



## Interface Performance Expectations

**Third Party System: AUR via Wolters Kluwer/Sentri7**

**Revised: January 15, 2024**

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 any additional development efforts as may be needed to deliver the interface will begin.

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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- **Antimicrobial Use (AU) & Antimicrobial Resistance (AR) (AUR) Interface Functionality:**
  - Outbound from Thrive – Patient Demographics (HL7 ADT messages)
  - Outbound from Thrive – Pharmacy Orders (HL7 RDE messages)
  - Outbound from Thrive – Laboratory with Microbiology Results (HL7 ORU messages) \*
- **Requirements for sending Discrete Microbiology Results to Sentri7:**
  - > A facility performing microbiology testing in-house with results uploaded to Thrive via an interface must utilize one of the analyzers listed below. ***Microbiology results entered in Thrive via manual result entry cannot be sent in a discrete format.*** One of the following Microbiology Analyzers interfaced via a Lantronix is required to store discrete micro results:
    - Microscan/Labpro
    - Vitek with Observa
    - Vitek without Observa
    - Vitek with Myla DMS
    - Phoenix with Epicenter
    - Giles BIOMIC***Laboratory Infection Control Application set-up is required to send discrete microbiology results from an analyzer.***
  - > Microbiology results received by Evident from a third-party LIS or Reference Lab must be sent to Evident in a discrete format to be transmitted to Sentri7 in a discrete format

***Please review the \*NOTES below for additional information.***

- The interface functionality outlined in this document does not include documentation from the following Thrive software applications - Electronic File Management, Electronic Forms or Notes. ***Reports from these applications each require a separate interface.***
- The following functionality is ***not*** available with the interface:
  - > Medication Treatment and Administration
  - > Transmission of patient Vital Signs
  - > Intake & Output entries
  - > Device Flow Chart Data
  - > Denominator for Procedure data
- Data will be transmitted utilizing TCP/IP communications. Evident will be configured as the client for sending data. HL7 Minimal Lower Layer Protocol will be followed for data framing. Evident expects to receive HL7 message acknowledgements from the receiving application.
- The proper functionality of this interface is dependent upon the facility being on the latest version of Thrive software. Modifications to the HIS programs are limited to the current software release update.



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- Evident Thrive EHR is ONC-ACB certified to the 2015 certification edition. Any interface transmitting data to meet Promoting Interoperability Program measures will be configured in HL7 v2.5.1 only. Similarly, Evident will install HL7 unidirectional and bidirectional interfaces will be installed using version 2.5.1 unless otherwise noted prior to interface implementation.
- Only active patient data (not yet archived) can be sent through the interface.
- **Patient Demographics Outbound from Thrive -**
  - > Messages may include the following HL7 segments: MSH, SFT, EVN, PID, PD1, NK1, PV1, PV2, MRG, OBX, AL1, DG1, DRG, PR1, GT1, IN1, IN2, ACC, UB1, UB2, ZE1 (employer information), ZRV (Patient HIE consent), and ZED (ED visit log).
  - > Evident can filter segments not supported.
  - > The following is a list of ADT event types supported with outbound messaging. Event types can be filtered or mapped based on third-party system needs.
    - A01 – Admit to a Room
    - A02 – Transfer from One Room to Another Room
    - A03 – Discharge from a Room
    - A04 – Patient Registration
    - A05 – Pre-Admit
    - A06 – Stay Type Change: O/P to I/P (Stay type 2 to 1 only)
    - A07 – Stay Type Change: I/P to O/P (Stay type 1 to 2 only)
    - A08 – Update to Patient Information
    - A11 – Cancel Admit
    - A13 – Cancel Discharge
    - A17 – Swap Patient Location
    - A18 – Merge Patient Data
    - A23 – Delete Patient Record
    - A28 – Add Person Profile Information
    - A31 – Update Person Profile Information
    - A40 – Merge Patient Identifier List
    - P12 – Procedure Update; Thrive's default BAR message event
  - > ADT update messages (A08) will be triggered based upon the following Thrive registration updates:
    - patient type or subtype, hospital service code, chief complaint, medical record number (if previously blank), admit and discharge dates,
    - patient name, date of birth, race, gender, SSN, address, home phone number, marital status
    - guarantor name, address, date of birth, SSN, phone number
    - insurance company name or phone number, policy number, policy group, subscriber name or relationship to patient
    - attending physician, second physician, primary care physician
    - patient allergies



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- > Thrive utilizes Micromedex allergy codes and descriptions. These codes cannot be translated by Evident.
- > Diagnosis codes, procedure codes and DRG codes are sent in the message from the MR Grouper. Evident's default is a BAR transaction with event type P12 that will send MR coding updates reporting all available codes with each message.
- > ADT messages may be filtered by Stay Type, Service Code, or Subtype. Other filter options may be evaluated at install.
- **Pharmacy Orders Outbound from Thrive –**
  - > Pharmacy order messages may include the following HL7 segments: MSH, SFT, PID, PD1, NK1, PV1, PV2, ORC, TQ1, RXE, RXR, and RXC. Evident can filter segments based on third-party needs.
  - > Pharmacy orders can include the following: new orders (NW), order status changes (SC) and order cancellations (CA) for IV and non-IV pharmacy orders.
  - > Pharmacy orders will contain the indicated Give Time of a medication but not the administered time.
  - > Pharmacy orders will include immunizations/vaccinations if there is an order being placed to administer.
  - > Medication administration messages are not included with the interface.
  - > Patient home medications, medication dispense, or fill messages are not included with this interface.
- **Laboratory Results Outbound from Thrive –**
  - > Lab results will be sent as HL7 ORU messages and may include the following segments: MSH, SFT, PID, PD1, NK1, PV1, PV2, AL1, DG1, GT1, ORC, TQ1, OBR, OBX, NTE, and SPM.
  - > Evident can filter segments, if determined needed.
  - > Lab results may include both discrete and non-discrete text data sent in HL7 ORU messages. For the transmission of discrete reference lab and/or microbiology results please see the **\*NOTES** below.
  - > Scanned result documents are not included with this interface functionality and require a separate interface feed from Thrive Electronic File Management (EFM).
  - > By default, Thrive order codes (item number) and test codes will be sent in OBR-4 and OBX-3, respectively, of the HL7 ORU message. Thrive utilizes the test name as both the test code and test description. Example: OBX|1|NM|Hemoglobin^Hemoglobin|...
  - > When available, the applicable LOINC codes along with the local order and test codes will be sent in the HL7 message.
    - The coding systems for local and LOINC codes will be identified in the appropriate HL7 OBR-4 and OBX-3 component fields.
    - It is the facility's responsibility to ensure LOINC codes are loaded in the appropriate tables within Thrive software applications. **Note: LOINC codes are not available at the test level (OBX-3) with textual, non-discrete results.**



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- > Evident will send corrections of single test results that are part of an ordered panel, i.e. CBC. A status of "C" will be applied to OBX.11 for the corrected test(s). The entire panel will be included in the transmission.
- > Results will be transmitted automatically when they are completed. Results can also be resent using manual send options within the Thrive software applications. Only final verified results will be sent through the interface unless otherwise specified by the facility.

**\*NOTES:**

***Modifications to third-party reference lab interfaces and/or Microbiology analyzer interfaces to accommodate discrete and coded results will not automatically apply to outbound lab result interfaces.***

***To enable transmission of discrete/coded lab results from Thrive to existing lab result-receiving vendors, the facility is encouraged to coordinate discussions with those vendors. Please contact Evident to initiate the appropriate modifications to those interfaces.***

***When changes are made to begin sending discrete/coded reference lab results to a downstream vendor, all downstream interfaces will receive discrete/coded reference lab results.***

***Modifications to accommodate discrete/coded microbiology results may be made per individual interface.***

- Translations may be required for some table-driven fields in Thrive, such as race, relationship, etc.
  - > For any translations not performed by the third-party vendor, the facility will need to provide Evident with a one-to-one cross-reference of Thrive codes to third-party codes prior to development of the interface.
  - > The cross-reference file provided can be an Excel file or comma-delimited text file. Once the initial translation tables are created, the facility will be responsible for any future maintenance to the tables.
- Sample messages from the facility's Thrive software can be provided after the scheduled implementation begins and messages are being generated.
- 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.



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- 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.