Contents

[1. About Bethesda E-Consent. 2](#_Toc339997212)

[2. Business logic behind E-Consent forms 3](#_Toc339997213)

[3. Pre-requesties 5](#_Toc339997213)

[4. Deployment 6](#_Toc339997213)

[5. Setup and configuration 17](#_Toc339997213)

1. **Bethesda E-Consents**

Bethesda E-Consents is an electronic signature solution, it will enable nurse and/or physician to select the appropriate patient information and get signatures from patients before starts his/her medical procedures. It would provide patients and doctors the ability to electronically sign the required fields of the defined consent forms.

Here is the list of consent forms implemented in this release

• Surgical Consent Form

• Blood Consent/Refusal

• Cardiac Cath Lab Consent

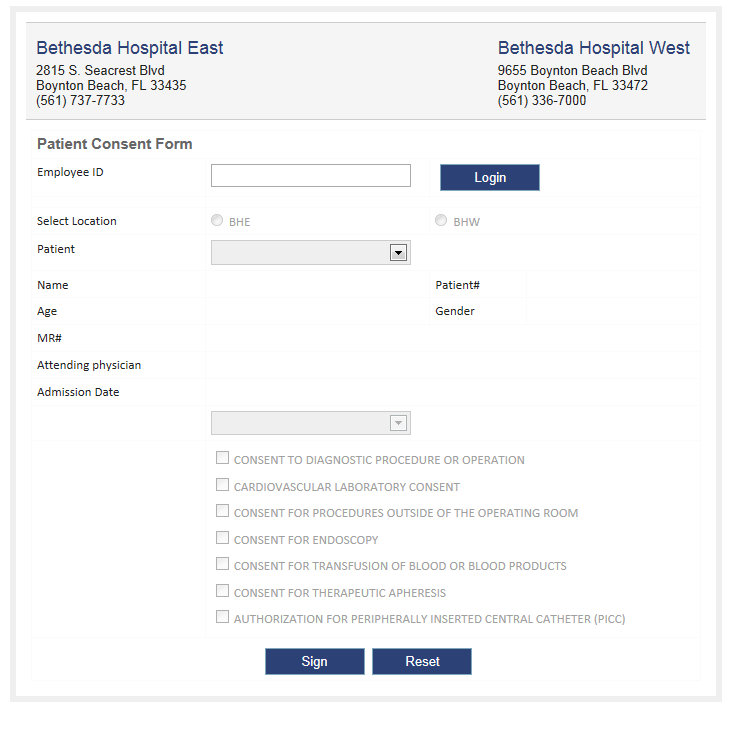
• Endoscopy Consent

• Outside OR Consent

• PICC Consent

• Plasma Apheresis Consent

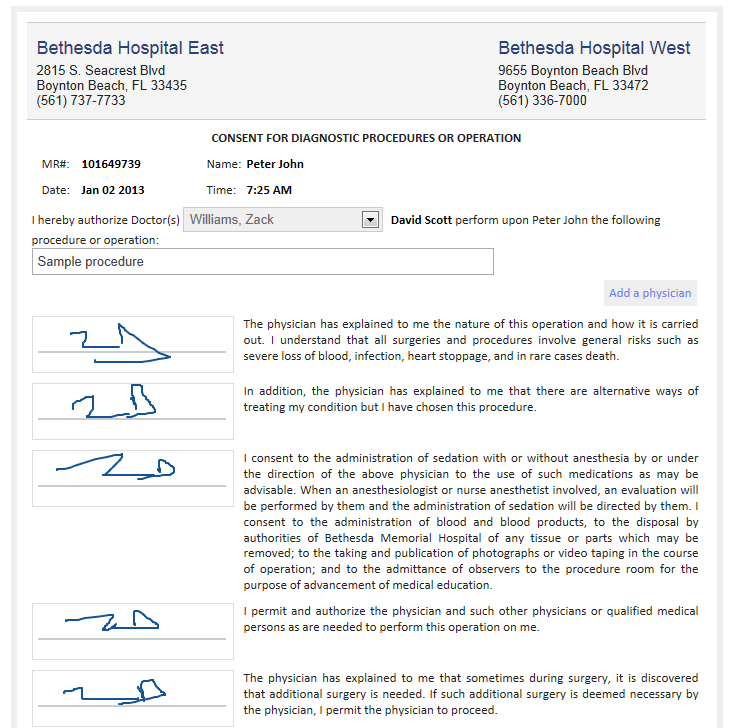
Screen shot of home page:



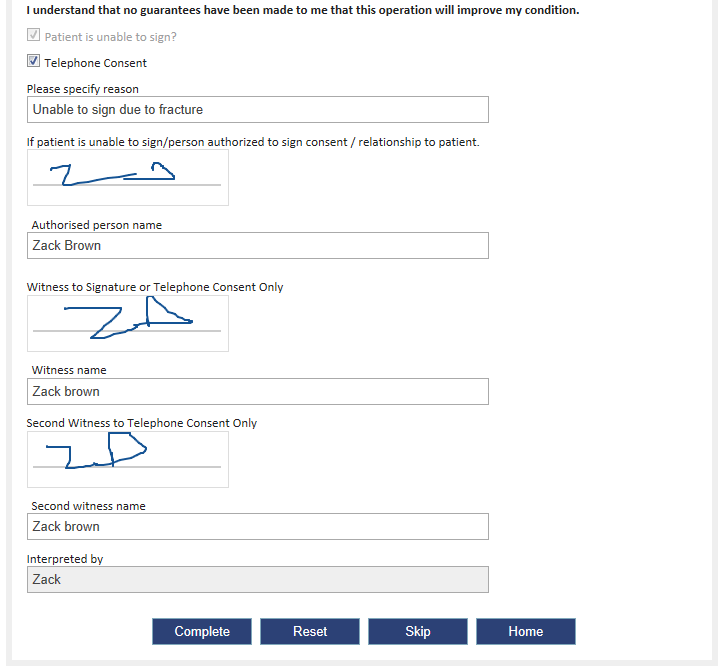
2. **Business logic behind E-Consents forms**

1. The application will validate the employee [nurse / doctor] information.
2. It will allow getting patient information for selected patient.
3. It will allow choosing E-Consent form type.
4. It will allow signing electronically for nurses / doctors, patients, patient authorized persons and witnesses.
5. It will allow adding multiple medical procedures and physicians for a consent.
6. It will convert the E-Consent form into PDF file and stored in a disk for references.

Screen shot 1of sample consent page:



Screen shot 2of sample consent page:



3. **Pre-requisites:**

The following are the pre-requisites for installing E-Consents form.

1. Server:

It requires windows Server [Windows 2003/2008/2012] with IIS role enabled.

1. Database:

It requires Microsoft SQL server 2005/08

1. Dot net framework 4.0 should be available in server.
2. Muhimbi PDF Converter needs to installed and configured in the server.

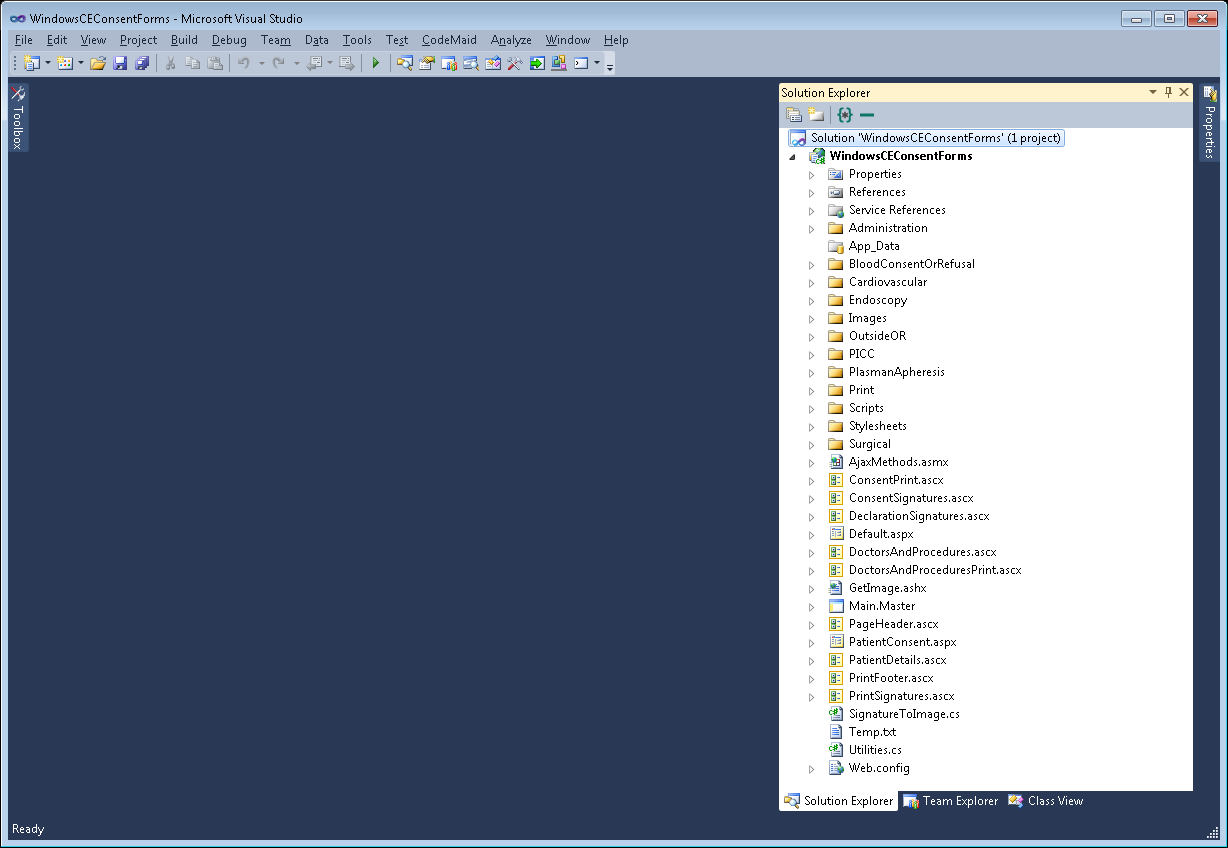
4. **Deployment:**

The following steps will guide you to set up the application in your hosting server.

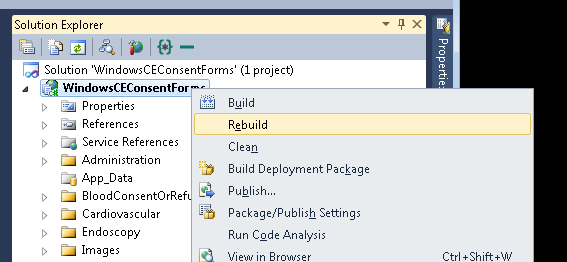
Deployment steps for Bethesda E-Consents:

**Step 1:** Go to dev1 server and navigate to the folder

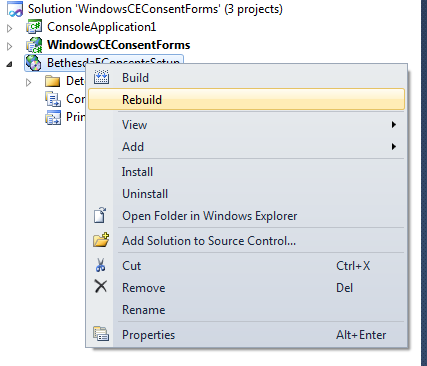
“**C:\Software\Santhosh\BethesdaConsentForms\WindowsCEConsentForms**” and open the “**WindowsCEConsentForms**” solution using visual studio.



**Step 2:** Right on solution and click ‘Rebuild’



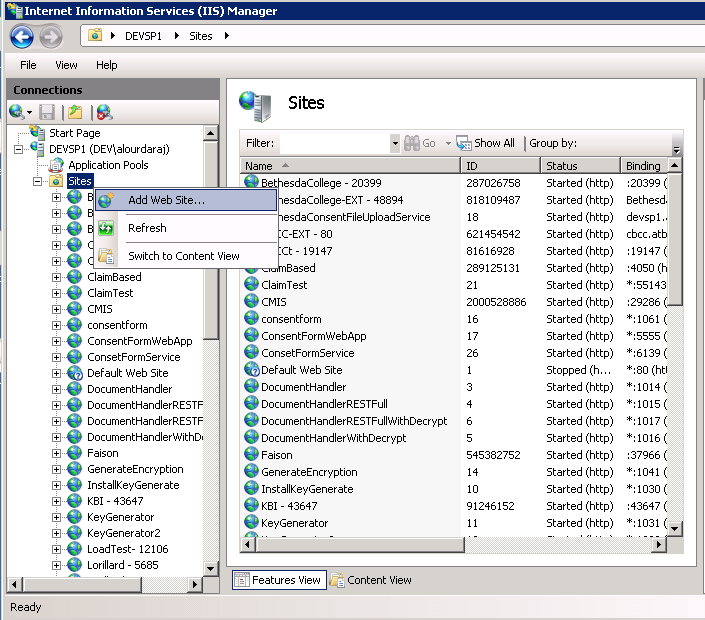
**Step 3:** Once the build is successful, right click on the project below to ‘WindowsCEConsentForms’ called ‘**BethesdaEConsentsSetup**’ and click ‘Rebuild’ to get setup files for installation.



**Step 5:** Now in the same quick launch menu click on ‘**Open Folder in Windows Explorer**’. It will explores the setup folder for our installer project.

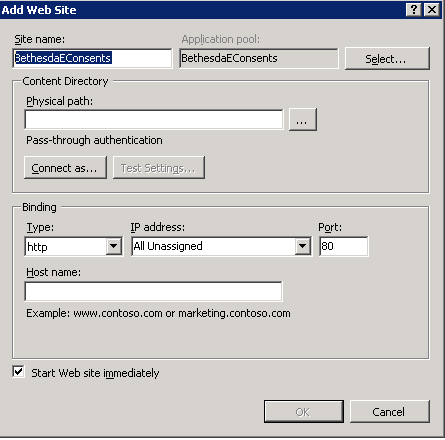
**Step 6**: Copy the setup files and bring to server where we need to deploy the application.

**Step 7:** Now go to deployment server, open **IIS** manager. On left hand side panel select ‘**Sites**’ and right on it and select ‘**Add Web Site**’

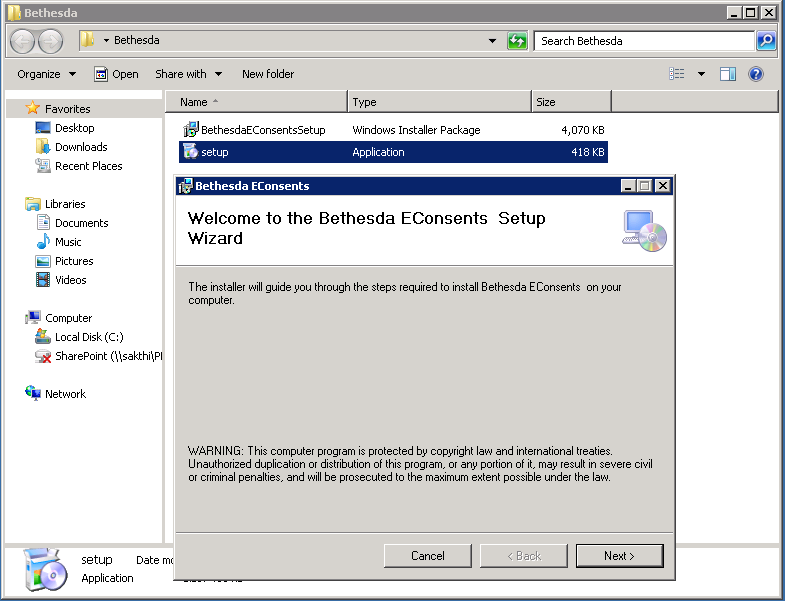
****

**Step 8:** It will prompt a window to configure site name, port, physical folder path, application pool and host header for your site.

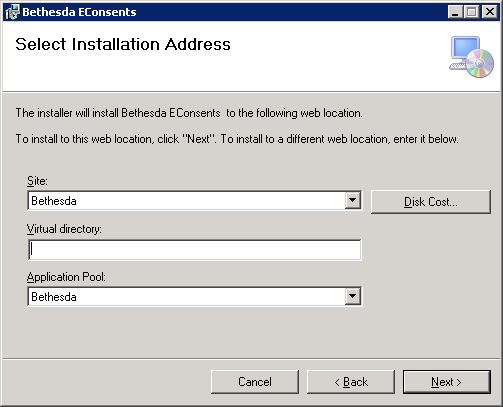
Configure the settings as per your requirement.



**Step 9:** Now run the installation setup file with administrative privileges.

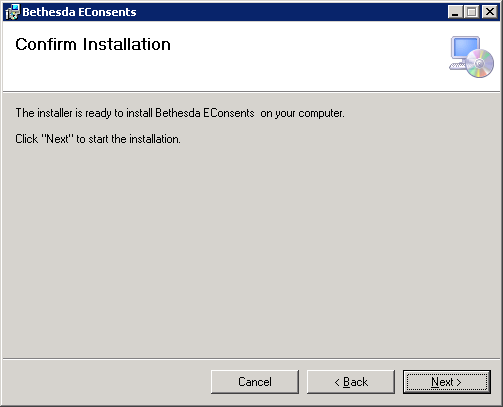


**Step 10:** Click next for site configuration screen.



Remove ‘Virtual Directory’ configuration in installer wizard and press ‘next’ again.

**Step 11:** Click on Next on confirmation wizard.



It will deploy the web application pages into the virtual directory.

**Step 10:** Nowstart your configured web application in IIS.

**Deployment steps for Bethesda E-Consent WCF Application:**

**Step 1:** Go to dev1 server and navigate to the folder

“**C:\Software\Santhosh\BethesdaConsentFormWCFSvc**” and open the “**BethesdaConsentFormWCFSvc**” solution using visual studio.

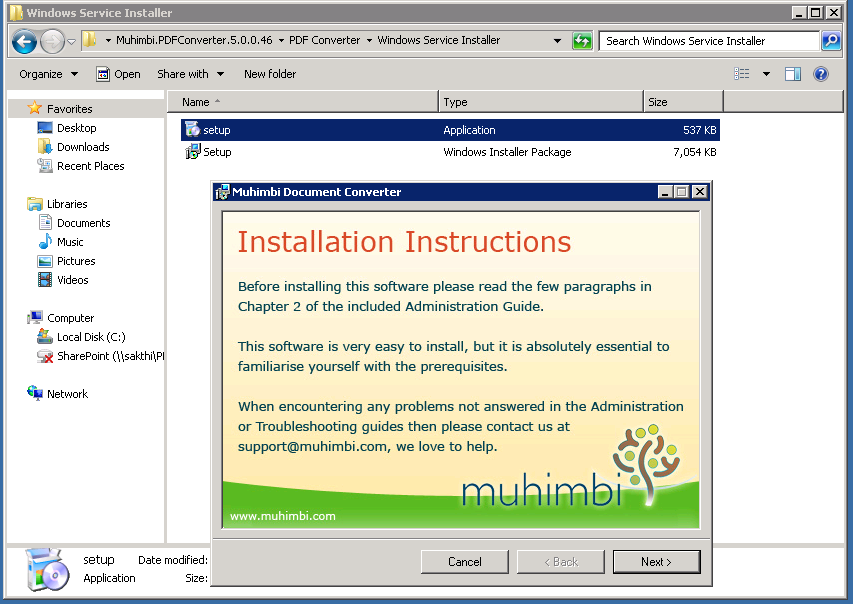
For WCF service application installer check the project called ‘**BethesdaConsentFormWCFSvcSetup**’

**Step 2**: Repeat step 2 to 10 from the above to deploy the WCF service application.

**Deployment steps for Muhimbi PDF conversion utility:**

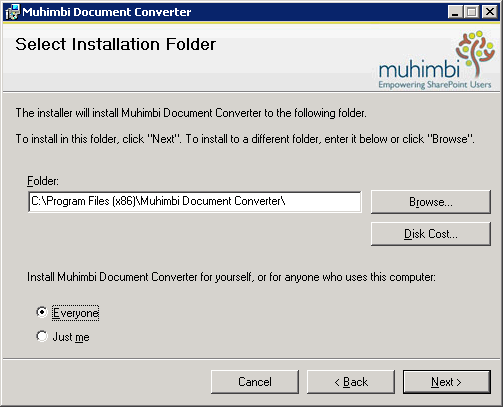
**Step 1:** Download the installer from Muhimbi authorized site location and places it to the deployment server for installation.

**Step 2:** Run the application by clicking on the setup file.

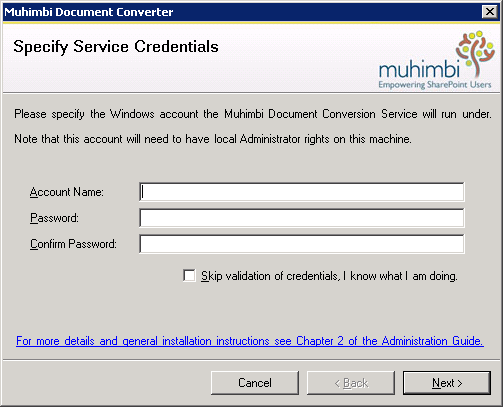


**Step 3**: Click ‘Next’ for continue the wizard.

**Step 4**: Select the installation path and then select ‘Next’



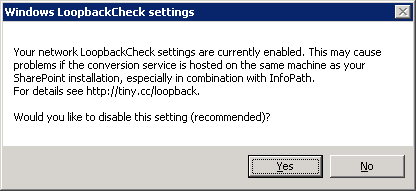
**Step 5**: It will installs the required service files in to the server. After this it will prompt for credentials to run the service with the given privileges.



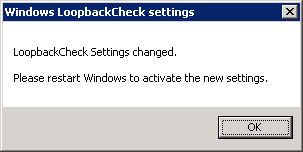
Note: All the PDF conversion will be done by this service and generate the PDF file and places in the specified disk location so you must specify the administrative credentials who is having all the rights for file operation.

Click on ‘Next’ to continue.

**Step 6**: Once you entered the credentials it will starts to configure the service and prompt the following window.

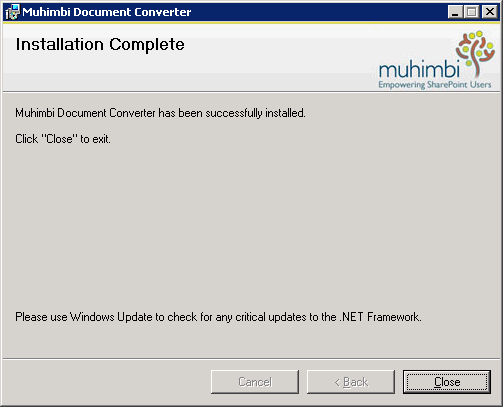


**Step 7**: Click ‘Yes’ for recommended option. It shows the following



Click OK to continue.

**Step 8**: Finally it will complete the installation.



**Step 9**: Click ‘Close’ and restart the server for successful installation of Muhimbi.

4. **Setup and configuration:**

This section will guide to setup connection between WCF and database server, both internal and external [Bethesda Solarian Database Server] databases. And also for PDF export paths in your local disks.

Open administration page using with the following URL

<<site URL>>/administration/setup.aspx.

You can see the following sections in the page.

1. WCF Service Configuration:

Here you need to specify the WCF service URL which will stores in the app.config file and use this for communication.

1. Internal Database Information:

Here you need to specify the database connection settings for setting up database for our application. This connection string should specify the application database server.

1. External Database Information:

Here you need to specify the Bethesda’s Solarian database connection settings for getting patient and physician information from their existing data source.

1. Exports path:

Here you need to specify the disk location where you need to store the consent PDF forms.

