ]
          }
        }
      ]
    }
  }
}
```

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```
        },
        "display": {
          "_value": "British Sign Language"
        }
      },
      "_url": "language"
    },
    {
      "valueBoolean": {
        "_value": "true"
      },
      "_url": "interpreterRequired"
    }
  ],
  "_url":
  "https://fhir.hl7.org.uk/STU3/StructureDefinition/Extension-CareConnect-
  NHSCommunication-1"
},
{
  "valueCodeableConcept": {
    "coding": {
      "system": {
        "_value":
  "https://fhir.hl7.org.uk/CodeSystem/UKCore-ResidentialStatus"
      },
      "code": {
        "_value": "H"
      },
      "display": {
        "_value": "UK Resident"
      }
    }
  },
  "_url":
  "https://fhir.hl7.org.uk/StructureDefinition/Extension-UKCore-
  ResidentialStatus"
},
  "identifier": {
    "extension": {
      "valueCodeableConcept": {
        "coding": {
          "system": {
            "_value":
  "https://fhir.hl7.org.uk/STU3/CodeSystem/CareConnect-
  NHSNumberVerificationStatus-1"
          },
          "code": {
            "_value": "01"
          },
          "display": {
            "_value": "Number present and verified"
          }
        }
      }
    },
    "_url":
  "https://fhir.hl7.org.uk/STU3/StructureDefinition/Extension-CareConnect-
  NHSNumberVerificationStatus-1"
  },
}
```

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```
    "system": {
      "_value": "https://fhir.nhs.uk/Id/nhs-number"
    },
    "value": {
      "_value": "9999999999"
    }
  },
  "name": [
    {
      "use": {
        "_value": "official"
      },
      "family": {
        "_value": "Bryson"
      },
      "given": [
        {
          "_value": "Bill"
        },
        {
          "_value": "Bob"
        }
      ],
      "prefix": {
        "_value": "Mr"
      }
    },
    {
      "use": {
        "_value": "old"
      },
      "family": {
        "_value": "Smith"
      }
    }
  ],
  "telecom": [
    {
      "system": {
        "_value": "email"
      },
      "value": {
        "_value": "Bill@Bryson.com"
      }
    },
    {
      "system": {
        "_value": "phone"
      },
      "value": {
        "_value": "07819194445"
      },
      "use": {
        "_value": "mobile"
      }
    },
    {
      "system": {
        "_value": "phone"
      }
    }
  ],
```

```
        "value": {
          "_value": "0161123456"
        }
      ],
      "gender": {
        "_value": "male"
      },
      "birthDate": {
        "_value": "1990-01-01"
      },
      "address": [
        {
          "use": {
            "_value": "old"
          },
          "line": [
            {
              "_value": "Flat 1"
            },
            {
              "_value": "28 Ashbrook Close"
            },
            {
              "_value": "Ossett"
            }
          ],
          "postalCode": {
            "_value": "WF5 9DU"
          }
        },
        {
          "use": {
            "_value": "home"
          },
          "line": [
            {
              "_value": "Flat 2"
            },
            {
              "_value": "28 Ashbrook Close"
            },
            {
              "_value": "Ossett"
            }
          ],
          "postalCode": {
            "_value": "WF5 9DU"
          }
        }
      ],
      "contact": {
        "relationship": {
          "coding": {
            "system": {
              "_value": "http://hl7.org/fhir/v2/0131"
            },
            "code": {
              "_value": "C"
            }
          }
        }
      }
    }
  ],
  "contact": [
    {
      "use": {
        "_value": "old"
      },
      "line": [
        {
          "_value": "Flat 1"
        },
        {
          "_value": "28 Ashbrook Close"
        },
        {
          "_value": "Ossett"
        }
      ],
      "postalCode": {
        "_value": "WF5 9DU"
      }
    },
    {
      "use": {
        "_value": "home"
      },
      "line": [
        {
          "_value": "Flat 2"
        },
        {
          "_value": "28 Ashbrook Close"
        },
        {
          "_value": "Ossett"
        }
      ],
      "postalCode": {
        "_value": "WF5 9DU"
      }
    }
  ],
  "contact": {
    "relationship": {
      "coding": {
        "system": {
          "_value": "http://hl7.org/fhir/v2/0131"
        },
        "code": {
          "_value": "C"
        }
      }
    }
  }
}
```

```
        "display": {
          "_value": "Emergency Contact"
        }
      },
      "name": {
        "use": {
          "_value": "usual"
        },
        "text": {
          "_value": "John Doe"
        }
      },
      "telecom": {
        "system": {
          "_value": "phone"
        },
        "value": {
          "_value": "07123476234"
        },
        "use": {
          "_value": "mobile"
        }
      }
    }
  },
  {
    "fullUrl": {
      "_value": "urn:uuid:398c7322-3823-47dc-aaf3-5f14d663a11f"
    },
    "resource": {
      "QuestionnaireResponse": {
        "id": {
          "_value": "398c7322-3823-47dc-aaf3-5f14d663a11f"
        },
        "status": {
          "_value": "completed"
        },
        "subject": {
          "reference": {
            "_value": "urn:uuid:7b1a7d5e-66b7-4926-aa18-4f1cdceaaaa0"
          }
        }
      },
      "item": {
        "linkId": {
          "_value": "additional-demographics"
        },
        "text": {
          "_value": "Additional Demographics"
        },
        "item": [
          {
            "linkId": {
              "_value": "gender-identity-same-as-assigned-at-birth"
            },
            "text": {
              "_value": "Gender identity same as assigned at birth"
            }
          }
        ]
      }
    }
  }
}
```

```
        "answer": {
          "valueString": {
            "_value": "No"
          }
        }
      },
      {
        "linkId": {
          "_value": "armed-forces"
        },
        "text": {
          "_value": "Armed Forces"
        },
        "answer": {
          "valueString": {
            "_value": "Yes"
          }
        }
      }
    },
    {
      "linkId": {
        "_value": "recently-moved-to-uk"
      },
      "text": {
        "_value": "Recently Moved to UK"
      },
      "answer": {
        "valueString": {
          "_value": "Yes"
        }
      }
    }
  },
  {
    "linkId": {
      "_value": "country-of-birth"
    },
    "text": {
      "_value": "Country of Birth"
    },
    "answer": {
      "valueString": {
        "_value": "France"
      }
    }
  },
  {
    "linkId": {
      "_value": "enter-uk"
    },
    "text": {
      "_value": "Enter UK"
    },
    "answer": {
      "valueString": {
        "_value": "1990-01-01"
      }
    }
  },
  {
    "linkId": {
```

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```
        "_value": "moved-from-eu-eea-switzerland"
      },
      "text": {
        "_value": "Moved from EU, EEA or Switzerland"
      },
      "answer": {
        "valueString": {
          "_value": "Yes"
        }
      }
    },
    {
      "linkId": {
        "_value": "ehic-or-s1"
      },
      "text": {
        "_value": "EHIC or S1"
      },
      "answer": {
        "valueString": {
          "_value": "EHIC"
        }
      }
    },
    {
      "linkId": {
        "_value": "date-left-uk"
      },
      "text": {
        "_value": "Date Left UK"
      },
      "answer": {
        "valueString": {
          "_value": "2022-01-01"
        }
      }
    },
    {
      "linkId": {
        "_value": "returning-to-uk"
      },
      "text": {
        "_value": "Returning to UK"
      },
      "answer": {
        "valueString": {
          "_value": "Yes"
        }
      }
    },
    {
      "linkId": {
        "_value": "gp-address"
      },
      "text": {
        "_value": "GP Address"
      },
      "answer": {
        "valueAddress": {
          "line": [
```

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```
        {
          "_value": "GP surgery"
        },
        {
          "_value": "Flat 1"
        },
        {
          "_value": "28 Ashbrook Close"
        },
        {
          "_value": "Ossett"
        }
      ],
      "postalCode": {
        "_value": "WF5 9DU"
      }
    }
  }
}
},
{
  "fullUrl": {
    "_value": "urn:uuid:908bddb4-ed2d-4e32-9151-1df1421b0cbd"
  },
  "resource": {
    "QuestionnaireResponse": {
      "id": {
        "_value": "908bddb4-ed2d-4e32-9151-1df1421b0cbd"
      },
      "status": {
        "_value": "completed"
      },
      "subject": {
        "reference": {
          "_value": "urn:uuid:7b1a7d5e-66b7-4926-aa18-4f1cdceaaaa0"
        }
      },
      "item": [
        {
          "linkId": {
            "_value": "medical-conditions"
          },
          "text": {
            "_value": "Medical Conditions"
          },
          "item": [
            {
              "linkId": {
                "_value": "existing-medical-conditions"
              },
              "text": {
                "_value": "Existing Medical Conditions"
              },
              "answer": {
                "valueString": {
                  "_value": "Yes"
                }
              }
            }
          ]
        }
      ]
    }
  }
}
```



```
    }
  },
  {
    "linkId": {
      "_value": "existing-and-pre-existing-medical-conditions"
    },
    "text": {
      "_value": "Existing and pre-existing medical conditions"
    },
    "answer": {
      "valueString": {
        "_value": "Asthma"
      }
    }
  },
  {
    "linkId": {
      "_value": "medical-condition-details"
    },
    "text": {
      "_value": "Medical condition details"
    },
    "answer": {
      "valueString": {
        "_value": "Atrial Fibrillation"
      }
    }
  }
]
},
{
  "linkId": {
    "_value": "allergies"
  },
  "text": {
    "_value": "Allergies"
  },
  "item": [
    {
      "linkId": {
        "_value": "allergies"
      },
      "text": {
        "_value": "Allergies"
      },
      "answer": {
        "valueString": {
          "_value": "Yes"
        }
      }
    }
  ],
  {
    "linkId": {
      "_value": "Allergies details"
    },
    "text": {
      "_value": "Allergies details"
    }
  }
}
```

```
    },
    "answer": {
      "valueString": {
        "_value": "Allergy to tree pollen"
      }
    }
  ]
},
{
  "linkId": {
    "_value": "mental-health"
  },
  "text": {
    "_value": "Mental Health"
  },
  "item": [
    {
      "linkId": {
        "_value": "mental-health-conditions"
      },
      "text": {
        "_value": "Mental health conditions"
      },
      "answer": {
        "valueString": {
          "_value": "Yes"
        }
      }
    },
    {
      "linkId": {
        "_value": "mental-health-details"
      },
      "text": {
        "_value": "Mental health details"
      },
      "answer": {
        "valueString": {
          "_value": "Anxiety"
        }
      }
    }
  ]
},
{
  "linkId": {
    "_value": "disabilities"
  },
  "text": {
    "_value": "Disabilities"
  },
  "item": [
    {
      "linkId": {
        "_value": "disabilities"
      },
      "text": {
        "_value": "Disabilities"
      }
    }
  ],
}
```

```
        "answer": {
          "valueString": {
            "_value": "Yes"
          }
        }
      },
      {
        "linkId": {
          "_value": "disabilities-details"
        },
        "text": {
          "_value": "Disabilities details"
        },
        "answer": {
          "valueString": {
            "_value": "Visual impairment"
          }
        }
      }
    ]
  },
  {
    "linkId": {
      "_value": "medication"
    },
    "text": {
      "_value": "Medication"
    },
    "item": [
      {
        "linkId": {
          "_value": "current-prescription-medication"
        },
        "text": {
          "_value": "Current prescription medication"
        },
        "answer": {
          "valueString": {
            "_value": "Yes"
          }
        }
      },
      {
        "linkId": {
          "_value": "prescriptions-medication-details"
        },
        "text": {
          "_value": "Prescriptions medication details"
        },
        "answer": {
          "valueString": {
            "_value": "Paracetamol"
          }
        }
      }
    ]
  },
  {
    "linkId": {
      "_value": "alcohol"
    }
  }
}
```

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```
    },
    "text": {
      "_value": "alcohol"
    },
    "item": [
      {
        "linkId": {
          "_value": "how-often-do-you-drink-alcohol"
        },
        "text": {
          "_value": "How often do you drink alcohol"
        },
        "answer": {
          "valueString": {
            "_value": "Weekly"
          }
        }
      },
      {
        "linkId": {
          "_value": "alcohol-unit-consumption-in-an-average-
week"
        },
        "text": {
          "_value": "Alcohol unit consumption in an avergae
week"
        },
        "answer": {
          "valueString": {
            "_value": "2.5"
          }
        }
      },
      {
        "linkId": {
          "_value": "six-or-more-units"
        },
        "text": {
          "_value": "Six or More Units"
        },
        "answer": {
          "valueString": {
            "_value": "Never"
          }
        }
      }
    ]
  }
}
},
{
  "fullUrl": {
    "_value": "urn:uuid:34b25345-6203-4184-8c84-00089fdb818c"
  },
  "resource": {
    "QuestionnaireResponse": {
      "id": {
        "_value": "34b25345-6203-4184-8c84-00089fdb818c"
      }
    }
  }
}
```

```
    },
    "status": {
      "_value": "completed"
    },
    "subject": {
      "reference": {
        "_value": "urn:uuid:7b1a7d5e-66b7-4926-aa18-4f1cdceaaaa0"
      }
    },
    "item": {
      "linkId": {
        "_value": "meta-data"
      },
      "text": {
        "_value": "Meta Data"
      },
      "item": [
        {
          "linkId": {
            "_value": "registration-type"
          },
          "text": {
            "_value": "Registration Type"
          },
          "answer": {
            "valueString": {
              "_value": "Type 1 Birth"
            }
          }
        },
        {
          "linkId": {
            "_value": "date-and-time-of-submission"
          },
          "text": {
            "_value": "Date and Time of submission"
          },
          "answer": {
            "valueString": {
              "_value": "2022-01-05T16:45:34"
            }
          }
        },
        {
          "linkId": {
            "_value": "application-reference-number"
          },
          "text": {
            "_value": "Application reference number"
          },
          "answer": {
            "valueString": {
              "_value": "1234PS-00011935"
            }
          }
        },
        {
          "linkId": {
            "_value": "identity-proofing-level"
          }
        }
      ]
    }
  },
  "linkId": {
    "_value": "identity-proofing-level"
  }
}
```

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```
        "text": {
          "_value": "Identity Proofing Level"
        },
        "answer": {
          "valueString": {
            "_value": "P0"
          }
        }
      },
      {
        "linkId": {
          "_value": "pds-match"
        },
        "text": {
          "_value": "PDS Match"
        },
        "answer": {
          "valueString": {
            "_value": "Match"
          }
        }
      },
      {
        "linkId": {
          "_value": "pds-death"
        },
        "text": {
          "_value": "PDS Death"
        },
        "answer": {
          "valueString": {
            "_value": "Dead"
          }
        }
      },
      {
        "linkId": {
          "_value": "pds-matched-nhs-number"
        },
        "text": {
          "_value": "PDS Matched NHS Number"
        },
        "answer": {
          "valueString": {
            "_value": "9999999999"
          }
        }
      },
      {
        "linkId": {
          "_value": "pds-different-nhs-number"
        },
        "text": {
          "_value": "PDS NHS number different to patient
entered NHS number"
        },
        "answer": {
          "valueString": {
```

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```
        "_value": "PDS search doesn't match the NHS#
patient provided but successfully matches to patient record (NHS#
1234567890) you may wish to check the details."
    }
  },
  {
    "linkId": {
      "_value": "patient-ehic-to-nbo"
    },
    "text": {
      "_value": "Patient EHIC to NBO"
    },
    "answer": {
      "valueString": {
        "_value": "Yes"
      }
    }
  }
]
}
}
},
{
  "fullUrl": "urn:uuid:b33d584b-8e73-4458-8956-cd2adbe8ec44",
  "resource": {
    "resourceType": "Observation",
    "status": "final",
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "398089004",
          "display": "Ethnic background"
        }
      ]
    },
    "subject": {
      "reference": "Patient/d574c90c-887a-4b6d-93c4-1aa3cb74c1eb"
    },
    "effectiveDateTime": "2024-04-19T10:32:27+00:00",
    "issued": "2024-04-19T10:32:27.262+00:00",
    "valueCodeableConcept": {
      "coding": [
        {
          "system": "https://fhir.hl7.org.uk/CodeSystem/UKCore-
EthnicCategoryWales",
          "code": "J",
          "display": "Pakistani"
        }
      ]
    }
  },
  "request": {
    "method": "POST",
    "url": "Observation"
  }
},
{
```

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```
"fullUrl": "urn:uuid:2ec26083-d591-4120-b7d6-4983979b9e96",
"resource": {
  "resourceType": "Observation",
  "status": "final",
  "code": {
    "coding": [
      {
        "system": "http://snomed.info/sct",
        "code": "50373000",
        "display": "Body height measure"
      }
    ]
  },
  "subject": {
    "reference": "Patient/d574c90c-887a-4b6d-93c4-1aa3cb74c1eb"
  },
  "effectiveDateTime": "2024-04-19T10:32:27+00:00",
  "issued": "2024-04-19T10:32:27.262+00:00",
  "valueQuantity": {
    "value": 175,
    "unit": "centimeters"
  }
},
"request": {
  "method": "POST",
  "url": "Observation"
}
},
{
  "fullUrl": "urn:uuid:35b876d3-eeb6-4e09-a6ab-1e4d209e259e",
  "resource": {
    "resourceType": "Observation",
    "status": "final",
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "27113001",
          "display": "Body weight"
        }
      ]
    },
    "subject": {
      "reference": "Patient/d574c90c-887a-4b6d-93c4-1aa3cb74c1eb"
    },
    "effectiveDateTime": "2024-04-19T10:32:27+00:00",
    "issued": "2024-04-19T10:32:27.262+00:00",
    "valueQuantity": {
      "value": 75,
      "unit": "kilogram",
      "system": "http://unitsofmeasure.org",
      "code": "kg"
    }
  },
  "request": {
    "method": "POST",
    "url": "Observation"
  }
},
{
```


GP IT Integration: FHIR Payload of Healthcare Data

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```
"fullUrl": "urn:uuid:35b876d3-eeb6-4e09-a6ab-1e4d209e259e",
"resource": {
  "resourceType": "Observation",
  "status": "final",
  "code": {
    "coding": [
      {
        "system": "http://snomed.info/sct",
        "code": "77176002",
        "display": "Smoking"
      }
    ]
  },
  "subject": {
    "reference": "Patient/d574c90c-887a-4b6d-93c4-1aa3cb74c1eb"
  },
  "effectiveDateTime": "2024-04-19T10:32:27+00:00",
  "issued": "2024-04-19T10:32:27.262+00:00",
  "valueQuantity": {
    "value": "8517006"
  }
},
"request": {
  "method": "POST",
  "url": "Observation"
}
}
]
}
```

