

02/11/2021

## RENOVA GROUP DETAILS AND API EXAMPLES

**group code:** renova

**action plan:** 9905

**user\_id:** LSM55188

**ECG Carrier:** UPS

### Example of FHIR JSON objects

The JSON object is in accordance with the HL7 observation vital-signs JSON format. Here is the link:  
<http://hl7.org/fhir/STU3/observation.html>

#### **Blood Pressure FHIR Record Example**

```
[
{
  "resourceType": "Observation",
  "id": "blood-pressure",
  "identifier": [
    {
      "use": "official",
      "system": "urn:oid:2.16.840.1.113883.4.969.1",
      "value": "fea38c69-b6a1-42cc-9787-bf8e8159a503"
    }
  ],
  "status": "final",
  "category": [
    {
      "coding": [
        {
          "system": "http://terminology.hl7.org/CodeSystem/observation-category",
          "code": "vital-signs",
          "display": "Vital Signs"
        }
      ]
    }
  ],
  "text": "Vital Signs"
},
{
  "code": {
    "coding": [
      {
        "system": "http://snomed.info/sct",
        "code": "75367002",
        "display": "Blood pressure systolic and diastolic"
      }
    ]
  }
}
```

(HL7 ECG organization ID)  
(ECG observation ID)

```

    }
  ],
  "text": "Blood pressure systolic and diastolic"
},
"subject": [
  {
    "identifier": {
      "system": "urn:oid:2.16.840.1.113883.4.969.2",
      "value": "ANS1111"
    }
  }
],
"effectiveDateTime": "2020-12-31T15:26:32.000Z",
"component": [
  {
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "271649006",
          "display": "Systolic blood pressure"
        }
      ]
    }
  },
  {
    "valueQuantity": {
      "value": 139,
      "unit": "mmHg",
      "system": "http://unitsofmeasure.org",
      "code": "mm[Hg]"
    }
  },
  {
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "271650006",
          "display": "Diastolic blood pressure"
        }
      ]
    }
  },
  {
    "valueQuantity": {
      "value": 100,
      "unit": "mmHg",
      "system": "http://unitsofmeasure.org",
      "code": "mm[Hg]"
    }
  }
]
}

```

**(HL7 ECG Prohealth System ID)**  
**(ECG Device ID)**

```

    ],
    "device": [
      {
        "identifier": {
          "system": "urn:oid:2.16.840.1.113883.4.969.7",
          "value": "30038543902268750596"
        }
      }
    ],
  },
  {
    "resourceType": "Observation",
    "id": "heart-rate",
    "identifier": [
      {
        "use": "official",
        "system": "urn:oid:2.16.840.1.113883.4.969.1",
        "value": "fea38c69-b6a1-42cc-9787-bf8e8159a503"
      }
    ],
    "status": "final",
    "category": [
      {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/observation-category",
            "code": "vital-signs",
            "display": "Vital Signs"
          }
        ],
        "text": "Vital Signs"
      }
    ],
    "code": {
      "coding": [
        {
          "system": "http://snomed.info/sct",
          "code": "444981005",
          "display": "Resting heart rate"
        }
      ],
      "text": "Resting heart rate"
    },
    "subject": [
      {
        "identifier": {
          "system": "urn:oid:2.16.840.1.113883.4.969.2",
          "value": "ANS1111"
        }
      }
    ]
  }
]

```

**(HL7 ECG Manufacturer ID)**  
**(Manufacturer Device ID)**

**(HL7 ECG organization ID)**  
**(ECG observation ID)**

**(HL7 ECG Prohealth System ID)**  
**(ECG Device ID)**

```

    }
  }
],
"effectiveDateTime": "2020-12-31T15:26:32.000Z",
"valueQuantity": {
  "value": 60,
  "unit": "beats/minute",
  "system": "http://unitsofmeasure.org",
  "code": "/min"
},
"device": [
  {
    "identifier": {
      "system": "urn:oid:2.16.840.1.113883.4.969.7",
      "value": "30038543902268750596"
    }
  }
]
}
]

```

(HL7 ECG Manufacturer ID)  
(Manufacturer Device ID)

### **Temperature FHIR Record Example**

```

{
  "ts": "2020-09-30T16:58:50.820Z",
  "fhir": {
    "resourceType": "Observation",
    "id": "body-temperature",
    "identifier": [
      {
        "use": "official",
        "system": "urn:oid:2.16.840.1.113883.4.969.1",
        "value": "fea38c69-b6a1-42cc-9787-bf8e8159a503"
      }
    ],
    "status": "final",
    "category": [
      {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/observation-category",
            "code": "vital-signs",
            "display": "Vital Signs"
          }
        ],
        "text": "Vital Signs"
      }
    ]
  }
}

```

(HL7 ECG organization ID)  
(ECG observation ID)

```

"code": {
  "coding": [
    {
      "system": "http://snomed.info/sct",
      "code": "386725007",
      "display": "Body temperature"
    }
  ],
  "text": "Body temperature"
},
"subject": [
  {
    "identifier": {
      "system": "urn:oid:2.16.840.1.113883.4.969.2",
      "value": "ANS1111"
    }
  }
],
"effectiveDateTime": "2020-09-30T16:58:49Z",
"valueQuantity": {
  "value": 97.3,
  "unit": "degrees F",
  "system": "http://unitsofmeasure.org",
  "code": "[degF]"
},
"device": [
  {
    "identifier": {
      "system": "urn:oid:2.16.840.1.113883.4.969.7",
      "value": "30038543902268750596"
    }
  }
]
}

```

(HL7 ECG Prohealth System ID)  
(ECG Device ID)

(HL7 ECG Manufacturer ID)  
(Manufacturer Device ID)

## Med Reminder Array of objects

```

"med_reminder": [
  {
    "time": "10:00",
    "am_pm": "AM",
    "message": "This is a reminder to take your medication."
  },
  {
    "time": "10:00",
    "am_pm": "PM",
    "message": "This is a reminder to take your second dose of medication."
  }
]

```

## Medication Reminder Message Examples: (Static daily reminders)

### Example of New Order Webhook Payload

## GET /groups/{groupName}/offices

```
{
  "data": [
    {
      "id": "6433e527ccc68c39f61f66bdc1b8357d",
      "customId": "RH01",
      "groupName": "RenovaHealthLLC",
      "name": "Renova",
      "description": "Renova Health",
      "billingPhone": "601.382.9082",
      "billingFirst": "Carter",
      "billingLast": "Ilgenfritz",
      "billingAddress": "381 Riverside Drive, Suite 400",
      "billingCity": "Franklin",
      "billingState": "TN",
      "billingZip": "37064",
      "billingEmail": "cilgenfritz@renovahealth.care",
      "alternatePhone": "",
      "physicians": [
        "Renova Health"
      ]
    }
  ],
  "message": [
    "Success"
  ]
}
```

## GET /groups/{groupName}/devices/{id}/thresholds

```
[
  {
    "createdAt": "2020-05-01T18:32:41.108Z",
    "maximum": "100.2",
    "minumum": "95",
    "vitalType": "Thermometer",
    "deviceId": "ANS1111"
  }
]
```

## Group Vital Thresholds

bpmHigh  
bpmLow  
diastolicHigh  
diastolicLow  
glucoseHigh  
glucoseLow  
oxSatHigh  
oxSatLow  
systolicHigh  
systolicLow  
temperatureHigh  
temperatureLow

*These thresholds are used to add/update and retrieve thresholds set for the whole group:*

GET /groups/{groupName}/thresholds  
PUT /groups/{groupName}/thresholds

## Patient Vital Types

Thermometer  
BPM  
Diastolic  
Oxygen  
Systolic  
weight  
Glucose

*These types are used to retrieve, add/update, or delete patient thresholds:*

GET /groups/{groupName}/devices/{id}/thresholds  
PUT /groups/{groupName}/devices/{id}/thresholds  
DELETE /groups/{groupName}/devices/{id}/thresholds