





## Interface Performance Expectations

**Third Party System: MyHealth Access Network (MyHealth)**

**Revised: April 27, 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 – Patient Demographics (HL7 ADT messages)
  - Outbound from Thrive – Lab Results (HL7 ORU messages)
  - Outbound from Thrive – Radiology Transcriptions (HL7 ORU messages)
  - Outbound from Thrive – Transcribed reports (HL7 ORU messages)
  - Outbound from Thrive – Pharmacy Medication Orders (HL7 RDE messages)
  - Outbound from Thrive – Unsolicited Immunization Update (HL7 VXU messages) **\*Note**
- \*Note: The Immunization feed sent to MyHealth does not replace the need for a separate immunization interface to the Oklahoma state registry to meet the Promoting Interoperability measure for public health reporting.***
- This document covers functionality for the HIE only. Any interface that will be used to meet Promoting Interoperability Program measures for ELR, Immunization, and Syndromic Surveillance requires separate interface feeds following state specification requirements.
- 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 used 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 the Thrive software. Modifications to the HIS programs are limited to the current software release and updates.
- Evident will install HL7 unidirectional and bidirectional interfaces using version 2.5.1 unless otherwise noted prior to interface implementation.
- Transmission of data via the interface:
  - > Only the last ten days of messages at any given time can be transmitted via the interface.
  - > Archived or historical data is **not** available for transmission via the interface.
- The interface functionality outlined in this document does not include reports from Thrive Electronic File Management, Electronic Forms or Notes applications. Each of these applications requires a separate interface feed from Evident.
- Patient Demographics (ADT) 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, PRB, UB1, UB2, PDA, ZEI (employer information), ZRV (Patient HIE consent), and ZED (ED visit log). Evident can filter segments based on third-party needs.
  - > ***When an ADT interface feed will be utilized by an HIE to populate and update their patient database, the Thrive Person Profile number must be used as the participating facility's unique patient identifier rather than the Thrive MRN.***





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- The Person Profile number is auto-assigned by the Thrive software and is not user accessible therefore eliminating the possibility of duplicate assignment or transcription errors. When Thrive Person Profiles are merged an ADT A40 event message is triggered and sent.
- By default, Evident will send the Thrive Person Profile number in PID.3 as part of the patient identifier list with an identifier type of "PN" and in PV1.50. Other mapping options may be available on request.
- The Thrive MRN is also sent in PID.3 as part of the patient identifier list with an identifier type of "MR". Note: If needed, the Thrive MRN can be removed from the identifier list in PID.3 to eliminate any possibility of its being used by the HIE as the facility unique patient identifier.
- > A patient's consent to share data with an HIE is documented in Thrive on the patient account Consent/Privacy settings, specifically the value documented in the field labelled "HIE Shared Data".
  - Valid selections for this field include "Y" (share data), "N" (do not share) and "E" (share in emergency). A default value for this field is determined by a setting in the Medical Records Control table. Facilities may choose to set this value to match the state/HIE governance for opt-in/opt-out data sharing.
  - During patient registration the default value to share data with the HIE can be accepted or changed to reflect the patient's given preference. A date is recorded whenever this field is updated.
  - Evident will send the patient consent in a custom Z-segment (ZRV). The value indicated in this field can also be sent in PD1.12.1 (Protection Identifier) or in PV2.22 (visit protection indicator).
  - The HIE and facility must determine if Evident should filter messages based on one or more specified Thrive patient consent value(s) or have Evident send all messages allowing for the HIE to determine appropriate sharing of patient data.
  - ***Patient consent should be discussed with all parties as part of the interface implementation process. Evident will need to be notified by the facility and HIE if any special HL7 mapping or message filtering is needed.***
- > The following is a list of ADT event types supported by Evident for 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



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- A28 – Add Person Profile Information
- A31 – Update Person Profile Information
- A40 – Merge Patient Identifier List
- P12 – Procedure Update \*Note: Evident default BAR^P12 message
- > For interfaces dependent on receiving medical record coding updates or BAR^P12 messages (mapped as ADT^A08 event message for this interface), the facility's interface table setting "Profile Change Expiration Days (Discharge days past due)" will need to be evaluated and potentially adjusted in order to capture and send expected diagnosis and procedure codes that are entered after discharge days past due elapsed.
- > 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, patient initial vital signs
- > ADT messages may include the following physicians from the census stay tab associated with the patient visit– attending physician, second physician, primary care physician.  
**Note: Additional providers in Thrive that may be chosen by the patient to receive event notifications are only available with an HIE ADT interface by special request. A separate PE and Evident specification can be provided for this additional functionality.**
- > Thrive EHR utilizes Truven 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 Medical Record (MR) Grouper. Evident will send all available codes with each message.  
**Note:** Diagnosis and procedure (CPT/HCPC) codes, MR Finish Date and indication of coding finalized must be entered in the Thrive MR Grouper in order for the codes to be reported in the ADT messages.
- > Patient problems list can be included with ADT messages upon request and sent in PRB segment(s).
- > Typically, ADT messages may be filtered by Stay Type, Service Code, or Subtype if needed. Other filter options may be evaluated at install.
- Lab Results Outbound from Thrive –
  - > Lab result results are sent in HL7 ORU messages and may include the following segments: MSH, SFT, PID, PD1, NK1, PV1, PV2, AL1, DG1, GT1, ACC, ORC, OBR, OBX, NTE, and SPM. Evident can filter segments and fields based on third-party system needs, if required.
  - > Results may include both discrete and non-discrete text results. For the transmission of discrete reference lab and/or microbiology results please **see NOTES below**.





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- > Scanned documents are not included with this interface functionality.
- > Evident will send corrections of single test results that are part of an ordered panel, i.e. CBC. Evident applies a status of "C" to OBX.11 for the corrected test(s). The entire panel will be included in the transmission.
- > 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 the Thrive software applications. **Note:** LOINC codes are not available at the test level (OBX-3) with results sent as non-discrete text.
- > Results will be transmitted automatically when they are completed. Results can also be re-sent 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.
- > Retransmission of results will contain all test results for that order.

### **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 discrete/coded lab results to be transmitted from Evident to existing lab result-receiving vendors, the facility is encouraged to coordinate discussions with those vendors and 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 can be made per individual interface.***

- Radiology Results Outbound from Thrive –
  - > Radiology results are sent in HL7 ORU messages and may include the following segments: MSH, SFT, PID, PD1, NK1, PV1, PV2, AL1, DG1, GT1, ACC, ORC, OBR, and OBX. Evident can filter segments and fields based on third-party system needs, if required.
  - > Transcribed reports will be sent in an ORU message as text or RTF, depending on how the report is stored in Thrive.
    - Text reports can either be sent in multiple OBX segments (default) or a single OBX segment with each line of the report separated by a tilde (~).



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- Reports stored as RTF will be sent in a single OBX segment. Note: RTF reports can also be converted to text prior to sending the message if required.
  - > Results can be transmitted automatically when they are completed. Results can also be re-sent using manual send options within the Thrive software applications.
  - > Only final/signed reports will be transmitted unless otherwise specified by the facility.
  - > Re-transmission of reports (with changes, addendums, etc.) will contain the entire transcribed report and replaces the previously transmitted report for that patient with the same Thrive order number.
  - > Scanned documents are not included with this interface functionality and require a separate interface feed from Electronic File Management application (EFM).
- Medical Record Transcriptions Outbound from Thrive –
  - > The interface will send reports transcribed and stored in Thrive Health Information Management (MR) Transcription application. Reports documented in Thrive Physician Documentation or Thrive Notes applications are not available with this interface feed.
  - > Transcribed results will be sent as HL7 ORU messages and may include any of the following HL7 segments: MSH, SFT, PID, PD1, NK1, PV1, PV2, AL1, DG1, GT1, ACC, ORC, OBR, and OBX. Segments can be filtered based on third-party system needs.
  - > Evident can send all transcriptions or limit by patient type and/or report type(s) based on facility requirements.
  - > Transcribed reports will be sent in an ORU message as text or RTF, depending on how the report is stored in Thrive.
    - Text reports can either be sent in multiple OBX segments (default) or a single OBX segment with each line of the report separated by a tilde (~).
    - Reports stored as RTF will be sent in a single OBX segment. Note: RTF reports can also be converted to text prior to sending the message if required.
  - > Reports can be transmitted automatically when they are completed. Reports can also be re-sent using manual send options within the Thrive applications.
  - > Retransmission of reports (with changes, addendums, etc.) will contain the entire report and replaces the previously transmitted report for that patient having the same document ID.
- Pharmacy Orders Outbound from Thrive – *\*optional functionality*
  - > Pharmacy order messages are sent as RDE messages and may include the following HL7 segments: MSH, SFT, PID, PD1, NK1, PV1, PV2, OBX, AL1, DG1, GT1, ACC, ORC, TQ1, RXE, RXR, and RXC. Evident can filter segments based on third-party needs if required.
  - > Pharmacy orders can include new orders, order status changes and order cancellations for IV and non-IV pharmacy orders. Orders are sent in real-time and not as a complete medication list in a single message.
  - > Pharmacy orders will contain the indicated Give Time of a medication but not the administered time. **Note: Medication administration messages (RAS) are not available with the interface.**





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- > Immunizations/vaccinations must be associated with a Thrive Pharmacy order in order to be sent through the interface.
- > Patient home medications must be associated with a Thrive Pharmacy order in order to be sent through the interface.
- > Patient allergies can be included with medication orders in AL1 segments. The Thrive software utilizes Micromedex allergy codes and descriptions. These codes cannot be translated by Evident.
- > Evident can send an indicator when an order is associated with a patient's own medication. If needed, this indicator can be sent with order messages in an unused HL7 field.
- > Patient Height, Weight and calculated Creatinine Clearance values can be transmitted with order messages. When available these values are reported in OBX segments.
- > The timing for pharmacy orders sent to the Evident Interface management System (IMS) is based on facility specific table settings in Thrive. All outbound pharmacy orders will follow these table settings, i.e. outbound pharmacy orders feed, ADM interface, etc.  
**Note: Depending on these table settings, pharmacy orders entered through Thrive Provider Care portal (ChartLink) application must be verified/released by either nursing service and/or pharmacy prior to being sent to a third-party vendor interface.**
- Immunizations Outbound from Thrive –
  - > This immunization feed is in addition to and does not replace the need for a separate immunization interface to Oklahoma state registry to meet the Promoting Interoperability measure for public health reporting.
  - > VXU event type sent by the interface is V04 – Unsolicited Immunization Update.
  - > Evident can transmit administered vaccination records and vaccinations reported as received by the patient. Please note that VXU messages for vaccinations that are reported as “received” by the patient will not include information such as the lot number, manufacturer, expiration date and administered amount.
  - > “Reaction to Immunization,” “Vaccination Contraindication/Precaution,” and “Forecasting information,” will not be transmitted in the VXU message.
  - > VFC Status Codes and Publicly Supplied identifier may be transmitted in the VXU message for facilities using version 18 of the Thrive software.
  - > When a unique identifier is required in the message for administered vaccinations Evident will send the combination of the entered date, entered time and CVX code to ensure a unique value. Evident does not have the capability to generate a unique identifier for non-administered vaccinations.
  - > Evident can send newly administered immunizations only or include historical immunizations with each new administration message.
- Translations may be required for some table-driven fields in Thrive, such as race, relationship, etc.





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- > 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.
- Evident can accommodate minor mapping and filtering requirements that may be determined during the install, i.e. physicians and patient types.
- Sample messages from the hospital's system 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.
- 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.



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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: \_\_\_\_\_



## Interface Performance Expectations

### Third Party System: MyHealth Access Network (MyHealth)

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- Interface Functionality:  
Outbound from Thrive – C-CDA from EFM (MDM messages)
- 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.
- 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 updates.
- Evident will install HL7 unidirectional and bidirectional interfaces using version 2.5.1 unless otherwise noted prior to interface implementation.
- Transmission of data via the interface:
  - > Only the last ten days of messages at any given time can be transmitted via the interface.
  - > Archived or historical data is **not** available for transmission via the interface.
- Thrive Electronic File Management (EFM) application is required for this interface functionality.
- Consolidated CDA (C-CDA) submission to the HIE –
  - > ***This interface cannot be utilized to satisfy the bidirectional HIE Alternate measure to support the two existing Promoting Interoperability measures for Electronic Referral Loop to send, receive, incorporate and reconcile Health Information,***
  - > Evident will send the C-CDA base64 encoded within an HL7 MDM message. Message segments may include the following: MSH, SFT, PID, NK1, PV1, PV2, AL1, DG1, GT1, TXA, OBR, and OBX. Evident can filter segments based on third-party needs.
  - > ***An automated process for submitting a patient C-CDA is not available with this interface.*** The C-CDA is not automatically triggered and submitted when updates are made to patient data, such as immunization administrations, new lab results, allergy updates, etc.
  - > The C-CDA is selected and submitted from the Patient Medical Summaries option accessible from Print Electronic Record in Health Information Management and from the patient chart Health Information Resource. Access to these areas and the submit to HIE option are controlled by user login security settings.
  - > Each facility will be responsible for establishing internal policies and procedures for determining appropriate time(s) for submission of C-CDA along with granting appropriate personnel access to these functions.
  - > The sections and content included on the C-CDA produced from Thrive are determined by a facility's software version and configuration. Evident Thrive C-CDA is certified based on Promoting Interoperability standards and measures and cannot be customized per HIE.





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- HIE Interface and Thrive Consent/Privacy Settings –
  - > From the Thrive software, a patient's decision to share their data with an HIE through the interface can be documented in the Consent/Privacy field "HIE Shared Data".
    - Selections for this field are "Y" (share data) or "E" (share in emergency only) and "N" (do not share). A default value for this field can be facility configured in the medical records control table.
    - Evident can filter messages to send to the HIE based on the value in this field upon facility request.
    - Each facility will be responsible for establishing internal policies and procedures for obtaining patient consent for HIE participation.
  - > Within the Thrive Consent/Privacy Settings the field "Data Sensitivity Level" is used to convey patient data confidentiality/sensitivity level within the C-CDA.
    - Data sensitivity level selections follow standard values of "N" (normal), "R" (restricted), or "V" (very restricted). This value is sent in the header section of the C-CDA XML as the confidentiality level. **Note: This field sets the patient data confidentiality level within the C-CDA; it does not remove or exclude data from the C-CDA content. For information on setup options for excluding data from the C-CDA please contact Evident Client Services Application Support.**
    - This field has a default value of "N"; the default value cannot be user-defined. Any changes needed to the value of this field on a patient account must be manually performed.
    - The facility will be responsible for establishing internal policies and procedures for determining data confidentiality level and granting appropriate personnel access to update this setting.
- 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.
- Evident can accommodate minor mapping and filtering requirements that may be determined during the install, i.e. physicians and patient types.
- Sample messages from the facility's Thrive system can be provided after the scheduled implementation begins and messages are being generated.
- The transmission of files to/from EFM can greatly affect performance of the Interface Management System (IMS), particularly when large files are involved. Evident will evaluate each facility's IMS prior to providing a quote for this type of interface. However, facilities should also be aware that an IMS upgrade may be necessary during the interface implementation in order to successfully support the EFM image/document interface.



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