

Article

[sween](#) · Mar 24, 2016 3m read

HealthShare 2 Slack Business Operation

This will be a stretch to be useful, but it was sorta fun. If you just so happen to have a use case to make your HealthShare productions talk to a [Slack](#) channel, this is the Business Operation for you.

In [Slack](#), it is a dead simple process to enable an incoming web hook:

- Name It
- Give it an Icon or Emoji
- Declare a Channel to Interact With

Once you supplies those, it spits out a URL that you can go to town posting to your channel using that endpoint.

To demonstrate this, I whooped up a small Production that accepted HL7 via a Business Service, and routed the message to the [Slack](#) Business Operation which ended up using Data from the HL7 Message to Post to the Channel as A Bot. And since this year's [InterSystems Global Summit](#) has introduced [Slack](#) to its participants, I reached out to the good Paul Gomez at InterSystems who runs [Slack](#) for the conference it to let me interact with an incoming web hook there to view the final result.

Head over to the [#developer-sandbox](#) out on the Global Summit Slack and check it out.

Here is the Code:

```
Include Ensemble
```

```
Class GS2016.Operations.HTTPSLACKOperation Extends Ens.BusinessOperation
{
```

```
/*
```

```
    Coded while on a call with Comcast (A Time Warner Company).
    Fun with Slack from HealthShare @ GS2016
    Ron Sweeney, Integration Required (GS Slack @sween)
```

```
*/
```

```
Parameter INVOCATION = "Queue";
```

```
Property SlackURL As %String(MAXLEN = 1000);
```

```
Property SlackSSL As %String;
```

```
Property SlackPort As %String;
```

```
Property SlackServer As %String;
```

```

Parameter SETTINGS = "SlackURL,SlackSSL,SlackPort,SlackServer";

Method SendSlackChannel(pInput As EnsLib.HL7.Message, Output pResponse As %String) As
%Status
{
    Set tSC = $$$OK

    // Open the inbound HL7 Object

    // Set DocType on Message so we can Nav the Virtual Properties
    Set:pInput.DocType="" pInput.DocType = "2.3.1:ADT_A01"

    // Set values from what is in the HL7 Message
    Set tFirstName = pInput.GetValueAt("PID:5.2")
    Set tLastName = pInput.GetValueAt("PID:5.1")
    Set tMessageType = pInput.GetValueAt("MSH:9")
    Set tPatientId = pInput.GetValueAt("PID:2")

    // Post This apparently, from the Slack Help Page on Incoming Web Hooks
    /*
    {
        "text": "New Help Ticket Received:",
        "attachments": [
            {
                "title": "App hangs on reboot",
                "title_link": "http://domain.com/ticket/123456",
                "text": "If I restart my computer without quitting your app, it stops the
reboot sequence.\nhhttp://domain.com/ticket/123456",
            }
        ]
    }
    */

    Set tHttpRequest = ##class(%Net.HttpRequest).%New()

    Set tHttpRequest.Server = ..SlackServer
    Set tHttpRequest.Port = ..SlackPort

    // This is from the Webhook Generated from Slack
    Set tURL = ..SlackURL

    // You need to build an SSL configuration for, Use Firefox or ask me how
    Set tHttpRequest.Https = 1
    Set tHttpRequest.SSLConfiguration = ..SlackSSL

    Set tRequestStream = ##class(%GlobalBinaryStream).%New()

    // Going out Cheap Here, and not creating an object
    Set tPayload = ""
    Set tPayload = tPayload_"{"
    Set tPayload = tPayload_"\"text\": \"HL7 Message Received: \"_tLastName_, \"_tFirs
tName_\"\", \"
    Set tPayload = tPayload_"\"attachments\": [\"
    Set tPayload = tPayload_"{"
    Set tPayload = tPayload_"\"title\": \"Integration Type: \"_tMessageType_\"\", \"
    Set tPayload = tPayload_"\"title_link\": \"http://integration.health.com\"\", \"
    Set tPayload = tPayload_"\"text\": \"PatientID: \"_tPatientId_\"\"\"
    Set tPayload = tPayload_"}"
    Set tPayload = tPayload_]\"

```

```
Set tPayload = tPayload_}"

$$$LOGINFO(tPayload)
Do tRequestStream.Write(tPayload)
Set tHttpRequest.EntityBody = tRequestStream

Do tHttpRequest.Post(tURL)

Set tResponse = tHttpRequest.HttpResponse.Data.Read()

Set pResponse = tResponse
$$$LOGINFO("Slack Response: "_tResponse)

Quit tSC
}

XData MessageMap
{
<MapItems>
  <MapItem MessageType="EnsLib.HL7.Message">
    <Method>SendSlackChannel</Method>
  </MapItem>
</MapItems>
}

}
```

[#HealthShare](#)

Source URL: <https://community.intersystems.com/post/healthshare-2-slack-business-operation>