



Interface Performance Expectations

Third Party System: CPL Reference Laboratory

Revised: September 13, 2023

In response to the hospital's request, Evident has performed a preliminary level of effort review of an interface between the software provided by Evident and the third-party system indicated above. The attached Interface Performance Expectations have been developed by Evident to reflect the communication protocols and functionality of the proposed interface. To ensure a clear understanding of the interface to be delivered by Evident, we require that representatives of the hospital review the attached performance expectations and provide confirmation of your agreement with interface communication protocols and functionality by signing below.

Please note that both this signed document and an order for the interface must be received by Evident before we will begin any additional development efforts as may be needed to deliver the interface.

However, it is understood that

1. the signing of this document only signifies agreement with the Interface Performance Expectations;
2. signing by the hospital does not obligate the hospital to order the proposed interface;

Hospital Name: _____
(Print Clearly)

Hospital Location (City/State): _____

Hospital

By: _____
(Authorized Signature)

Name: _____
(Printed)

Title: _____

Date: _____



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- Interface functionality includes:
Outbound from Thrive – Laboratory Orders (HL7 ORM message)
Inbound to Thrive – Laboratory Results (HL7 ORU message)
- Data will be transmitted utilizing TCP/IP communications. Evident will be configured as the client for sending data and as the server for receiving data. HL7 Minimal Lower Layer Protocol will be followed for data framing.
- The proper functionality of this interface is dependent upon the facility being on the latest version of the Thrive software. Modifications to the HIS programs are limited to the current software release and update.
- Evident will install HL7 unidirectional and bidirectional interfaces using version 2.5.1 unless otherwise noted prior to interface implementation.
- Orders will be transmitted to the Reference Lab after a manifest has been built and edited by hospital laboratory personnel. Specimen processing requirements must be entered in the Thrive item master order entry information to properly print on the manifest and specimen label.
- The manifest and sample labels will be those currently available in Thrive.
- The Reference lab will be responsible for providing a copy of their test compendium, top 100 orderable lab tests to the facility. The facility will cross-reference the reference lab orderable tests codes with their Thrive lab item number.
- When a facility sends the same lab order/ item to multiple reference labs, a separate item number must be created in Thrive for each Reference Lab that may perform the test, i.e., if the facility sends a TSH to Reference Lab Vendor 1 and to Reference Lab Vendor 2; two TSH items must be created in Thrive. One TSH item will be specific to Reference Lab Vendor 1 and the other TSH item will be specific to Reference Lab Vendor 2.
- Evident prefers client bill, however; if required a flag will be transmitted in the HL7 ORM message to indicate "client bill" or "third party bill" or "patient bill". For Evident to determine the bill type, the facility must provide the financial class type required for each bill type.
- Insurance/billing information will be transmitted in the HL7 ORM message with the Thrive insurance code for third party and patient bill patients.
- For Diagnosis codes to be transmitted in the HL7 ORM message and applied to the manifest the diagnosis code must be entered or available from the Thrive Medical Record Grouper or from Order Entry Associated Problems, prior to the order being added to the manifest.



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- Evident will transmit the following information: *(may not be a complete list*)*

Order Transmissions (HL7 ORM message):

- Patient Name
 - Thrive Patient Account Number
 - Social Security Number
 - Date of Birth
 - Sex
 - Thrive Order Number
 - Ordering Physician
 - Reference Lab Order (battery) Code
 - Specimen Collection date/time
- > Entering the Order Collect date/time in Thrive is required to add an order to a batch and send the HL7 ORM message to the Reference Lab.
- > Cancel order status messages are **not** supported with this interface.
- > Orders for SARS-CoV-2 (COVID-19) testing **may** require additional information to be provided for necessary state and federal agency reporting. Some of this information may be readily available from designated fields within the Thrive software, such as patient race and ethnicity. All other information must be documented on the Thrive item order entry questions to be sent with the order message. Please note this information utilizes all available space for order entry questions in Thrive.

****Note: Evident does not transmit a separate HL7 ADT message. Available patient demographic information is sent within the ORM message only. See the provided Evident Reference Lab HL7 Interface specifications for a complete list of available fields for transmission. Please note that Evident guidelines apply to Thrive software for the proposed project.***

- Reference Lab will transmit the following information: *(may not be a complete list*)*
 - > Result Transmission (HL7 ORU message): Note - Evident required fields are noted with an asterisk (*)
 - Thrive Order Number *
 - Thrive Patient Account (visit) Number *
 - Item Description of test ordered
 - Reference Lab Order (battery) Code *
 - Received date/time
 - Reference Lab Test Code *
 - Test Name
 - Test Result *
 - Units of measure (if applicable)
 - Reference Range (if applicable)
 - Abnormal Flags (if applicable)
 - Result Status *



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- Completion Date/Time/Initials *
- Test performing lab information *

Result Processing -

- > The Thrive order number and patient account number are required in the ORU message for proper result processing.
- > The option to reprocess general reference lab results from the HIS is available; however, the option to reprocess discrete microbiology results directly from the HIS is not available, due to formatting requirements.
- > Reflex test results will be processed if they are part of the formatting of the original order sent to the Reference Lab.
- > When reflex result codes are not formatted as part of the original order the results will not be processed. These orders must be entered in Thrive LIS by hospital laboratory personnel and results reprocessed with the appropriate Thrive order number. ***Please note, reflexing a test result to a microbiology order/culture is not available via the Evident reference lab interface.***
- > Add-on tests must be handled via a manual process:
 - The facility must call the reference lab to verbally submit the add-on-test(s).
 - The same collect and receive times as the original order should be entered on the new order.
 - Add-on test(s) results will be transmitted by the reference lab using the original order number.
- > For corrected results, Evident requires the previously reported result be provided along with the corrected result, preferably within an NTE segment.
- > Evident does not support multiple microbiology panels contained in one item or order number for interfaced results, i.e., Aerobic and anaerobic culture ***cannot*** exist as a single item/order. To process results, the interface requires a single order for each microbiology panel, such as Aerobic culture and Anaerobic culture.
- > Evident expects to receive Performing Lab information, including the CLIA number, in HL7 discrete fields to guarantee the correct information is available for viewing in Thrive and for transmission to other third-party vendor interfaces.
- > Results must be verified (reviewed) by hospital laboratory personnel within the Thrive LIS application prior to completing the order.
- > Completed test results will follow the hospital's Thrive report distribution protocol, including distribution for any existing outbound result interfaces.

Results Display:

- > Results are viewable from all Thrive applications with Lab order review capabilities and appropriate security settings.
- > Reference lab results transmitted from the Reference Lab in a discrete format will be stored in Thrive in a discrete format. However, these results will be applied to the order and displayed as detailed results, ***not*** discrete or columnated results.
 - The Detail button must be selected to display Reference Lab results from the Result Summary and Patient Summary Screens.



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- From the Notes application, Lab results will display in a table format if that option is selected for the display.
 - Reference Lab results will display in a PDF format from Order Chron and Clinical history.
 - Reference Lab results are not available for display from the POC Whiteboard.
- Meaningful Use Objective 170.205(g) evaluates the capability to enter, display and electronically submit LOINC-encoded laboratory test results to public health agencies. Evident must receive discrete, LOINC-encoded test results and SNOMED CT, where applicable, from the reference lab to comply with this objective. ***NOTE: If the reference lab performs culture and sensitivity testing for the facility, these results must be sent to Evident as discrete (Structured Data) with applicable LOINC and SNOMED coding. Otherwise, Evident cannot guarantee the interface will satisfy the required needs for MU objectives where transmission of lab results is required in structured (discrete) format to State Agencies or other third-party vendors.***
- As Evident strives to meet the changing needs of the healthcare industry and the complexities required with interoperability, future enhancements to the software may necessitate modifications to existing facility interfaces. We encourage all facilities to plan accordingly for the potential of longer development time, supplementary input from parties involved and additional fees. Evident is not responsible for any third-party vendor costs that may be incurred for interface changes.
- The above requirements meet the preliminary needs for the interface. This initial sign-off is needed prior to development of the interface. Relatively minor changes during development are permitted if the third-party and Evident both agree that it will not impact development resources/timelines and implementation target dates. Please note that changes outside the scope of this initial interface performance expectation will require review for level of effort and may necessitate an additional quote.