

**Hospital Vendor Contract – Summary Sheet**

1. Name of Contract: Evident/Spacelabs/CPSI Interface Addendum
2. Contracted Parties: Evident and Mangum City Hospital Authority
3. Contract Type Services: Spacelabs CPSI Interface
4. Description of Services: This add on will allow Spacelabs data to communicate with CPSI. Corp IT recommends this.
5. Cost:  \$101 (Monthly) -and-  \$9,000 Initial Cost(Annually)
6. Term: Unknown Years
7. Termination Clause: Unknown



**Evident, LLC  
System Solution**

**for**

**MANGUM REGIONAL MEDICAL CENTER**

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**Submitted to:**

**Craig Peter  
Mangum Regional Medical Center**

**Date Submitted: June 3, 2021**



## Interface Performance Expectations

**Third Party System: SpaceLabs Intesys Vital Sign**

**Revised: May 6, 2021**

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: \_\_\_\_\_

## Interface Performance Expectations

### Third Party System: SpaceLabs Intesys Vital Sign

Revised: May 6, 2021

- Interface Functionality:  
Outbound from Thrive – Patient Demographics (HL7 ADT message) - Optional  
Inbound to Thrive – Vital Signs data (HL7 ORU message)
- The bidirectional interface will consist of unsolicited outbound patient demographics and unsolicited inbound vital signs data.
- 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. The interface does not currently support IHE PCD Profiles.
- Data will be transmitted utilizing TCP/IP communications. Evident will act as TCP/IP client when sending data and the TCP/IP server when receiving data. HL7 Minimal Lower Layer Protocol will be followed for data framing.
- Evident expects to receive HL7 message acknowledgements from the receiving application. Please note that only active patient data (not yet archived) can be sent through the interface.
- Patient Demographics (ADT) Outbound from Thrive –
  - > Evident will send data for all bedside monitors only through a central monitoring device or system.
  - > 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, ZEI (employer information), ZRV (Patient HIE consent), and ZED (ED visit log). Segments may be filtered based on third-party needs.
  - > Following is a list of ADT event types supported by the interface 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
    - A28 – Add Person Profile Information

## Interface Performance Expectations

### Third Party System: SpaceLabs Intesys Vital Sign

Revised: May 6, 2021

- A31 – Update Person Profile Information
- A40 – Merge Patient Identifier List
- P12 – Procedure Update; Default is BAR message event
- > ADT update messages (A08) will be triggered based upon the following 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
- > Micromedex allergy codes and descriptions are utilized and cannot be translated by Evident.
- > Diagnosis codes, procedure codes and DRG codes are sent in the message from the Medical Record (MR) Grouper. Evident default is a BAR transaction with event type P12 that will send MR coding updates reporting all available codes with each message.
- > Typically, ADT messages may be filtered by Stay Type, Service Code, or Subtype. Other filter options may be evaluated at install.
- Patient Vital Signs Inbound to Thrive
  - > Evident will receive data for all bedside monitors only through a central monitoring device or system.
  - > Vital sign data is sent as HL7 ORU messages and may include the following segments: MSH, PID, PV1, ORC, OBR, and OBX. Evident will ignore all other segments.
  - > Unsolicited vital sign results will be applied to the Point of Care Flow Chart application. Result messages must include the Thrive patient account number (visit number).
  - > The interface can be configured to upload vital signs to Thrive by one of the following options:
    - Configuration for the processing of inbound vital signs to be performed manually from the Vital Signs application or from Point of Care Flow Charts. This option allows the received vital signs to be reviewed and imported or discarded during manual processing.
    - The interface may be configured to automatically upload all received vital signs to the Thrive patient account. **Note: Automatically uploading vital signs data requires all patients be assigned to a room.**
  - > Vital Sign results are available from the Vital Signs application, Clinical Documentation, Point of Care Flow Charts, and ChartLink.
  - > Vital sign results cannot be accessed or viewed from the WhiteBoard Patient Index.

The following is a list of vital sign parameters that may be uploaded to Thrive –

- Temperature

## Interface Performance Expectations

**Third Party System: SpaceLabs Intesys Vital Sign**

**Revised: May 6, 2021**

- Pulse
- Respiration
- blood pressure (non-invasive, arterial)
- oxygen saturation (O2 Sat)
- fraction of inspired oxygen (FiO2 via O2, ventilator)
- ventilator rate
- Tidal volume
- positive end-expiratory pressure (PEEP)
- peak inspiratory pressure (PIP)
- central venous pressure (CVP)
- positive airway pressure (PAP)
- pulmonary artery wedge pressure (PAWP)
- cardiac output
- Height
- Weight

- > Units of measure should be sent in OBX.6 for each parameter. For height and weight, the units of measure are required; for all other parameters the units of measure are required if available.
- > Evident can filter and upload the vital sign results based on time intervals per patient location or time intervals only. The Thrive patient location must be included in the HL7 result message when filtering by time intervals per patient location.
- > Evident requires a single result per OBX segment, field 5. For example, the blood pressure result must be sent as 2 separate OBX segments, the systolic result in one OBX-5 and the diastolic in an OBX-5 segment.
- > Evident will generate an error log that will include information about vital sign records that are not successfully uploaded.
- > Evident can provide a translation table of vendor vital sign test codes to Thrive test codes.
- > Evident expects to receive an identical test code for a single parameter, i.e. when Pulse is received from different vital sign machines Evident expects a single code for Pulse.

### **Functionality not supported by the Interface:**

- > Fetal tracings or fetal charting fields, pain levels, methods or lab tests are not available for upload via the interface.
- > This interface does not include the upload of waveform data or monitor strips.
- 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 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.



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- 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.
- 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 both the third-party vendor and Evident 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.



**MANGUM REGIONAL MEDICAL CENTER  
INTERFACE MANAGEMENT SYSTEM**

**Interface**

One Bi-directional Interface, SpaceLabs 9,000  
Includes: ADT out; ORU in  
Monthly Support: \$ 101

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**INTERFACE TOTAL** 9,000



**MANGUM REGIONAL MEDICAL CENTER**  
**SUMMARY - INTERFACE MANAGEMENT SYSTEM**

<b>Interface</b>	<b>\$9,000</b>
One Bi-directional Interface, SpaceLabs	
Includes: ADT out; ORU in	
<b>SYSTEM PRICE</b>	<b>\$9,000</b>
<b>TOTAL</b>	<b>\$9,000</b>

10% non-refundable scheduling deposit required to place order.

Testing to begin with the facility 90 days after order placement.  
If on-site assistance is requested or becomes necessary, expenses will  
be billed as incurred.

Proposal is based on Performance Expectations (PE) provided for review.  
Signed Performance Expectations required prior to order placement.  
PE = SpaceLabs Bidi Vital Sign Monitor PE

Hardware prices in this proposal will remain valid for a  
period of 30 days. All other prices will remain valid  
for 90 days.