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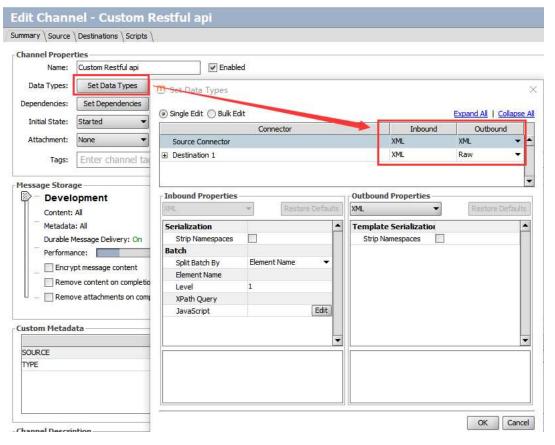
湄沁網絡大學



## 第11課-Channel Study For Create Custom Restful Service

这节课我们一起学习利用Mirth Connect的HTTP Listener源通道与JavaScript Writer目的通道搭建自定义Restful风格webapi服务。

## 1.新建名为'Custom Restful api'的信道,指定源通道与目的通道的输入输出消息格式



#### 2.设置HTTP Listener类型源通道参数

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DataBase(2)

## 随笔分类

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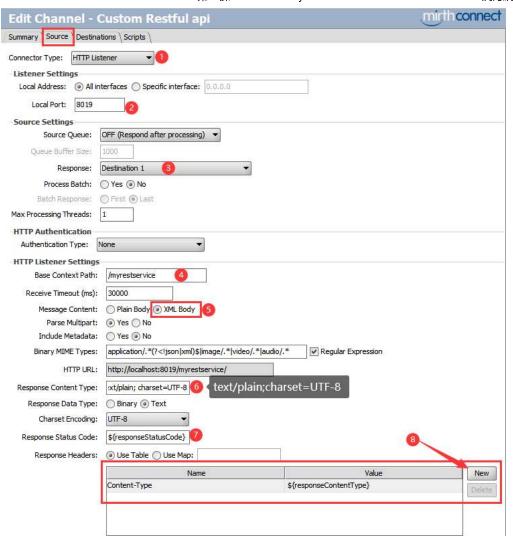
Mirth(3)

# 最新评论

1. Re:第八課-Channel Study Custom JAR Lib

受益匪浅!!!

阅读排行榜



- 1. 把 "Response" 响应指定为 destination 1
- 2. 输入`Base context path' 为 /myrestservice
- 3. 设置 "Message Content" 为 XML Body
- 4. 设置默认"Response Content Type" 为text/plain; charset=UTF-8我们将在目的通道中通过channel map重写它的值为application/xml或 application/json
- 5. 设置 "Response Status Code" 响应码为 \${responseStatusCode} 我们将在目的通道中通过channel map重写它的值为200(成功)或500(失败)
- 6. 在 "Response Header" 中添加一个变量 "Content-Type" ,指定其值为 \${responseContentType}} 我们将在目的通道中通过channel map重写它的值为 application/xml或application/json

# 3.设置JavaScript Writer目的通道参数并编写JS实现脚本

- 1. HL7传输协议(161)
- 2. 第壹課-Install: Mirth Coni 安装步骤(99)
- 3. 开篇:Mirth Connect系统集/ 5)
- 4. HL7标准的版本(75)
- 5. 第三課:信道学习Source C Destinations File Writer(60)

#### 评论排行榜

1. 第八課-Channel Study For R Lib(1)

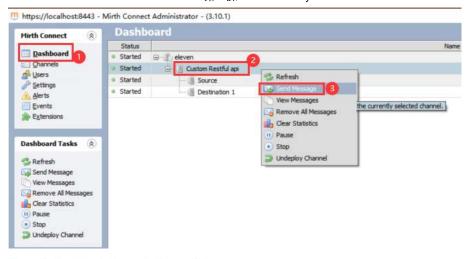


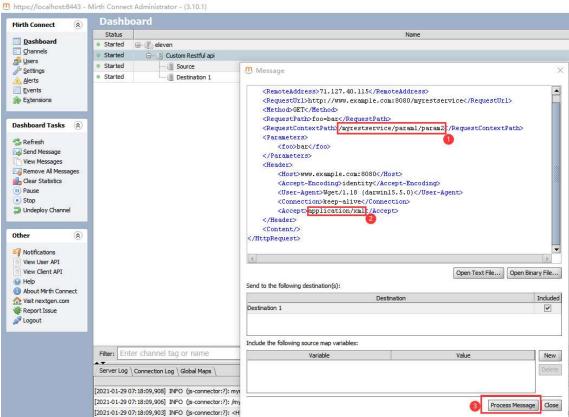
```
<RequestContextPath>/myrestservice/param1/param2</RequestContextPath>
 38
 39
      <Parameters>
 40
      <foosbar</foos
      </Parameters>
 41
 42
      <Header>
 43
      <host>www.example.com:8080</host>
 44
      <Accept-Encoding>identity</Accept-Encoding>
 45
      <User-Agent>Wget/1.18 (darwin15.5.0)</user-Agent>
 46
      <Connection>keep-alive</Connection>
 47
      <Accept>application/json</Accept>
 48
      </Header>
 49
      <Content/>
 50
      </HttpRequest>
 51
 52
 53
      // Just in case we fail, set a sane responseContentType
 54
      channelMap.put('responseContentType', 'text/plain');
 55
      var msg = XML(connectorMessage.getRawData());
 56
 57
      logger.info(msg);
 58
      // Get the REST data from the "context path" which is actually
 59
      // the "path info" of the request, so it will start with '/myrestservice'.
 60
      var rest = msg['RequestContextPath'];
 61
      logger.info(rest);
 62
      var myServicePrefix = '/myrestservice';
 63
      var minimumURLParameterCount = 4; // This is the minimum you require to do your work
      var maximumExpectedURLParameterCount = 5; // however many you expect to get
 64
      var params = rest.substring(myServicePrefix).split('/', maximumExpectedURLParameterCount);
 65
      if(params.length < minimumURLParameterCount)</pre>
 66
 67
      return Packages.com.mirth.connect.server.userutil.ResponseFactory.getErrorResponse('Too few parameters in request');
      var mrn = params[1]; // params[0] will be an empty string
 68
      logger.info(mrn):
 69
 70
      // Now, determine the client's preference for what data type to return (XML vs. JSON).
 71
      // We will default to XML.
      var clientWantsJSON = false:
 72
      var responseContentType = 'text/xml';
 73
 74
 75
      // If we see any kind of JSON before any kind of XML, we'll use
 76
      // JSON. Otherwise, we'll use XML.
 77
 78
      // Technically, this is incorrect resolution of the "Accept" header,
 79
      // but it's good enough for an example.
      var mimeTypes = msg['Header']['Accept'].split(/\s*,\s*/);
 80
      for(var i=0; i<mimeTypes.length; ++i) {</pre>
 81
 82
        var mimeType = mimeTypes[i].toString();
 83
       if(mimeType.startsWith('application/json')) {
 84
         clientWantsJSON = true;
 85
          responseContentType = 'application/json';
 86
 87
        } else if(mimeType.startsWith('application/xml')) {
          clientWantsJSON = false:
 88
          responseContentType = 'application/xml';
 89
 90
 91
        } else if(mimeType.startsWith('text/xml')) {
 92
          clientWantsJSON = false;
 93
          responseContentType = 'text/xml';
 94
          break:
 95
 96
 97
 98
 99
      var json;
100
      if(clientWantsJSON)
101
       json = { status : '' };
102
103
      else
        xml = new XML('<response></response>');
104
105
106
107
            Here is where you do whatever your service needs to actually do.
108
109
110
111
        if(clientWantsJSON) {
```

```
112
           json.data = { foo: 1,
   113
                          bar: 'a string',
  114
                          baz: [ 'list', 'of', 'strings']
  115
  116
         } else {
  117
            xml['@foo'] = 1;
  118
            xml['bar'] = 'a string';
  119
            xml['baz'][0] = 'list';
   120
            xml['baz'][1] = 'of';
   121
            xml['baz'][3] = 'strings';
  122
  123
  124
           // Set the response code and content-type appropriately.
   125
           // http://www.mirthproject.org/community/forums/showthread.php?t=12678
  126
   127
          channelMap.put('responseStatusCode', 200);
   128
   129
           if(clientWantsJSON) {
  130
            json.status = 'success';
            var content = JSON.stringify(json);
  131
  132
            channelMap.put('responseContent', content);
   133
            channelMap.put('responseContentType', responseContentType);
  134
            return content;
  135
          } else {
   136
            channelMap.put('responseContentType', responseContentType);
   137
             var content = xml.toString();
  138
             channelMap.put('responseContent', content);
  139
            return content:
   140
   141
  142
         catch (err)
  143
   144
          channelMap.put('responseStatusCode', '500');
   145
          if(clientWantsJSON) {
            json.status = 'error';
  146
            if(err.javaException) {
  147
              // If you want to unpack a Java exception, this is how you do it:
   148
   149
              json.errorType = String(err.javaException.getClass().getName());
  150
              json.errorMessage = String(err.javaException.getMessage());
  151
   152
   153
             channelMap.put('responseContentType', responseContentType);
  154
             // Return an error with our "error" JSON
  155
  156
             return\ Packages.com.mirth.connect.server.userutil.ResponseFactory.getErrorResponse(JSON.stringify(json)); \\
   157
  158
            if(err.javaException) {
              xml['response']['error']['@type'] = String(err.javaException.getClass().getName());
  159
   160
              xml['response']['error']['@message'] = String(err.javaException.getMessage());
   161
  162
             channelMap.put('responseContentType', responseContentType);
  163
   164
   165
             // Return an error with our "error" XML
  166
             return Packages.com.mirth.connect.server.userutil.ResponseFactory.getErrorResponse(xml.toString());
   167
           }
我们通过目的通道以上JS脚本,学习到以下特别重要的知识:
```

- 1. 获取输入请求的原始消息并自动格式化为XML格式: var xml = new XML(connectorMessage.getRawData())
- 2. 设置响应类型,如:channelMap.put('responseContentType', 'application/json')
- 3. 设置响应码,如: channelMap.put('responseStatusCode', '200')
- 4. 设置响应内容并通过JS脚本返回XML实体或者Json实体的字符串格式值
- 5. 异常处理通过JS脚本调用Mirth的API函数Packages.com.mirth.connect.server.userutil.ResponseFactory.getErrorResponse(string)返回字符串 格式错误消息

#### 4.部署信道并测试

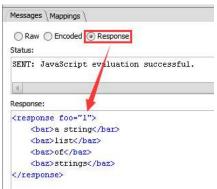




发送消息要区分application/json和application/xml,可以看到响应值格式会相应变化

```
2
         <RemoteAddress>71.127.40.115/RemoteAddress>
         <RequestUrl>http://www.example.com:8080/myrestservice</RequestUrl>
 3
 4
         <Method>GET</Method>
 5
         <RequestPath>foo=bar</RequestPath>
 6
         <RequestContextPath>/myrestservice/param1/param2</RequestContextPath>
 7
         <Parameters>
 8
             <foo>bar</foo>
 9
         </Parameters>
10
         <Header>
11
             <Host>www.example.com:8080/Host>
12
             <Accept-Encoding>identity</Accept-Encoding>
13
             <User-Agent>Wget/1.18 (darwin15.5.0)</User-Agent>
14
             <Connection>keep-alive</Connection>
             <Accept>application/json</Accept>
15
16
         </Header>
17
         <Content/>
18
     </HttpRequest>
```

```
Messages \ Mappings \
 Raw Encoded Response
 Status:
 SENT: JavaScript evaluation successful.
 Response:
   "status" : "success",
   "data" : {
     "foo" : 1,
"bar" : "a string",
     "baz" : [
       "list",
       "of",
       "strings"
   }
     <HttpRequest>
 1
 2
         <RemoteAddress>71.127.40.115
 3
         <RequestUrl>http://www.example.com:8080/myrestservice</RequestUrl>
 4
         <Method>GET</Method>
 5
         <RequestPath>foo=bar</RequestPath>
 6
         <RequestContextPath>/myrestservice/param1/param2</RequestContextPath>
 7
         <Parameters>
 8
             <foo>bar</foo>
         </Parameters>
 9
10
         <Header>
11
             <Host>www.example.com:8080</Host>
12
             <Accept-Encoding>identity</Accept-Encoding>
13
             <User-Agent>Wget/1.18 (darwin15.5.0)</User-Agent>
14
             <Connection>keep-alive</Connection>
15
             <Accept>application/xml</Accept>
16
         </Header>
17
         <Content/>
     </HttpRequest>
18
```



# 大功告成!!!

本课程总结:

通过JS脚本编程,自定义实现Restful风格webapi.

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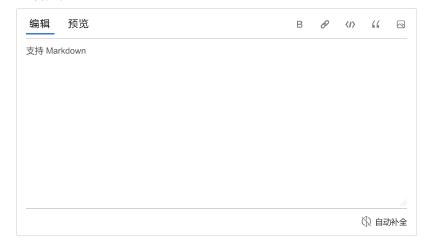
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- » 下一篇: What is an HL7 ADT Message?

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