5. Click on **"Settings...**" button and select the services you wish to provide other Bluetooth devices. Click **"OK**" to save the changes.

Advanced Settings 🛛 🛛 🔀
Services
Select the services running on your network that Internet users can access.
Services
FTP Server
Internet Mail Access Protocol Version 3 (IMAP3)
✓ Internet Mail Access Protocol Version 4 (IMAP4)
✓ Internet Mail Server (SMTP) ✓ Death Office Deater all (curring 2 (DOD2))
Fost-Office Flotocol Version 3 (FOF3)
Secure Web Server (HTTPS)
✓ Telnet Server
☑ Web Server (HTTP)
Add Edit Delete
OK Cancel

6. Go back to the "Network and Dial-up Connections" window, right click the "Bluetooth LAN Access Server Driver" and select "Properties".

7. Under "General" tab, click on "Internet Protocol (TCP/IP)" and "Properties".

Connect using:				
Bluetoot	LAN Acc	ess Server Driv	er	
			(<u>C</u> onfigure
This connection	n uses the	following items:		
🗹 🔒 QoS F	acket Sch	neduler	23	^
Micros	oft IPv6 D	eveloper Edition	n	
🗹 🐨 Interne	et Protocol	(TCP/IP)		
1				
				<u>) <u>180</u>1</u>
I <u>n</u> stall		Uninstall		Properties
- Description -				
Transmission wide area ne across divers	Control P twork prot e intercon	rotocol/Internet ocol that provid nected network	Protoco es comn ts.	I. The default nunication
Sho <u>w</u> icon i	n notificatio	on area when c	onnecte	d

8. Under **"General"** tab, assign a virtual IP as shown in the picture below. Then click **"OK"** to save the changes.

eneral	
You can get IP settings assigned this capability. Otherwise, you new the appropriate IP settings.	automatically if your network supports ed to ask your network administrator for
O <u>O</u> btain an IP address autom	atically
Use the following IP address	8
IP address:	192.168.0.1
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
<u>D</u> efault gateway:	12 12 20
O Dbtain DNS server address	automaticallu
Use the following DNS server	er addresses:
Preferred DNS server:	
<u>A</u> lternate DNS server:	
	Ad <u>v</u> anced

9. This allows the server PC to act as a DHCP server towards the client PCs. NOTE: For Win98SE and WinMe, please download and install WinRoute (or similar program) on the Server PC to allow DHCP service.

10. On the client PC, launch the Bluetooth software stack by clicking the **"My Bluetooth Places"** icon located on the desktop.

11. Double click the **"Entire Bluetooth Neighborhood"** icon to search for other Bluetooth devices nearby.



12. After searching is completed, locate the computer name of the server PC and double click it to discover the Bluetooth services it has to offer. (i.e. Bluetooth Serial Port, Dial-up Networking, File Transfer, Network Access, etc.).



13. Click on the "Network Access" icon to connect to the shared Internet connection on the server PC.



14. Click OK without entering any username or password. If one is already present, click OK anyway and it will still connect.

Connect Blueto	othNullConnection	<u>? ×</u>
		N/
<u>U</u> ser name:		
<u>P</u> assword:		
	Save Password	
<u>C</u> onnect	Cancel Properties	<u>H</u> elp

15. Now you can access the Internet via Bluetooth.

Note: If your PC accesses the Internet via a proxy server, remember to configure the proxy setting of you browser program in the client PC. Consult your MIS personnel if you're not sure what to set.

Proxy setup 1. To set up proxy, right click "Internet Explorer", select "Properties", select "Connections" tab. Select "BluetoothNull Connection" and click on "Settings...".

Internet Prope	rties		? 🛛
General Securi	y Privacy Content	Connections	Programs Advanced
To set Setup.	up an Internet connec	tion, click	Set <u>up</u>
Dial-up and V	irtual Private Network s	ettings	
Bluetool	thNull Connection (Defa	ault)	Add
			<u>Remove</u>
Choose Settir server for a c	ngs if you need to conf onnection.	igure a proxy	Settings
🔿 Never dial	a <u>c</u> onnection		
O Dial <u>w</u> hen	ever a network connec	tion is not pres	ent
💿 Always dia	al my default c <u>o</u> nnectior	n	
Current	BluetoothNull Cor	nnection	S <u>e</u> t Default
Local Area Ne	etwork (LAN) settings		
LAN Settings Choose Settir	do not apply to dial-up ngs above for dial-up s	connections. ettings.	LAN Settings
			Apply

2. Select the **"Proxy server"** checkbox and enter the proxy address of you company and Port number. Then click **"OK**" to save the changes.

BluetoothNull	Connection S	iettings		?
Automatic con Automatic con use of manual	figuration figuration may ov settings, disable	verride man automatic (ual setting configurat	gs, To ensure the ion.
Use autom	ally detect setting	ls Iscrint		
Address				
Proxy server				
Use a pro <u>x</u> apply to ot	y server for this her connections)	connection ,	(These se	ttings will not
Addr <u>e</u> ss:	172.18.0.7	Por <u>t</u> :	80	Advanced
Bypass	proxy server for	local addre	sses	
Dial-up setting	s			
<u>U</u> ser name:				Properties
Password:				Advanced
Domain:				
		C	OK	Cancel

3.3. File transfer setting for Windows

The File Transfer service allows one Bluetooth device to perform file operations on the default File Transfer directory (and the folders and files it contains) of another Bluetooth device.

File transfer setting for Windows PC to PC

 After successful USB adapter setup on two PCs, launch the Bluetooth software stack on both PCs by clicking the "My Bluetooth Places" icon located on the desktop.
 On one PC only, double click on "Entire Bluetooth Neighborhood" icon to search for other Bluetooth devices nearby.



3. After searching is completed, locate the name of PC that you wish to transfer the file to and double click it to discover the Bluetooth services it has to offer (i.e. Bluetooth Serial Port, Dial-up Networking, File Transfer, Network Access, etc.).



4. Double click the **"Public Folder**" icon to open the Bluetooth shared folder on the other PC.

5. Locate the file you wish to transfer to that PC and drag it into the **"Public Folder"** window.

6. At this time, a window will pop up to indicate that a file transfer connection is being established, and then file transfer will begin.

Copying		
	4	
BTplace.bmp From 'H:\' to 'Public Folder\'		
		Cancel
Copied 173,892 bytes of 286,422 bytes.		

7. The file will be opened once the transfer is completed, if the **"Start Automatically"** checkbox is selected.



3.4. Dial-up networking setting for Windows

The Dial-up Networking service permits a Bluetooth client to use a modem that is physically connected to a different Bluetooth device (the server). After the Bluetooth wireless connection is established the client can use the server's modem as if it were a local device on the client.

To establish a Dial-up Networking session:

Dial-up networking setting for Windows

Connections are initiated from the client:

1. On the client, in the Folders pane of **"My Bluetooth Places"**, select **"Entire Bluetooth Neighborhood"**.

2. In the right pane of **"Entire Bluetooth Neighborhood"**, right-click anywhere *except on a device name* and select **"Refresh**" from the pop-up menu.

3. In the Folders pane of **"My Bluetooth Places"**, right-click the server that will provide the Dial-up Networking Service and select Discover Available Services from the pop-up menu to update the available services list. The available services will be displayed in the right pane of **"My Bluetooth Places"**.

😂 My Bluetooth Places\Entire Bl	ueinoth Neighborhood	
<u>File Edit Yew Bluetooth Favor</u>	ites <u>I</u> ools <u>H</u> elp	2
🚱 Back • 🕥 - 🏂 🔎 S	icarch 📂 Folders 🔠 🔹	
Address 🔮 My Bluebooth Places\Entire I	Bluetooth Neighborhood	💌 🄁 െ
Folders X	(d) T20	
🎯 Desktop	Gelular Phone	
🗉 😂 My Documents		
📧 暑 My Computer		
🖻 🥞 My Network Places		
🥩 Recycle Bin		
🛋 😫 My Bluetooth Places	N 1997	
📄 🗟 🦉 Eggine Stresson - Nespinon og		
🖻 👫 T39		
🔜 My Device		
🚞 BTW 1.2.2.9 Retail Package Engl		
< >		



4. In the right pane of "My Bluetooth Places", double-click "Dial-up Networking".

5. In the "Connect To" dialog box, type in your user name, password, and the phone number to be dialed, and then click the "Dial" button.

6. Select the "Save password" checkbox and the dialog box will not appear for subsequent connections to the same phone number. You can now open a web browser and connect to the Internet.

Note: When using the GPRS Dial up function, you do not have to type in the user name or password.

Connect BluetoothConnection
User name: illio1
Password:
Save this user name and password for the following users: Me only Anyone who uses this computer
Dial: 034121234
Dial Cancel Properties Help
Network Connections
Make the phone number change permanent? Yes
Connecting BluetoothConnection
Dialing 034121234 Cancel

To close a Dial-up Networking connection

1. On the client, in the Folders pane of **"My Bluetooth Places"**, select (highlight) the device that is providing the Dial-up Networking service.

2. In the right pane of "My Bluetooth Places", right-click "Dial-up Networking" and then select "Disconnect Dial-up Networking" from the pop-up menu.

3.5. FAX setting

The Fax service allows a Bluetooth client to wirelessly send a fax using a device that is physically attached to a Bluetooth server.

FAX setting for Windows

To send a Fax

Connections are initiated from the client:

1. On the client, in the Folders pane of **"My Bluetooth Places"**, select **"Entire Bluetooth Neighborhood"**.

2. In the right pane of **"Entire Bluetooth Neighborhood"**, right-click anywhere except on a device name and select Refresh from the pop-up menu.

3. In the Folders pane of "**My Bluetooth Places**", right-click the server that will provide the Fax service and select "**Discover Available Services**" from the pop-up menu to update the available services list. The available services will be displayed in the right pane of "**My Bluetooth Places**".

4. In the right pane of "**My Bluetooth Places**", double-click Fax. After the Fax connection is established, open or create the document to be faxed and use the "**Print**" or "**Send to Fax Recipient**" option available in most applications. The Fax connection closes automatically when the transmission is completed.

3.6. PIM Item Transfer setting

Overview

The Bluetooth PIM Item Transfer application allows this computer to send and receive Personal Information Manager items to-and-from a remote Bluetooth device. Item transfer can be accomplished several ways:

To send, receive or exchange business cards:

1. From Windows Explorer, My Bluetooth Places, right-click the PIM Item Transfer service on a remote device and select the appropriate option.

or In the Windows system tray, right-click the Bluetooth icon, select Quick Connect Business Card Exchange, select a device from the list, select the appropriate option from the shortcut menu, and then click OK.

2. From Windows Explorer, My Bluetooth Places, highlight the PIM Item Transfer service on a remote device, and then, from the Bluetooth menu on the Windows menu bar, select the appropriate action.

In addition to the business card options listed above, you can also send Notes (*.vnt), Email (*.vmg) and Calendar (*.vcs) items from this menu.

3. From within a supported Personal Information Manager, select one or more items and then, from the PIM's File menu, select Send to Bluetooth.

Whether sent items are accepted by the remote device is determined by how the remote device's PIM Item Transfer service is configured.

Close a PIM Item Transfer Connection

This application closes the open connection automatically when its task is complete.

Configure PIM Item Transfer

The Bluetooth Configuration Panel > Client Applications > PIM Item Transfer > General tab provides options to configure:

- Click the application name to change it, highlight the existing name and enter the new name.
- Enable or disable secure connection. To enable secure connection, place a checkmark in the box.
- How your business card is handled when it is requested by a remote device. The Send My Business Card options are:

Choose a business card as needed-each time a remote device requests your business card you must select a card from your PIM. If you ignore the request the remote device will receive a timeout notice.

Always send the same business card-when this option is selected a dialog appears that allows you to set a default business card, which will be sent automatically when requests are received.

Where to store received business cards. The Received Business Cards options are:

Microsoft Outlook

Outlook Express

Lotus Notes

NOTE: The selected Received Business Cards option does not influence the settings on other PIM-related property pages.

For example, even if the PIM Item Transfer *service* business card option on this computer is configured to "Do Not Accept", the PIM Item Transfer *application* will still accept business cards that the application has specifically requested via its "Receive" or "Exchange" functions.

Email attachments. The only option is include or do not include attachments with email that is sent or received on this computer using this service.

3.7. PIM Synchronization setting

Overview

The PIM Synchronization Application is used to synchronize the Personal Information Manager (PIM) database of this computer with the PIM database of a remote Bluetooth device.

The supported PIMs are:

- Microsoft Outlook
- Microsoft Outlook Express
- Lotus Notes.

The supported data types are:

- Business cards
- Calendar items
- Email (with or without attachments)
- Notes.

Configure PIM Synchronization

The Bluetooth Configuration Panel > Client Applications > PIM Synchronization > General tab provides options to configure:

- The application name- to change it, highlight the existing name and enter the new name.
- Enable or disable secure connection. To enable secure connection, place a checkmark in the box.
- The PIM items to be synchronized and the PIM on this computer with which those items should be synced.

NOTE: If synchronization is enabled for a specific item type, but is not enabled for that item type on the remote device, synchronization WILL NOT take place for that item.

The data item types which can be synchronized are:

- Business cards
- Calendar items
- . Email (with or without attachments-see below)

Notes

Possible synchronization options for each of these data item types include:

Do Not Synchronize-this item type will not be synchronized

Synchronize Microsoft Outlook-this item type will be synced with its matching entry in Microsoft Outlook, regardless of the PIM that contains this entry on the remote device. If a matching Outlook entry does not exist, it will be created

Synchronize Outlook-Express-this item type will be synced with its matching entry in Express, regardless of the PIM that contains this entry on the remote device. If a matching Express entry does not exist, it will be created

Synchronize Lotus Notes-this item type will be synced with its matching entry in Lotus Notes, regardless of the PIM that contains this entry on the remote device. If a matching Notes entry does not exist, it will be created.

NOTE: All choices are not available for all items. For example, Notes items can only be synchronized in Microsoft Outlook, therefore Lotus Notes and Outlook Express do not appear as options in the "Notes" item shortcut menu.

Personal Information Managers that are not installed on this computer do not appear as options in the shortcut menus.

Email attachments. The only option is include or do not include attachments with email that is sent or received on this computer using this service.

3.8. Serial port setting

The Bluetooth Serial Port service allows two Bluetooth devices to establish a wireless connection through virtual communications ports and then use that connection as if it were a hardwired serial cable between the devices.

To establish a Bluetooth serial port connection:

Connections are initiated from the client:

1. On the client, in the Folders pane of "My Bluetooth Places", select "Entire Bluetooth Neighborhood".

2. In the right pane of "Entire Bluetooth Neighborhood", right-click anywhere except on a device name and select "Refresh" from the pop-up menu.

3. In the Folders pane of "**My Bluetooth Places**", right-click the server you want to establish a connection with and select "**Discover Available Services**" from the popup menu to update the available services list. The available services will be displayed in the right pane of "**My Bluetooth Places**".

4. In the right pane of **"My Bluetooth Places"**, double-click **"Bluetooth Serial Port"**. A dialog box appears that contains the communications port number assigned to this connection by the client. The application that will use this connection must be configured to send data to this port.

Depending on the security configuration, the dialog box that provides communications port information may not appear until after Authentication and Authorization have been accomplished.

The application on the server must be configured to use the correct communications port. **To determine the communications port being used by the service:**

* On the server, in the Folders pane of "My Bluetooth Places", right-click "My Device" and select "Properties" from the pop-up menu

* In the "Bluetooth Configuration Panel", select the "Local Services" tab.

* Double-click the **"Bluetooth Serial Port"** service to display its **"Service Properties"** dialog box. The **"Service Properties"** dialog box shows the communications port the connection is using.

To close a Bluetooth serial port connection

Connections are normally closed from the client:

* On the client, in the Folders pane of **"My Bluetooth Places"**, select (highlight) the device that is providing the **"Bluetooth Serial Port"** service.

* In the right pane of "My Bluetooth Places", right-click "Bluetooth Serial Port" and then select "Disconnect Bluetooth Serial Port" from the pop-up menu. Though not recommended, connections can also be closed from the server:

* On the server, in the Folders pane of **"My Bluetooth Places"**, select (highlight) **"My Device".**

* In the right pane of "**My Bluetooth Places**", right-click "**Bluetooth Serial Port**" and then select Stop to close the service. The service must be re-started before it will be available to remote devices (right-click Bluetooth Serial Port and select Start from the pop-up menu).

3.9. ActiveSync setting

ActiveSync setting for Windows

1.Right-click on *Bluetooth Configuration* icon from the toolbar in the desktop window. Select *Setup* and then open *Configuration* window.

2. Select *Local Service* tab from the Bluetooth Configuration window. In the *Service Properties* window, please learn by heart the current COM port this computer uses, for example: COM 6, in order to identify this value with the configuration of Microsoft ActiveSync later.

Sluetooth Configuration				<u>?</u> ×
General Accessibility Discov	ery Loca	Services ClientApp	lications Hardware	
Select the services that this con Double-click a service name to	mputer will o set its se	l provide to other Bluet curity, start-up options	ooth devices. and properties.	
Service Name	Startup	Secure Connection	COM Port	
Audio Gateway Headset PIM Synchronization Fax File Transfer PIM Item Transfer Dial-up Networking Network Access	Auto Auto Auto Auto Auto Auto Auto	Not Required Not Required Required Required Not Required Required Required		
Bluetooth Serial Port	Auto	Required	COM6	
Progerties		Add Se	erial Service	e
	ОК	Cancel	Apply H	lelp

3.In the *Microsoft ActiveSync* window, select *Connection Settings...* from drop-down list of File menu.

🚳 Microsoft ActiveSync	
File View Tools Help	
Synchronize Stop	plore Options
Mobile Device Explore Delete Partnership	s 🔂
Get Connected Connection Settings	
Close	s

4. Choose the same COM port. (in this case, it is COM 6 that Bluetooth Serial port uses shown in the Step 2.)

Connection Settings
I Click Get Connected to connect your mobile device to this computer.
Status: Waiting for device to connect Get <u>Connected</u>
Allow serial cable or infrared connection to this COM port:
СОМ6
Status: COM port is not available
Allow USB connection with this desktop computer.
Status: USB is available
Allow <u>n</u> etwork (Ethernet) and Remote Access Service (RAS) server connection with this desktop computer.
Status: Network is available
Status icon
I▼ Show status jcon in Laskbar.
OK Cancel Help