

Medit Link Webhook Guide

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Medit Link Webhook

What are Webhooks?

You can use webhooks to notify when a major event happens in Medit Link, such as case creation, modification, or deletion, by using HTTPS and JSON.

How to Use

By creating an endpoint, you can send notifications to the services you use. The case information is sent to the endpoint you set in the following cases.

- Clinic Account User
 - Case Order
 - Order Cancellation
- Lab account User
 - Accept/Reject Case Order
- Both Users
 - Case Creation
 - Case Modification
 - Case Deletion

Refer to the following Information chapters for more details.

Patient Information

Event Code	patient.created
Schema	<pre>{ "schemaVersion": "2022-01-28", "dateIssued": "2022-02-10T06:53:46.355Z", "patient": { "code": null, "dateCreated": "2022-02-10T06:53:46.348Z", "name": "Chris", "uuid": "zeyqL", "dateUpdated": "2022-02-10T06:53:46.348Z" } }</pre>
Event Code	patient.updated
Schema	<pre>{ "schemaVersion": "2022-01-28", "dateIssued": "2022-02-10T06:55:07.829Z", "patient": { "code": "P_1234", "dateCreated": "2022-02-10T06:53:46Z", </pre>

	<pre> "name": "Chris", "uuid": "zeyqL", "dateUpdated": "2022-02-10T06:55:07.820Z" } </pre>
Event Code	patient.deleted
Schema	<pre> { "schemaVersion": "2022-01-28", "dateIssued": "2022-02-10T07:05:02.120Z", "patient": { "uuid": "zeyqL", "dateUpdated": "2022-02-10T07:05:02.120Z" } } </pre>

1. schemaVersion: Schema version of webhook data
2. dateIssued: Date when the webhook event occurred
3. patient: Patient information
4. code: Patient code
5. dateCreated: Date when the patient was registered
6. name: Patient name
7. uuid: Patient UUID
8. dateUpdated: Last modified date of patient information



Check

- Patient information is only available for clinic account users.

Case Information

Event Code	case.created
Schema	<pre>{ "schemaVersion": "2022-01-28", "dateIssued": "2022-02-10T06:53:47.322Z", "case": { "dateScanned": null, "dateCreated": "2022-02-10T06:53:46Z", "patient": { "uuid": "zeyqL" }, "name": "Chris's Case", "uuid": "bd5f0b8c-4d13-404c-be63-4184a0bb4714", "status": "FORM", "dateUpdated": "2022-02-10T06:53:46Z" } }</pre>
Event Code	case.updated
Schema	<pre>{ "schemaVersion": "2022-01-28", "dateIssued": "2022-02-10T07:00:00.880Z", "case": { "dateScanned": null, "dateCreated": "2022-02-10T06:53:47Z", "patient": { "uuid": "zeyqL" }, "name": "Chris's Case", "uuid": "bd5f0b8c-4d13-404c-be63-4184a0bb4714", "status": "FORM", "dateUpdated": "2022-02-10T07:00:00.795Z" } }</pre>
Event Code	case.deleted
Schema	<pre>{ "schemaVersion": "2022-01-28", "dateIssued": "2022-02-09T06:49:45.960Z", "case": { "uuid": "ee3683a8-4bd7-4c24-9cd7-5e27c7525cc8" } }</pre>

1. case: Case information
2. dateScanned: Last scanning date of the case
3. dateCreated: Date when the case was created
4. name: Case name
5. uuid: Case UUID
6. status: Case status*
7. dateUpdated: Last modified date of case information

* Case Status

Status	Description
FORM	Only form information is registered.
SCAN	Scan completed.
NEED_PROCESSING	Only raw files are saved after the scan.
CAD	CAD process completed.
CAM	CAM process completed.
MILL	Milling process completed.
COMPLETED	The entire process is completed.



Check

- Patient information is only available for clinic account users.

File Information

Event Code	files.created
Schema	<pre>{ "schemaVersion": "2022-01-28", "dateIssued": "2022-02-10T06:56:51.532Z", "files": [{ "dateCreated": "2022-02-10T06:56:51.512Z", "size": 26, "name": "new text.txt", "uploadStatus": "STARTED", "uuid": "b3b49cd8-9956-4452-9b7f-92bca6b9cd83", "fileType": "ATTACHED_DATA", "case": { "uuid": "bd5f0b8c-4d13-404c-be63-4184a0bb4714" } }], "dateUpdated": "2022-02-10T06:56:51.512Z" }</pre>
Event Code	files.updated
Schema	<pre>{ "schemaVersion": "2022-01-28", "dateIssued": "2022-02-10T05:57:25.639Z", "files": [{ "dateCreated": "2021-05-14T06:27:00Z", "size": 203328041, "name": "test-lowerJaw.meditMesh", "uploadStatus": "UNKNOWN_DATA", "uuid": "081a2096-d752-4840-93dc-5ce762ece517", "fileType": "ATTACHED_DATA", "case": { "uuid": "c5cbd8ab-fb77-4ce0-9126-1a650ba26f6e" } }], "dateUpdated": "2022-02-10T05:57:25.630Z" }</pre>
Event Code	files.upload.updated

Schema	<pre>{ "schemaVersion": "2022-01-28", "dateIssued": "2022-02-10T06:56:53.779Z", "files": [{ "download": { "fileName": "b3b49cd8-9956-4452-9b7f-92bca6b9cd83.7z", "size": 26, "dateExpired": "2022-02-10T07:57:05.510Z", "url": "https:....", "hashValue": "83ccf5e0ee6fa1bc552134a36f5bef9b", "hashAlgorithm": "MD5" }, "name": "new text.txt", "uploadStatus": "SUCCEED", "uuid": "b3b49cd8-9956-4452-9b7f-92bca6b9cd83", "fileType": "ATTACHED_DATA", "case": { "uuid": "bd5f0b8c-4d13-404c-be63-4184a0bb4714" }, "dateUpdated": "2022-02-10T06:56:53.768Z" }] }</pre>
Event Code	files.deleted
Schema	<pre>{ "schemaVersion": "2022-01-28", "dateIssued": "2022-02-09T07:50:18.897Z", "files": [{ "uuid": "3c93f0d2-396f-4133-aed7-171bae21c78d" }] }</pre>

1. files: File list
2. dateCreated: Date when the file was created
3. size: File size
4. uploadStatus: File upload status
 - a. LOCAL_ONLY: The files that are not uploaded on the server, or deleted from the server, so saved only on the local PC
 - b. STARTED
 - c. SUCCEED
 - d. FAILED
5. uuid: File's UUID
6. fileType: File type*
7. dateUpdated: Last modified date of file information

*** File Type**

File Type	Description
SCAN_DATA	Scan file
CAD_DATA	CAD file

File Type	Description
CAM_DATA	CAM file
MILLING_DATA	Milling file
ATTACHED_DATA	Attachment



Check

- “download.url/download.dateExpired” information is only available for files when the upload status is **SUCCEEDED**.

Order Information

Event Code	order.created
Schema	<pre>{ "schemaVersion": "2022-01-28", "dateIssued": "2022-02-10T01:48:25.141Z", "order": { "seller": { "name": "changha_lab", "uuid": "CHANGHA_LAB_1543995373705" }, "orderNumber": 3720296, "dateCreated": "2022-02-10T01:47:42Z", "dateDesiredDelivery": "2022-02-17T01:45:00Z", "description": "Test", "case": { "name": "ORDER CANCEL TEST3", "uuid": "1a1d5929-7737-4d7a-aaef-919cbbcdb694", "status": "FORM" }, "files": null, "status": "PENDING", "dateUpdated": "2022-02-10T01:48:25.068Z", "buyer": null } }</pre>
Event Code	order.updated
Schema	<pre>{ "schemaVersion": "2022-01-28", "dateIssued": "2022-02-10T01:48:25.141Z", "order": { "seller": { "name": "changha_lab", "uuid": "CHANGHA_LAB_1543995373705" }, "orderNumber": 3720296, "dateCreated": "2022-02-10T01:47:42Z", "dateDesiredDelivery": "2022-02-17T01:45:00Z", "description": "Test", "files": [{ "download": { "fileName": "7a65b3f4-2e68-4d76-ad0f-51c34da1260a.7z", "size": 72395, "dateExpired": "2022-02-10T05:15:34.947Z", "url": "https://...", "hashValue": "51386325494e3929a3296e48790c3cd4", "hashAlgorithm": "MD5" }, "name": "3693861.png", "uploadStatus": "SUCCEED", "uuid": "7a65b3f4-2e68-4d76-ad0f-51c34da1260a", "fileType": "FORM_DATA", "dateUpdated": "2022-02-10T01:47:42Z" }] } }</pre>

	<pre>], "case": null, "status": "ACCEPTED", "dateUpdated": "2022-02-10T01:48:25.068Z", "buyer": null } } </pre>
Event Code	order.deleted
Schema	<pre> { "schemaVersion": "2022-01-28", "dateIssued": "2022-02-10T03:03:45.605Z", "order": { "orderNumber": 3706141, "case": { "name": "Test's Case", "uuid": "f975cd6a-645f-4eb3-a7f6-8deb69ebe644", "status": "FORM" }, "status": "COMPLETED", "dateUpdated": "2022-02-10T04:01:11.498Z" } } </pre>

1. order: Order information
 - a. seller: Clinic information
 - i. name: Clinic name
 - ii. uuid: Clinic group's UUID
 - b. orderNumber: Order number
 - c. dateCreated: Date when the order information was created
 - d. dateDesiredDelivery: Desired delivery date and time requested by the clinic
 - e. description: Memos left by the clinic when ordering
 - f. buyer: Lab information
 - i. name: Lab name
 - ii. uuid: Lab group's UUID
 - g. case
 - i. name: Case name
 - ii. uuid: Case's UUID
 - iii. status: Case status
 - h. files
 - i. download: Download information
 - ii. fileName: File name to download
 - 1) size: File size
 - 2) url: Download URL
 - 3) hashValue: File hash value
 - 4) hashAlgorithm: File hash algorithm
 - 5) dateExpired: Download expiration date
 - iii. name: File name
 - iv. uploadStatus: File upload status
 - v. uuid: File's UUID
 - vi. fileType: File type
 - vii. dateUpdated: Last modified date of order information



Check

- order.created
 - case: UUID is not provided to the lab account users.
 - files: The file list is not provided in “order.created” event.
- order.updated
 - case and files information: Only available for the lab where accepted the order.

Delivery Information

Event Code	delivery.created
Schema	<pre>{ "schemaVersion": "2022-01-28", "dateIssued": "2022-02-10T07:01:46.694Z", "delivery": { "dateCreated": "2022-02-10T07:01:46.667Z", "dateScheduled": null, "company": "LSG", "message": "Delivery info", "uuid": "Gpmj", "trackingNumber": "TN1234", "status": "STARTED", "dateUpdated": "2022-02-10T07:01:46.667Z", "order": { "orderNumber": 3720302 } } }</pre>

1. delivery: Delivery information
 - a. dateCreated: Date when the delivery information was created
 - b. dateScheduled: Expected delivery date and time
 - c. company: Name of the shipping company
 - d. message: Memo for the shipment
 - e. uuid: Shipping UUID
 - f. trackingNumber: Shipping tracking number
 - g. status: Delivery status*
 - h. dateUpdated: Last modified date of shipping information
 - i. order: Order information
 - i. orderNumber: Order number (e.g., Order ID)

* Delivery Status

Status	Description
PLANNING	The lab shared the expected delivery date with the clinic.
READY	The lab has completed all the processes and is preparing for the delivery.
STARTED	The shipment has been started.
ARRIVED	The ordered product has arrived.
RECEIVED	The clinic has received the product.

Appendix A: How to check the IP address

You can check if your service communicates with Medit Link by IP address.

1. Please refer to the IP range for AWS Load Balancer in the link below.
 - A. <https://aws.amazon.com/ko/blogs/aws/aws-ip-ranges-json/>
2. Check the IP address as follows.
 - A. <https://ip-ranges.amazonaws.com/ip-ranges.json>
 - B. Among the items in the URL above, see the IP with the following information.
 - i. "region": "us-east-1"
 - ii. "service": "AMAZON" or "service": "EC 2"
 - iii. "network_border_group": "us-east-1"



Please check the json file regularly, as the IP range provided by AWS may change.

Appendix B: How to validate messages delivered via Webhook

You can verify the events that Medit Link sends to Webhook endpoint.

Forgery verification of the sent webhook message can be performed with HMAC-SHA256 through the Signing Secret provided for each webhook endpoint.

1. Hash the webhook message with HMAC-SHA256 using the Signing Secret as a key and check the value.

Enter Plain Text to Compute Hash

```
{ "schemaVersion": "2022-01-28", "dateIssued": "2023-04-05T00:51:05.684Z", "case": { "dateScanned": null, "dateCreated": "2023-03-28T23:01:43Z", "patient": { "uuid": "bXEe2" }, "name": "WH Test's Case", "uuid": "30371a09-e473-4603-a0c4-aa77597fb381", "status": "FORM", "dateUpdated": "2023-03-28T23:01:43Z" } }
```

Enter the Secret Key

```
{{your Signing Secret}}
```

Select Cryptographic Hash Function
SHA-256

Output Text Format: ☒ Hex ☐ Base64

Compute Hash

Hashed Output:

```
57111f1aef749cff306b4f963e82aa3ac95b45428d4823b794f61a25bddf6e8a
```

2. Compare it to the hash value (x-meditlink-signature) contained in the header of the Webhook message to see if they match.

Headers

connection	close
x-meditlink-signature	57111f1aef749cff306b4f963e82aa3ac95b45428d4823b794f61a25bddf6e8a
x-meditlink-event-code	case.updated
content-type	application/json