Background

This document explains how to connect Blackberry mobile phones to a WPA2/Enterprise security enabled Wi-Fi networks.

Requirements

Blackberry mobile with Wi-Fi capabilities and latest firmware (5.x or better)

Blackberry Desktop Manager 5.0 or better

Connectivity between Laptop/PC and mobile over USB/Bluetooth

Step 1: Obtaining the RADIUS Server certificate.

Open <u>http://mywifi.airtelbroadband.in</u> in your browser.

Download the RADIUS Server Certificate to your desktop. The certificate should be a file with a ".der" extension.

Double click on the .der file, and it should show the details of the certificate:

Certificate					
General Details Certification Path					
Certificate Information					
This CA Root certificate is not trusted. To enable trust, install this certificate in the Trusted Root Certification Authorities store.					
Issued to: 802.1x CA Certificate					
Issued by: 802.1x CA Certificate					
Valid from 01-01-2009 to 30-12-2018					
, Install Certificate Issuer <u>S</u> tatement Learn more about <u>certificates</u>					
ОК					

Before proceeding check the following:

- 1. Validity Period: The certificate should be current.
- 2. Issued To & By: The certificate should by "Airtel Secure Wi-Fi Certificate Authority"
- 3. Date and time on your Blackberry: The date and time should be correct. If it is outside the certificate validity period, then the authentication will not succeed despite having correct username and password.

Step 2: Copying the certificate to the Blackberry mobile.

Connected - BlackBerry Desktop Manager SlackBerry. BlackBerry® Desktop Manager Main Menu Options
Help Application Loader Backup and Restore Media Back up or restore your device Manage and transfer multimedia Update, add, or remove device files to your BlackBerry device. applications data Device Switch Wizard Synchronize IP Modem Transfer data from a BlackBerry® device or other device to a Change options for synchronizing Set up your BlackBerry® device as a wireless IP Modem for Internet email messages and organizer lackBerry device. data access Synchronize Certificates Synchronize your certificates and private keys Device connected (PIN): BlackBerry 8320

Start Blackberry Desktop Manager Application:

When the Blackberry Desktop Manager starts, make sure it connects to your phone. Please see your mobile phone manual on how to do this.

Once the application is open and phone is connected, click on the "Synchronize Certificated" link. If this link does not appear then the application was not installed with this option during initial setup. Please re-run setup if this link is missing.

The Synchronize Certificate tool requires accessing the mobile phones certificate repository. This repository is password protected.

If you are doing this activity for the first time, the tool will prompt you to set a new password. Keep this password secure. If you have already set the password for the certificate store on the phone, the tool will prompt you for the password as shown in the figure below:

🖽 W	Norking - BlackBerry Desktop Manager	i Ang	page 10			
-	Certificate Synchronization - Connected	a a Marager				
	Personal certificates Other people's certificates Int	ermediate certificates	Root certificates			
	💭 🐺 Certificate label Subj	ect Is:	suer	Serial number	Certificate source	
		Please enter yo	our key store password (1	/10):		
		Synchronize	Import certificate	Options	Exit	Help
Loa	ading certificates					

Enter the password for the security store.

The following screen shows the certificate list as stored in the Blackberry mobile:

Certificate S	Synchronization - Connected	and the second second			And in case	
Personal certi	ficates Other people's certificate	s Intermediate certificates	Root certificates			
	Certificate label	Subject	Issuer	Serial number	Certificate source	*
ার রে র র র র র র র র র র র র ১ ১ ৫ ৬ ৩ ৩ ৫ ৫ ৫ × ৫ ৫ ৫	Equifax Secure Global eBusi Comodo UTN USERFirst Har Comodo UTN USERFirst Clie VeriSign/RSA Secure Server GTE CyberTrust Global Root Entrust.net Secure Server CA VeriSign Class 2 Public Prima GlobalSign Root CA 2014 Thawte Server CA Entrust.net Client CA Certicom MobileTrust RSA R GlobalSign Root CA 2021 Thawte Premium Server CA Equitax Secure eBusiness C	Equifax Secure Global UTN-USERFirst-Hard UTN-USERFirst-Client Secure Server Certific GTE CyberTrust Globa Entrust.net Secure Ser Class 2 Public Primary GlobalSign Root CA, Server-certs@thawte.c Entrust.net Client Certif Certicom B GlobalSign, GlobalSig premium-server@thaw Equifax Secure eBusin	Equifax Secure Global UTN-USERFirst-Hard UTN-USERFirst-Client Secure Server Certific GTE CyberTrust Globa Entrust net Secure Ser Class 2 Public Primary GlobalSign Root CA, Server-certs@thawte.c Entrust.net Client Certif Certicom B GlobalSign, GlobalSig premium-server@thaw Equifax Secure eBusin	01 44BE 0C98 500 44BE 0C98 500 02AD 667E 4E4 01A5 374A D243 2D1B FC4A 178 0200 0000 0000 01 3803 91EE 01 0400 0000 0001 01 04	Windows Root Store Windows Root Store Windows Root Store Windows Root Store Windows Root Store Windows Root Store Device Windows Root Store Device Windows Root Store Device Windows Root Store Windows Root Store Windows Root Store	
		Info@valicert.com, htt	Inro@valicert.com, htt	01	Windows Hoot Store	-
		Synchronize		Dptions	E <u>x</u> it	<u>H</u> elp
Finished loadin	g certificates					ii.

To import the certificate, click on the Import Certificate button on the bottom of the screen. The File dialog will show you a list of files and folders. Traverse to the folder containing the .der certificate and select the certificate.

Once you have selected the certificate, the imported certificate should show in the Root Certificates list as shown below. The certificate name will match the one shown in the certificate Issued By and To labels.

🔢 Certificate S	Synchronization - Connected	trape .				
Personal certi	ficates Other people's certificate	s Intermediate certificates	Root certificates			
	Certificate label	Subject	Issuer	Serial number	Certificate source	*
র র র র র র র র র র র র র < 	VeriSign Class 3 Root (G3) GTE CyberTrust Root RSA Root CA 1024 GeoTrust Universal CA for UTI GeoTrust Global CA Comodo AAA Certificate Serv Entrust.net Global Secure Se GeoTrust Universal CA Equifax Secure Certificate Au Aittel Secure W/Fi Certificate Comodo AddTrust External C Go Daddy Valicert Class2 Root	VeriSign Class 3 Publi GTE CyberTrust Root RSA Security 1024 V3 GeoTrust CA for UTI, GeoTrust Global CA, AAA Certificate Servic Entrust.net Secure Ser GeoTrust Universal C Equifax Secure Certific Airtel Secure WiFi Cert. AddTrust External CA info@valicert.com, htt	VeriSign Class 3 Publi GTE Cyber Trust Root RSA Security 1024 V3 GeoTrust CA for UTI, GeoTrust Global CA, AAA Certificate Servic Entrust.net Secure Servic Equifax Secure Certific Aittel Secure WiFi Cert. AddTrust External CA info@valicert.com, htt	0098 7E06 43A 01A3 0A01 0101 0000 01 0234 56 01 3898 113C 01 35DE F4CF 00 01 01	Windows Root Store Windows Root Store Device Windows Root Store Windows Root Store Device Windows Root Store Windows Root Store Windows RIM Imported Store Windows Root Store Windows Root Store	ш
☑ 🗸	Entrust.net CA (2048)	Entrust.net Certificatio	Entrust.net Certificatio	3863 B966	Windows Root Store	
	Go Daddy GD Class2 Root VeriSign Class 3 Root (G2)	Go Daddy Class 2 Cert VeriSign Trust Networ	Go Daddy Class 2 Cert VeriSign Trust Networ	00 7DD9 FE07 CFA	Windows Root Store Windows Root Store	-
		Synchronize	Import certificate	ptions	E <u>x</u> it	<u>H</u> elp
inished loading certificates						

Once the certificate is listed, click on the Synchronize button. The Blackberry Desktop Manager will start to synchronize the certificates.

Persor	nal certil	ficates Other people's certificates	Intermediate certificates	Root certificates			
9							
	<u>.</u>	Certificate label	Subject	Issuer	Serial number	Certificate source	^
র র	✓ ×	VeriSign Class 3 Root (G3) GTE CyberTrust Root RSA Root CA 1024	VeriSign Class 3 Publi GTE CyberTrust Root, RSA Security 1024 V3	VeriSign Class 3 Publi GTE CyberTrust Root, RSA Security 1024 V3	0098 7E06 49A 01A3 0A01 0101 0000	Windows Root Store Windows Root Store Device	
ব ব ব	? *_	GeoTrust Universal CA for UTI GeoTrust Global CA Comodo AAA Certificate Serv	Ge Ge A4	Confront Station in	100.00	Device Windows Root Store Windows Root Store	
<u>।</u> र	?	Entrust.net Global Secure Se GeoTrust Universal CA	Er Synchronizing C Ge	Certificates		Device Windows Root Store	
	2	Airtel Secure WiFi Certificate	Δir			Windows RIM Imported Store	
5	2	Comodo AddTrust External C	AddTrust External CA	AddTrust External CA	01	Windows Root Store	
	2	Go Daddy Valicert Class2 Boot	info@valicert.com.htt	info@valicert.com.htt	01	Windows Boot Store	
	1	Entrust net CA (2048)	Entrust net Certificatio	Entrust net Certificatio	3863 B966	Windows Boot Store	
	× -	Go Daddy GD Class2 Root	Go Daddy Class 2 Cert	Go Daddy Class 2 Cert	00	Windows Root Store	
	<	VeriSign Class 3 Root (G2)	VeriSign Trust Networ	VeriSign Trust Networ	7DD9 FE07 CFA	Windows Root Store	-
			Synchronize	Import certificate	Options	Exit	<u>H</u> elp

As soon as the Blackberry Desktop Manager starts, it will prompt the certificate store password. Please enter the correct password for the operation to complete.

You can now disconnect your phone from the Desktop Manager and un-plug the USB cable.

Step 3: Configure the Wi-Fi network on the Blackberry Mobile

On the Blackberry Applications, navigate to the "Manage Connections":



Select "Set Up Wi-Fi Network":



Scan for the Wi-Fi network you wish to connect to:



Back

You will be presented with the list of SSIDs that are visible to the mobile:



Select the SSID and press the action button to configure the network:

Wi-Fi Security	
Security Type:	PEAP
User name: User password: CA certificate: Inner link security: Token: Server subject: Server SAN:	<none selected=""> AUTO <none selected=""></none></none>



You will need to enter the following:

- 1. User name: This is the WPA2/Enterprise User name provided to you by your Wi-Fi provider
- 2. User password: This is the password for the User name.
- 3. CA certificate: Select the CA certificate imported in step 2.

4. Inner link security: Change from Auto to EAP-MS-CHAP v2

After configuration, your screen should like as follows:

Wi-Fi Security	
Security Type:	PEAP
User name: zappy User password: **	y1 *****
CA certificate: Airtel Se	ecure WiFi Certifi ?
Inner link security Token:	y: EAP-MS-CHAP v2 <none selected=""></none>
Server subject:	
Back	Connect

Click on the connect button. The screen should be as follows:



Connecting to blackberry ...

Cancel

If the connection is successful, the Wi-Fi manager will prompt you to store the profile for future use:

Connection Successful! Save this Wi-Fi Network as a Profile? Yes Profile Name: blackberry (Home, Work, etc...)

Back Next

Save the profile and click on Finish in the next screen. The WiFi icon on the top should be visible and enabled, and the Wi-Fi network selected in the previous screen should be shown as well.

8:19 EDGE T-1 FRI, APR 2 F 4 27 AirTel - blackberry 🔄 Messages (27 Unread) Calendar A 🕼 Call Log Q. Se Applications