

Roadmap for Interoperability

How BCBST is Leveraging CMS-0057 and
the BCBS Interoperability Hub Deadlines
as a Strategic Advantage

Introductions



Jeremy Yoon
Senior Product Manager,
1upHealth



Adam Foust
Manager of EDI &
Interoperability, BCBST

Agenda

Apr 20, 2026



- Interoperability Challenges
- Solutions
- Demo: BCBSA + 1up Connectivity
- Looking Ahead



Interoperability Challenges

Three Challenges to Interoperability



Legacy Infrastructure



Sourcing Data



Building Networks

CHALLENGE 1:

Legacy Infrastructure

- Legacy processes still influence delivery timelines, and even straightforward integrations can take longer than expected
- File-based workflows remain closely tied to manual processes and legacy authorization steps
- ITIL tooling has evolved, but many service requests still rely on manual handling, creating friction for routine tasks such as credentialing
- Establishing SFTP connectivity required more than two months, even without significant roadblocks
- API-native work can move quickly, but dependencies on legacy processes often affect overall delivery speed

CHALLENGE 2:

Sourcing Data

- Loading data into FHIR is often the easier part; the greater effort is identifying sources, aligning ownership, and organizing the data for use
- Internal teams are often highly focused on their respective domains, which can make end-to-end data alignment more challenging
- Once the data foundation is in place, it becomes possible to enable more frictionless access
- This also positions the organization to scale across future interoperability use cases
- Data becomes more valuable as it is standardized, enriched, and activated across the enterprise

CHALLENGE 3:

Building Networks

- Bringing a single application (Flexpa) into the SMART app network required months to navigate service request backlogs before a working credential was available
- National networks such as eHealth Exchange and TEFCA represent important progress, with continued adoption and data utilization needed to realize their full value
- Early payer-to-payer efforts did not reach production because the industry had not yet aligned on a common connection model

Solutions

SOLUTION 1:

Legacy Infrastructure

- 1up provides the **API connectivity layer** that insulates modern interoperability work from legacy infrastructure
 - 1up integrates via FHIR APIs, and provides legacy support (e.g. sFTP) as needed
 - The entire credential and integration surface is API-native, which sidesteps legacy file-handling processes entirely
- **1up DevPortal:** Providers, payers, and third party apps all benefit from a single developer sandbox to complete vetting and establish connectivity

SOLUTION 2:

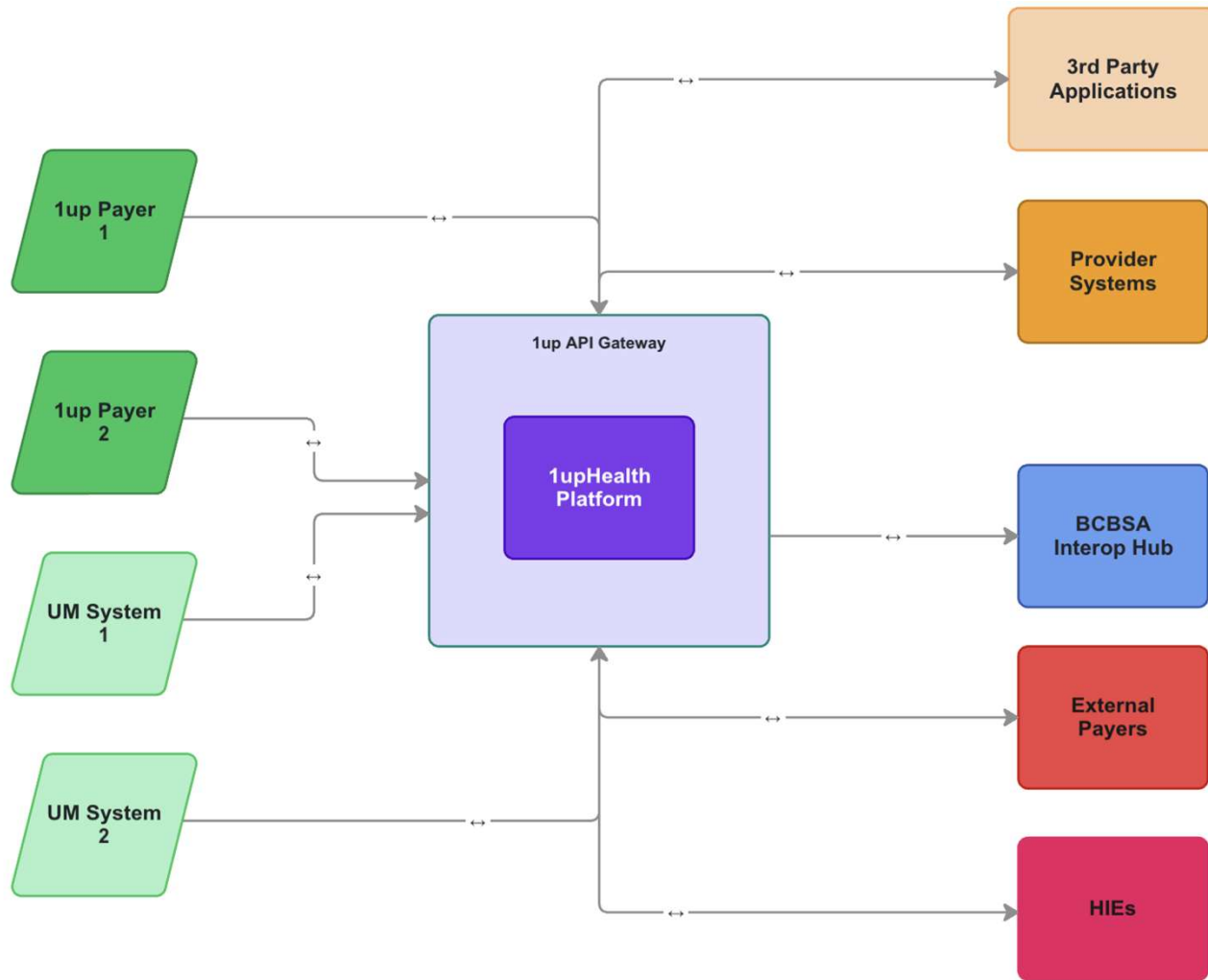
Sourcing Data

- The 1up Platform is designed as a data lakehouse architecture that establishes a canonical data model, consistent definitions, formats, and allowed values for core fields, with identifiers and code systems standardized
- 1up's FHIR normalization layer and flexible ingest centralizes data standardization and connects **directly to source systems**
- 1up's tools such as SQL on FHIR make FHIR data accessible to query and visualize data directly

SOLUTION 3:

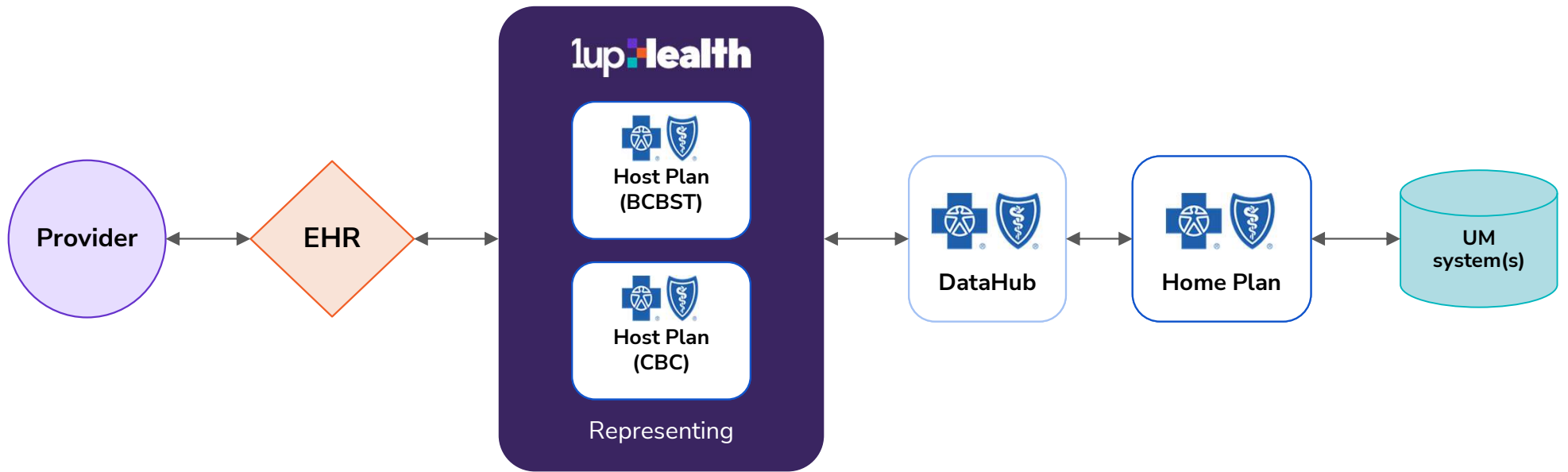
Building Networks

- 1up's Platform is **purpose-built for connectivity** across EHRs, UM systems, third-party apps, payers, and more
 - Each new Payer, Provider, and App strengthens the network for all existing participants
 - Future opportunities to connect to TEFCA
- BCBSA hub: 1up was first to implement cross-plan Blues routing connecting Home Plans and Host Plans via the hub
- Payer-to-Payer: 1up provides a standardized integration layer and expanding network

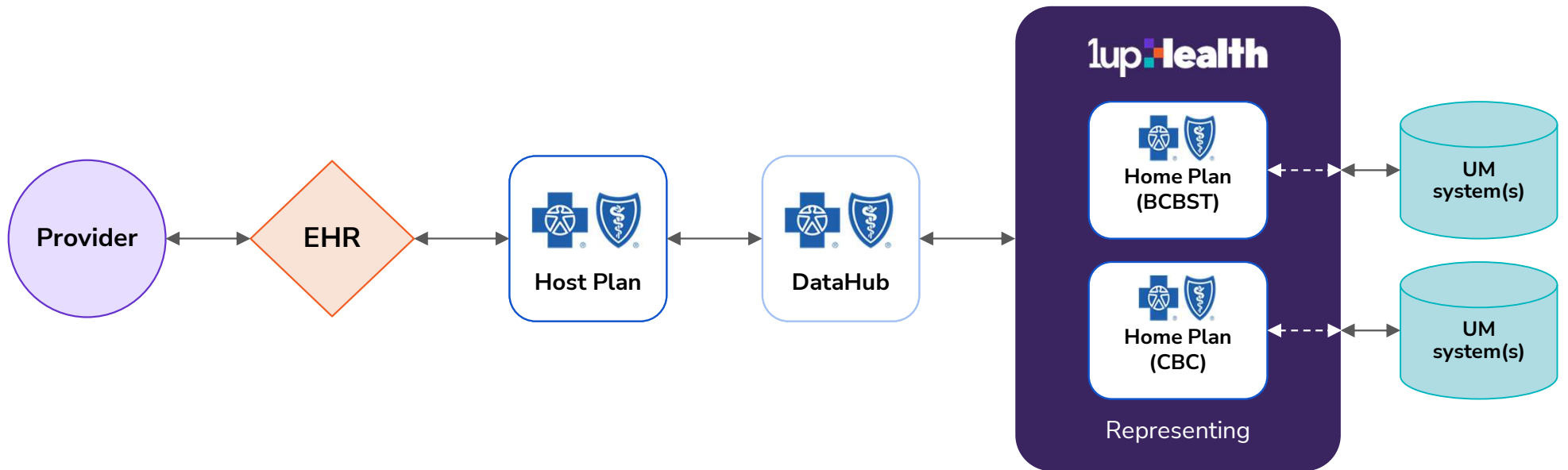


Demo

BCBSA Hub Routing for ePA: Sending Requests



BCBSA Hub Routing for ePA: Receiving Requests



Provider begins a new patient visit

Next →

1 of 12

Welcome Jer

- Pending
 - Prescriptions
 - Laboratory Orders
 - Procedure Orders
 - Device Orders
 - Medication Orders
- Other
 - Laboratory Results
















0 Upcoming Appointments → All Appointments	0 Pending Tasks → All Tasks	15 Patients
390 Ongoing Encounters + New	27 Unsigned Procedure Orders + New	0 Unsigned Device Orders + New
0 Unsigned Lab Orders + New	1 Unsigned Medication Orders + New	



CREATE

Filters Group By Favorites

1-15 / 15 < > [Icons]

 <p>Kandace Kautzer Female 09/30/2000</p>	 <p>Andre Hudson Male 04/27/1962 BCBSTN</p>	 <p>Carmelo Prosacco Male 04/18/1951 BCBSTN</p>	 <p>Galen Bins Male 09/06/1971 BCBSTN</p>	 <p>Trula Bauch Female 12/31/1993 BCBS MA</p>
 <p>Brice Marquardt Male 03/18/1966 BCBS MA</p>	 <p>Janeth Huels (ePA) Female 02/06/1992 1upDev</p>	 <p>Caroll White Female 10/16/2007</p>	 <p>Albert Weimann (ePA) Male 03/28/1975 GenHealth</p>	 <p>Lorenzo Gerhold (ePA) Male 08/15/1953 1upUAT - demo</p>
 <p>Demo Patient Male 11/01/1983 BCBSTN</p>	 <p>Abby Anesthesia (ePA) Female 12/24/1965 Cambia Health</p>	 <p>Marvin McKinney (ePA) Male 12/24/1965 1upQA</p>	 <p>Jenny Wilson (ePA) Female 09/30/2000 QA Demo Payer</p>	 <p>Mildred Demo- CoreDev (ePA) Female 03/28/2024 BCBSA Plan</p>

Provider selects the patient

Next →

Back 2 of 12



Patient / Mildred Demo-CoreDev (ePA) / ENC - Visited on - April 14 2026 ⚙️ Action 1 / 1 < >

Workspace Visit Information

Primary

- Vitals
- Enter Diagnosis
- + New Device Request
- + New Medication Request
- + New Procedure/Service Request
- + New Lab Request
- You have 0 Unsigned
→ Sign All
- Prior Test Results**
You have 0 Diagnostic Reports
→ View All Diagnostic Reports
- Prior Authorization**
You have 0 Signed Orders
→ Prepare PriorAuthorization


New procedure request

Next →

Back 5 of 12

Symptoms and Notes

Notes during encounter...


< >

- ✕
- 📄 Visit information
- 📄 Diagnosis
- 📄 Medications, Allergies and Immunizations
- 📄 Procedures
- 📄 Diagnostic Reports
- 📄 Care Coordination
- 📄 Miscellaneous
- 📄 Administrative
- 📄 Orders

Patient / Mildred Demo-CoreDev (ePA) / ENC - Visited on - April 14 2026 / New ⚙️ Action

DRAFT ACTIVE ON HOLD REVOKED COMPLETED ENTERED IN ERROR UNKNOWN

Procedure Order

Procedure Name	Desired time or schedule
43775	Start End
Under Laparoscopic Bariatric Surgery Procedures	Category
Jeremy Yoon	Intent
Perfo	Order
Practi	

Provider enters the procedure code "43775"

Next →

Back 6 of 12



Mildred Demo-CoreDev (ePA)

Contact
77 woofers lane
coonhoundville MA 09876

Insurance Details
BCBSA Plan
1111



Patient / Mildred Dem

on - April 14 2026 / Under Laparoscopic Bariatric Surgery Procedures- Created on April 14 2026

Action 1 / 1 < >

SIGN ORDER

Provider signs the order triggering the "order-sign" CDS hook

The EHR makes a request to the Host Plan (ex: BCBS IL)

Next →

Back

7 of 12

DRAFT ACTIVE ON HOLD REVOKED COMPLETED ENTERED IN ERROR UNKNOWN

Procedure Order

Procedure Name

Under Laparoscopic Bar

43775 ▶

CPT

Requester

Jeremy Yoon

Performers

Desired time or schedule

Start End

Category

Intent

Order

Reasons DTR Prior Authorization Additional Info

Request Reason

Conditions

Observations

Diagnostic Reports

Document References



DISPATCH ORDER

DRAFT ACTIVE ON HOLD REVOKED COMPLETED ENTERED IN ERROR UNKNOWN

Procedure Order

Patient

Mildred Demo-CoreDev (ePA)

Procedure Name

Under Laparoscopic Bariatric Surgery Procedures

43775 ▶

CPT

Requester

Jeremy Yoon

Desired time or schedule

Start End

Category

Intent

Order

Coverage Information Reasons DTR Prior Authorization Additional Info Technical

Viewing the request and responses

Next →

Back

8 of 12

#TransactionId	Name	Direction	Created on
a153f744-381c-11f1-add8-0a2d94f3c43f	Request to 1up dev demo BCBSA Discovery Endpoint	Outgoing	04/14/2026 11:11:43
a153f745-381c-11f1-add8-0a2d94f3c43f	Response from 1up dev demo BCBSA Discovery Endpoint	Incoming	04/14/2026 11:11:43
a276fb4e-381c-11f1-add8-0a2d94f3c43f	Request to 1up dev demo BCBSA	Outgoing	04/14/2026 11:11:43
a276fb4f-381c-11f1-add8-0a2d94f3c43f	Response from 1up dev demo BCBSA	Incoming	04/14/2026 11:11:43



DISPATCH ORDER

Procedure Order

Patient
Mildred Demo-CoreDev (ePA)

Procedure Name
Under Laparoscopic Bariatric Surgery Proced

43775 ▶
CPT

Requester
Jeremy Yoon

Coverage Information Reasons DTR

- #TransactionId
- a153f744-381c-11f1-add8-0a2d94f3c43f
- a153f745-381c-11f1-add8-0a2d94f3c43f
- a276fb4e-381c-11f1-add8-0a2d94f3c43f
- a276fb4f-381c-11f1-add8-0a2d94f3c43f

Open: Network Traffic

#TransactionId
a276fb4e-381c-11f1-add8-0a2d94f3c43f

Name
Request to 1up dev demo BCBSA

Request URL
https://gateway.1upcoredev.com/v1/bcbsa/request-router/cds-services/order-sign

Request Headers
{'X-BCBSA-RTMProviderServices-Receiver': '390', 'Content-Type': 'application/json'}

Response Headers

Type Of Message
Outgoing

Message

```
JSON
```

```
1 {
2   "context": {
3     "userId": "Practitioner/437fc249-1558-11f0-9d81-0a2d94f3c43f",
4     "patientId": "8bdcc4e6-1cb9-11f1-ac73-0a2d94f3c43f",
5     "encounterId": "8d824658-381c-11f1-add8-0a2d94f3c43f",
6     "draftOrders": {
7       "entry": [
8         {
9           "fullUrl": "https://bfee16.devhcp.com/fhir/ServiceRequest/9ab0171a-381c-11f1-add8-
10          0a2d94f3c43f",
11           "resource": {
12             "id": "9ab0171a-381c-11f1-add8-0a2d94f3c43f",
13             "meta": {
14               "profile": [
15                 "http://hl7.org/fhir/us/davinci-crd/StructureDefinition/profile-servicerequest"
16               ]
17             },
18             "authoredOn": "2026-04-14",
```

Request to 1up BCBSA Router

Host Plan's CRD determines that this patient is a BCBST member

The Host Plan proxies the request to the Hub

The Hub then proxies the CRD request to the BCBST CRD API (hosted by 1up) which 1up is able to receive directly from the Hub without additional steps

Next →

Back 9 of 12

CLOSE



DISPATCH ORDER

Procedure Order

Patient
Mildred Demo-CoreDev (ePA)
Procedure Name
Under Laparoscopic Bariatric Surgery
43775
CPT
Requester
Jeremy Yoon
Coverage Information Reasons DTR

Open: Network Traffic

#TransactionId
a276fb4f-381c-11f1-add8-0a2d94f3c43f

Name
Response from 1up dev demo BCBSA

Request URL
https://gateway.1upcoredev.com/v1/bcbsa/request-router/cds-services/order-sign

Request Headers
{'X-BCBSA-RTMProviderServices-Receiver': '390', 'Content-Type': 'application/json'}

Response Headers
{'Date': 'Tue, 14 Apr 2026 16:11:46 GMT', 'Content-Type': 'application/json', 'Transfer-Encoding': 'chunked', 'Connection': 'keep-alive', 'x-1up-request-id': '131ee12d-12bd-4930-8c2d-aeb6e2843f00', 'Server': 'cloudflare', 'x-1up-router-dest': 'https://crd-prod-jm-dev.1upcoredev.com/bcbs-tn/medicareselect/cds-services/order-sign', 'cf-cache-status': 'DYNAMIC', 'set-cookie': '__cf_bm=NQPALwVysBTnxy6d7vB3IE_ZYtduaTgfmasyqGgt44-1776183106.136666-1.0.1.1-zZr7po7Gy3lhWu2hAWpmLvoR7hluUas0ZYdh5lcGlvXLkHbqR5XM5ULd2apC6CLY_gRBKRrCq6e5UuW90zXz_ZhWgppqPI0WY3vS7B6rGCWpwTrvUhSCHttpOnly; Secure; Path=/; Domain=1upcoredev.com; Expires=Tue, 14 Apr 2026 16:41:46 GMT', 'Content-Encoding': 'gzip', 'CF-RAY': '9ec3cfd5e00884d-PDX', 'alt-svc': 'h3=\":443\"; ma=86400'}

Type Of Message
Incoming

JSON

```
1 {
2   "cards": [],
3   "systemActions": [
4     {
5       "type": "update",
6       "description": "Update",
7       "resource": {
8         "resourceType": "ServiceRequest",
9         "id": "9ab0171a-381c-11f1-add8-0a2d94f3c43f",
10        "meta": {
11          "profile": [
12            "http://hl7.org/fhir/r4/core/profile/ServiceRequest-1",
13            "http://hl7.org/fhir/r4/core/profile/ServiceRequest-2"
14          ]
15        }
16      }
17     }
18   ]
19 }
```

Response from BCBST CRD API

The BCBST CRD API (hosted by 1up) returns a response to the BCBSA Hub.

The BCBSA Hub then proxies the response to the EHR.

Next →

Back 10 of 12

CLOSE



DISPATCH ORDER

Procedure Order

Patient
Mildred Demo-CoreDev (ePA)
Procedure Name
Under Laparoscopic Bariatric Surgery Proced
43775 ▶
CPT
Requester
Jeremy Yoon

Coverage Information Reasons DTR

#TransactionId
a153f744-381c-11f1-add8-0a2d94f3c43f
a153f745-381c-11f1-add8-0a2d94f3c43f
a276fb4e-381c-11f1-add8-0a2d94f3c43f
a276fb4f-381c-11f1-add8-0a2d94f3c43f

Open: Network Traffic

JSON

```
1 {
2   "cards": [],
3   "systemActions": [
4     {
5       "type": "update",
6       "description": "Update ServiceRequest with prior authorization determination",
7       "resource": {
8         "resourceType": "ServiceRequest",
9         "id": "9ab0171a-381c-11f1-add8-0a2d94f3c43f",
10        "meta": {
11          "profile": [
12            "http://hl7.org/fhir/us/davinci-crd/StructureDefinition/profile-servicerequest"
13          ]
14        },
15        "extension": [
16          {
17            "url": "http://hl7.org/fhir/us/davinci-crd/StructureDefinition/ext-coverage-information",
18            "extension": [
19              {
20                "url": "pa-needed",
21                "valueCode": "auth-needed"
22              },
23              {
24                "url": "covered",
25                "valueCode": "covered"
26              }
27            ]
28          },
29          {
30            "url": "http://hl7.org/fhir/us/davinci-crd/StructureDefinition/ext-coverage-information",
31            "extension": [
32              {
33                "url": "pa-needed",
34                "valueCode": "auth-needed"
35              },
36              {
37                "url": "covered",
38                "valueCode": "covered"
39              }
40            ]
41          }
42        ]
43      }
44    }
45  ]
46 }
```

Auth Required and Member Covered response

Next →

Back 11 of 12

CLOSE

PLETED ENTERED IN ERROR UNKNOWN

Close X

DISPATCH ORDER

DRAFT ACTIVE ON HOLD REVOKED COMPLETED ENTERED IN ERROR UNKNOWN

Procedure Order

Patient

Mildred Demo-CoreDev (ePA)

Procedure Name

Under Laparoscopic Bariatric Surgery Procedures

43775 ▶

CPT

Requester

Jeremy Yoon

Desired time or schedule

Start End

Category

Intent

Order

Coverage Information Reasons DTR Prior Authorization Additional Info Technical FHIR Meta Tags

This service is under standard coverage.

Clinical Documentation is necessary.
Please fill out the following questionnaire.

→ [Open Questionnaire](#)

The ordered service will require prior authorization

→ [Prepare PriorAuthorization](#)

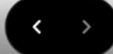
By the CDS Hook: 1up dev demo BCBSA

The Provider sees the result

Close →

Back

12 of 12



Looking Ahead

Interoperability is More Than a Single Mandate

The signals are clear:

- CMS-0057-F: Major changes to prior authorizations and interoperability
- HTI-1 through HTI-6: ONC health IT certification and interoperability rules
- National Provider Directory: coming 2027
- dQM / HEDIS: quality measure reporting via FHIR
- CMS-0062-P: Pharmacy-focused mandate proposed for 10/1/27

Thank you!