

iSalusTPS.SetReceiver

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The SetReceiver webservice is intended to receive a HL7 Result file from a third-party that will be stored in OfficeEMR.

Sample Call

```
<request>
  <security>
    <key>ClientUserID~ClientPassword~ClientDatabase</key>
    <version>1.0</version>
    <userid />
    <account>AccountGUID</account>
  </security>
  <send_list>
    <send_item>
      <type>1</type>
      <data_list>
        <data_item>
          <filename>Sample File 1</filename>
          <data>
            MSH|^~\&|www.isalushealthcare.com^0F0A7417-B12C-41BA-97A9-60AAF7917F6C^GUID|www.isalu
shealthcare.com^Z59^HL7|Unknown^Unknown^HL7|Unknown^Unknown^HL7|201109061241||ADT^A08|20110906
1241Z59|P|2.3.1|
            PID|1||i10102^^^i10102^MR||Walker^Alexander^^^^^L||19890812|M||1234 Test Street^^Columbus^IN^
47201^^M^^|(239)582-0395^PRN^PH^^^239^820395^^|(459)830-
4985X456^PRN^PH^^^459^304985^456^|||||||||||||
            PD1|||Carly Rocks^L|12345678^Simcoe^Maria^N^^^MD^^^L^^^|
            GT1|1||Walker^Alexander^||1234 Test Street^^Columbus^IN^47201^^M^^|(239)582-0395^PRN^PH^^^2
39^820395^^|19890812|M|E|
            GT1|2||Jones^Fred^a||123 Main Street^^Indianapolis^IN^46038^^M^^|(029)348-0293^PRN^PH^^^029^
480293^^|M|U|319992458
            IN1|1|36651||Jf Molloy|1234 Test Street^^Indianapolis^IN^46268  ^^M^^|(333)333-3333^PRN^PH^^^3
33^333333^^|455622341111|||||Walker^Alexander^E|19890812|1234 Test Street^^Columbus^IN^47201^^M^
^|||||||||||||M|||||XPN999998888
            IN2|1||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
(239)582-0395^PRN^PH^^^239^820395^^
            IN1|2|36705||Medicaid OReilly|1234 Test Street^^Indianapolis^NV^46207^^M^^|(333)333-3333^PRN^PH
^^^333^333333^^||||||Walker^Alexander^E|19890812|1234 Test
Street^^Columbus^IN^47201^^M^^||||||||||||||M|||||XPN999998888
            IN2|2||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
(239)582-0395^PRN^PH^^^239^820395^^
          </data>
        </data_item>
      </data_list>
    </send_item>
  </send_list>
  <filename>Sample File 2</filename>
  <data>
    MSH|^~\&|||||20140123104135||ORU^R01|20140123104135|P|2.3||AL|
    PID||9999||LAST03^FIRST03^||19771012|M|||||U||||
    PV1|||||9999999^SMITH^JOHN^||9999999^JOHN^SMITH^|||||||||||||||||||||20130806100245|||||
    ORC|RE|||||||||
    OBR|||1|UDS^Uroflow||20130806100245|||||5234234^ZHOU^MORGAN^||DR|^TEST
    HOSPITAL^||||F|||||||||
    OBX|1|TX|Uroflow_Max_Flow^Uroflow Max Flow|Max_Flow|2.7|ml/s||||F||20130806100245|
    OBX|2|TX|Uroflow_Avg_Flow^Uroflow Avg Flow|Avg_Flow|2.1|ml/s||||F||20130806100245|
    OBX|3|TX|Uroflow_Void_Time^Uroflow Void Time|Void_Time|22.9|s||||F||20130806100245|
    OBX|4|TX|Uroflow_Flow_Time^Uroflow Flow Time|Flow_Time|9.0|s||||F||20130806100245|
    OBX|5|TX|Uroflow_T_Peak_Q^Uroflow T Peak Q|T_Peak_Q|8.0|s||||F||20130806100245|
    OBX|6|TX|Uroflow_Void_Time_String^Uroflow Void Time String|Void_Time_String|22.9|h:mm:ss.S||||F||20
    130806100245|
  </data>
</request>
```

```

    OBX|7|TX|Uroflow_Flow_Time_String^Uroflow Flow Time
String|Flow_Time_String|9.0|h:mm:ss.S||||F|||20130806100245|
    OBX|8|TX|Uroflow_T_Peak_Q_String^Uroflow T Peak Q
String|T_Peak_Q_String|8.0|h:mm:ss.S||||F|||20130806100245|
    OBX|9|TX|Uroflow_Void_Vol^Uroflow Void Vol|Void_Vol|19.6|ml||||F|||20130806100245|
    OBX|10|TX|Uroflow_Q_at_2s^Uroflow Q at 2s|Q_at_2s|0.9|ml/s||||F|||20130806100245|
    OBX|11|TX|Uroflow_Q_Accel^Uroflow Q Accel|Q_Accel|0.3|ml/s/s||||F|||20130806100245|
    OBX|12|TX|Uroflow_VOID^Uroflow VOID|VOID|2/20/-||||F|||20130806100245|
    OBX|13|TX|Uroflow_TimeLag^Uroflow TimeLag|TimeLag|0.0|h:mm:ss.S||||F|||20130806100245|
  </data>
</data_item>
</data_list>
</send_item>
</send_list>
</request>

```

Element Description

Request

The Request element will serve as a wrapper for the entire body of the XML request.

Request > Security

See documentation for the Security node here: [Access to Webservices](#)

Request > Security > Send_List

The Send_List element will serve as a wrapper for all lists of data being sent.

Request > Security > Send_List > Send_Item

The Send_Item element will serve as a wrapper for all items being sent. In the event you are sending data for multiple clients (practices), you will have more than one send_item section. Most scenarios though will call for one send_item element.

Request > Security > Send_List > Send_Item > Type

The 'Type' field represent the lab type for this HL7 file. iSalus will provide this to you.

Request > Security > Send_List > Send_Item > Data_List

The data_list element will serve as a wrapper for each data element that is sent for the corresponding Type.

Request > Security > Send_List > Send_Item > Data_List > Data Item

For every file that you plan to send, it will need to be in a Data_Item wrapper. This element expects a 'filename' and 'data' node as well.

Request > Security > Send_List > Send_Item > Data_List > Data Item > FileName

The filename element represent the unique name of the corresponding HL7 file.

[Request > Security > Send_List](#) [Send_Item > Data_List > Data Item > Data](#)

The data element will contain the HL7 file for the result.

HL7 Result Specifications

This document assumes the user has a working knowledge of HL7 standards. Below you will find the specifications for the Result HL7 file as it relates to OfficeEMR.

Segment	Field	Value	Notes
MSH	2	Sending Facility	
MSH	5	Client Account ID	
MSH	6	Header Date	
MSH	9	Message Control ID	
MSH	10	Processing ID	
OBR	2	Order Number	
OBR	4	Order Info	OrderID^OrderDescription
OBR	7	Collection Date	
OBR	13	Specimen Collection	
OBR	14	Specimen Date	
OBR	15	Specimen Source	
OBR	16	Ordering Provider	
OBR	21	Order Site	
OBR	22	Order Date	
OBR	25	Order Status	
OBX	3	Result Information	
OBX	5	Result Value	
OBX	6	Result UOM	
OBX	7	Result Range	
OBX	8	Result Flag	
OBX	11	Result Status	
OBX	14	Result Date	
OBX	15	Lab Information	See Article
ORC	2	Manifest ID	
PID	2	Patient Internal ID	
PID	3	Patient External ID	
PID	5	Patient Name	
PID	7	Patient Date of Birth	
PID	8	Patient Gender	
PID	11	Patient Address	
PID	13	Patient Phone	
PID	19	Patient SSN	
PV1	3	Service Location	
PV1	7	Service Provider	NPI^Last^First

HL7 Result - Special Circumstances

Embedded URL

In the event that a URL needs to be provided in a result so that a user can be linked out to an external site, the below rules are applied.

1. Links should be located in a NTE record
2. We ALWAYS convert from http:// to https://

Example:

```
NTE|25|L|Executive summary. CHEST 2012; 141 (2) (Suppl): 7S-47S|||  
NTE|26|L|Available at:|||  
NTE|27|L|http://journal.publications.chestnet.org/data/Journals/CHEST/23443/1412S3.pdf|||  
NTE|28|L||||
```

Embedded PDF

In the event that a PDF needs to be provided in a result, the data should be sent in the following fashion:

1. PDF should be located in an OBX record
2. The type (OBX.2) should be ED
3. Data should be base-64 encoded

Example:

```
OBX|3|ST|106^Ethyl Sulfate (ETS)||Detected|ng/mL|500 - 50000|A|||C|||20181002115354000|||  
OBX|4|ED|RPDF^Attachment||MTL^PDF^PDF^Base64^JVBERi0xLjQKJdP0zOEKMSAwIG9iago8PAovQ3JlY.....
```
