AudBase Customized Interface

The inbound process is achieved by either broadcasting the EMR/EHR order throughout the network or directly to the AudBase Server's IP address. AudBase has the ability to filter incoming messages, but typically the EMR/EHR will provide the filtration and only send to AudBase those orders that are appropriate (patient destined for ENT, Audiology or another applicable clinic). We then parse the HL7 message data and populate an AudBase "Orders window".

This AudBase Orders Window only reflects unvisited or open patient orders present in the system with the patient's respective demographic data. For a new patient, once the name is selected from the orders window, the requested demographic data is attached to an AudBase record and added into the database. No data entry for demographics is required by the end user.

The typical outbound process, with respect to AudBase, is completed by transmitting an HL7 message back to your host EMR/EHR along with a link to the audiometric report that will be deposited in a pre-designated secure location on your network. Once the Audiologist has collected all audiometric data and completed the evaluation in AudBase, they will electronically sign the report. The e-signature function is the trigger for AudBase to send the image and/or raw data (Alphanumeric) into that target location. AudBase, at this time, also sends an HL7 message back to the EMR/EHR containing the link to that report file. In most cases, that file is a graphical image of the report. If needed, AudBase has the ability to automatically generate and send the image and raw data to separate locations. To satisfy any EMR/EHR image need, AudBase can generate over 50 types of various image file formats (.tif, .gif, .pdf, .wmf, etc.).

AudBase passes the HL7 result message, ORU^R01, that would carry the plain text report in multiple OBX segments (one OBX per line) as well as the full path of the image file stored to the server or other designated location.

Once AudBase has given the EMR/EHR the link/pointer to the report file, your system can use it as a place holder in the patient encounter. This is done referencing the unique identifier that the facility uses. From there, any provider with access to the patients' electronic medical record, can view the audiometric report.

Both interfaces should be set up as real-time TCP/IP socket connections and comply with the HL7 standards for messages and acknowledgments. A result message should return the following required fields:

Patient ID
Patient Name
EMR/EHR Order Number
EMR/EHR Procedure Code
Observation/Collection date and time
Resulting provider (EMR/EHR Provider ID or Name)
Text - 72 characters per line
Full File Path or File Name (if all files are stored in the same folder)