

Bridge-Tech Medical's Device Connectivity Solution (DCS) is a simple approach to data capture and EMR integration.

DCS is comprised of 4 components:

Bridge-Device - (Fusion or IrDA device)

A true plug and play solution that identifies the medical device and immediately begins acquiring data.

Clinical Validation Application - (optional with Fusion)

Clinical Validation Application (CV-App) - Clinicians validate the data captured at the point-of-care. Our CV-App runs on windows based PC's or mobile devices, and can be leveraged on existing health care technology. Medical device data and/or patient data is immediately available for viewing. Upon capturing device data, the care giver can validate and accept data before sending to the EMR. The data is displayed in a format determined by the clinical department so it is familiar to the staff. Thresholds and limits can be set for any parameter to highlight values out of range, allowing inconsistencies to be quickly identified and addressed.

If there is a network outage or EMR downtime, there is no worry about lost data. The data is also stored and cached locally on the CV-App. The data will simply upload when the network is back on-line.

In the examples below, the current vent reading can be compared to the previous. Highlights show values that have exceeded High or Low limits as well as those values that are outside thresholds. This is the stage where the data can be accepted or rejected before sending to the EMR. In the second illustration, it shows how the clinician can view historical data in the CVA.

Confirm Vent Data		
	12/01/2010 15:37	15:14
Therapist	Paul	Paul
Mode	CMV	CMV
Press Sup set, cmH2O	0	0
Rate set, b/min	12.0	12.0
Vt set, ml	130	130
PCV set, cmH2O	0	0
FiO2 set, %	40	40
Flow peak set, L/min	73	73
PEEP/CPAP set, cmH2O	0.0	0.0
Pmean, cmH2O	2.4	2.4
Ppeak, cmH2O	49.0	49.0
Total Rate, b/min	12	12
MV exp, L/min	1.51	1.51
Exp Vt, ml	130	130
HI Rate set, b/min	100000	100000
HI Press set, cmH2O	72	72
LO MinVol set, L/min	0.3	0.3

Accept Discard

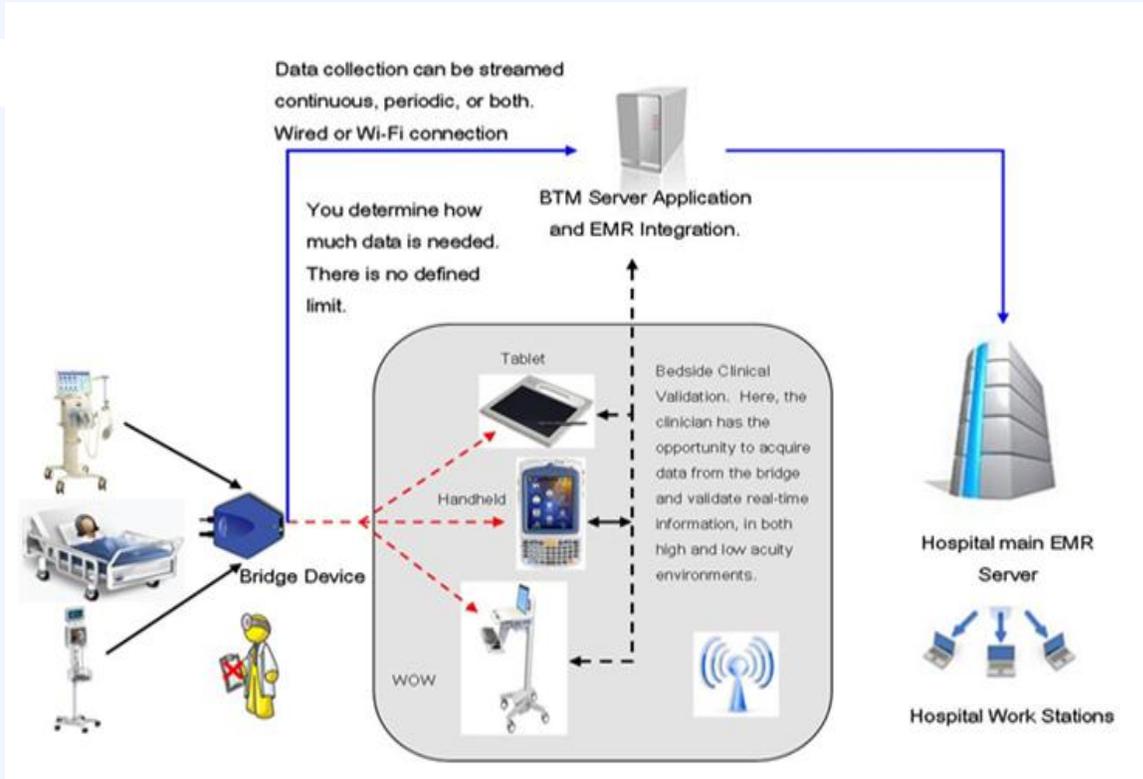
Sally Smith - 34598xz

PB840-SDNA

Historical Data				
Sally Smith - (PB840-SDNA)				
	12/01/2010 15:37	15:14	15:14	15:14
Therapist	Paul	Paul	Paul	Paul
Mode	CMV	CMV	CMV	CMV
Press Sup set, cm...	0	0	0	0
Rate set, b/min	12.0	12.0	12.0	12.0
Vt set, ml	130	130	130	130
PCV set, cmH2O	0	0	0	0
FiO2 set, %	40	40	40	40
Flow peak set, L/min	73	73	73	73
PEEP/CPAP set, c...	0.0	0.0	0.0	0.0
Pmean, cmH2O	2.4	2.4	2.4	2.4
Ppeak, cmH2O	49.0	49.0	49.0	49.0
Total Rate, b/min	12	12	12	12
MV exp, L/min	1.51	1.51	1.51	1.51
Exp Vt, ml	130	130	130	130
HI Rate set, b/min	100000	100000	100000	100000
HI Press set, cmH2O	72	72	72	72
LO MinVol set, L/min	0.3	0.3	0.3	0.3

Close

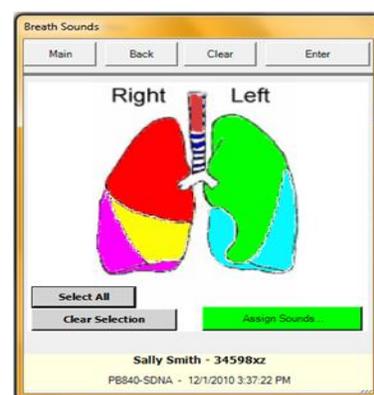
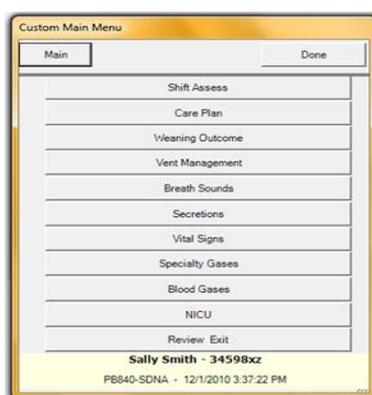
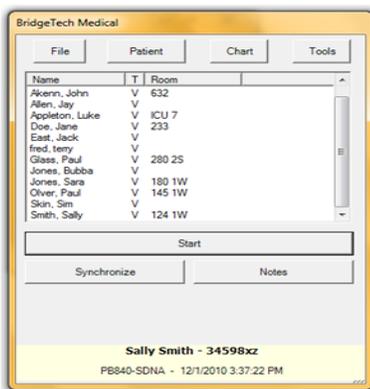
If there is a network outage or EMR downtime, there is no worry about lost data. The data is stored and cached locally on the CV-App. The data will simply upload when the network is back on-line.



CV-App Plus - (optional)

Bridge-Tech also features CV-App Plus - Device data capture plus customized input forms on our Clinical Validation Application to document observations, treatments, etc. CV-App Plus includes productivity reporting, clinical reports designed to identify trends, and more. CV-App Plus is an add-on solution for customers that do not have EMR input access or have a less-than-satisfactory documentation system.

Shown below are a few examples of our optional **CV-App Plus Quick Tap forms** for patient notes documentation. In the last illustration, you will see that verification of the note(s) input is also required before the data moves on to the EMR.



CV-App Plus - (optional) continued:

Cough- Suction/ Sputum Amount

Main Back Clear Enter

Airway Cleared by: Cough
 N.T. Suction
 Suction

Suction Catheter fr

Secretion / Sputum Amount

Cough Effort

 None
 Poor
 Fair
 Good

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Verification

Discard all Back Save All

Additional Input: All Notes

Note	Data
ETT Position	8
ETT at	Lip line-Right side
ETT Tipped	15
B Sounds RUL	Diminished
B Sounds RML	Diminished
B Sounds RLL	Diminished
B Sounds LUL	Diminished
B Sounds LLL	Diminished
B Sounds Airway	Diminished
Sputum Amount	Small
Sputum Consistency	Moderately Thick
Sputum Color	Yellow

Edit

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CALCULATIONS MENU:

Main Done

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BTM Server

BTM Server Application - Collects and stores validated data from the CV-App or non-validated streaming data across the enterprise and stages data transmission to EMR via flexible, proven integration solutions. The Bridge-Tech Server Application synchronizes with the CV-App (validated data) or receives streaming data (to be validated later) via Wi-Fi and stores clinical data permanently. Clinical information is viewable on the hospital network. Encrypted code and user credentials assure convenient but controlled access by medical staff. HL7 or other interface with EMR is staged from the server application. This application can run in a virtual environment so the health care facility can leverage existing technology. Administrative tools for configuring the clinical application and more are part of the Server Application. The tools allow customization to fit individual department needs.