



<b>Document Description:</b> Supported Workflows including Single Sign-On for CVSM	<b>Document Number:</b> 80026956 <b>Version:</b> A
	
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<h2 style="margin: 0;"><i><b>Customer Service Bulletin</b></i></h2>	
<b>Product:</b> Connex Vital Signs Monitor (CVSM)	<b>Date:</b> 2020-07-16
<b>Subject:</b> Supported Workflows including Single Sign-On for Connex Vital Signs Monitor (CVSM)	
<b>HW Version(s) Affected:</b> P3,P5,P6	<b>SW Version(s) Affected:</b> 2.42.00, 2.43.00
<b>Serial Numbers Affected:</b> All	<b>Lot or Date Code Affected:</b> All
<b>Classification:</b> Informational Only	
<b>Distribution:</b> <input checked="" type="checkbox"/> Customer Care <input checked="" type="checkbox"/> Product Service <input checked="" type="checkbox"/> Field Service <input checked="" type="checkbox"/> ASPs <input checked="" type="checkbox"/> Distributors <input checked="" type="checkbox"/> Customers <input type="checkbox"/> Company	
<b>Training Required:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>Summary:</b> This Document Details the Compatible Single Sign On (SSO) workflows that are supported by the Connex Vital Signs Monitor (CVSM) User Interface for Software Versions 2.42.00 and 2.43.00.	

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## Single Sign On Workflows for CVSM Version 2.42.00


### Section One:

#### General Clinician Authentication – single Clinician, no patient vitals data

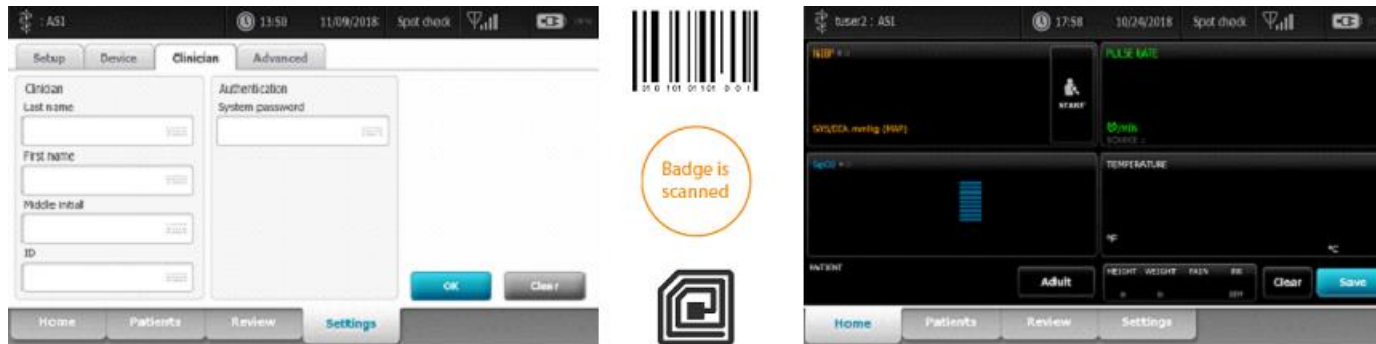
**1A.** Home Screen, Badge Authentication, Within Single Sign On grace period: Badge is scanned, Clinician authenticated, Clinician logged in and patient data save is now available.



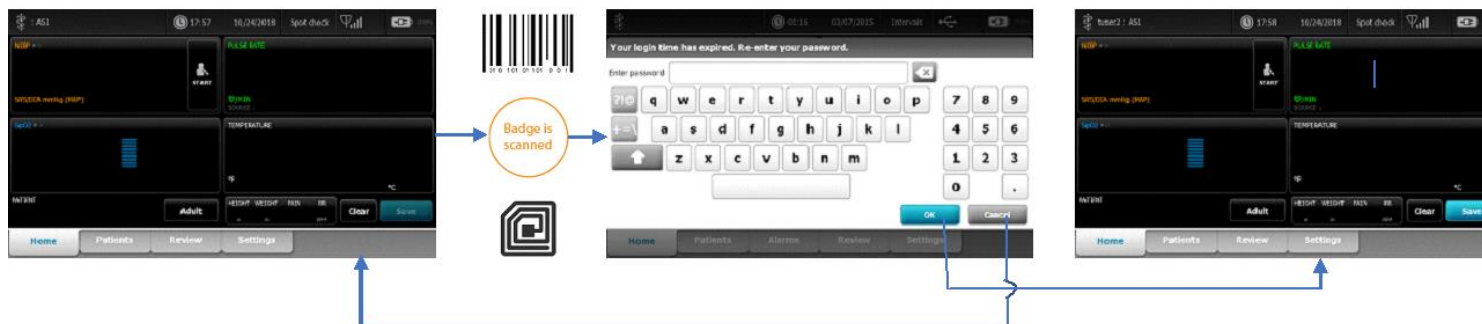
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**1B.** Clinician Screen, Badge Authentication, Within Single Sign On grace period: Badge is scanned, device navigates to Home screen, Clinician authenticated, Clinician logged in and patient data save is now available.



**1C.** Home Screen, Badge Authentication, Single Sign On grace period has expired: Badge is scanned, Clinician is authenticated but a password is needed. Keyboard comes up indicating that the login time has expired, and Clinician password needs to be entered. Clinician enters password, device authenticates Clinician and entered password, and Clinician is logged in and patient save is available. (PIN workflow is the same, but not shown)



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**1D.** Home screen, in intervals mode. No clinician logged in. Going to Settings lower tab, and Setup upper tab. Starting intervals is not available because no clinician is logged in.



**1E.** Home screen, in intervals mode. With clinician logged in. Going to Settings lower tab, and Setup upper tab. Starting intervals button is now available because a clinician is logged in.




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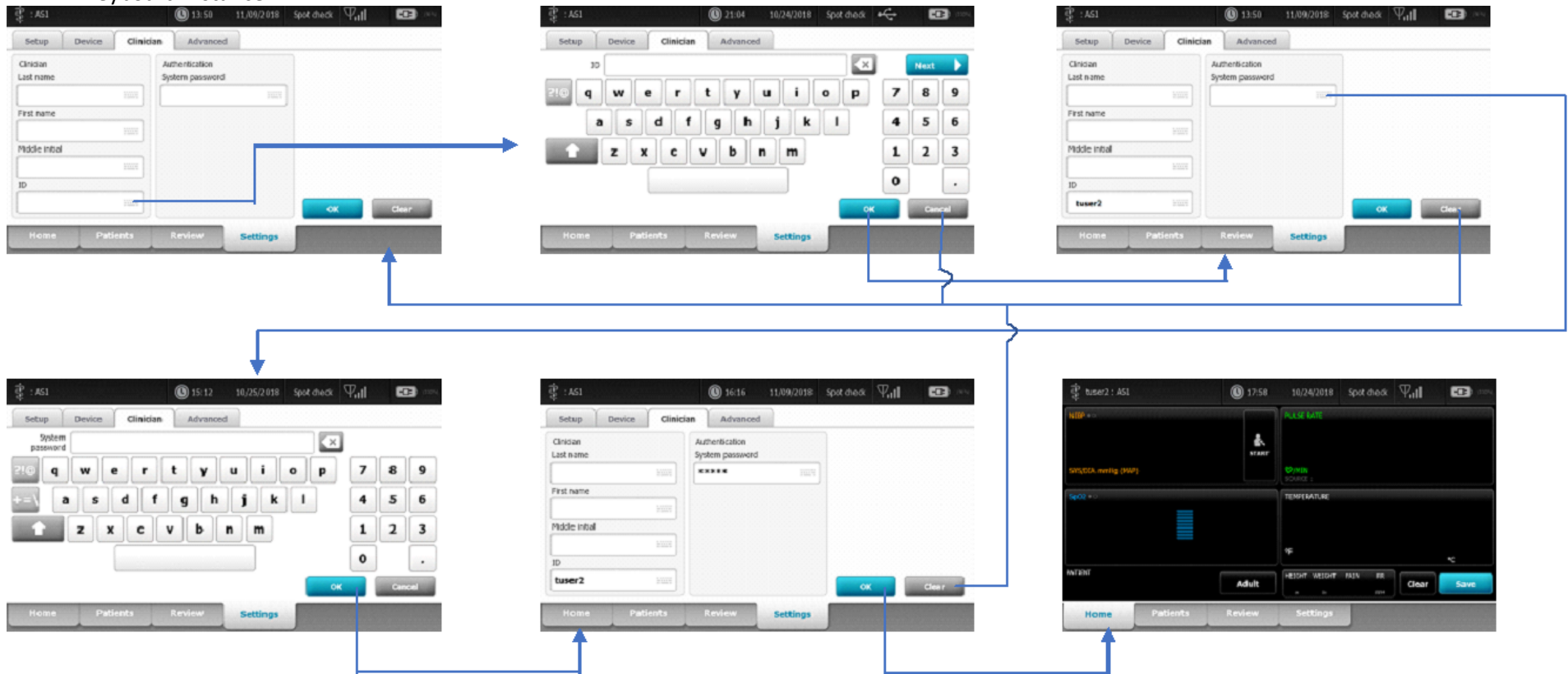
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**1F.** Clinician Screen, Badge Authentication, Single Sign On grace period has expired: Badge is scanned, device navigates to Home screen, Clinician is authenticated but a password is needed. Keyboard comes up indicating that the login time has expired, and Clinician password needs to be entered. Clinician enters password, device authenticates Clinician and entered password, and Clinician is logged in and patient save is available. (PIN workflow is the same, but not shown)



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**1G.** Clinician Screen, Manual Authentication, within grace period or not. Clinician uses the keyboard icons to get to the keyboard screens to manually enter their UserID and Password/PIN. Pressing the OK button on the Clinician screen will navigate to the home page and process the login. Pressing clear will clear all information. Pressing “Cancel” on the keyboard screens will simply close the keyboard without taking any entered data from that keyboard instance.

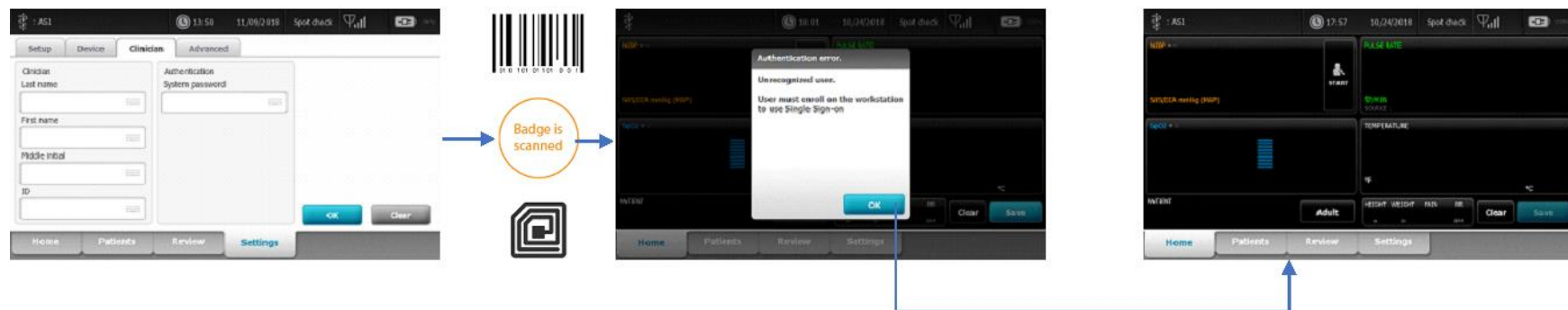


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**1H. Home Screen, Badge Scan, User not enrolled.** After the badge is scanned and processed, a dialog indicating the user is not registered will appear. Hitting the “OK” button will stay on the Home screen with no Clinician entered.




**1I. Clinician Screen, Badge Scan, User not enrolled.** Scanning a badge will immediately go to the Home screen and process the login. A dialog indicating the user is not registered will appear. Hitting the “OK” button will stay on the Home screen with no Clinician entered.




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**1J.** Clinician Screen, Manual Authentication, user is not enrolled. Clinician uses the keyboard icons to get to the keyboard screens to manually enter their UserID and Password/PIN. Pressing the OK button on the Clinician screen will navigate to the home page and process the login. A dialog indicating the user is not registered will appear. Hitting the “OK” button will stay on the Home screen with no Clinician entered. Pressing clear on the clinician screen will clear all information. Pressing “Cancel” on the keyboard screens will simply close the keyboard without taking any entered data from that keyboard instance.



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**1K.** Scanning an RFID Clinician badge on any screen besides the Home screen or the Clinician screen will result in an info message indicating that RFID badge data will not be accepted. The OK button clears the info message.



**1L.** From the Home or Clinician screen, if a Clinician who is already logged in and scans their badge, this will result in the Clinician being logged out. In the case where this is done from the Clinician screen, the device will navigate to the Home screen.

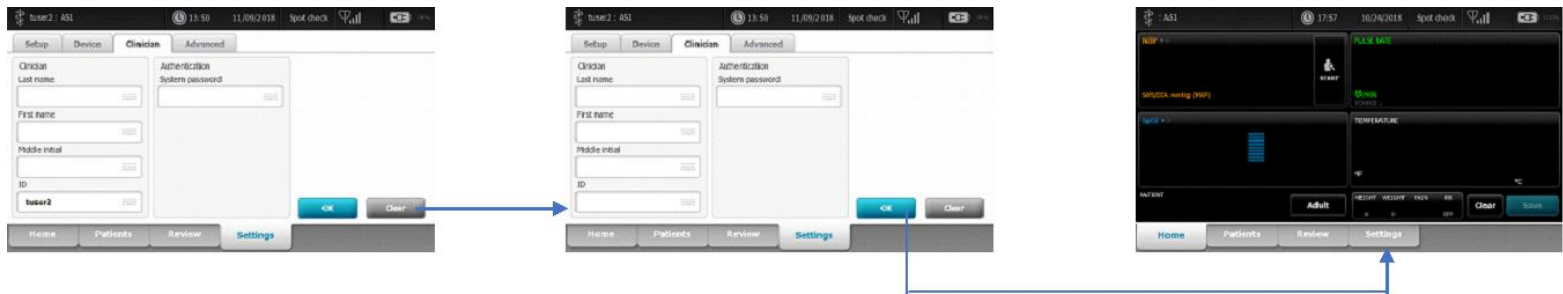
**NOTE:** Scanning an RFID badge to log out can only be used if the Clinician scanned their RFID badge to log in. An RFID badge scan by a Clinician that is currently logged in, and used a manual login workflow to do so, will not log out the clinician. It will instead treat the RFID scan as a new Clinician login.

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**1M.** When a Clinician is logged into the device, navigating to the Clinician screen will result in the logged in Clinician’s data being populated in the appropriate fields of the “Clinician” pane. Touching the Clear button clears all data from the fields in the “Clinician” and “Authentication” panes. Hitting the OK button when these fields are cleared, will result in logging out the Clinician.



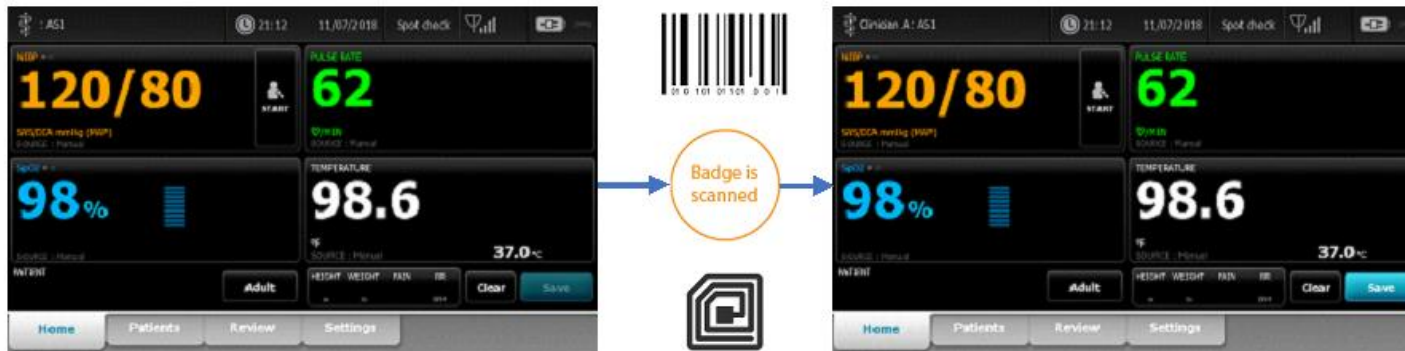
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## Section Two:

### General Clinician Authentication – single Clinician, modes and vitals


**2A.** Home Screen with unsaved vitals, Badge Authentication, Within Single Sign On grace period: Badge is scanned, Clinician authenticated, Clinician logged in with vitals intact, and patient data save is now available.



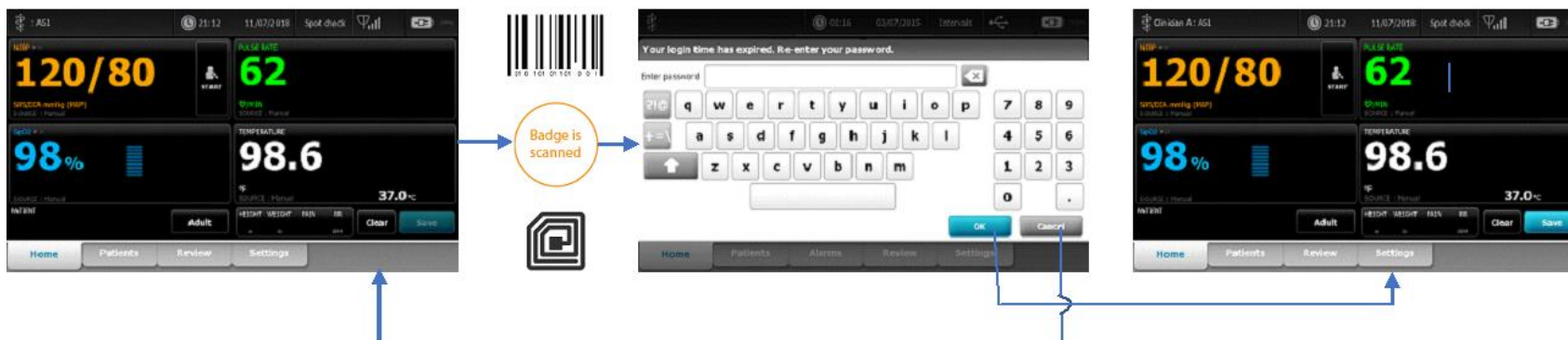
**2B.** Clinician Screen with unsaved vitals, Badge Authentication, Within Single Sign On grace period: Badge is scanned, device navigates to Home screen, Clinician authenticated, Clinician logged in with vitals intact, and patient data save is now available.




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**2C.** Home Screen with unsaved vitals, Badge Authentication, Single Sign On grace period has expired: Badge is scanned, Clinician is authenticated but a password is needed. Keyboard comes up indicating that the login time has expired, and Clinician password needs to be entered. Clinician enters password, device authenticates Clinician and entered password, and Clinician is logged in, vitals are intact, and patient save is available. (PIN workflow is the same, but not shown)




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**2D.** Clinician Screen with unsaved vitals, Badge Authentication, Single Sign On grace period has expired: Badge is scanned, device navigates to Home screen, Clinician is authenticated but a password is needed. Keyboard comes up indicating that the login time has expired, and Clinician password needs to be entered. Clinician enters password, device authenticates Clinician and entered password. Clinician is logged in with unsaved vitals intact, and patient save is available. (PIN workflow is the same, but not shown)




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**2E.** Clinician Screen with unsaved vitals, Manual Authentication, within grace period or not. Clinician uses the keyboard icons to get to the keyboard screens to manually enter their UserID and Password/PIN. Pressing the OK button on the Clinician screen will navigate to the home page and process the login. On successful login, the vitals will remain intact with the patient save button now available. Pressing clear will clear all information. Pressing “Cancel” on the keyboard screens will simply close the keyboard without taking any entered data from that keyboard instance.



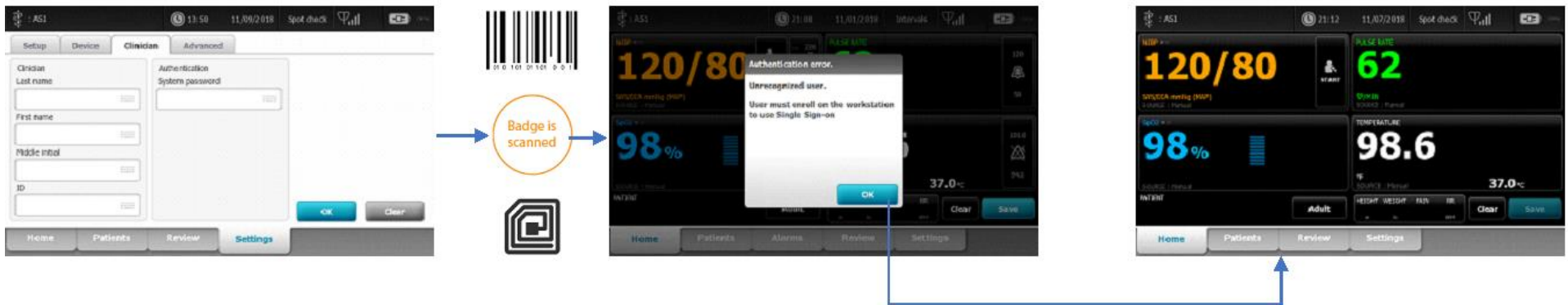
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**2F.** Home Screen with vitals present, Badge Scan, User not enrolled. After the badge is scanned and processed, a dialog indicating the user is not registered will appear. Hitting the “OK” button will stay on the Home screen, leaving the vitals intact, with no Clinician entered.




**2G.** Clinician Screen with vitals present, Badge Scan, User not enrolled. Scanning a badge will immediately go to the Home screen and process the login. A dialog indicating the user is not registered will appear. Hitting the “OK” button will stay on the Home screen, leaving the vitals intact, with no Clinician entered.

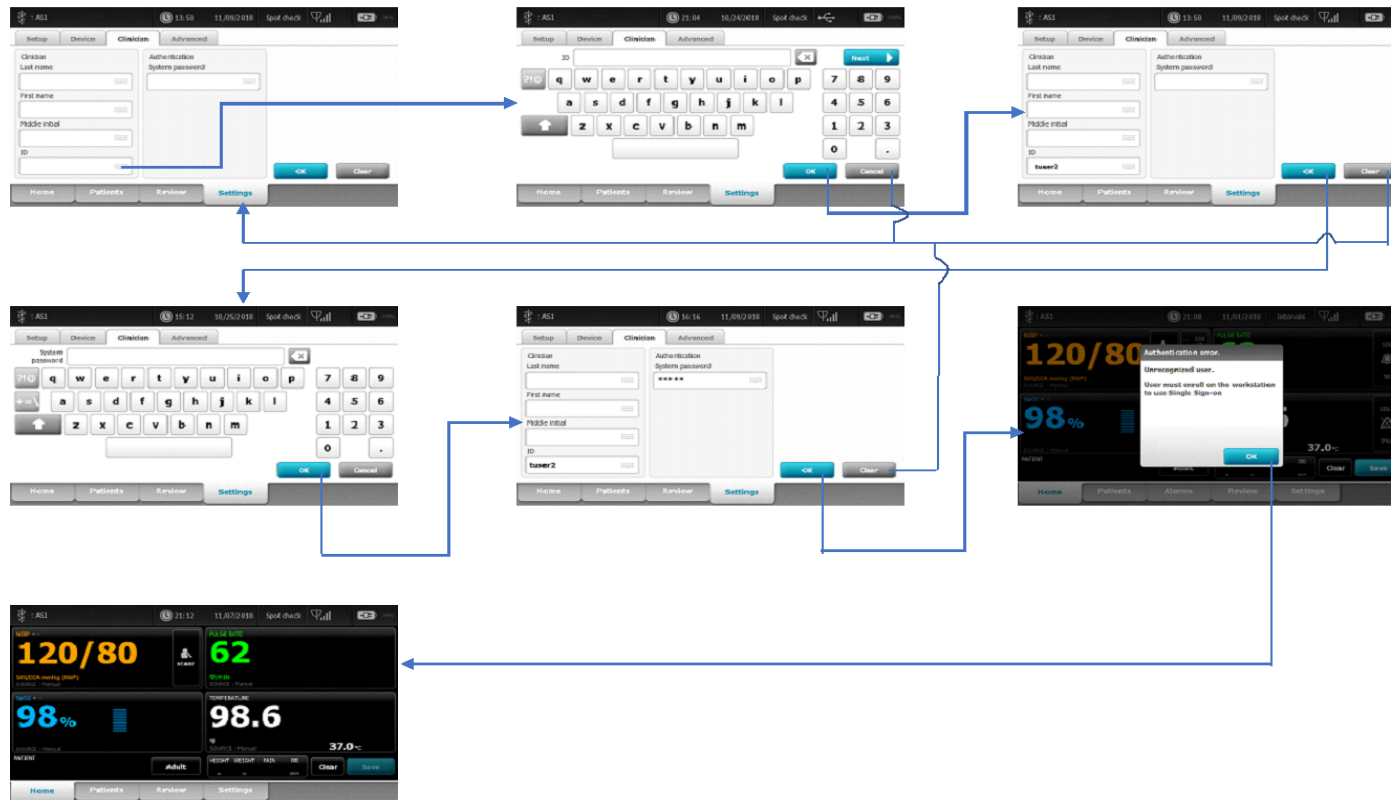



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**2H.** Clinician Screen with unsaved vitals data, Manual Authentication, user is not enrolled. Clinician uses the keyboard icons to get to the keyboard screens to manually enter their UserID and Password/PIN. Pressing the OK button on the Clinician screen will navigate to the home page and process the login. A dialog indicating the user is not registered will appear. Hitting the “OK” button will stay on the Home screen, leaving the vitals intact, with no Clinician entered. Pressing clear on the clinician screen will clear all information. Pressing “Cancel” on the keyboard screens will simply close the keyboard without taking any entered data from that keyboard instance.



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### Section Three:


Spot profile or Intervals profile with intervals not running – Authentication situations with multiple clinicians and/or with unsaved vitals data

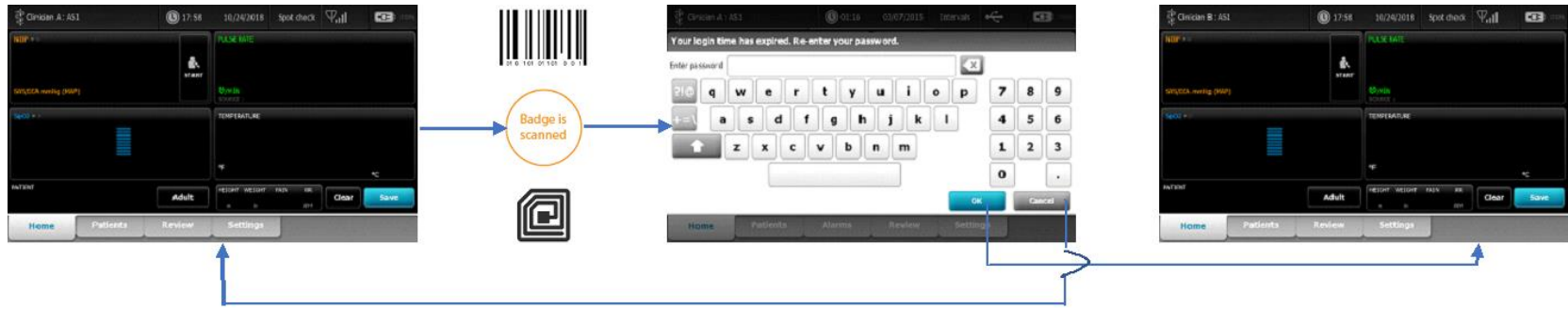
**3A.** Clinician A is logged in with no unsaved vitals or patient data, and Clinician B scans their badge within the Single Sign On grace period configured on the SSO server. When authentication is complete, Clinician A will get logged out, and Clinician B will be logged in.



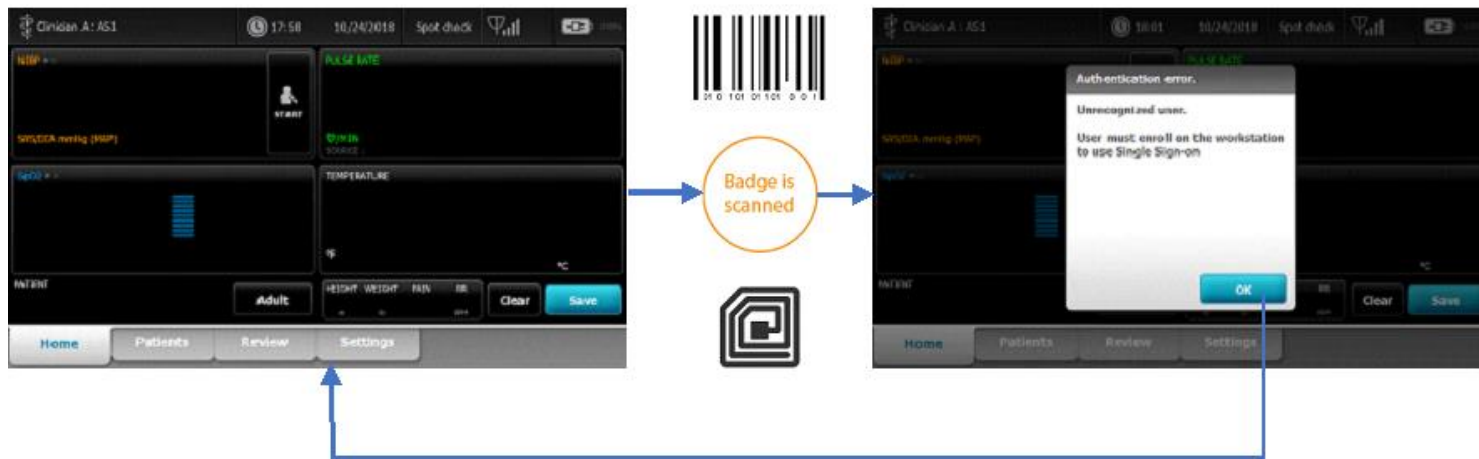
**3B.** Clinician A is logged in with no unsaved vitals or patient data, and Clinician B scans their badge outside of the Single Sign On grace period configured on the SSO server. A keyboard will pop-up with a message indicating that the login time has expired, and the Clinician password or PIN needs to be entered. Upon successful entry of the password or PIN, Clinician A will get logged out, and Clinician B will be logged in.


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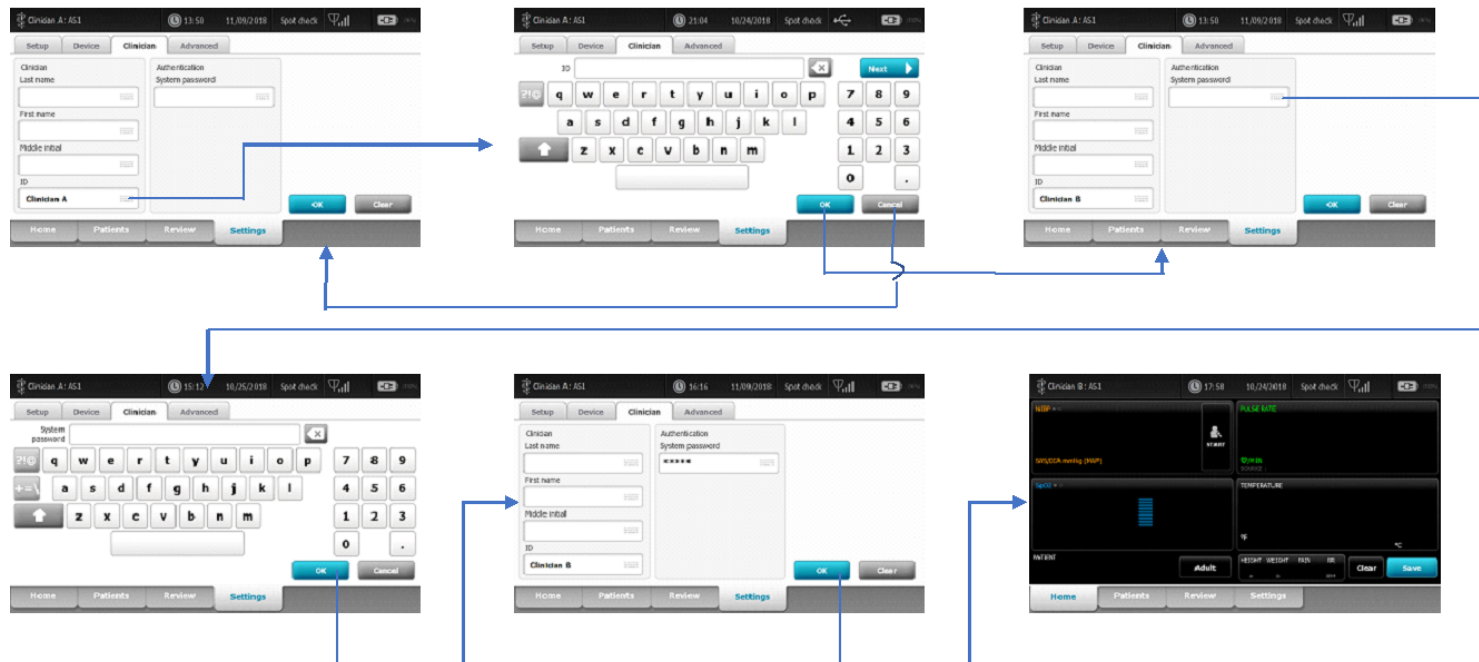
**3C.** Clinician A logged in with no unsaved vitals or patient data, Clinician B scans their badge, but Clinician B is not a registered user on the Single Sign On server. A dialog box will pop up showing the user as being unregistered, and that registration needs to be done on a workstation. Hitting OK leaves Clinician A logged in.




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**3D.** Clinician A logged in with no unsaved vitals or patient data, Clinician B uses the keyboard icons to get to the keyboard screens to manually enter their UserID and Password/PIN. Pressing the OK button on the Clinician screen will navigate to the home page and process the login. Upon successful authentication, Clinician A will be logged out, and Clinician B will be logged in.

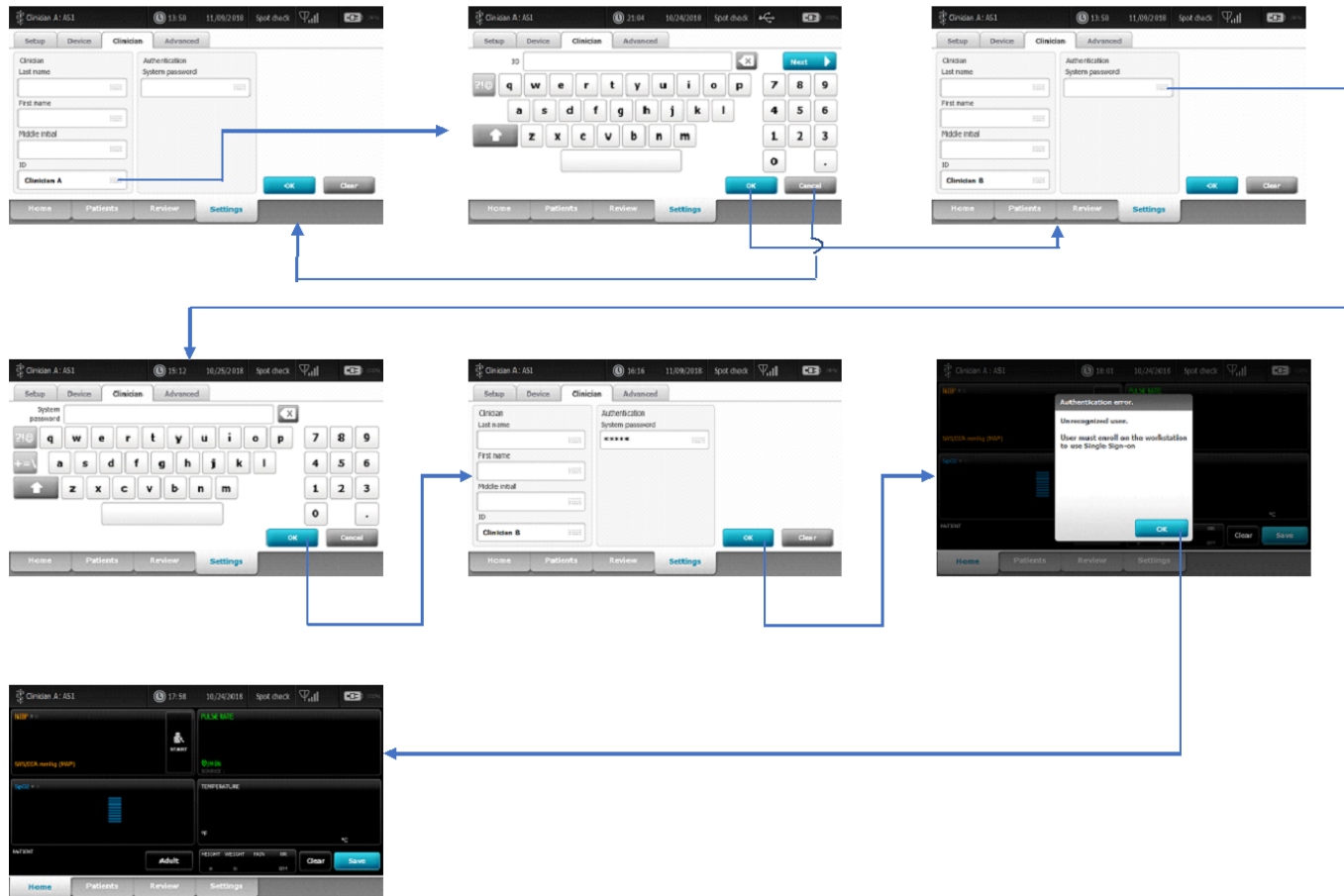
- It doesn't matter if Clinician B is within the grace period or not, when using manual entry it is **always** required to enter the password.
- Not shown, pressing the Clear button on the Clinician screen at any time results in the "Clinician" and "Authentication" pane fields being cleared.
- Not shown, pressing the Cancel button on any of the keyboards results in the keyboard being closed, and returning without any data to the Clinician screen.




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**3E.** Clinician A logged in with no unsaved vitals or patient data, Clinician B uses the keyboard icons to get to the keyboard screens to manually enter their UserID and Password/PIN. Pressing the OK button on the Clinician screen will navigate to the home page and process the login. A dialog box will pop up showing the user as being unregistered, and that registration needs to be done on a workstation. Hitting OK leaves Clinician A logged in.




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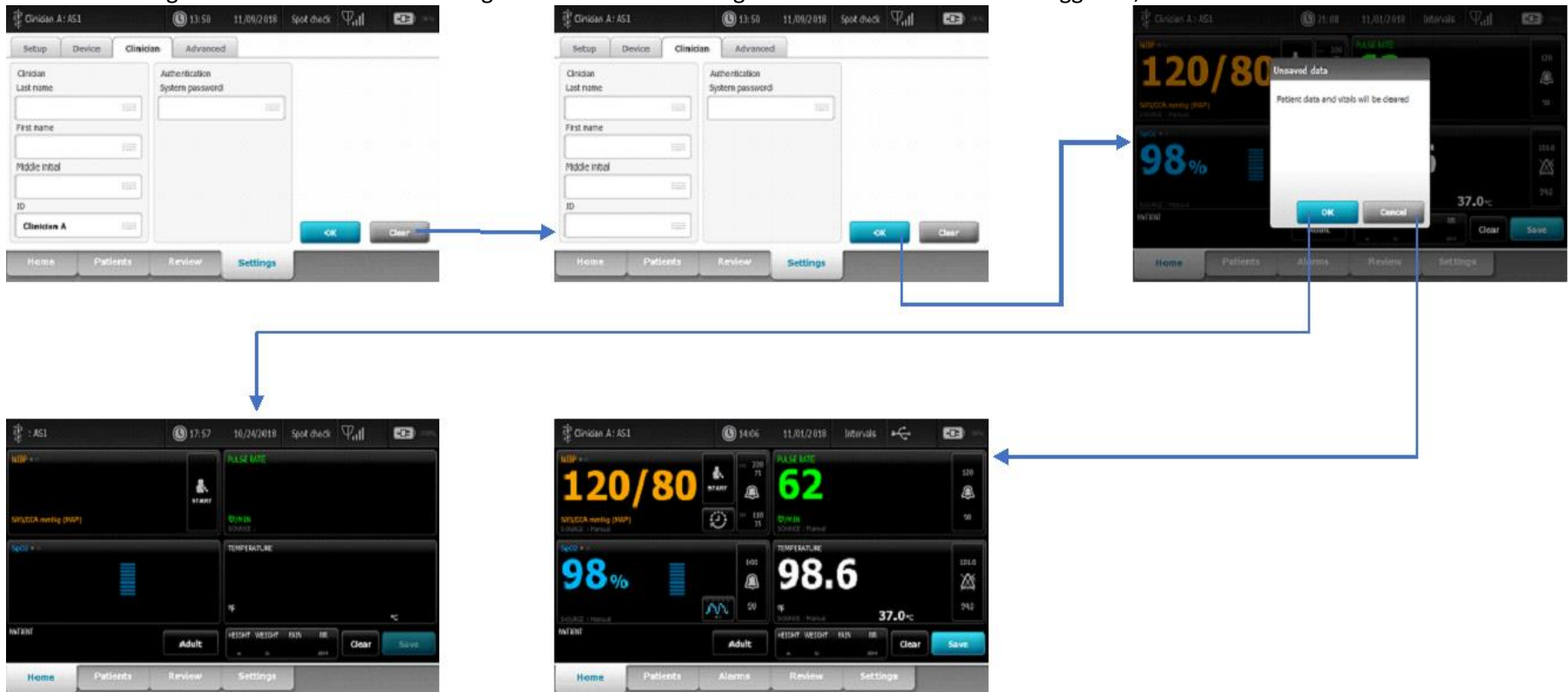
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**3F.** Clinician A logged in and scans badge to log out with unsaved vitals and/or patient data is present. A dialog box will pop up indicating that patient data will be cleared, with the options of OK or Cancel. Pressing OK will clear the vitals and logout Clinician A. Pressing Cancel will leave Clinician A logged in, and the vitals remain intact.




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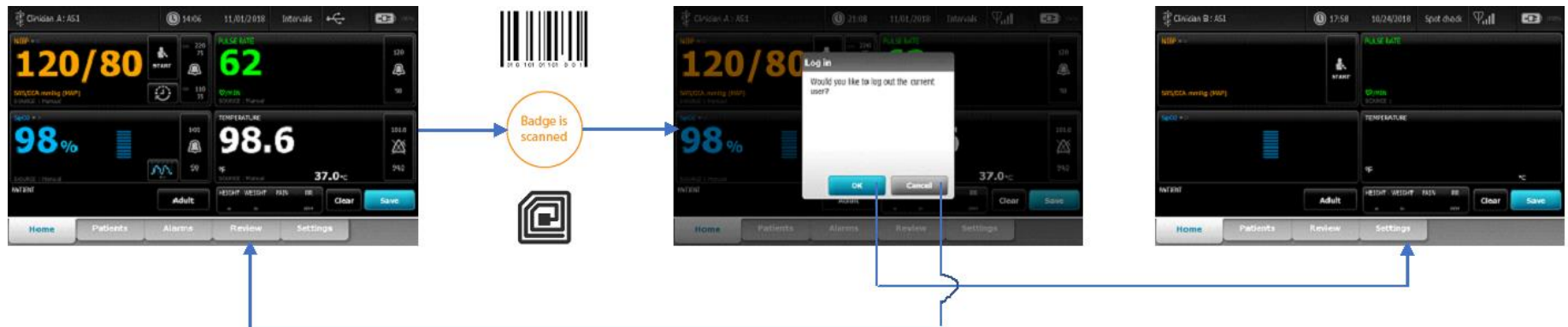
**3G.** Clinician A logged in with unsaved vitals and/or patient data present. They navigate to the Clinician screen, and presses “Clear” and then “OK” to log out. The device navigates to the Home screen where a dialog box will pop up indicating that patient data will be cleared, with the options of OK or Cancel. Pressing OK will clear the vitals and logout Clinician A. Pressing Cancel will leave Clinician A logged in, and the vitals remain intact.



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**3H.** Clinician A logged in with patient and/or vitals data present, Clinician B scans their badge while still within the grace period. A dialog indicating that the currently logged in Clinician would be logged out is displayed with OK and Cancel. Selecting OK will log out Clinician A, and Clinician B would be logged in with the vitals data cleared. Selecting Cancel leaves Clinician A, logged in with the vitals still intact.




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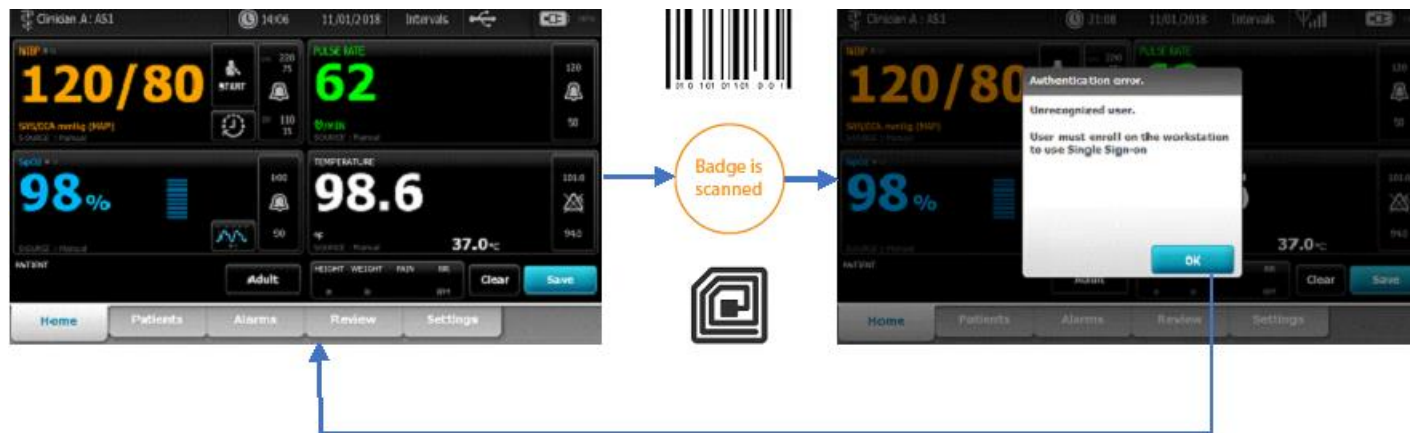
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**31.** Clinician A logged in with patient and/or vitals data present, Clinician B scans their badge but they are outside the grace period of their login. A keyboard will pop-up with a message indicating that the login time has expired, and the Clinician password or PIN needs to be entered. Upon successful entry of the password or PIN, a dialog indicating that the currently logged in Clinician would be logged out is displayed with OK and Cancel. Selecting OK will log out Clinician A, and Clinician B would be logged in with the vitals data cleared. Selecting Cancel leaves Clinician A logged in with the patient and/or vitals data still intact.



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**3J.** Clinician A logged in with vitals and/or patient data present, Clinician B scans their badge, but Clinician B is not a registered user on the Single Sign On server. A dialog box shows up indicating the Clinician attempting to login is not authorized, and that registration needs to be done on a workstation with an OK button. Pressing the OK button leaves Clinician A logged in with the vitals and/or patient data intact.



**3K.** Clinician A logged in with unsaved vitals and/or patient data, Clinician B navigates to the Clinician screen and uses the keyboard icons to get to the keyboard screens to manually enter their UserID and Password/PIN. Pressing the OK button on the Clinician screen will navigate to the home page and process the login. A dialog indicating that the currently logged in Clinician would be logged out is displayed with OK and Cancel. Selecting OK will log out Clinician A, and Clinician B would be logged in with the vitals data cleared. Selecting Cancel leaves Clinician A logged in with the vitals still intact.

**NOTE: It doesn't matter if Clinician B is within the grace period or not, when using manual entry it is required to enter the password/PIN**

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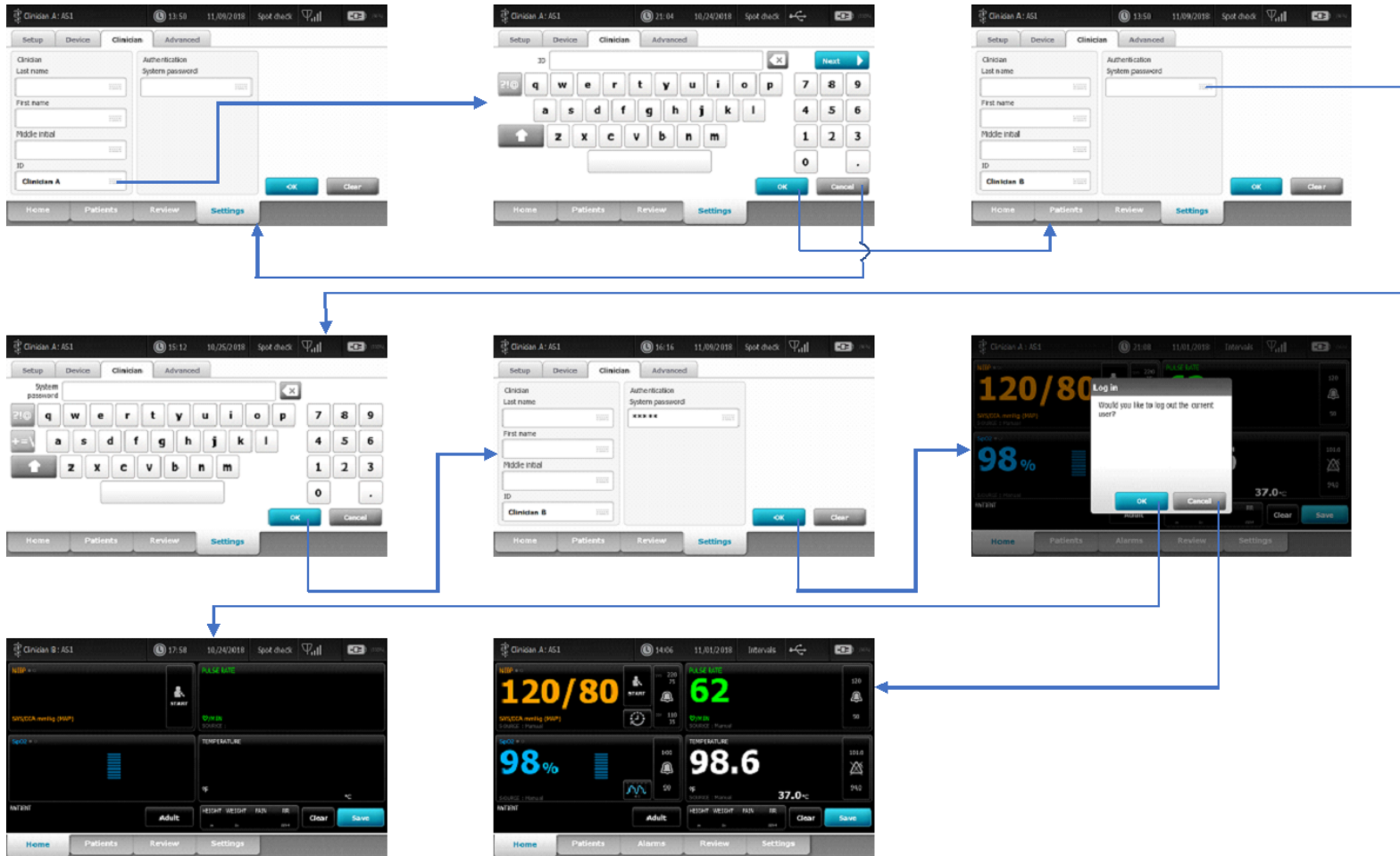
**Document Description:** Supported Workflows including Single Sign-On for CVSM

**Document Number:** 80026956


**Version:** A



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**3L.** Clinician A logged in with unsaved vitals and/or patient data, Clinician B navigates to the Clinician screen and uses the keyboard icons to get to the keyboard screens to manually enter their UserID and Password/PIN. Pressing the OK button on the Clinician screen will navigate to the home page and process the login. A dialog box shows up indicating the Clinician attempting to login is not authorized, and that registration needs to be done on a workstation with an OK button. Pressing the OK button leaves Clinician A logged in with the vitals and/or patient data intact.



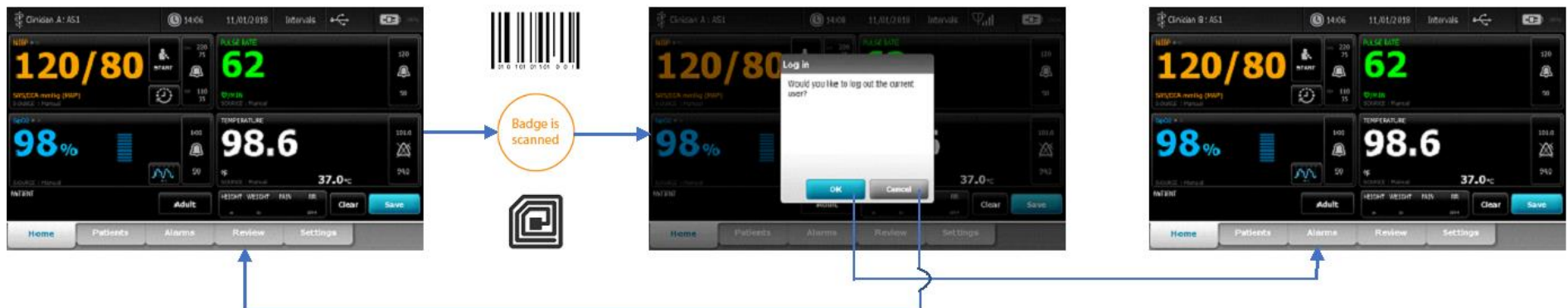
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## Section Four:

Intervals mode – Authentication involving multiple clinicians, with unsaved vitals and/or patient data, while running intervals

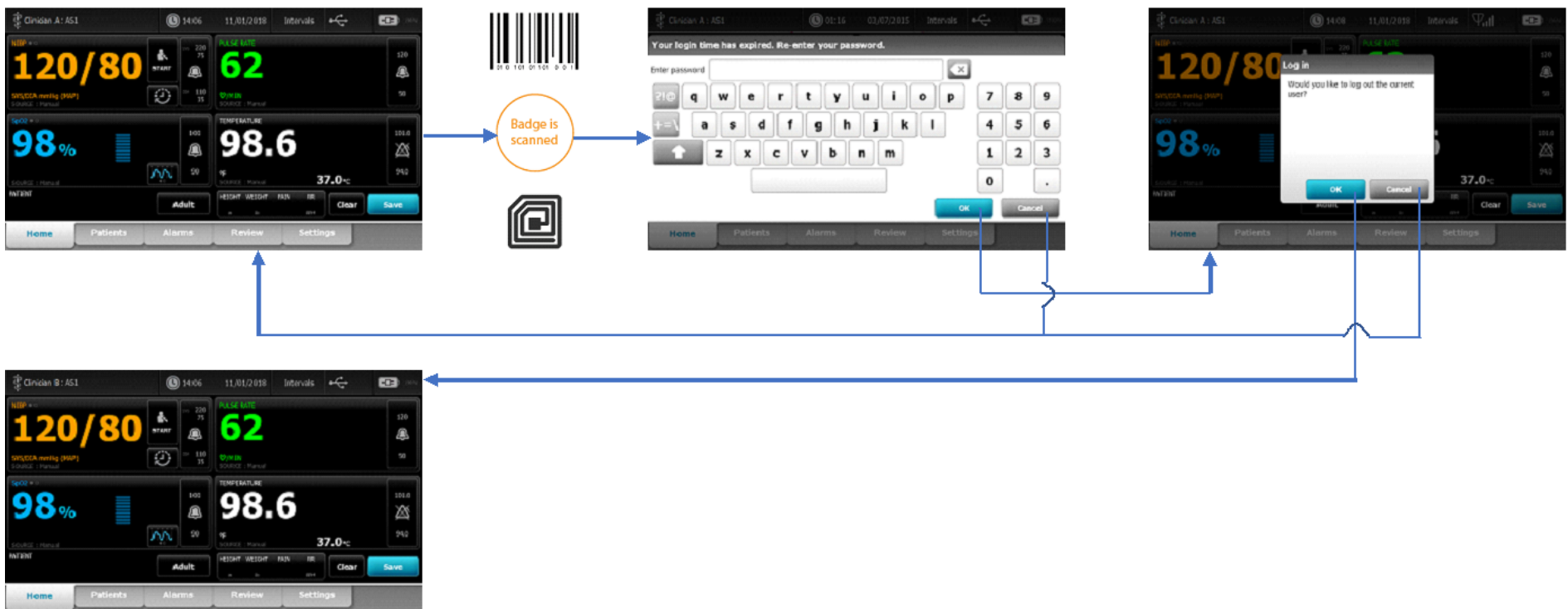
**4A.** Intervals running, Clinician A logged in with unsaved vitals/patient data present, Clinician B scans their badge within their login grace period. A dialog comes up asking if the current user should be logged out with the options of OK and Cancel. Selecting OK will result in Clinician A being logged out, and Clinician B being logged in. Selecting Cancel leaves Clinician A logged in. In both outcomes, the unsaved vitals and/or patient data are left intact




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**4B.** Intervals running, Clinician A logged in with unsaved vitals/patient data present, Clinician B scans their badge within their login grace period. A keyboard will pop-up with a message indicating that the login time has expired, and the Clinician password or PIN needs to be entered. Upon successful entry of the password or PIN, a dialog comes up asking if the current user should be logged out with the options of OK and Cancel. Selecting OK will result in Clinician A being logged out, and Clinician B being logged in. Selecting Cancel leaves Clinician A logged in. In both outcomes, the unsaved vitals and/or patient data are left intact



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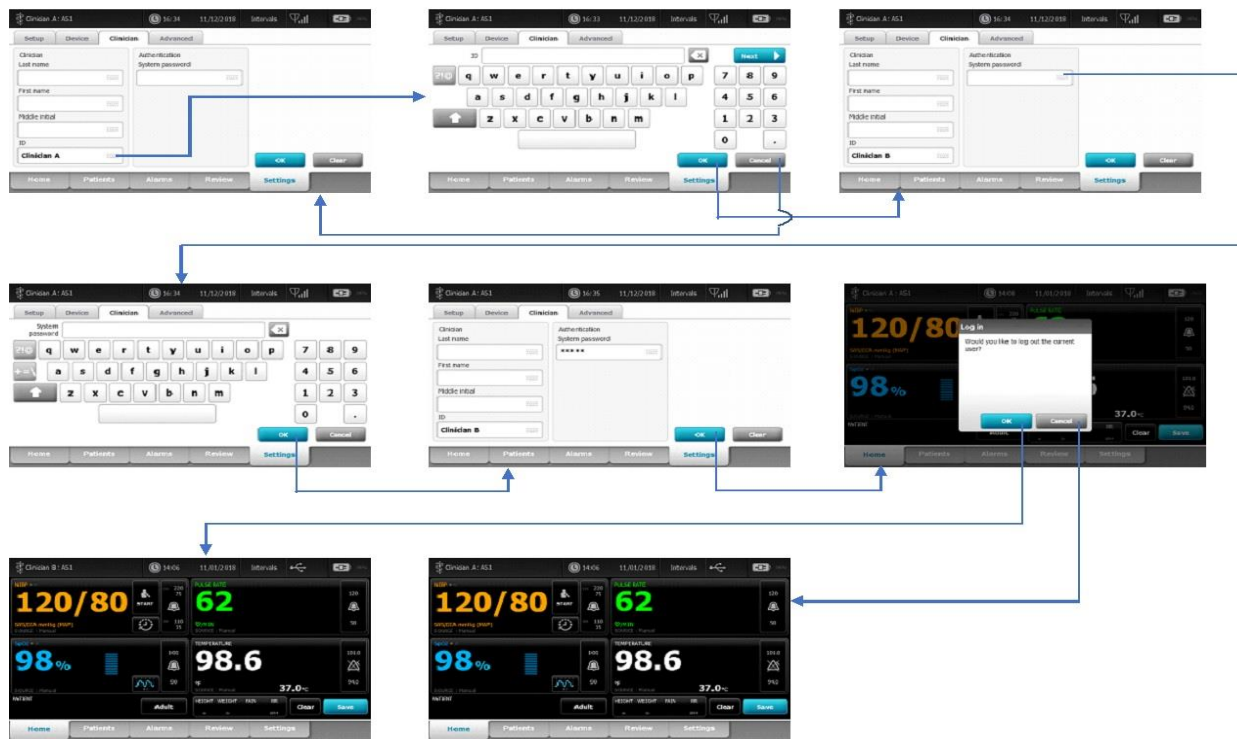
**4C.** Intervals are running, Clinician A logged in with vitals and/or patient data present, Clinician B scans their badge, but Clinician B is not a registered user on the Single Sign On server. A dialog box shows up indicating the Clinician attempting to login is not authorized, and that registration needs to be done on a workstation with an OK button. Pressing the OK button leaves Clinician A logged in with the vitals and/or patient data intact.




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**4D.** Intervals are running, Clinician A logged in with unsaved vitals and/or patient data, Clinician B navigates to the Clinician screen and uses the keyboard icons to get to the keyboard screens to manually enter their UserID and Password/PIN. Pressing the OK button on the Clinician screen will navigate to the home page and process the login. A dialog indicating that the currently logged in Clinician would be logged out is displayed with OK and Cancel. Selecting OK will log out Clinician A, and Clinician B would be logged in. Selecting Cancel leaves Clinician A logged in. Both outcomes leave the patient and/or vitals data intact.

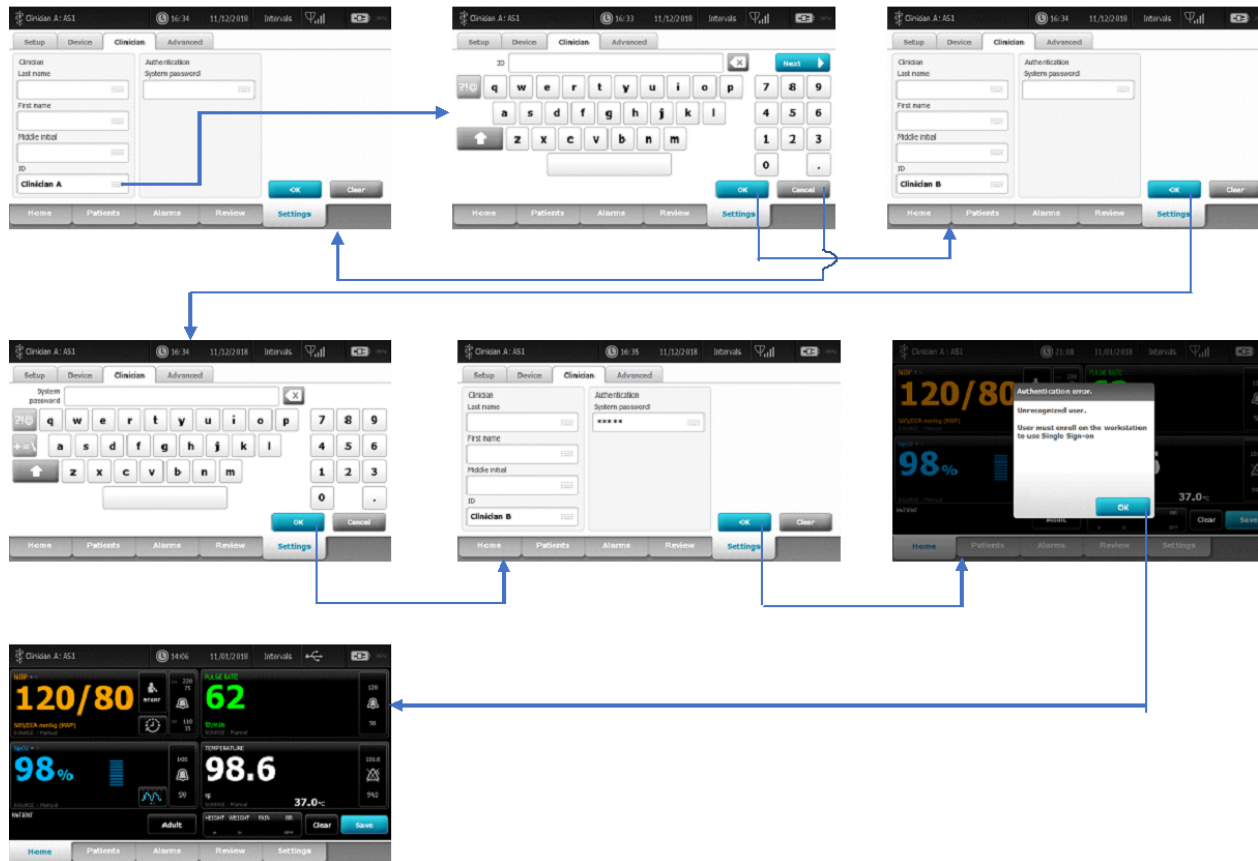
**NOTE:** It doesn't matter if Clinician B is within the grace period or not, when using manual entry, it is required to enter the password/PIN






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**4E.** Intervals running, Clinician A logged in with unsaved vitals and/or patient data, Clinician B navigates to the Clinician screen and uses the keyboard icons to get to the keyboard screens to manually enter their UserID and Password/PIN. Pressing the OK button on the Clinician screen will navigate to the home page and process the login. A dialog box shows up indicating the Clinician attempting to login is not authorized, and that registration needs to be done on a workstation with an OK button. Pressing the OK button leaves Clinician A logged in with the vitals and/or patient data intact.



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**4F.** Home screen, Intervals running, Clinician A is logged in and scans their own badge to log out. An info-message pops up at the top of the screen indicating that Clinician logout is not available while intervals are running. Hitting the OK button clears the info-message.



**4G.** Clinician screen, Intervals running, Clinician A is logged in and scans their own badge to log out. The device navigates to the Home screen where an info-message pops up at the top of the screen indicating that Clinician logout is not available while intervals are running. Hitting the OK button clears the info-message.




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**4H.** Clinician screen, Intervals running, Clinician A is logged in and attempts to log out manually by pressing the Clear button and then the OK button. The device navigates to the Home screen where an info-message pops up at the top of the screen indicating that Clinician logout is not available while intervals are running. Hitting the OK button clears the info-message.



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## Section Five:

### Continuous Mode – Single Sign On interactions with Continuous mode


**5A.** Home screen, using an episodic profile, with Clinician A logged in, and no vitals/patient data present. User connects a sensor that auto-elevates to Continuous mode. Clinician A is automatically logged out and transitions to Continuous mode also bringing up an info-message indicating the device is switching to Continuous mode. Pressing the OK button clears the info-message.



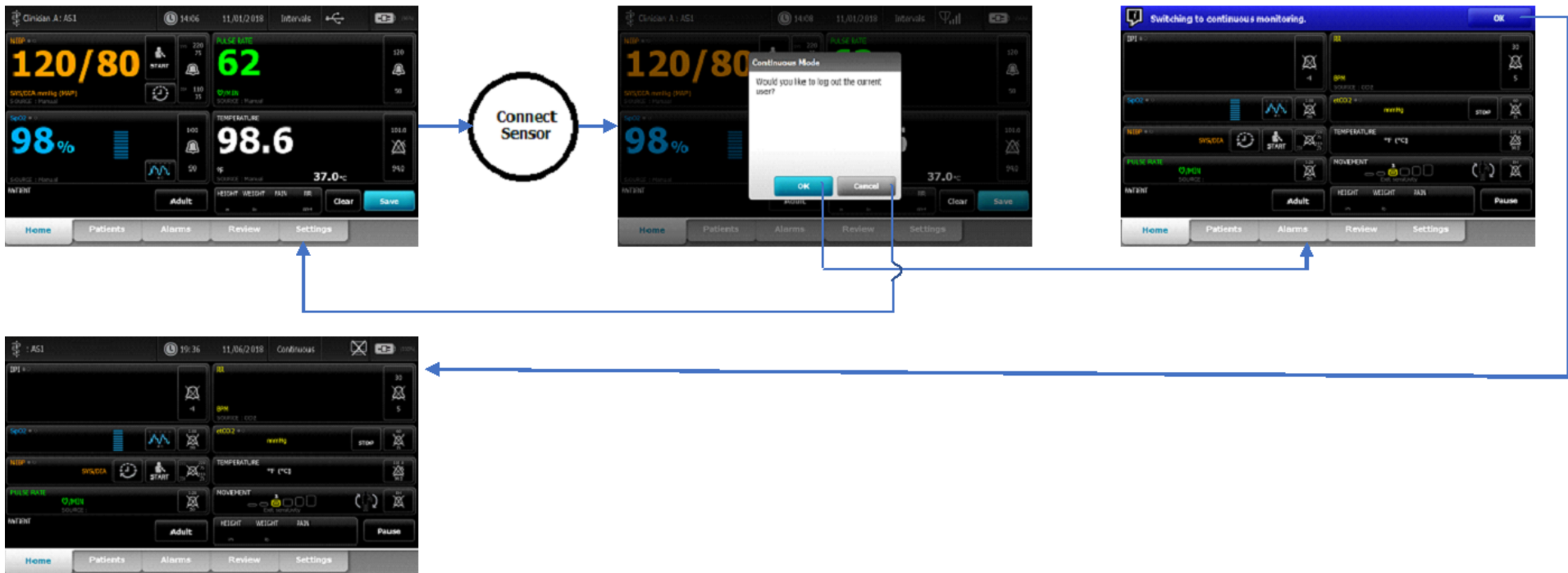
**5B.** Clinician A is logged in, and the device is in an episodic profile with no unsaved vitals/patient data present. User navigates to the Settings->Device tab screen and selects the option for Continuous profile. The device switches into Continuous mode with no additional messaging.




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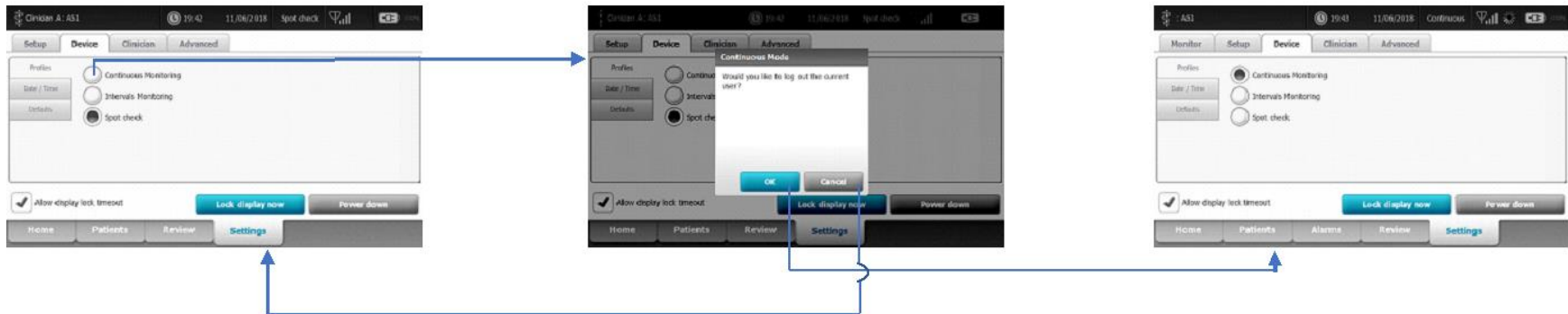
**5C.** Home screen, using an episodic profile, with Clinician A logged in, unsaved vitals and/or patient data are present. User connects a sensor that auto-elevates to Continuous mode. A dialog indicating that the currently logged in Clinician would be logged out is displayed with OK and Cancel. Selecting Cancel will leave the device in the episodic mode, and the vitals data intact. Selecting OK will log out Clinician A, clear the unsaved vitals, and transition to Continuous mode also bringing up an info-message indicating the device is switching to Continuous mode. Pressing the OK button clears the info-message.



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**5D.** Clinician A is logged in, and the device is in an episodic profile with unsaved vitals data present. User navigates to the Settings->Device tab screen and selects the option for Continuous profile. A dialog indicating that the currently logged in Clinician would be logged out is displayed with OK and Cancel. Selecting Cancel will leave the device in the episodic mode, and the vitals data intact. Selecting OK will log out Clinician A, clear the unsaved vitals, and transition to Continuous mode.



**5E.** Home screen, in Continuous mode, Clinician scans RFID badge to login to Single Sign On server. An info-message pops up indicating that Single Sign On is not available during continuous monitoring. Selecting the OK button will clear the info-message.




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**5F.** Clinician screen, in Continuous mode, Clinician scans RFID badge to login to Single Sign On server. The device navigates to the Home screen, and then an info-message pops up indicating that Single Sign On is not available during continuous monitoring. Selecting the OK button will clear the info-message.

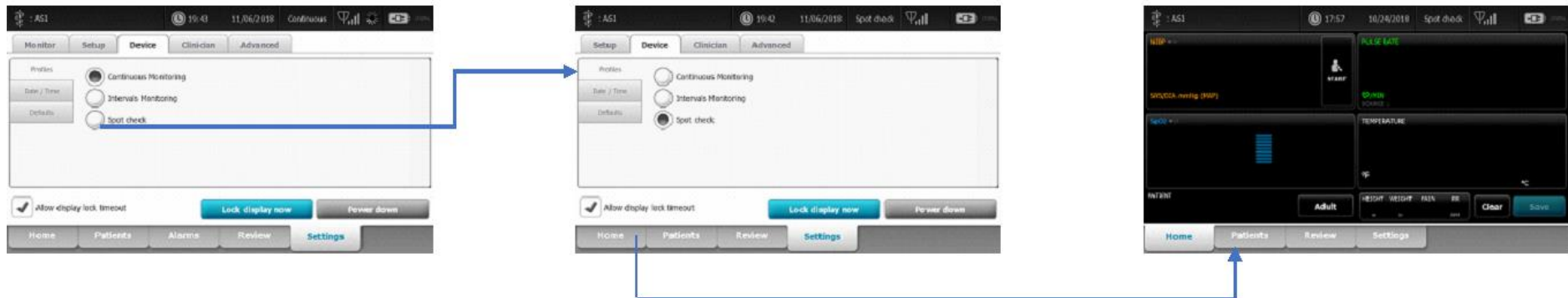


**5G.** Clinician screen, in continuous mode, Clinician attempts to manually login. They are unable to do so because all the Clinician text fields' editing capability, as well as the "Clear" button, have been disabled. Hitting OK takes the user back to the Home screen.



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**5H.** In continuous mode, user navigates to Settings->Device tab and selects an episodic profile, and then navigates to the home screen. The device will be capable of taking vitals, but the user will be unable to save data until a Clinician logs in.



## Section Six:

### Lock Screen – Single Sign On authentication and interaction with Lock Screen

**6A.** Episodic profile, no clinician logged in, device goes into Lock Screen mode. Tapping the screen will bring up a login dialog box with fields for Clinician ID and System Password. The clinician uses the keyboard icons to get to the keyboard screens to manually enter their UserID and Password/PIN. After these are entered, and the OK button is selected, the clinician is authenticated through the Single Sign On server and upon success they are logged in and the screen is no longer locked.

- Not Shown: if the “Cancel” button is pressed in the “Log In” dialog box, it returns to the locked screen.
- Not Shown: if the “Cancel” button is pressed in the keyboard, it simply closes the keyboard and returns to the dialog that initiated it.

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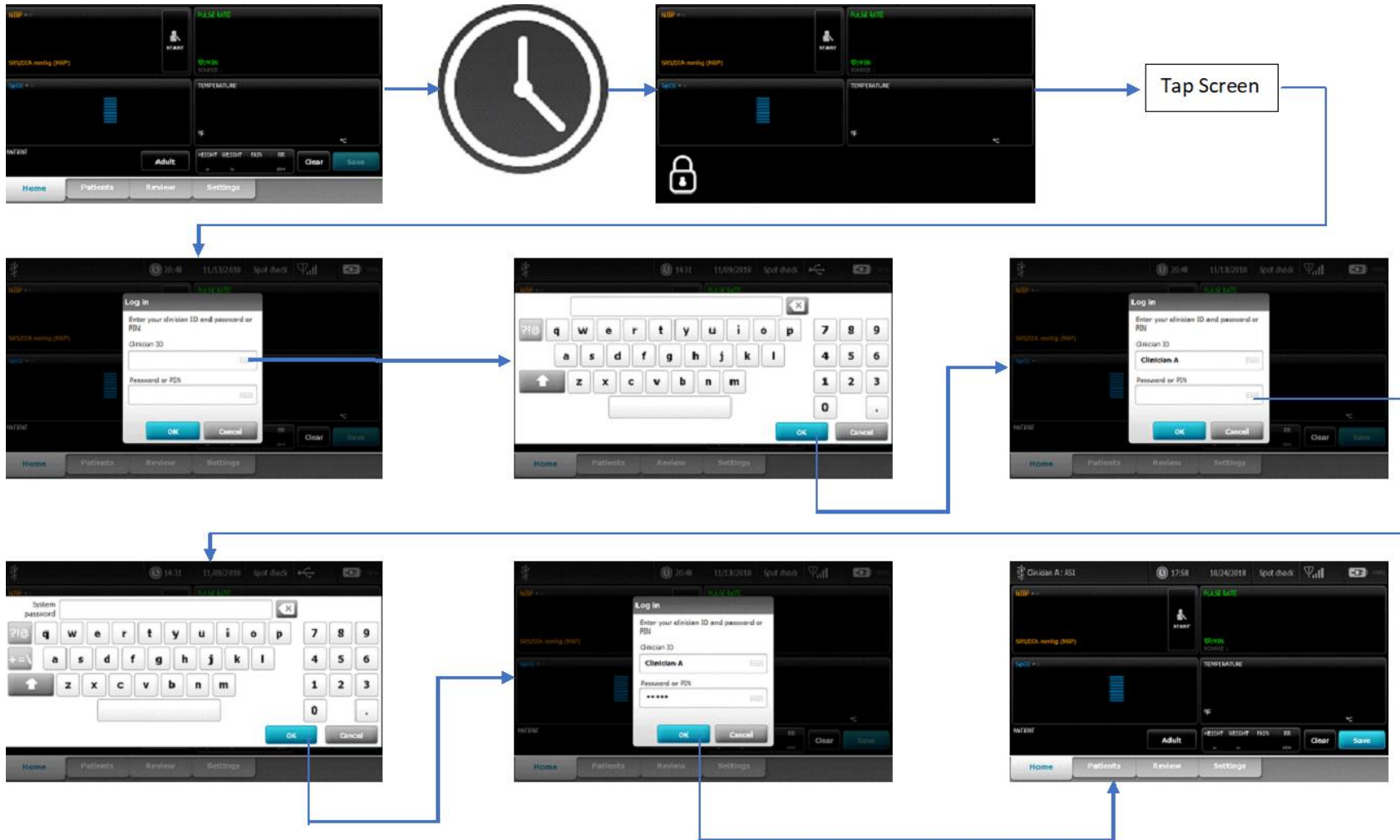
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**Document Number:** 80026956


**Version:** A



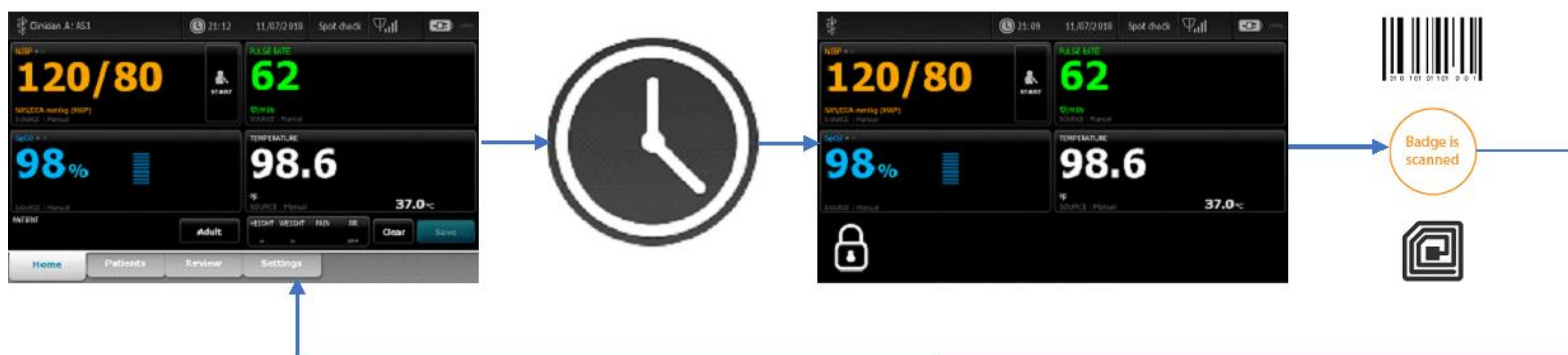
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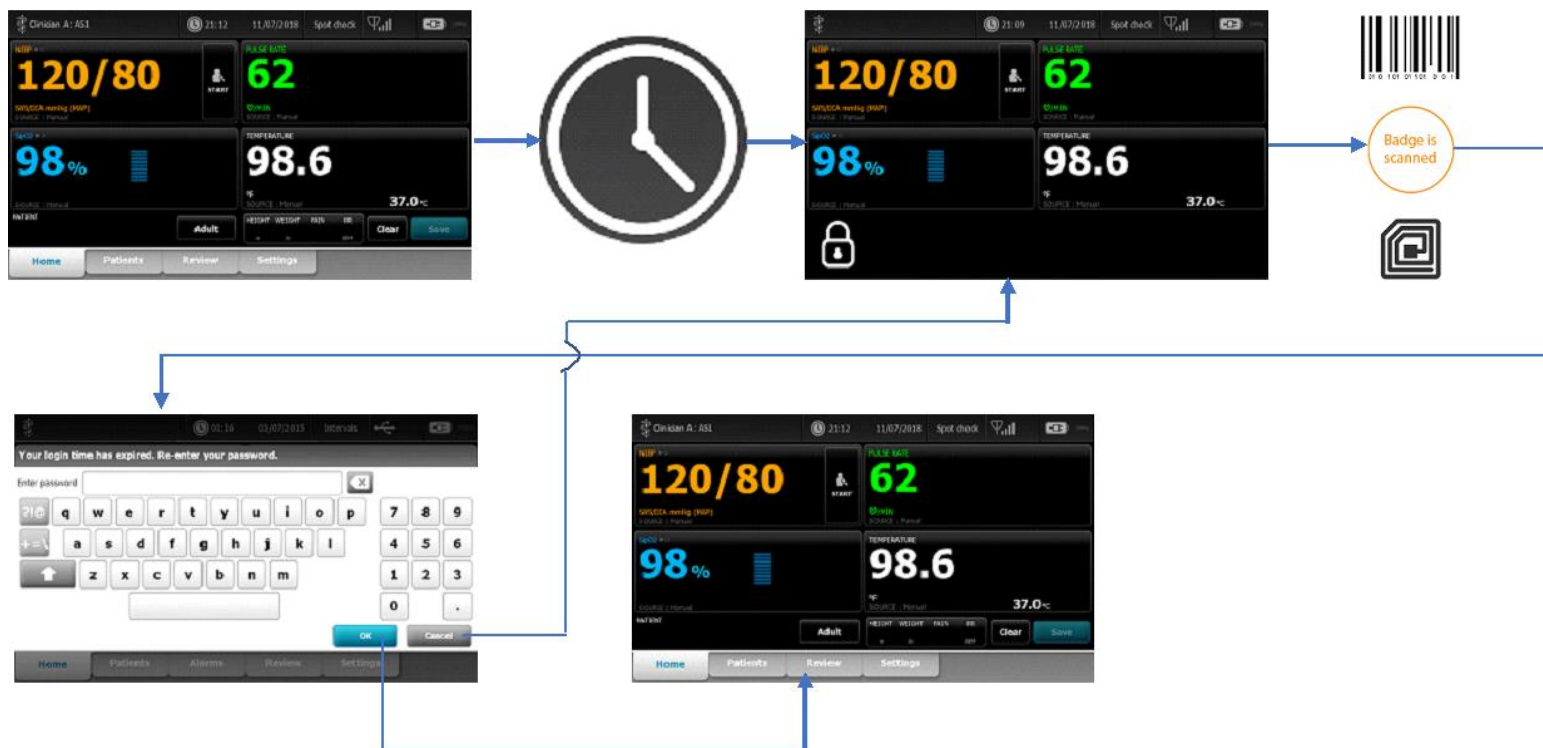
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**6B.** Episodic profile, Clinician A logged in with or without unsaved vitals data, device goes into lock screen. Clinician A scans badge within the Single Sign On grace period resulting in the device exiting lock screen with Clinician A still logged in and the vitals data remaining if it existed.



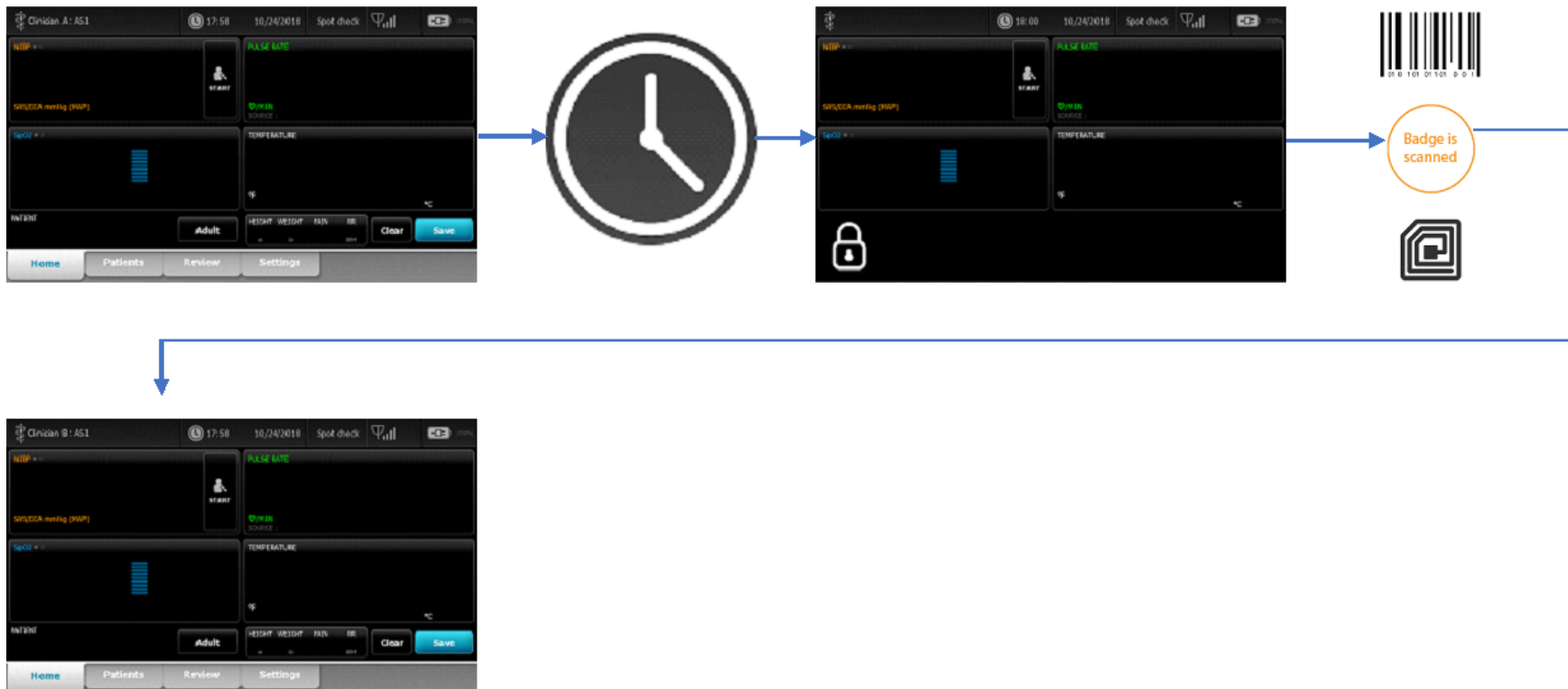
<b>Document Description:</b> Supported Workflows including Single Sign-On for CVSM	<b>Document Number:</b> 80026956 <b>Version:</b> A
	
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**6C.** Episodic profile, Clinician A logged in with or without unsaved vitals data, device goes into lock screen. Clinician A scans badge outside of the Single Sign On grace period. A keyboard will pop-up with a message indicating that the login time has expired, and the Clinician password or PIN needs to be entered. Entering the correct Password or Pin will result in the device exiting lock screen with Clinician A still logged in and the vitals data remaining if it existed.




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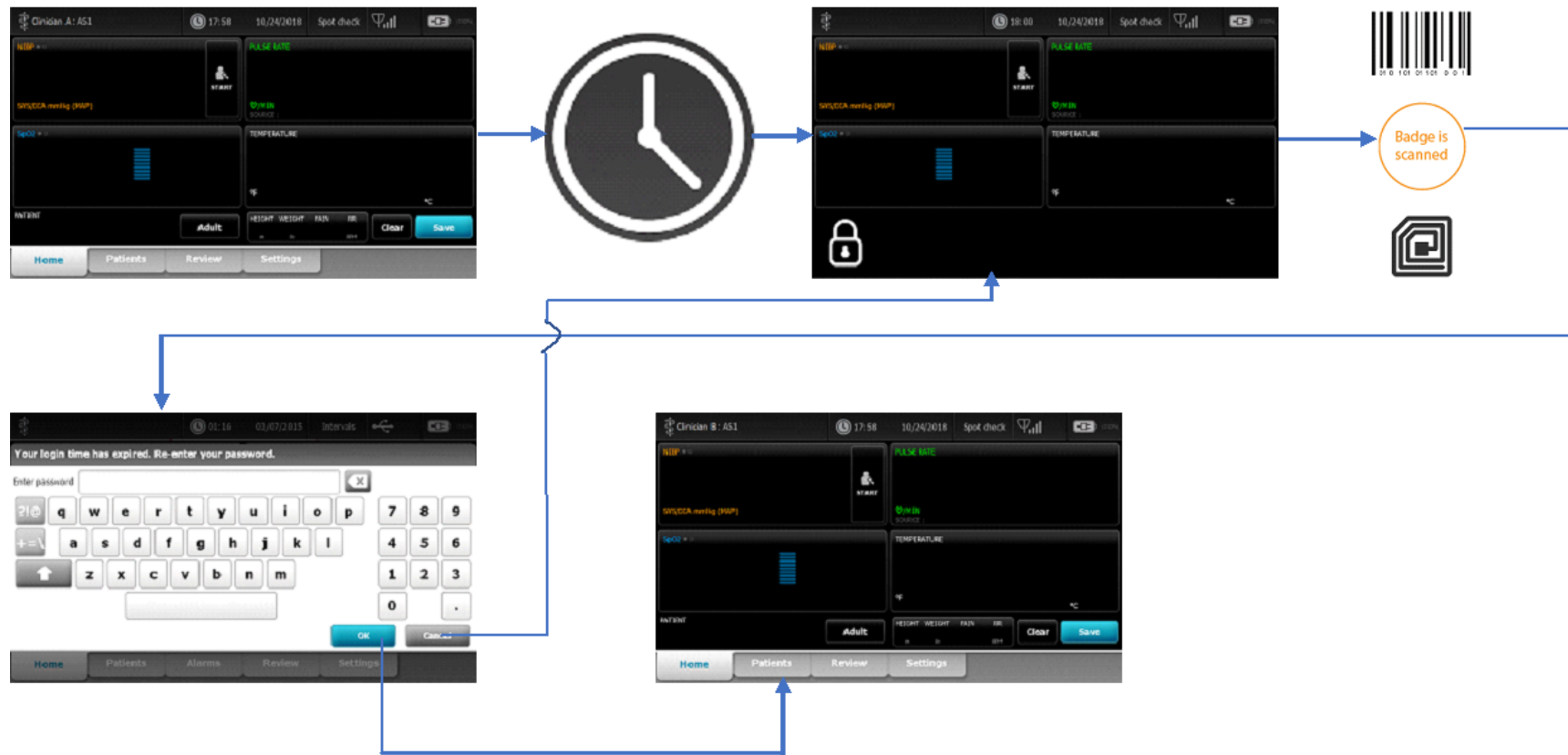
**6D.** Episodic mode, Clinician A logged in without unsaved vitals data, device goes into lock screen. Clinician B scans badge within the Single Sign On login grace period. The device immediately exits lock screen, logs out Clinician A and logs in Clinician B.




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**6E.** Episodic mode, Clinician A logged in without unsaved vitals data, device goes into lock screen. Clinician B scans badge but is outside the Single Sign On login grace period. A keyboard will pop-up with a message indicating that the login time has expired, and the Clinician password or PIN needs to be entered. Entering the correct Password/PIN, the device immediately exits lock screen, logs out Clinician A and logs in Clinician B. Pressing Cancel on the pop-up keyboard will leave the device in lock screen with Clinician A still logged in.




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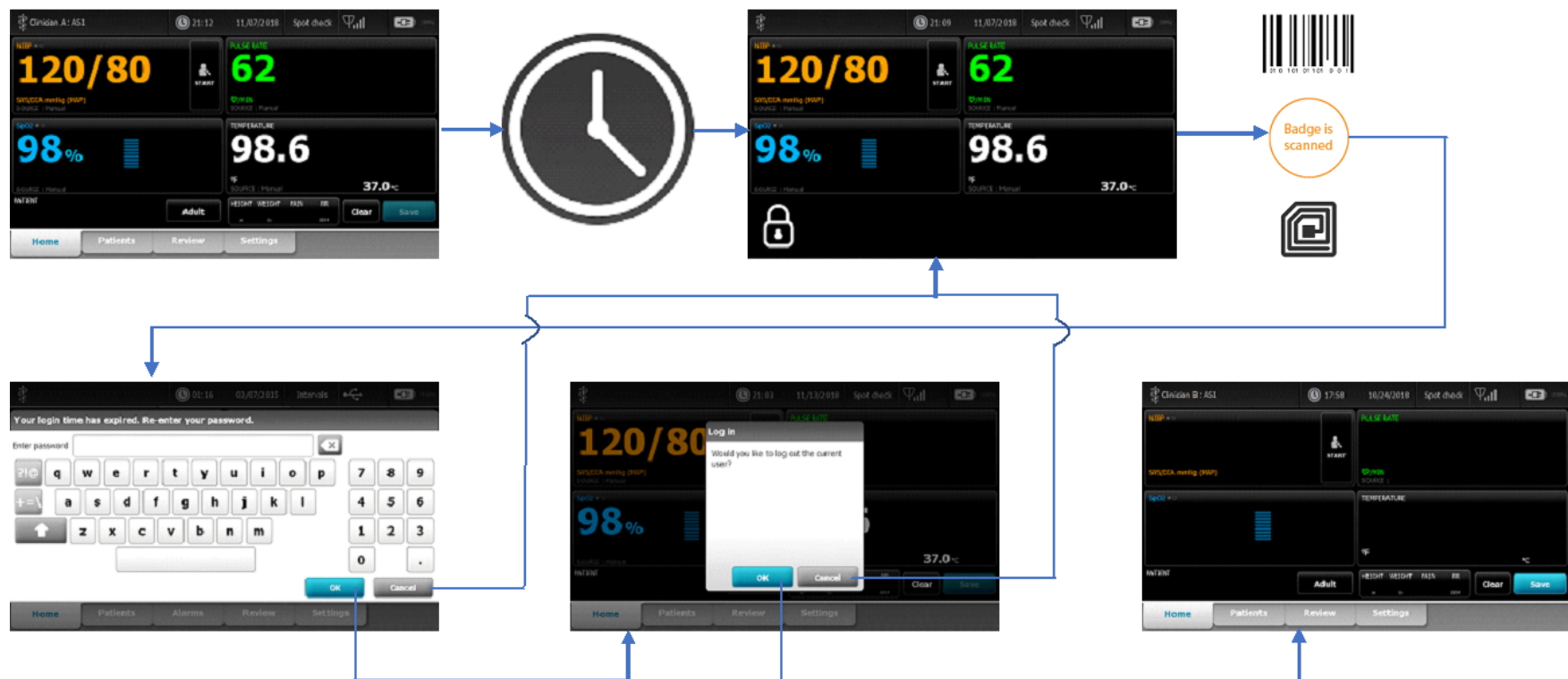
<b>Document Description:</b> Supported Workflows including Single Sign-On for CVSM	<b>Document Number:</b> 80026956 <b>Version:</b> A
	
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**6F.** Episodic mode, Clinician A logged in and has unsaved vitals data, device goes into lock screen. Clinician B scans badge within the Single Sign On login grace period. The device will bring up a dialog indicating that the current user will be logged out, with the options of OK or Cancel. Selecting OK will immediately exit lock screen, logs out Clinician A, logs in Clinician B, and clears all vitals data. Selecting Cancel will leave the device in lock screen with Clinician A still logged in, and vitals still intact.



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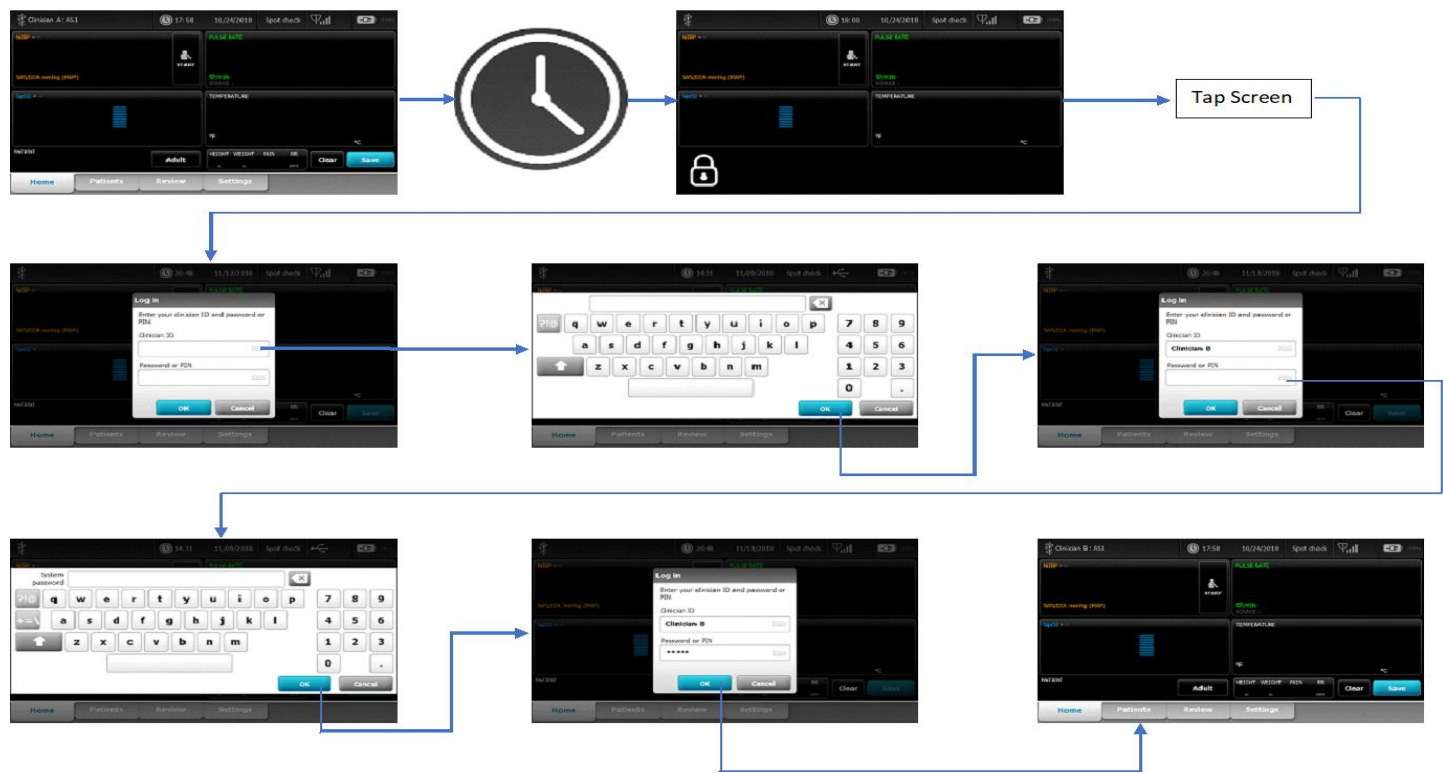
**6G.** Episodic mode, Clinician A logged in and has unsaved vitals data, device goes into lock screen. Clinician B scans badge outside the Single Sign On login grace period. A keyboard will pop-up with a message indicating that the login time has expired, and the Clinician password or PIN needs to be entered. Entering the correct Password/PIN will bring up a dialog indicating that the current user will be logged out, with the options of OK or Cancel. Selecting OK will immediately exit lock screen, logs out Clinician A, logs in Clinician B, and clears all vitals data. Selecting Cancel will leave the device in lock screen with Clinician A still logged in, and vitals still intact.




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**6H.** Episodic profile, Clinician A logged in with no vitals, device goes into Lock Screen mode. Tapping the screen will bring up a login dialog box with fields for Clinician ID and System Password. Clinician B uses the keyboard icons to get to the keyboard screens to manually enter their ID and Password/PIN. After these are entered, and the OK button is selected, Clinician B is authenticated through the Single Sign On server and upon success they are logged in, Clinician A has been logged out, and the screen is no longer locked.

- Not Shown: if the “Cancel” button is pressed in the “Log In” dialog box, it returns to the locked screen.
- Not Shown: if the “Cancel” button is pressed in the keyboard, it simply closes the keyboard and returns to the dialog that initiated it.

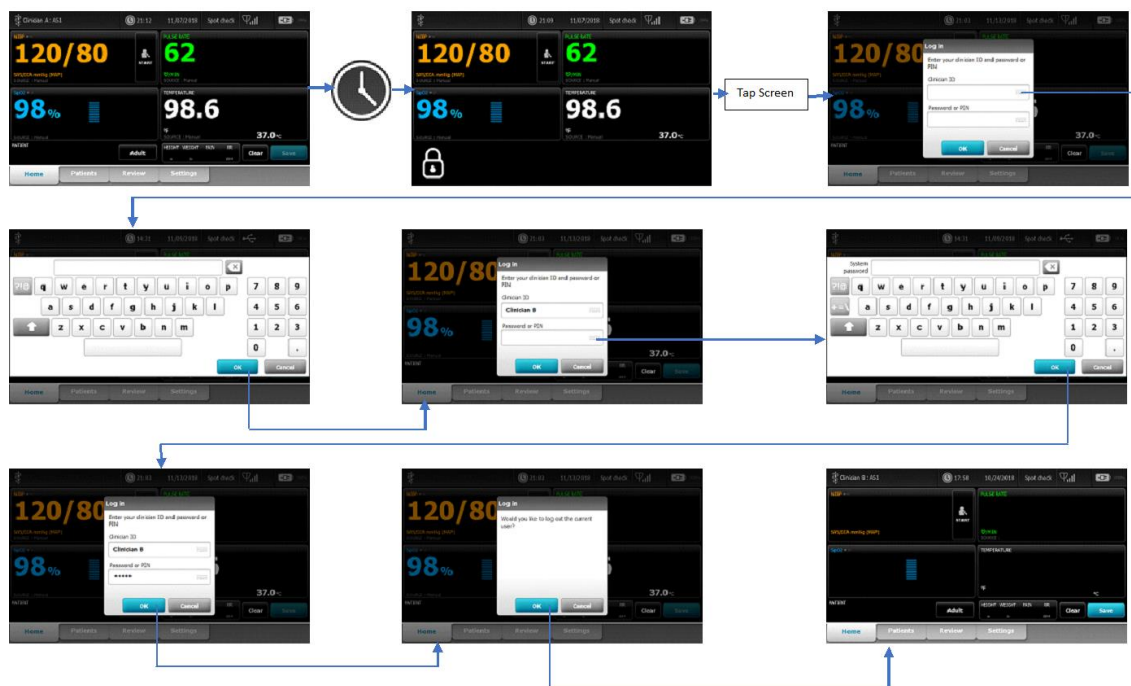





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**6I.** Episodic profile, Clinician A logged in with vitals data present, device goes into Lock Screen mode. Tapping the screen will bring up a login dialog box with fields for Clinician ID and System Password. Clinician B uses the keyboard icons to get to the keyboard screens to manually enter their ID and Password/PIN. After these are entered, and the OK button is selected, this will bring up a dialog indicating that the current user will be logged out, with the options of OK or Cancel. Selecting OK will immediately exit lock screen, logs out Clinician A, logs in Clinician B, and clears all vitals data. Selecting Cancel will leave the device in lock screen with Clinician A still logged in, and vitals still intact.

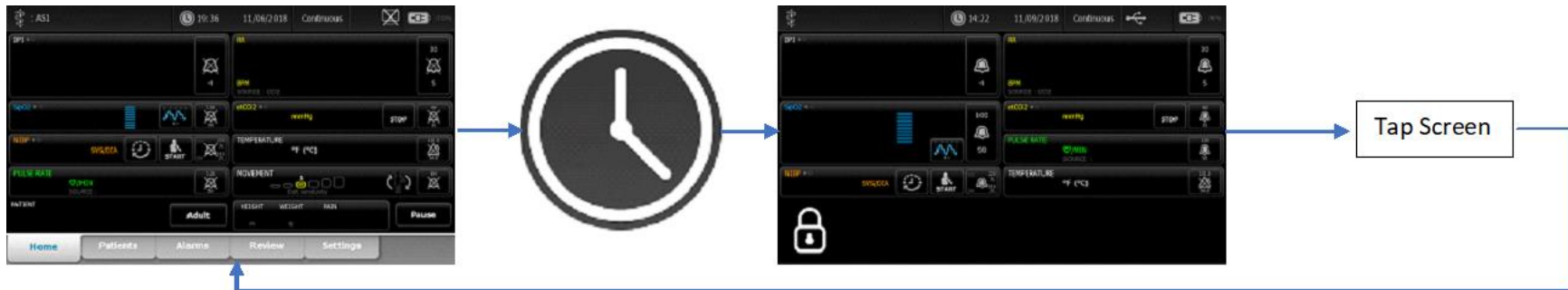
- Not Shown: if the “Cancel” button is pressed in the “Log In” dialog box, it returns to the locked screen.
- Not Shown: if the “Cancel” button is pressed in the keyboard, it simply closes the keyboard and returns to the dialog that initiated it.




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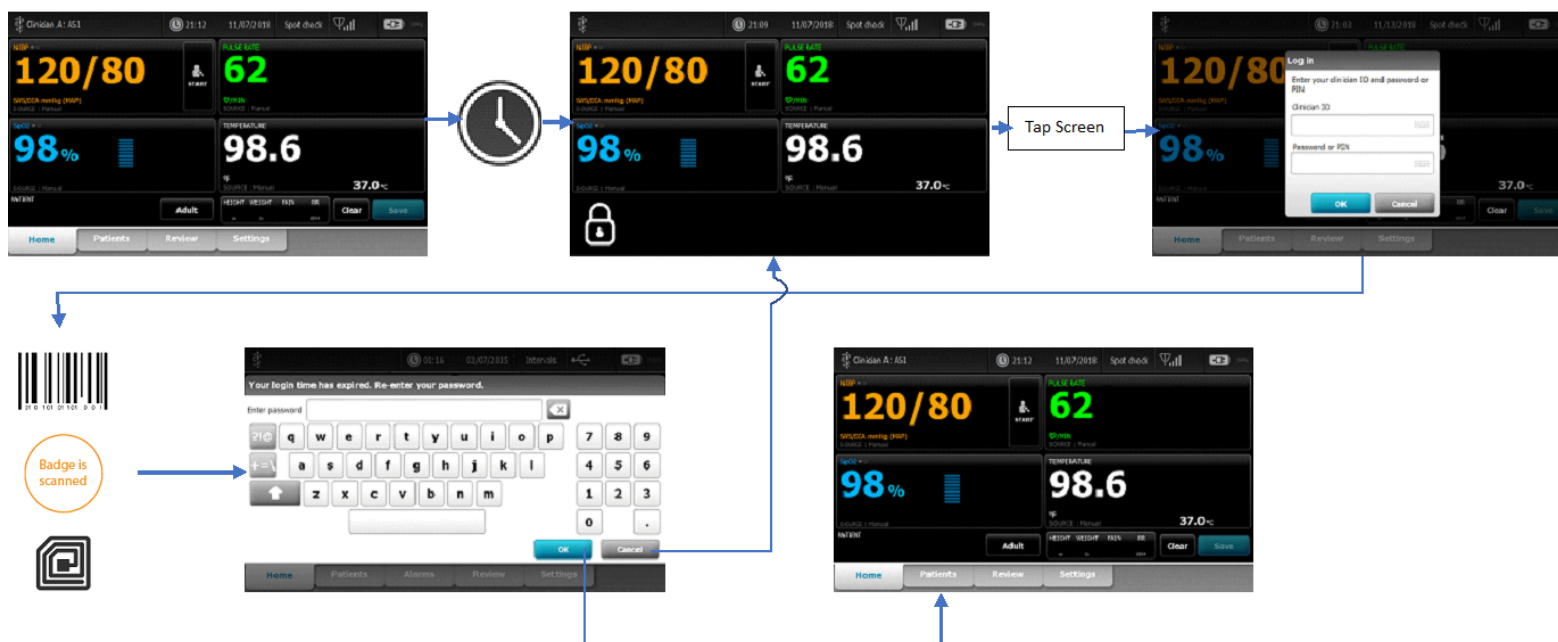
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**6J.** Continuous mode, no clinician can be logged in when SSO is enabled, with or without patient data and/or vitals. Tapping the screen exits lock screen.



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**6K.** Episodic profile, Clinician taps screen which brings up the manual login, but then instead scans their badge. In this situation, the manual entry is overridden by the badge scan, the dialog closes, and the RFID scan is used to attempt a login. This specific example shows a badge scan by the clinician who's already logged in, and they are outside the grace period, so it requires a password/PIN entry. However, any time a clinician badge is scanned with the manual login dialog open, the device will close the manual login dialog and follow the same workflow as though the badge was scanned on the lock-screen itself.



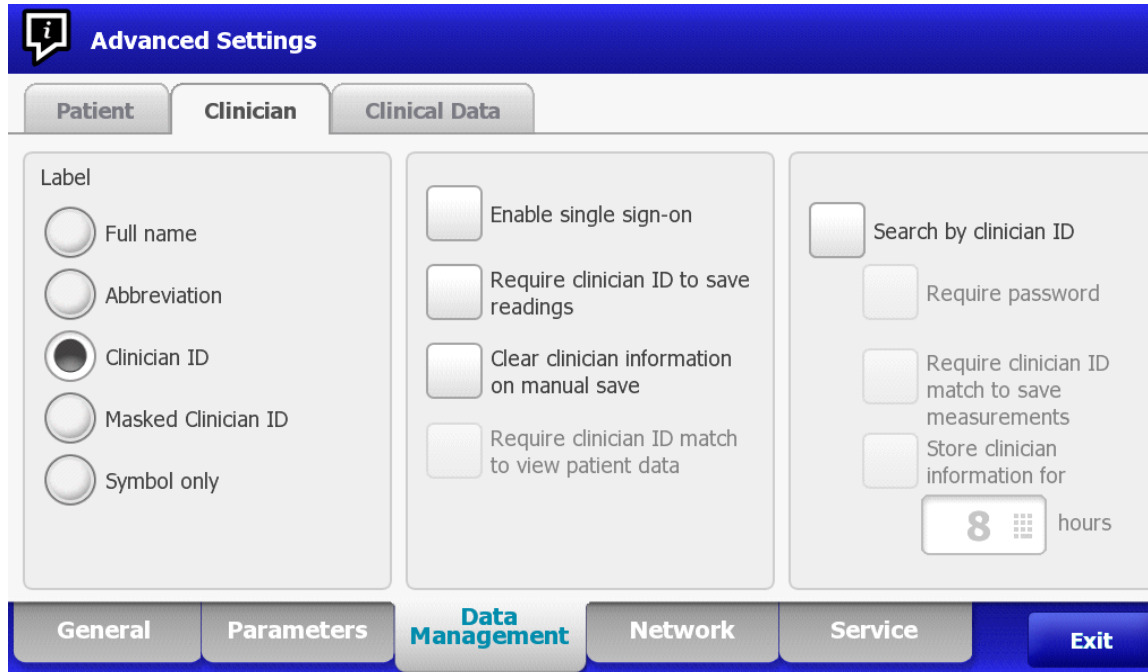
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## Single Sign On Workflows for CVSM Version 2.43.00

### Section 1:

Configuration workflows and relationships:

**Require clinician ID match to view patient data** – checking this box will prevent the view of the Patients->List, Review, and Settings->Device->Profiles tabs



**Advanced Settings**

**Patient**   **Clinician**   **Clinical Data**

Label


- Full name
- Abbreviation
- Clinician ID
- Masked Clinician ID
- Symbol only

- Enable single sign-on
- Require clinician ID to save readings
- Clear clinician information on manual save
- Require clinician ID match to view patient data

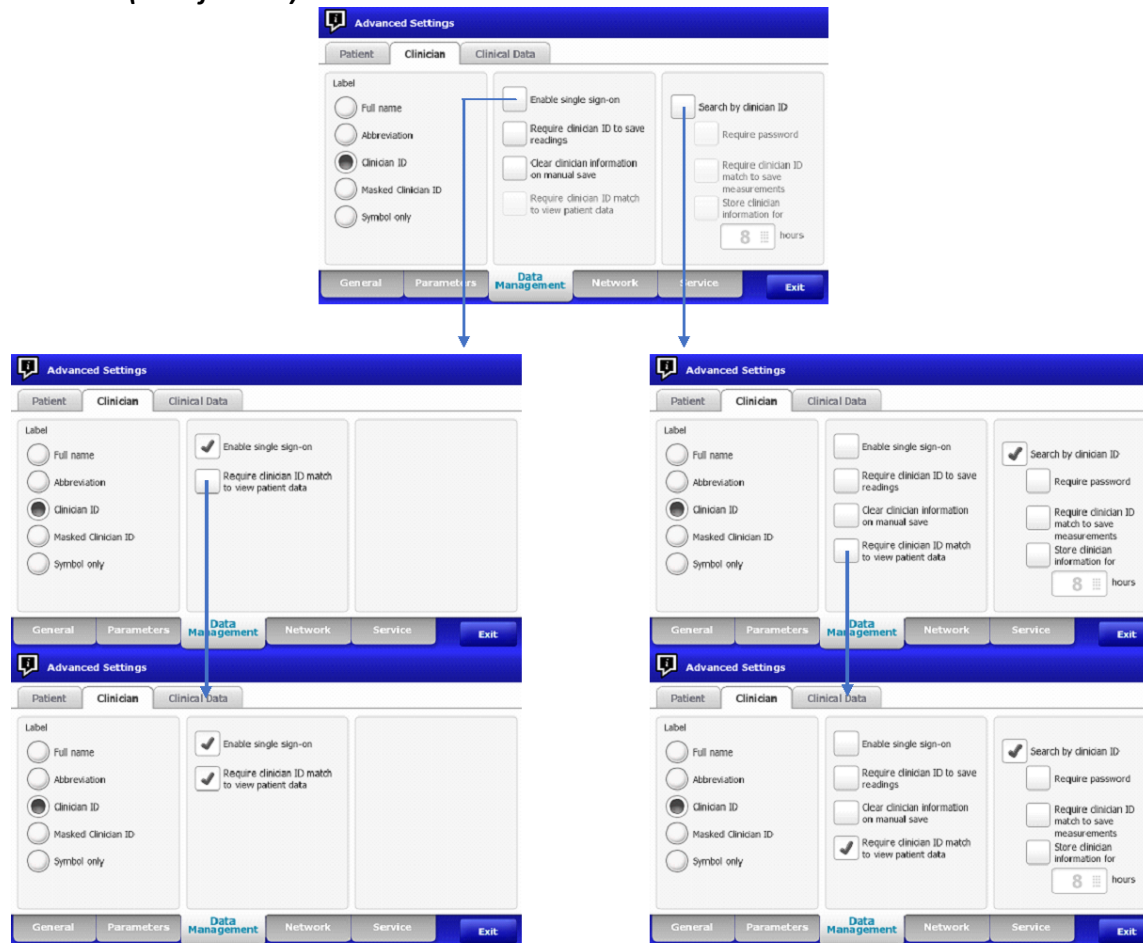
- Search by clinician ID
- Require password
- Require clinician ID match to save measurements
- Store clinician information for  hours

**General**   **Parameters**   **Data Management**   **Network**   **Service**   **Exit**


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**1A/1B. Require clinician ID match to view patient data** will be grayed out (i.e. disabled and non-configurable) unless **Enable single sign-on (workflow 1A, or Search by clinician ID (workflow 1b))** is checked



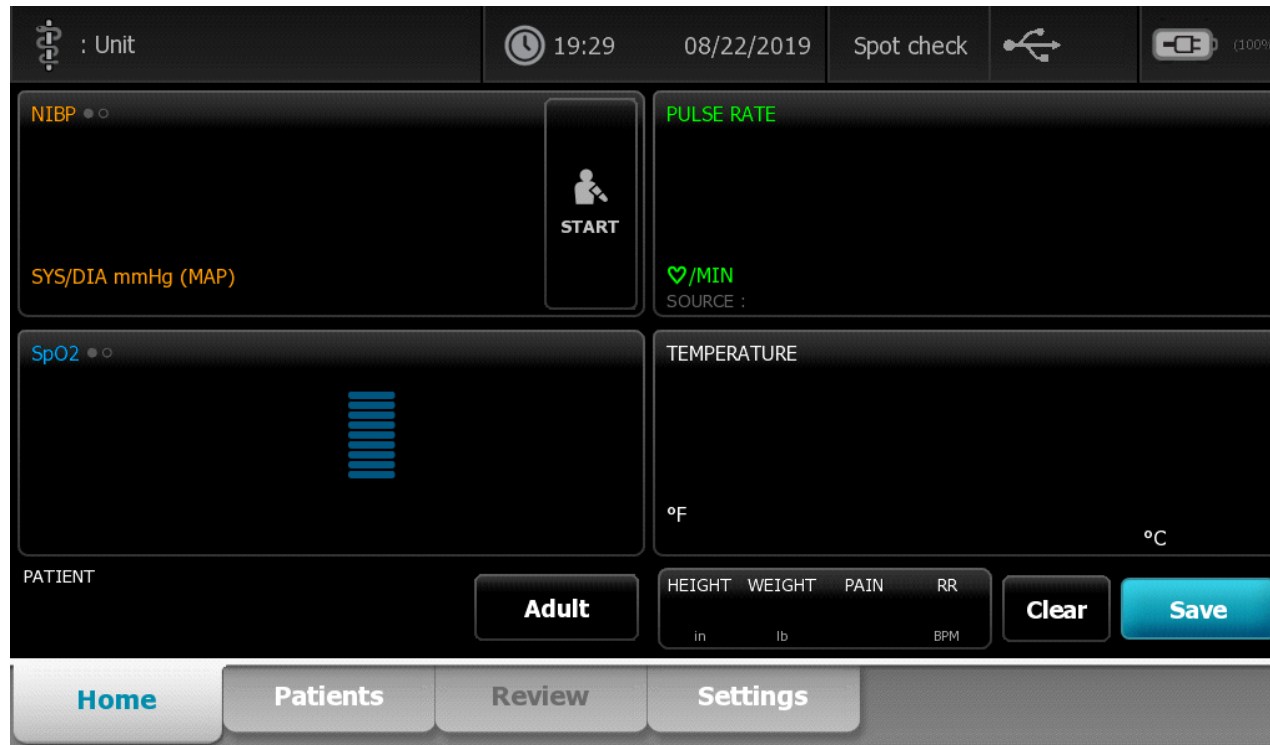
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## Section 2:

Require clinician ID match to view patient data enabled

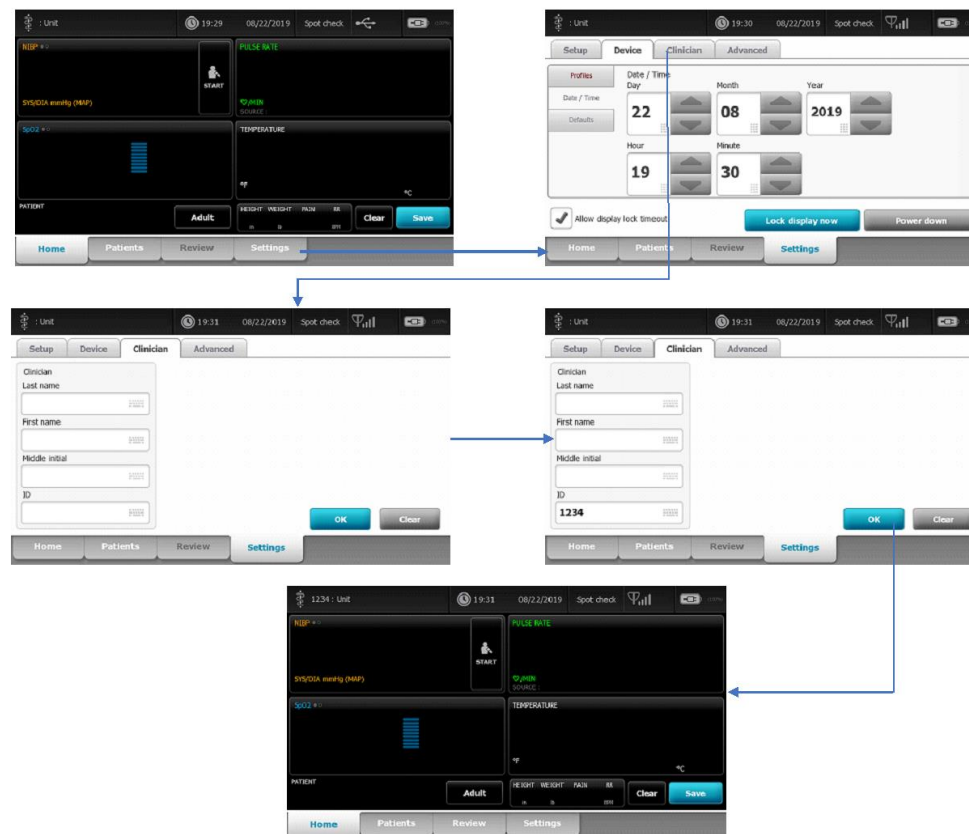
With **Require clinician ID match to view patient data** enabled, the Patients->List, Review, and Settings->Device->Profiles tabs will be unavailable without an authenticated clinician.




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**2A.** With *Require clinician ID match to view patient data* enabled, accessing the Patients->List, Review, and Settings->Device->Profiles tabs will require entry of an authenticated clinician – **This example does not show a password being required for authentication. Whether a password is needed is determined by the *Require password* configuration in Advanced Settings->Data Management->Clinician tab.**

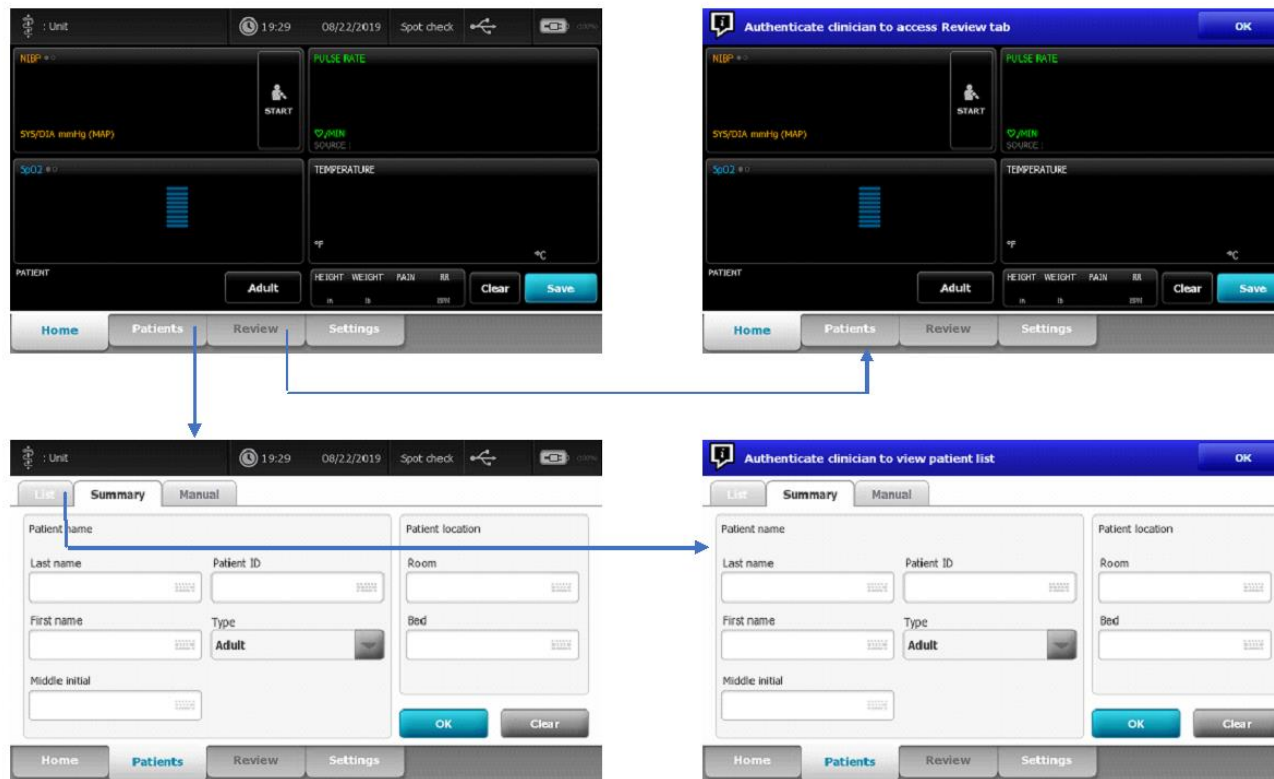


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**2B/2C.** With *Require clinician ID match to view patient data* configuration enabled, on the home screen the device will prevent access to the Review tab (workflow 2b) and Patient->List tab (workflow 2c) without an authenticated clinician. An info message is given indicating an authenticated clinician is needed if a user tries to access these tabs.

- Note: Saving without a patient selected will act per existing *Enable local patient creation, Require patient ID to save readings, Require clinician ID to save readings, and Require clinician ID match to save measurements* configurations in Advanced Settings



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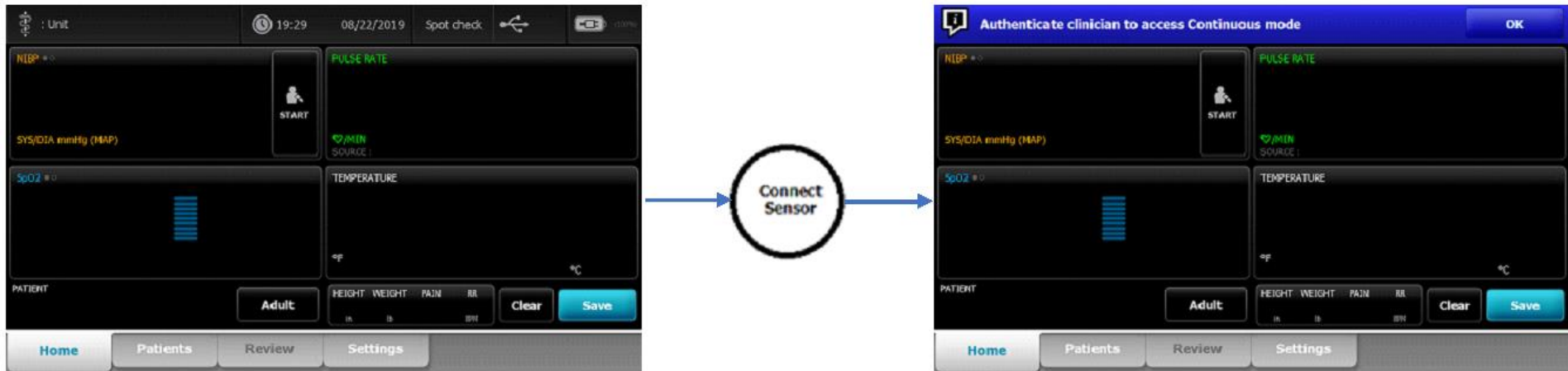
**2D.** With **Required clinician ID match to view patient data** enabled, attempting to access the Settings->Device->Profiles tab will also result in an info message indicating that an authenticated clinician is needed to access the Profile tab. The purpose of this is to prevent changing of profiles while in this mode.




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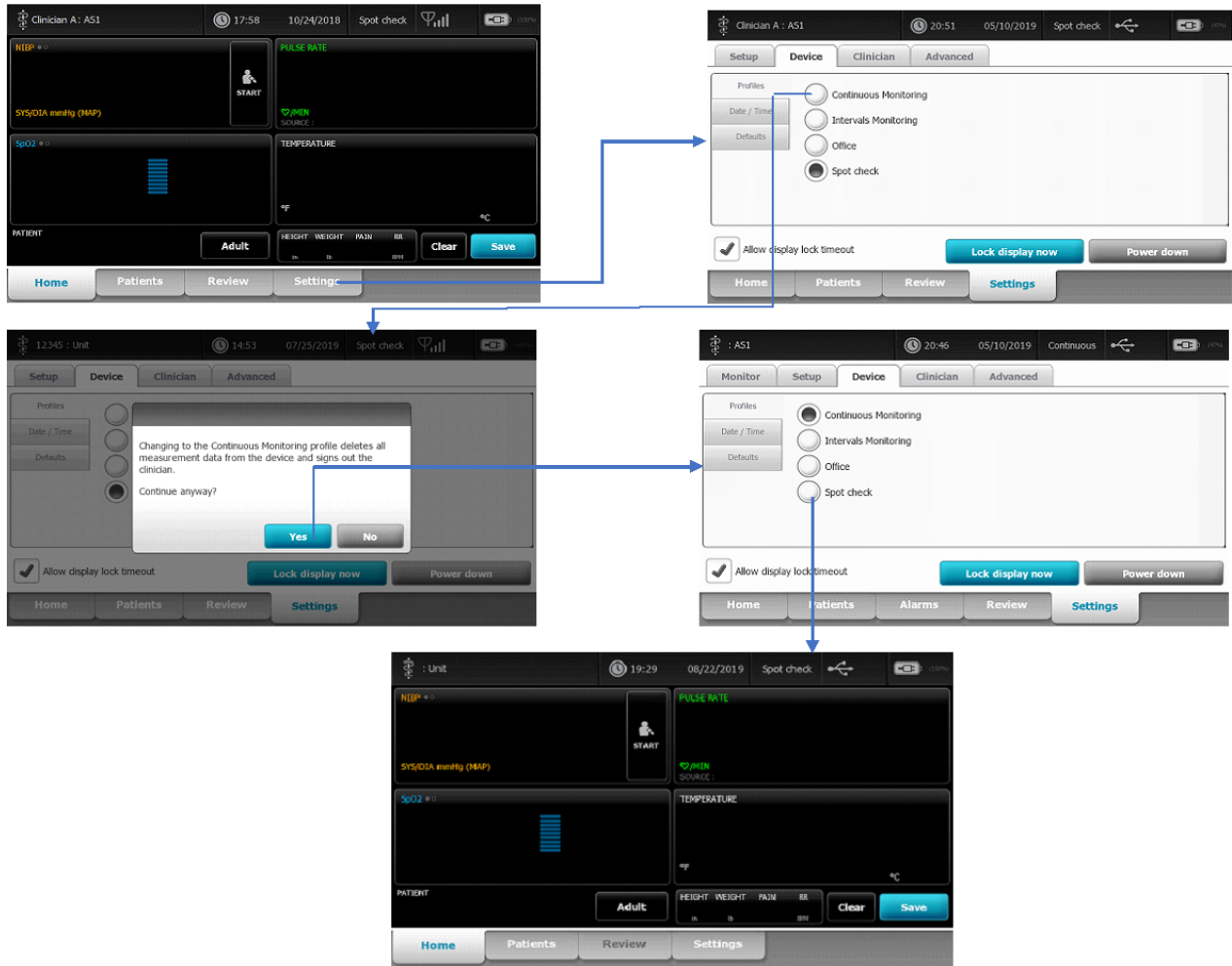
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**2E.** With *Required clinician ID match to view patient data* enabled, the Auto Elevate feature where connecting of a sensor that requires Continuous mode (like ECG, CO2, Early sense) is not available. Should a user connect a device that would attempt the Auto Elevate to Continuous, an info message will be shown instead indicating that an authenticated clinician is necessary to change to Continuous mode




**2F.** With *Required clinician ID match to view patient data* enabled, if an authenticated clinician is logged in, and the device is switched to Continuous mode, this in turn will log out the clinician on the device and clear the patient/vitals data. Should the user then go into an episodic profile, the device will automatically navigate to the home screen with the Patients, Review, and Settings->Device->Profiles unavailable. A clinician will need to be authenticated again to view these tabs.

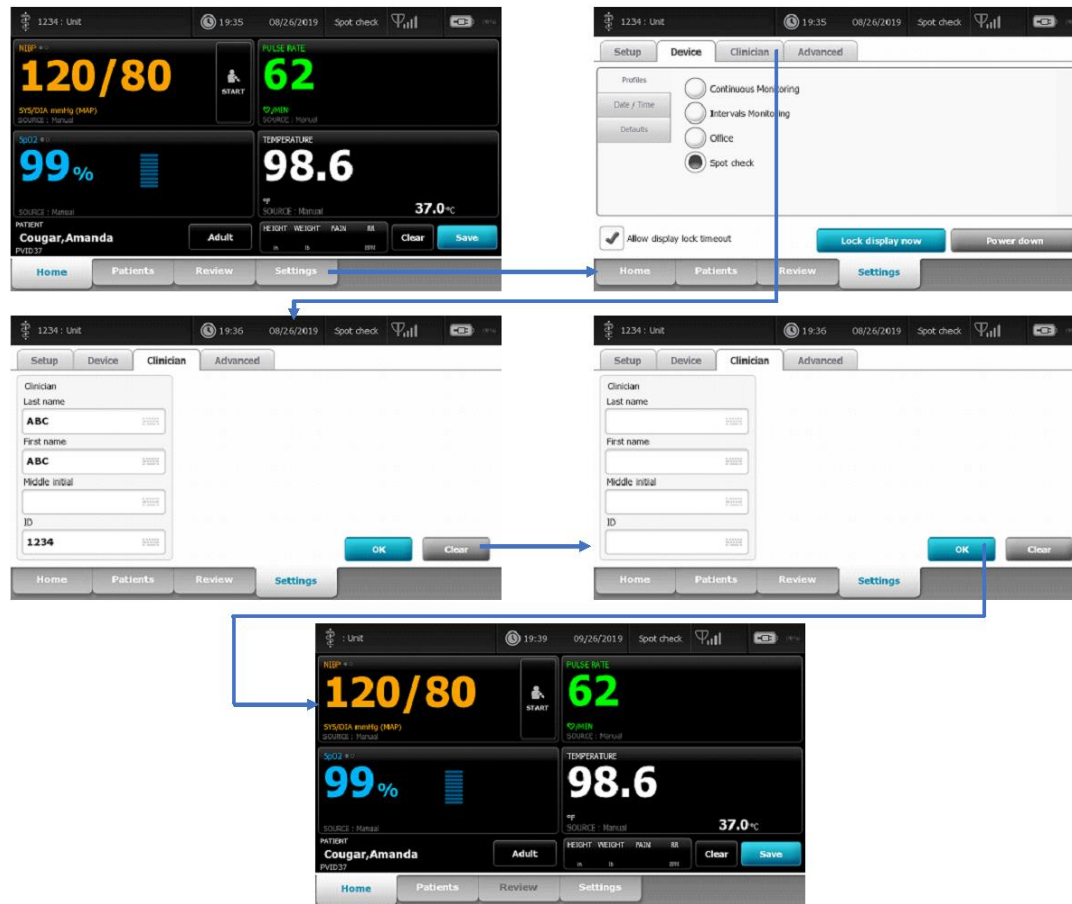
<b>Document Description:</b> Supported Workflows including Single Sign-On for CVSM	<b>Document Number:</b> 80026956 <b>Version:</b> A
	
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**2G.** With *Required clinician ID match to view patient data* enabled, logging out a clinician will result in all current patient and vitals data being treated per existing behavior both in and out of Single Sign On mode. Below is displaying the behavior when not using Single Sign On, which results in the existing patient data remaining on the device after clearing clinician



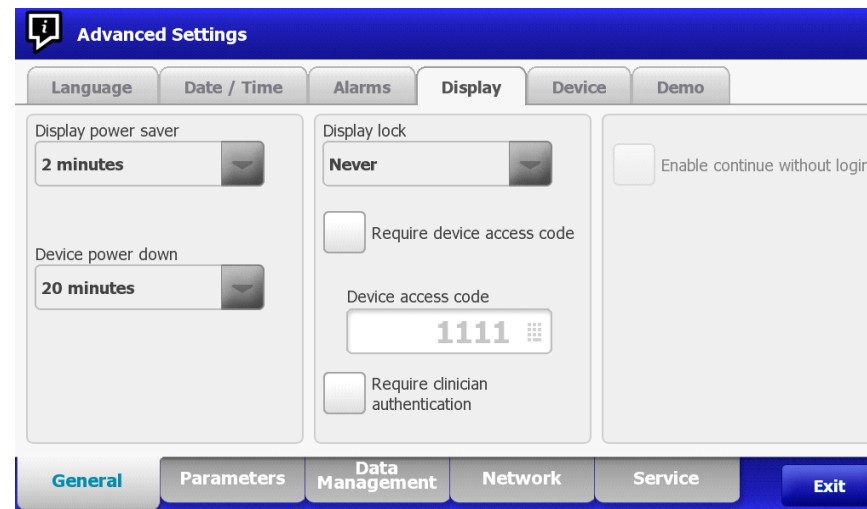
<b>Document Description:</b> Supported Workflows including Single Sign-On for CVSM	<b>Document Number:</b> 80026956 <b>Version:</b> A
	
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### Section 3:


#### Configuration of Lock Screen: Enable continue without login

Lock Screen **Enable continue without login** works together with **Require clinician ID match to view patient data** and allows entry through Lock Screen without logging into the device. The device then operates per the non-authenticated clinician mode associated with **Require clinician ID match to view patient data** setting

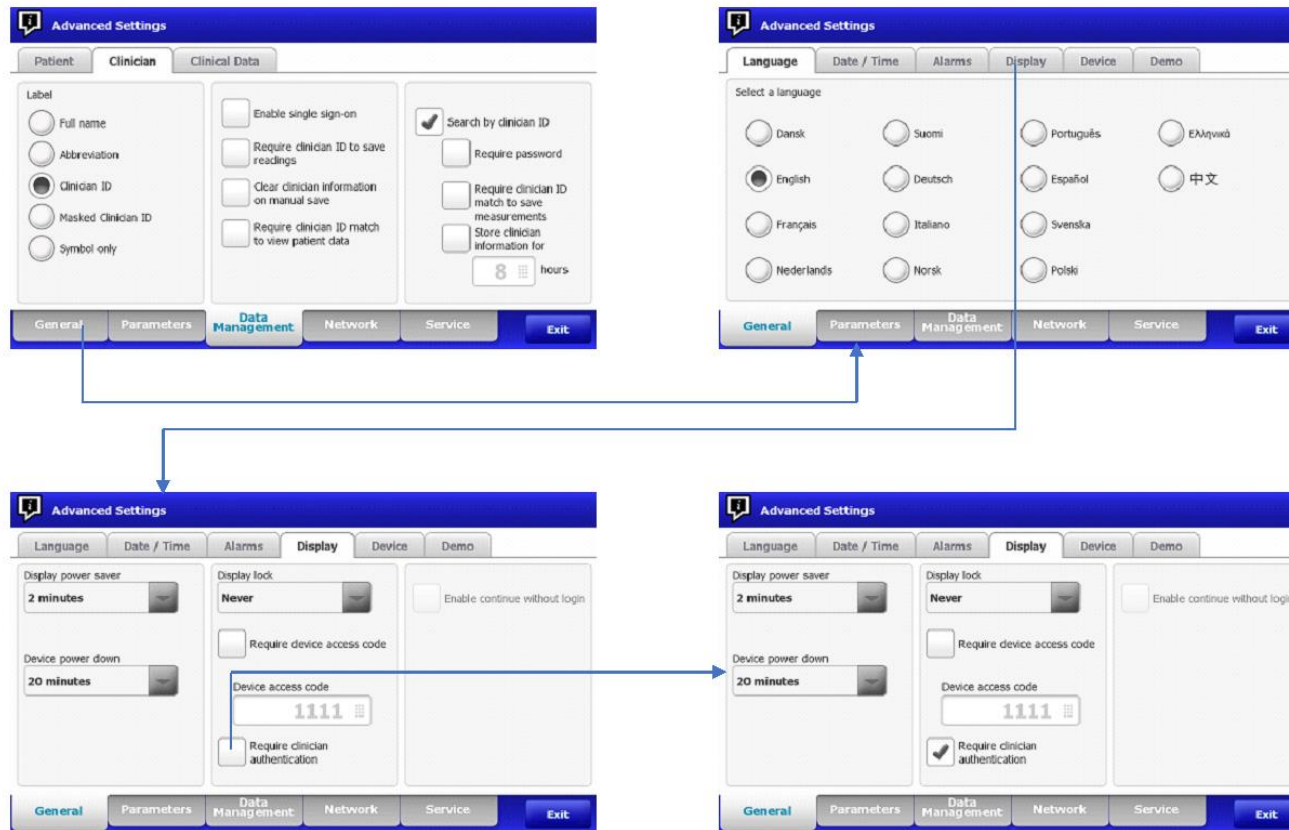
- **Enable continue without login** will be grayed out (i.e. disabled and non-configurable) unless **Require clinician ID match to view patient data** is enabled (checked)  
**AND**
- If SSO is disabled, needs **Require clinician authentication** to be enabled (checked) as well.




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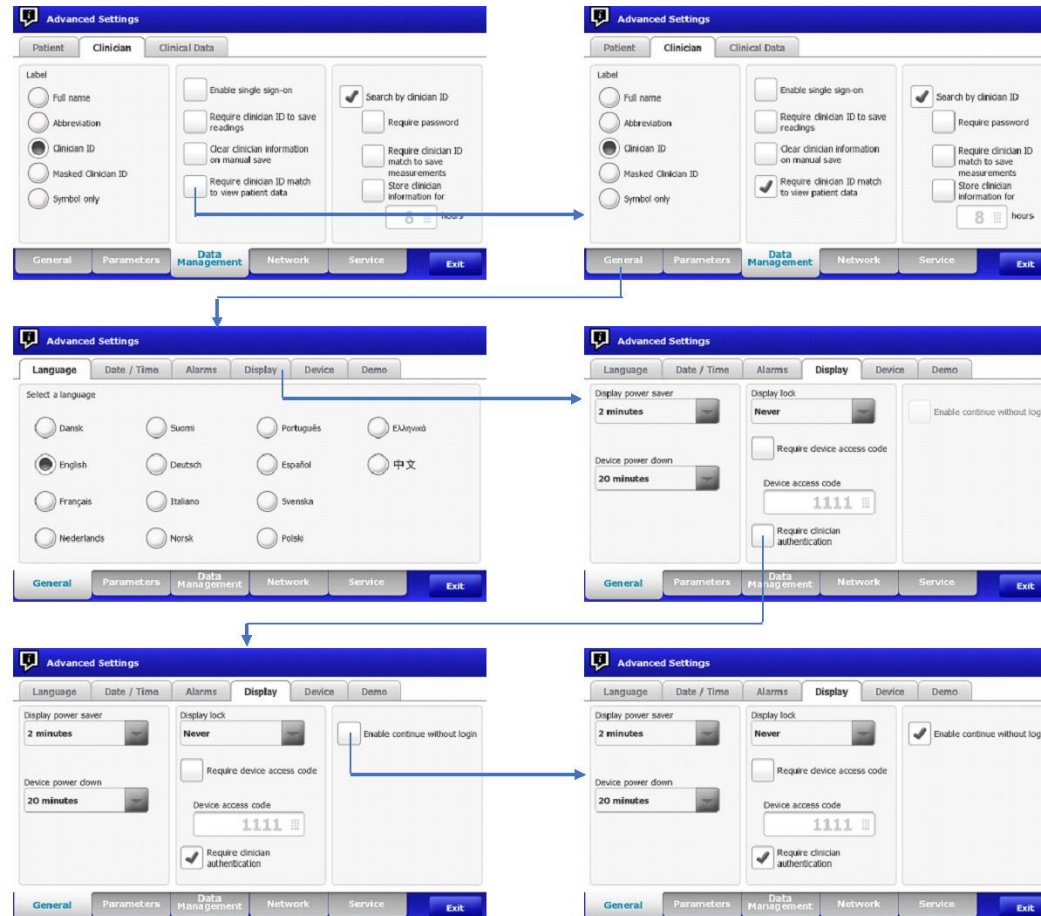
**3A. NON-SSO – Search by clinician ID** is enabled, which means **Require clinician ID match to view patient data** is configurable, but it's left un-checked. Therefore, in lock screen will not allow the configuration of **Enable continue without login** even if **Require clinician authentication** was enabled.




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**3B. NON-SSO –Search by clinician ID** is enabled, which means **Require clinician ID match to view patient data** is configurable. If that setting gets enabled, in the lock screen configuration the **Enable continue without login** can be configured if **Require clinician authentication** is enabled.

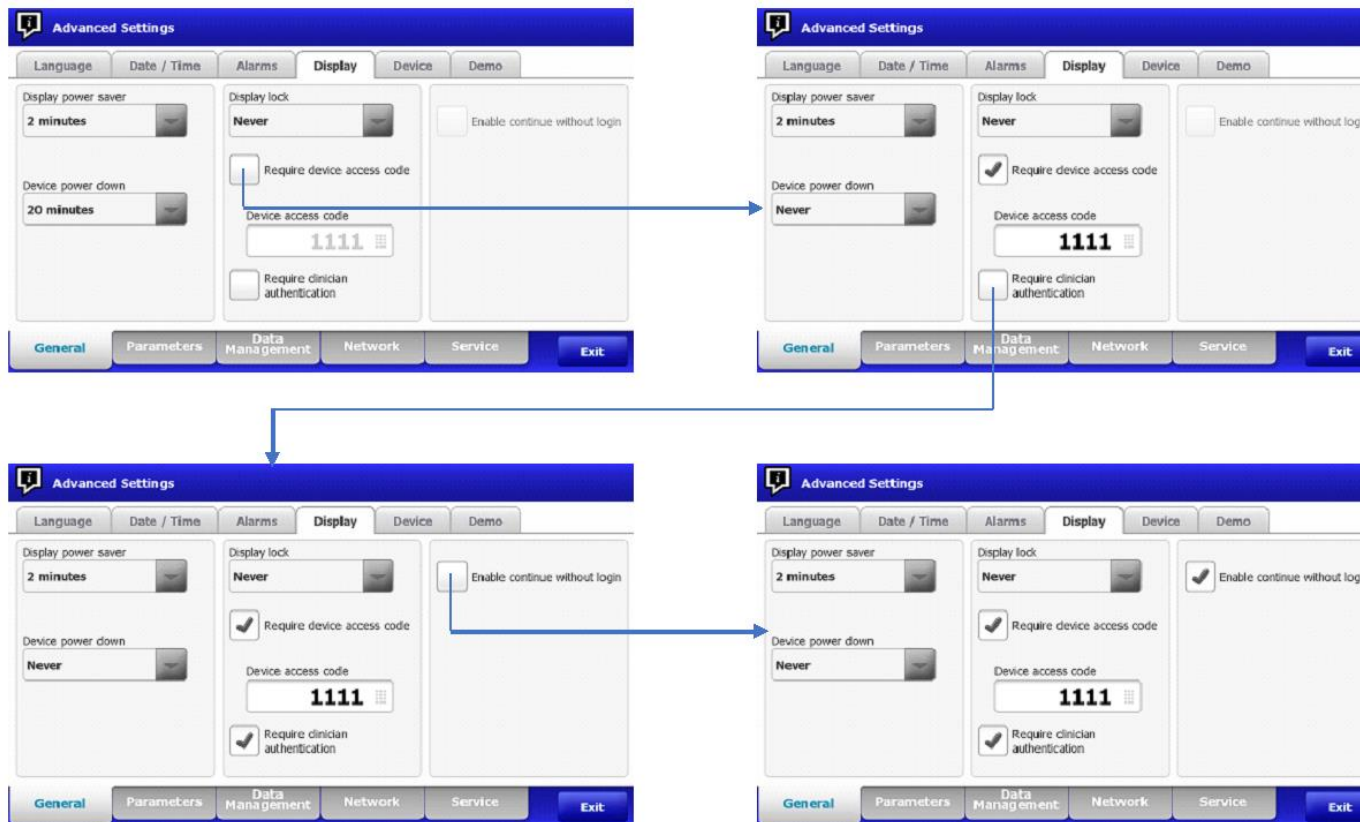


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**3C. NON-SSO continued** – for these flows, it assumes *Search by clinician ID* is enabled, which means *Require clinician ID match to view patient data* is configurable, and that gets enabled as well.

When *Require device access code* alone is enabled, the *Enable configure without login* configuration is still disabled. However, if both *Require device access code* and *Require clinician authentication* are enabled, then the *Enable continue without login* configuration is enabled to be configured.

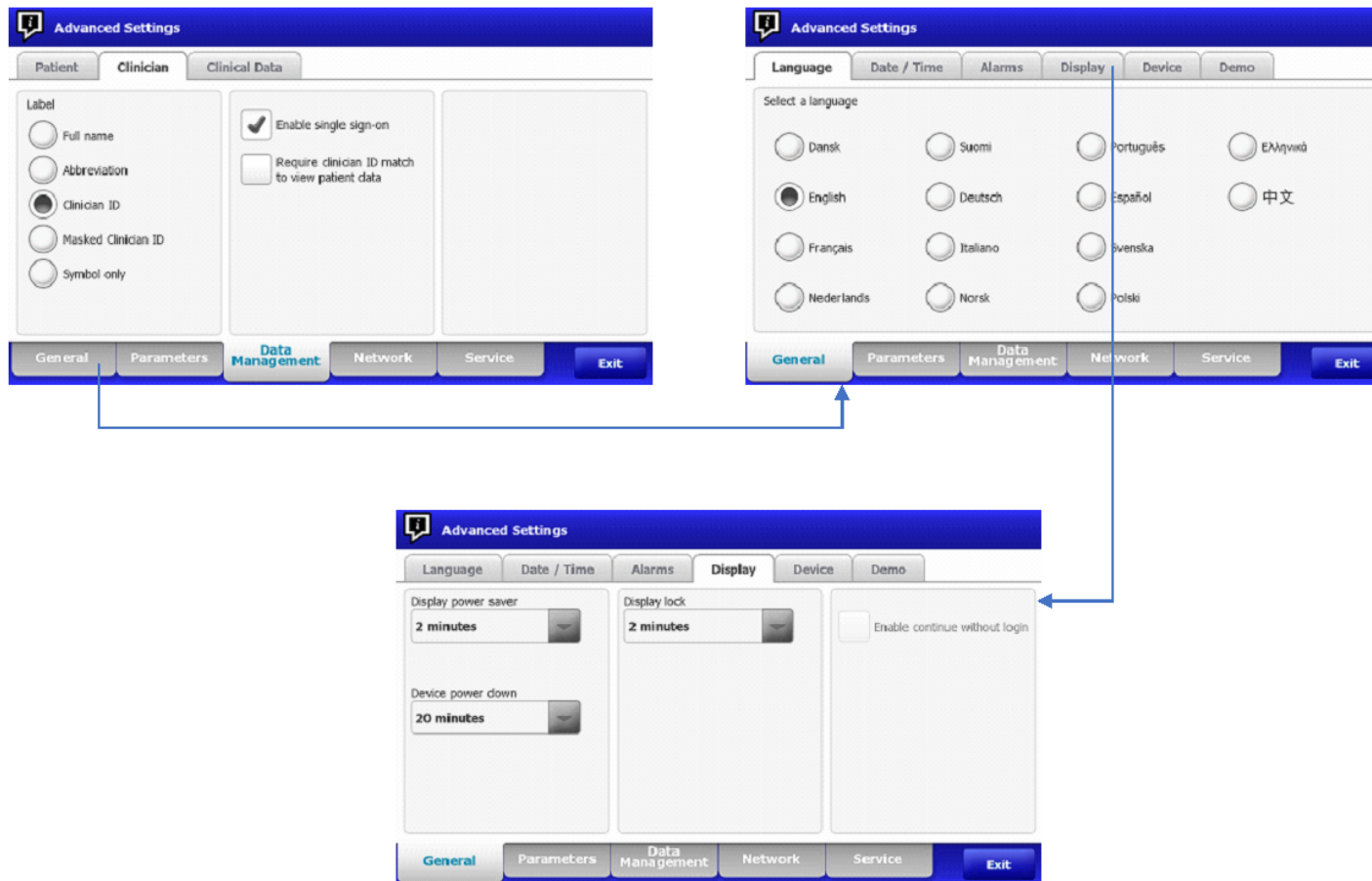


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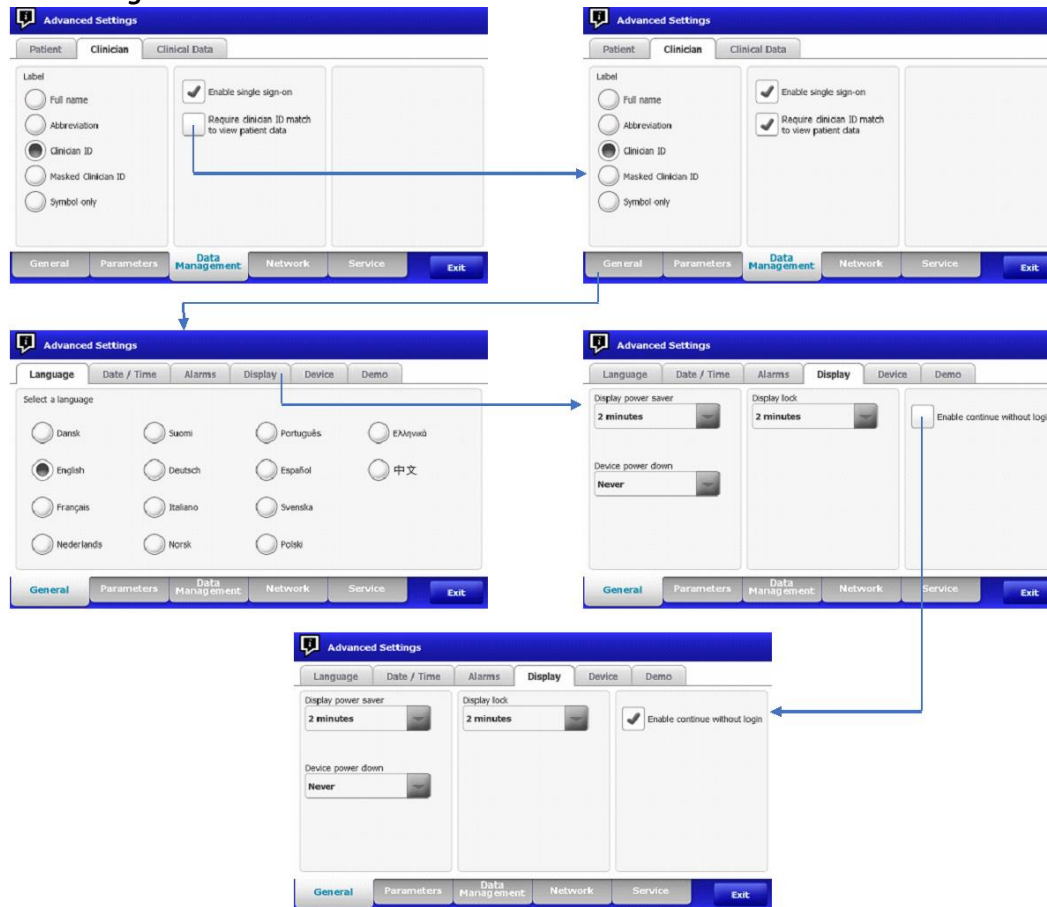
**3D. SSO Enabled** – Single sign on is a clinician authentication function, therefore when **Enable single sign on** is checked, **Require clinician ID match to view patient data** becomes available for configuration. For lock screen though, if **Require clinician ID match to view patient data** is left disabled, **Enable continue without login** is not configurable.




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**3E. SSO Enabled** – when *Enable single sign on* is checked, and *Require clinician ID match to view patient data* is checked. In lock screen, the option to *Enable continue without login* becomes available and can be enabled.



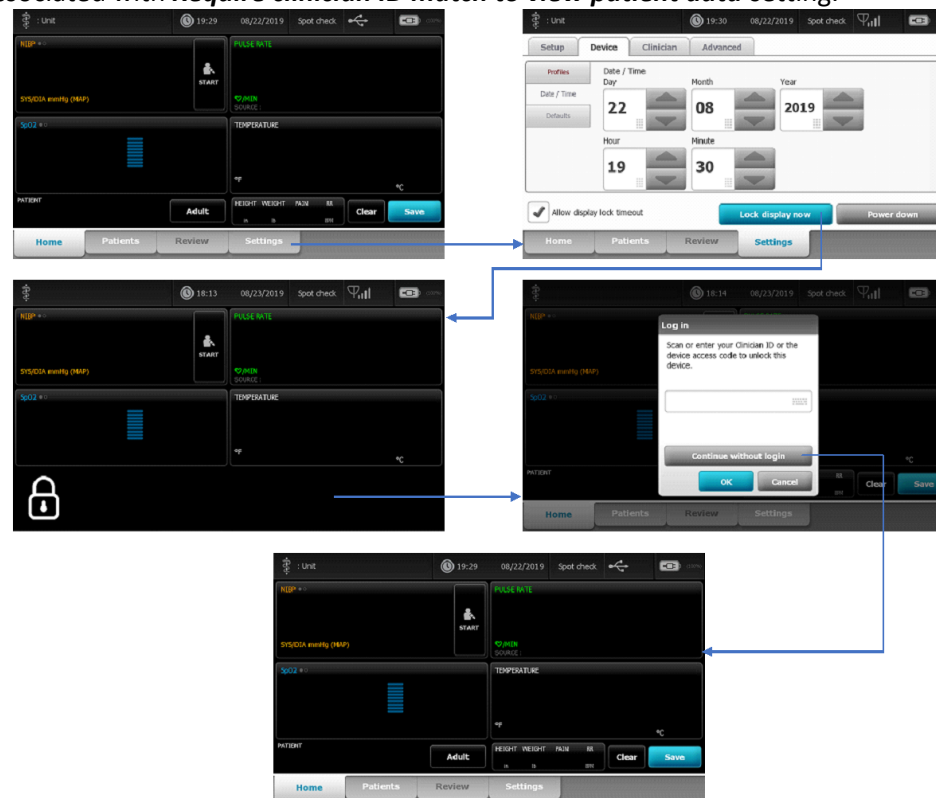
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## Section 4:

Enable continue without login is checked:

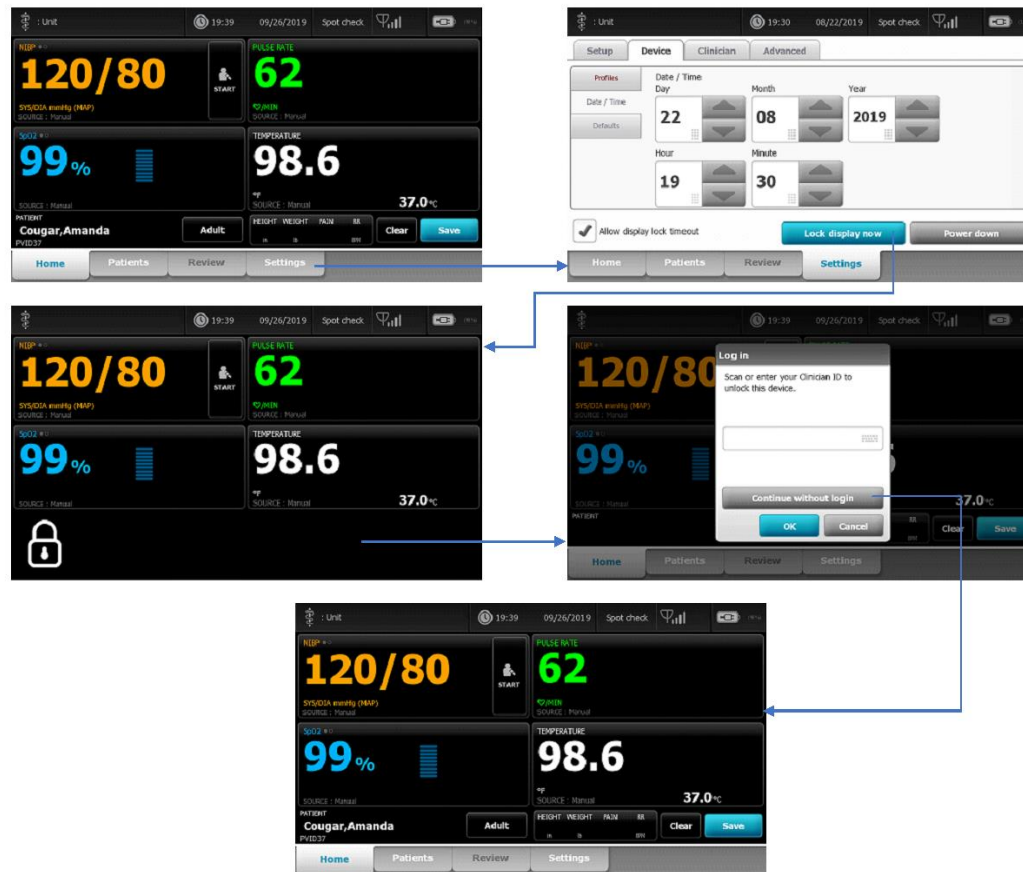
**4A.** When the **Enable continue without login** checkbox is checked, if the device is put into lock screen with no clinician logged in, a new **Continue without login** button will be available to get through Lock Screen. Pressing that button will go to the home screen with the device operating per the non-authenticated clinician mode associated with **Require clinician ID match to view patient data** setting.




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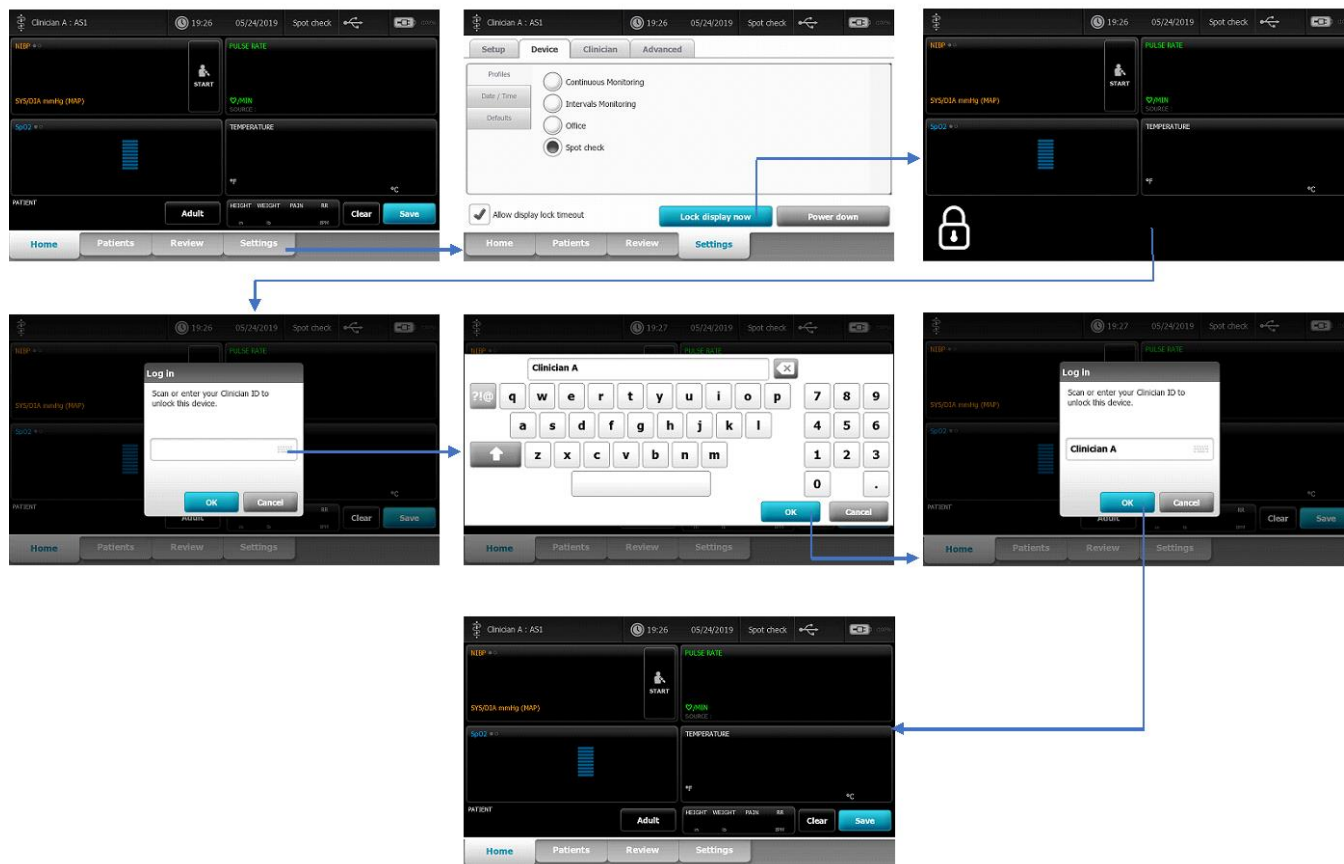
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**4B.** When the *Enable continue without login* checkbox is checked, if the device is put into lock screen with no clinician logged in, that means the **Continue without login** button will be available to get through the lock screen. Using the **Continue without login** button will bring the user back to the home screen with any patient or vitals data in the same state as it was before the device was locked.




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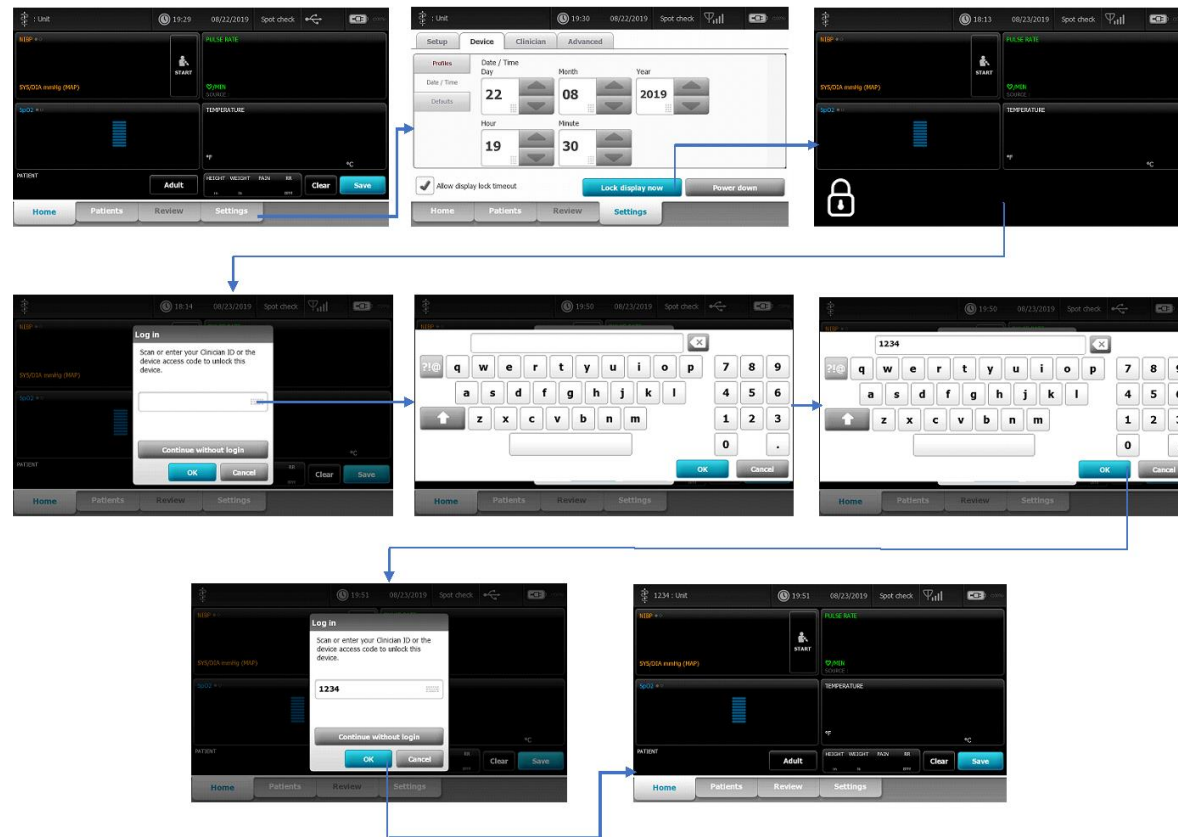
**4C.** When the *Enable continue without login* checkbox is checked, if the device is put into lock screen with a clinician logged in, the **Continue without login** button **will not** be available to get through Lock Screen. The configured option(s) to get through lock screen will be required. **This workflow shows a dialog that allows entry of the Clinician ID only to access the device and is assuming the device is configured with *Require device access code* disabled in Advanced Settings->General->Display.**




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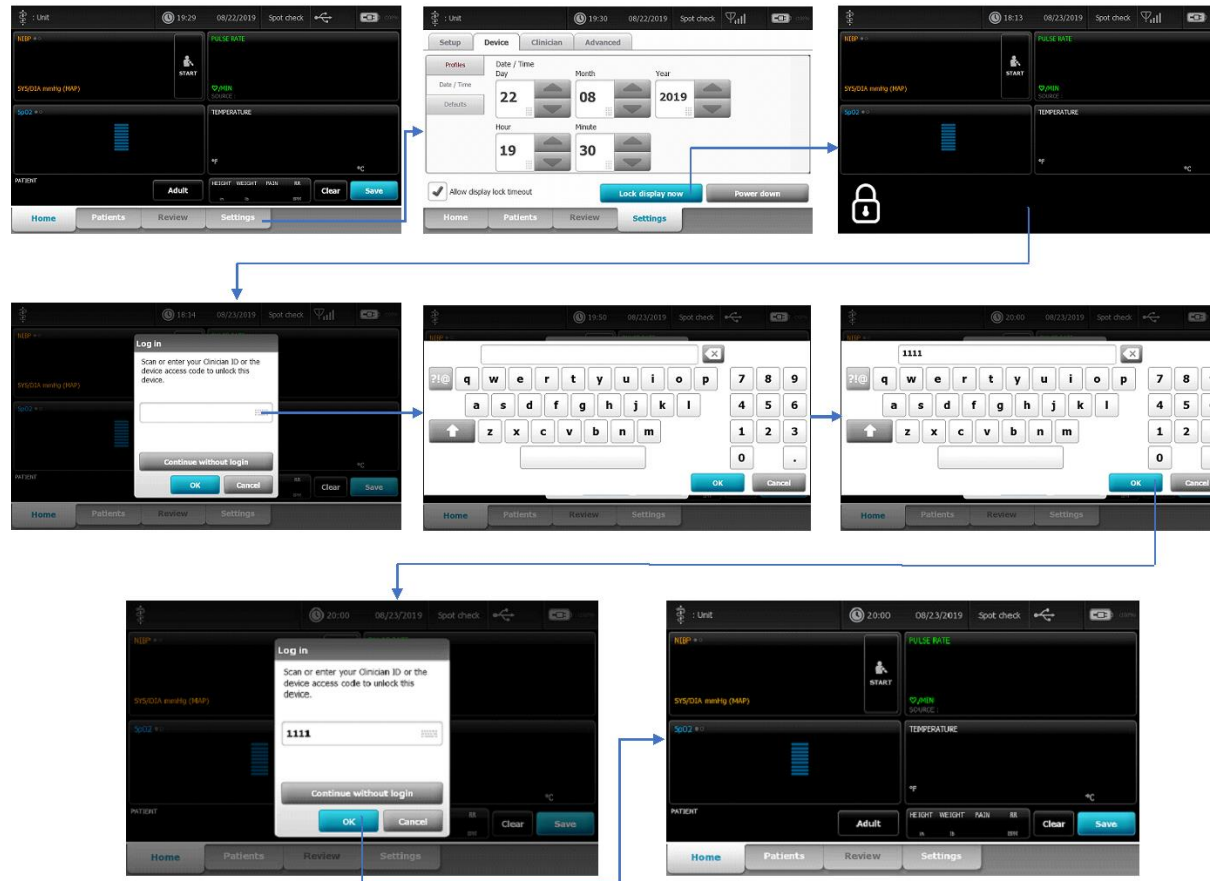
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**4D.** When the *Enable continue without login* checkbox is checked, if the device is put into lock screen with no clinician logged in, as discussed the **Continue without login** button will be available. However, a Clinician can be authenticated at this point, allowing the device to come out of Lock Screen with full access to the Patients, Review, and Settings->Device->Profiles tabs. **This specific workflow shows a dialog that allows entry of the Clinician ID or the device access code to access the device, which is assuming the device is configured with *Require device access code* enabled in Advanced Settings->General->Display.**



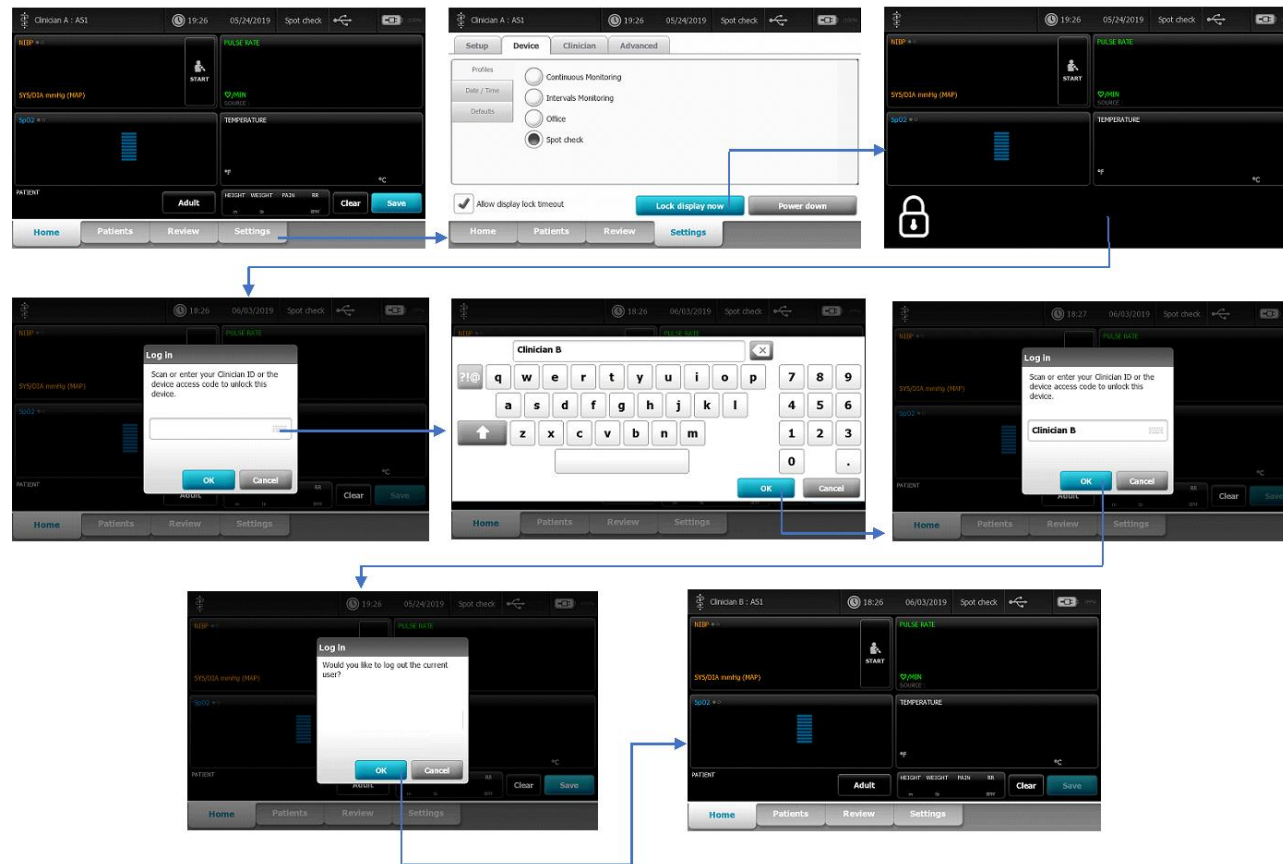
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**4E.** When the *Enable continue without login* checkbox is checked as well as both *Require device access code* and *Require clinician authentication* in the lock screen configuration, using the device access code will be the same as using the **Continue without login** button, because a device access code is not the same as a clinician authentication.




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**4F.** When the *Enable continue without login* checkbox is checked, if the device is put into lock screen with Clinician A logged in, Clinician B can login to get through the lock screen, logging out Clinician A in the process. The rules as to whether a dialog box pops up indicating that the existing clinician is being logged out and/or when vitals information gets cleared will follow the already specified logic for both SSO and non-SSO modes – below shows the non-SSO flow.

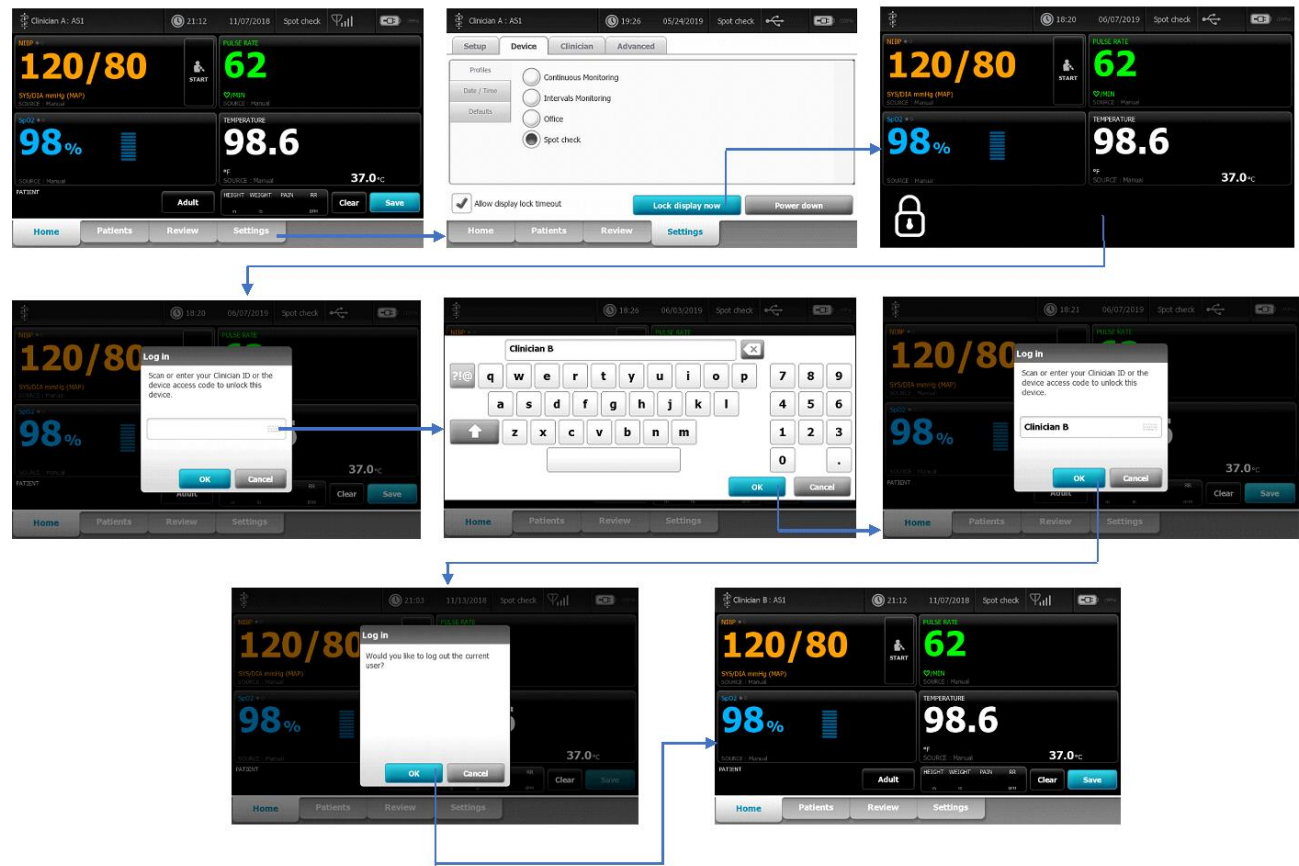



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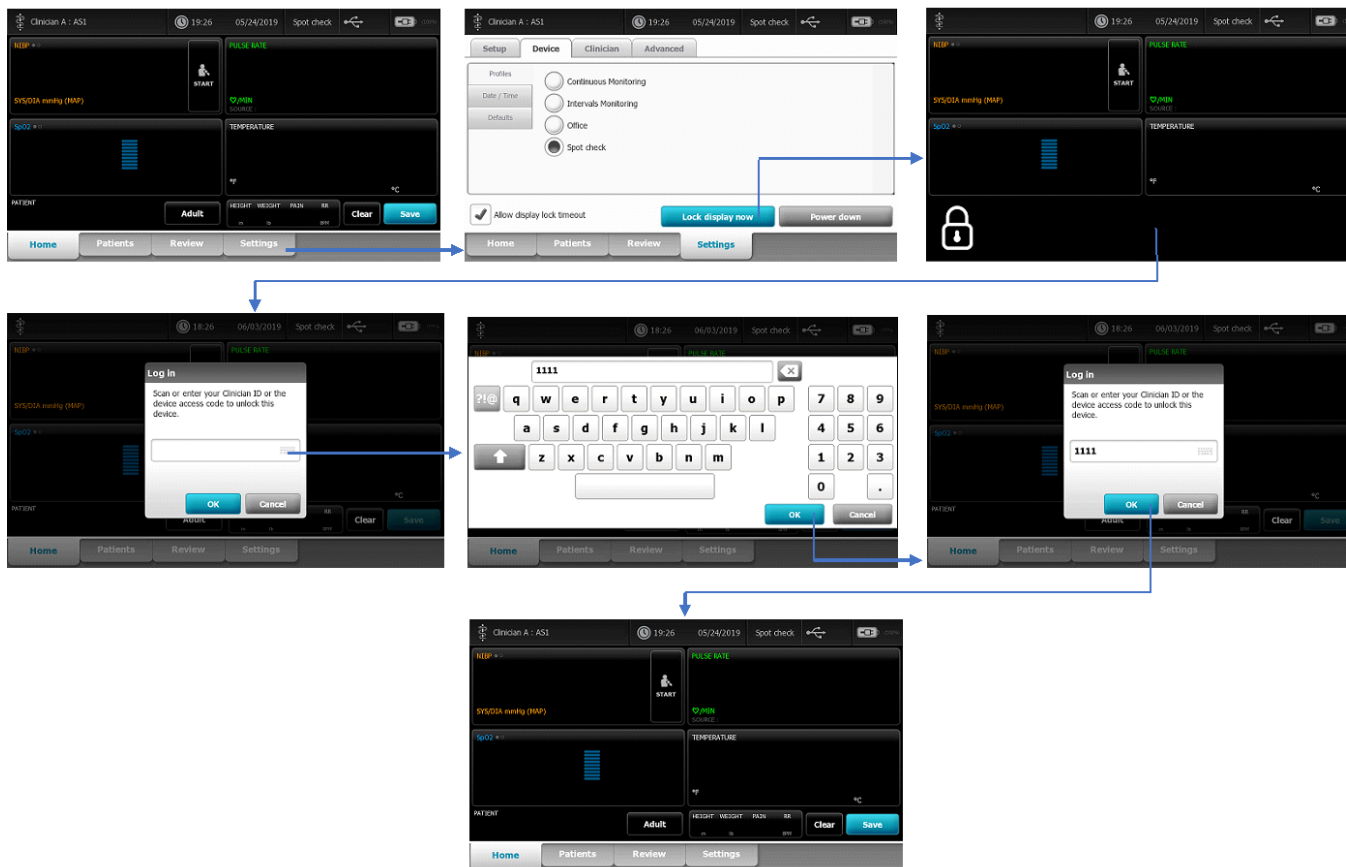
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**4G.** When the *Enable continue without login* checkbox is checked, if the device is put into lock screen with Clinician A logged in and unsaved vitals exist, Clinician B can login to get through the lock screen, logging out Clinician A in the process. The rules as to whether a dialog box pops up indicating that the existing clinician is being logged out and/or when vitals information gets cleared will follow the already specified logic for both SSO and non-SSO modes – below shows the non-SSO flow.




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**4H.** When the *Enable continue without login* checkbox is checked, if the device is put into lock screen with a clinician logged in, the **Continue without login** button **will not** be available to get through Lock Screen. The configured option(s) to get through lock screen will be required. Using the **device access code** will leave current clinician logged in, and patient and vital data intact.



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Version	Sec, Pg, Para Changed	Change Made	Date Version Created	Version Created By (initials)
A	N/A	Initial Release	2020-07-16	MDB

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