SETU VFXTH
Quick Start

MATRIX
TELECOM SOLUTIONS
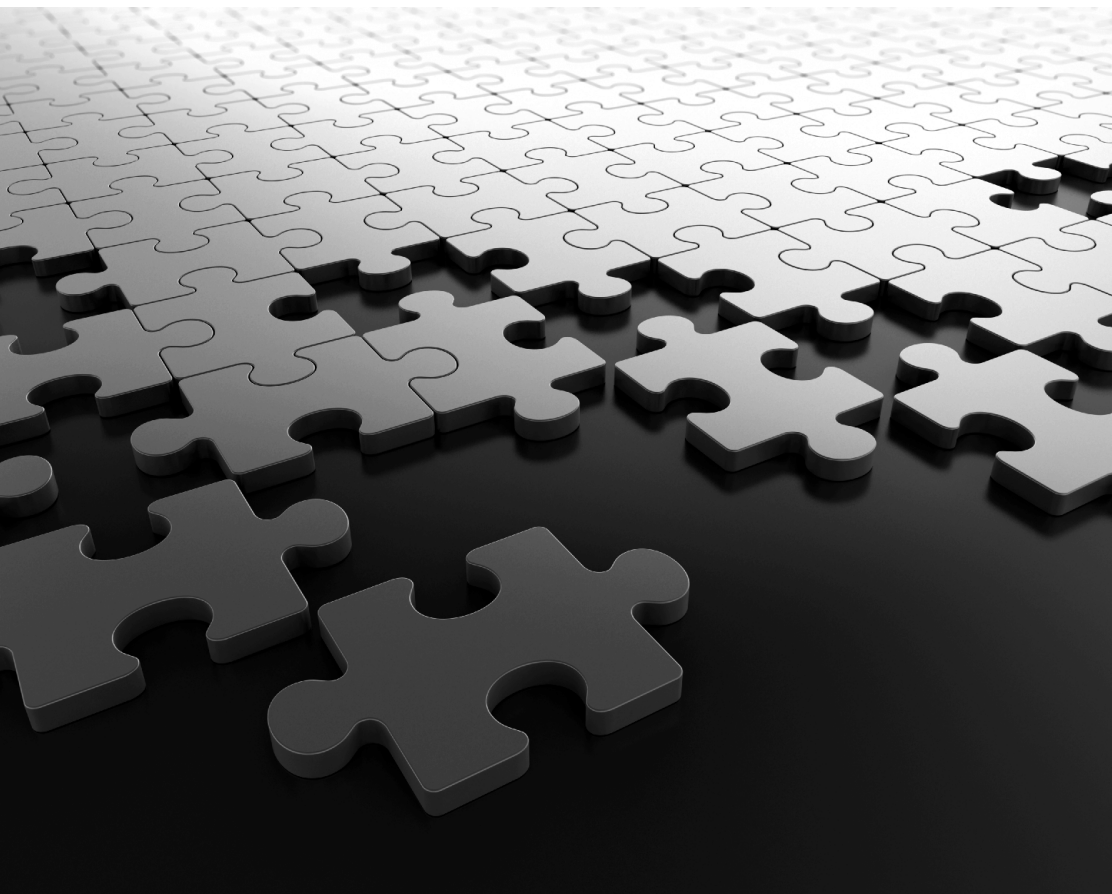
SETU VFXTH

Multi-Port SIP based VoIP to FXO-FXS Gateway

Quick Start

Documentation Disclaimer

Matrix Comsec reserves the right to change, at any time, without prior notice, the product design, specifications, components, as engineering and manufacturing may warrant.

This is a general documentation for all models/configurations of the product. The product may not support some of the features/facilities described in this document.

While every reasonable effort has been made to ensure accuracy of content in this document, Matrix Comsec assumes no responsibility for errors or omissions that may occur herein. No liability is assumed for damages, costs, expenses resulting from unauthorized modifications or repairs to the product; failure to use information or to comply with the installation, operation and maintenance instructions contained in this document.

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Version V2
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CE   RoHS
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Contents

Know Your SETU VFXTH

Thank you for choosing the Matrix SETU VFXTH. Please read the instructions in this Quick Start to install and operate your SETU VFXTH properly.

This Quick Start is meant to help you install and configure the basic parameters of the system. For advanced configuration and feature description, please refer the System Manual. To download, click https://www.matrixtelesol.com/product-manuals.html

You can also view and download the manual by scanning the QR code printed on the Product Label/Packaging Label.

For product registration and warranty related details, please visit https://www.matrixcomsec.com/product-registration-form.html

Overview

SETU VFXTH is available in the following configurations:

Sr.NO.	Configuration	SIP Trunks	FXO Ports	FXS Ports	Physical Port Labels	
					FXO	FXS
1	SETU VFXTH0016	16	0	16	0	P01-P16
2	SETU VFXTH0024	24	0	24	0	P01-P24
3	SETU VFXTH0032	32	0	32	0	P01-P32
4	SETU VFXTH1600*	16	16	0	P01-P16	0
5	SETU VFXTH3200	32	32	0	P01-P32	0
6	SETU VFXTH0808	16	8	8	P01-P08	P09-P16
7	SETU VFXTH1616*	32	16	16	P01-P16	P17-P32

* SETU VFXTH1600 and SETU VFXTH1616 has been discontinued. However, software support is still provided through Jeeves for the users who have already installed it.

SETU VFXTH0032

Reset Button   **Ethernet Port**   **P01 to P32 FXS Ports**   **FAN**   **Power Adapter**
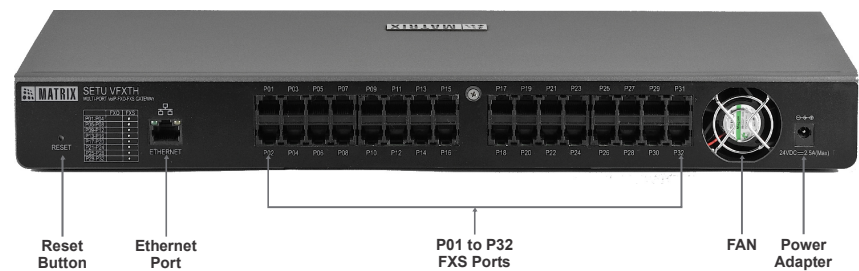
Ports and Connectors

System Status	Color	STS
Reset Button	---	To restart the system or to restore the default IP Address.
Ethernet	RJ45	To connect to the IP network over a DSL Modem or Router or a LAN Swtich.
P01 to P32[a] (FXS Ports)	RJ11	To connect standard telephone instruments, or a Fax Machine or a PBX.
24VDC-2.5A(Max)	DC Jack	To connect 24VDC, 2.5A power adapter.

a. If your SETU VFXTH supports only FXO Ports (SETU VFXTH3200), P01 to P32 will be used to connect PSTN lines or a PBX. However, if you system supports both FXO and FXS Ports (SETU VFXTH0808) then P01 to P08 (FXO Ports) will be used to connect PSTN lines or a PBX and P09 to P16 (FXS Ports) will be used to connect telephone instruments or a Fax Machine or a PBX.

LEDs[1]

SETU VFXTH0032 has a Power LED (PWR), a Status LED (STS) and 32 FXS Port LEDS (P01 to P32). The LEDs indicate the status of the ports, and various events occurring on the ports, including errors.

LED	Description	Color
PWR	Power LED. Turns on when power is supplied.	Single color
STS	System LED. Blinks to indicate health of the system.	Dual color
P01 to P32	Power LED. Turns on when power is supplied.	Single color

SETU VFXTH is easy to install and operate. The built-in web server, JEEVES, allows you to configure the system parameters and features On-site as well as from a remote location.

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1. *Depending on the configuration of your SETU VFXTH, the number of FXS/FXO Port LEDs may vary.*

Installing SETU VFXTH

Before You Start

• Select a suitable location to mount SETU VFXTH.

• Keep the following ready:
    • Necessary telecom wiring as well as cable.
    • A standalone PC to access the web based configuration tool, *Jeeves*.
    • A SIP Account information to test VoIP connectivity.
    • An active trunk line from the PSTN, if required.
    • Any standard telephone instrument, if required.

• Do not install this product near any area where,
    • it is exposed to direct sunlight, heat, excessive cold or humidity, dust, oil, corrosive fumes.
    • there is a water source (wash basin, tub, shower, pool, sprinkler, etc.)
    • there is source of electromagnetic noise such as radio equipment, heavy transformers, faulty electric chokes of tube-lights, device having a faulty coil.

• Ensure proper electrical earth and telecom earth for the safety of the product and persons handling it.

• Always wear an electro static discharge preventive wrist wrap or belt and use a grounding mat when handling the product and its parts.

• Battery: SETU VFXTH contains 3.3V DC Manganese Lithium Battery (ML 2032- Rechargable) of diameter 20 (-0.2)mm and height 3.2 (-0.3)mm. Battery should be replaced only by authorized dealers of Matrix. There is a risk of explosion if the Battery is replaced in an incorrect manner. Please dispose-off used Batteries.

Getting Started

Package Contents

• Unpack the SETU VFXTH package and check the package contents:
    • SETU VFXTH Unit
    • Power Adapter - 24VDC, 2.5A (Country Specific)
    • Ethernet Cable (RJ45)
    • Two Screws M7/30 with grips
    • Two 19 inch Rack Mounting Clamps
    • Mounting Template
   • Warranty Card Set

If any of these items is missing or damaged, please contact the dealer/reseller from whom you purchased the system.

- Place the system at the selected site.

  If you are mounting the system on a wall, refer to the mechanical dimensions of the product and use the mounting template for drilling holes on the wall.

Connecting SETU VFXTH

SETU VFXTH0032 has 1 Reset Button, 1 Ethernet (WAN) Port, 32 FXS Ports, 32 SIP Trunks, a Power Socket and 34 LEDs. Depending on the configuration, the number of FXO Ports, FXS Ports and LEDs may vary.
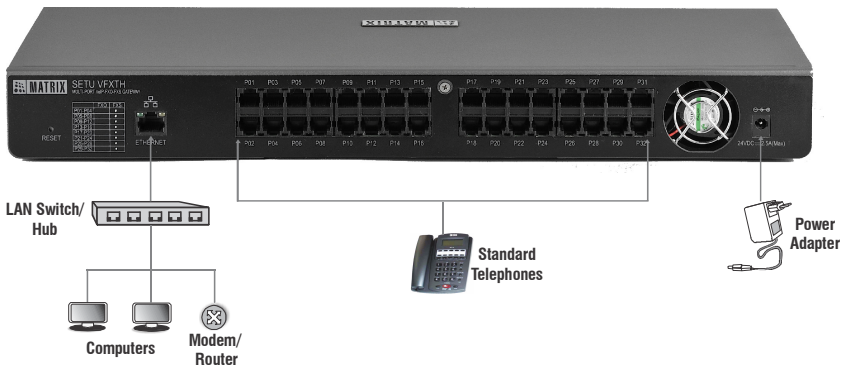
If your SETU VFXTH supports only FXO Ports (SETU VFXTH3200), P01 to P32 will be used to connect PSTN lines or a PBX. However, if you system supports both FXO and FXS Ports (SETU VFXTH0808) then P01 to P08 (FXO Ports) will be used to connect PSTN lines or a PBX and P09 to P16 (FXS Ports) will be used to connect telephone instruments or a Fax Machine or a PBX.
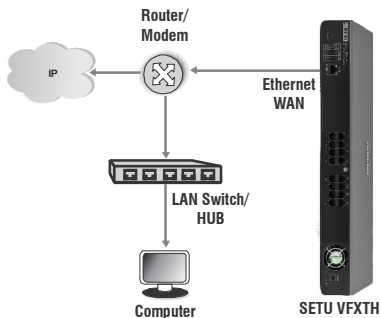
Connecting to the IP Network

Before you connect the system to WAN, we recommend that you first connect a computer to the Ethernet Port of SETU VFXTH, configure the Basic Settings, and then connect to WAN.

- Use the Ethernet cable supplied for the Ethernet Port of SETU VFXTH to connect the system to the Public network or Private Network.
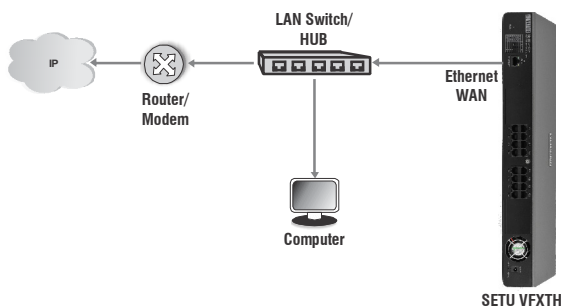
  If connecting to the Public IP Network,

  - Plug one end of the Ethernet cable into the Ethernet Port of SETU VFXTH and the other end into the DSL modem/Router.

If connecting to a Private Network (Behind a NAT Router),

• Plug one end of the Ethernet cable into the Ethernet Port of SETU VFXTH and the other end into the LAN Switch/Hub.

The default IP Address of the Ethernet Port is: **192.168.1.100**

The default Subnet Mask of the Ethernet Port is: **255.255.255.0**

Connecting to the CO Network

• Connect the Trunk Lines from the CO Network to the FXO Ports of SETU VFXTH using standard, good quality, twisted-wire pair of cables with RJ11 plugs.

You may also connect a PBX to the FXO port.

Connecting Telephone instruments

• Connect the analog single line telephone instruments to the FXS ports of SETU VFXTH using standard, good quality, twisted-wire pair of cables with RJ11 plugs.

You may also connect a Fax machine or a PBX to the FXS port.

Powering ON SETU VFXTH

- Connect the power adapter to SETU VFXTH.

- Plug in the power adapter of SETU VFXTH into the power outlet.

- Switch on power supply and wait for the Reset Cycle to complete.

Reset Cycle

The Reset Cycle (Power-ON Self Test) takes about 2 minutes to finish.

LED Indication - Reset Sequence

At Power ON, Power LED will turn ON (Continuous Green). Initialization process will start within 15 to 20 seconds and LED sequence of all other LEDs during initialization process is shown in the table given below:

System Status	Color	STS	P01	P02	P03	P04	P05	P06	….	P32	Time (ms)
Application Load	Red	OFF	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	
All Init Done, System goes Live	Red	ON	ON	ON	ON	ON	ON	ON	ON	ON	1000 ms
		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	1000 ms

- During Off-hook state, FXS Port LED glows Red continuously.

- If the system is in programming mode, the LED of the port used to enter the programming mode glows Green continuously. After exiting programming mode, the LED for that port glows Red (to indicate Off-hook state).

You may now access the web-based programming tool, *Jeeves*, and configure SETU VFXTH.

How to Access Jeeves

SETU VFXTH provides an embedded web server with a Graphic User Interface (GUI), *Jeeves*, for configuration.

To access Jeeves, you will need to connect a computer to SETU VFXTH.

Connecting a Computer

You may connect a standalone computer to SETU VFXTH or grab any computer connected in the same LAN as SETU VFXTH.
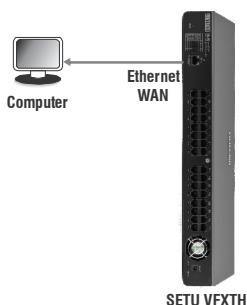
Connect a standalone computer to SETU VFXTH, when installing the system for the very first time. You may connect it to the LAN after you have finished installation and configuration of the system.

To connect a standalone computer,

- Plug one end of the Ethernet cable supplied with the system into the Ethernet Port of SETU VFXTH. Plug the other end into the LAN port of the computer.

- Make sure the IP Address of the computer and the Ethernet Port of SETU VFXTH do not conflict, and that both are in the same Subnet.

  The default IP Address of the Ethernet Port of SETU VFXTH: **192.168.1.100**

  The default Subnet Mask of the Ethernet Port of SETU VFXTH: **255.255.255.0**

- Change the Subnet of the computer, if necessary.

- Make sure a Web-browser, either Internet Explorer version 7 or later or Mozilla Firefox version 3.5 or later, is installed on the computer.
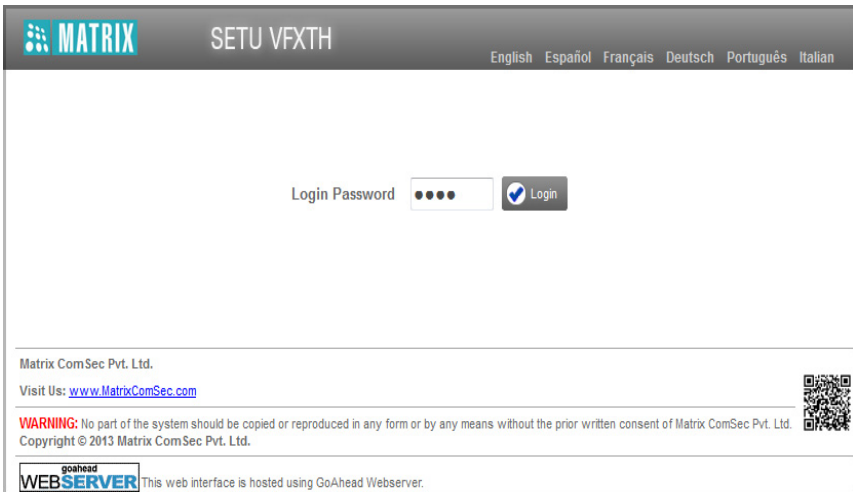
- Open the browser on the computer.

- In the address bar of the browser, enter the default IP address of the Ethernet Port of SETU VFXTH: **192.168.1.100**
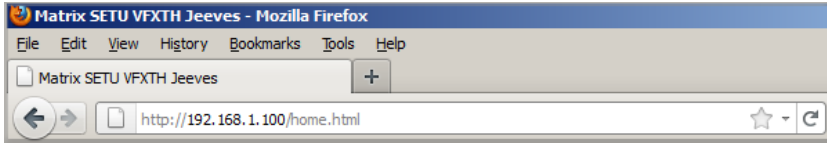
- You will be redirected to the HTTPS protocol for security reasons.
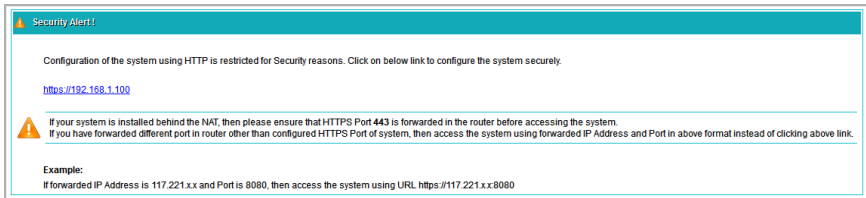
- Click the https://192.168.1.100 link. The **Login** page will open.

- In **Login Password**, enter **1234**, the default SE Password.

- Click the **Login** button.

Before you start configuring the system, if you wish to view or download the *SETU VFXTH System Manual/User Card*, you can scan the QR Code present on the login page of Jeeves.

- You will be prompted to change the default SE Password.

Password Change

Login through default password is not allowed. Change the password to login.

Current Password	
New Password	
Confirm New Password	

Note :

Password must follow following requirements:

Minimum length must be 6 characters.

Password must include atleast 1 uppercase, 1 lowercase , 1 number and 1 special character.

Allowed characters are 0-9, a-z, A-Z, all special characters except %, =, #, +, &, \, <, >, ", ' and space.

✔ Submit

- In **Current Password**, enter the default SE Password.

- Enter the **New Password**. All ASCII characters (except Percentage **%**, Hash **#**, Equal to **=**, Plus **+**, And **&**, Backslash \, Less than **<**, Greater than **>**, Apostrophe **'** , Double Quote **"** and **Space**) and digits **0** to **9** are allowed. The new password must be:
  - a minimum of 6 characters to a maximum of 16 characters.
  - include atleast one upper-case, one lower-case, one number and one special character.

- In **Confirm New Password**, re-enter the new password to confirm.

- Click **Submit**. You will be re-directed to the Login page again.

- In **Login Password**, enter the new password.

As this password is meant for restricting access to the SE mode, we strongly recommend you to:
  - Keep the password secret.
  - Select a complex password that cannot be easily guessed.
  - Change the password regularly. See **Login Password** topic in the System Manual for instructions.

On successful login, the **Home** page opens.

The left navigation bar shows the links **Basic Settings**, **Advanced Settings, Maintenance** and **Status**.
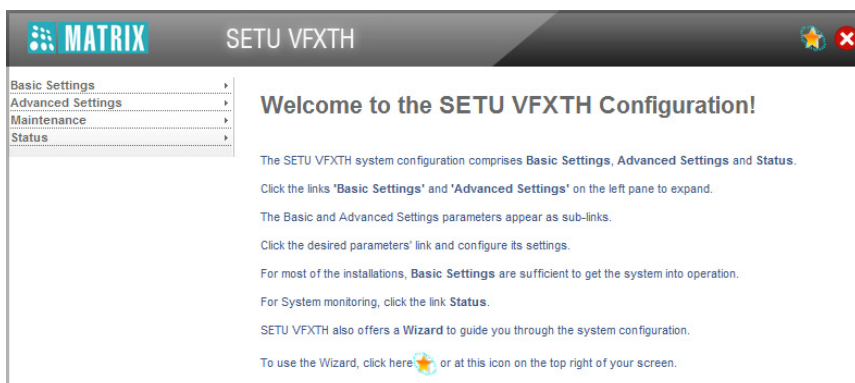
Basic Settings break down the complexities of configuration and are sufficient to get your system into operation.

Advanced Settings enable you to configure the advanced features and facilities of SETU VFXTH.

Maintenance allows you to carry out system maintenance and monitoring activities like uploading configuration and firmware, debug, system restart.

Status allows you to view the system details and status of all the SIP Trunks, FXO Port, Ethernet Port and system's firmware.

• You may now configure the Basic Settings of SETU VFXTH.

Configuring SETU VFXTH

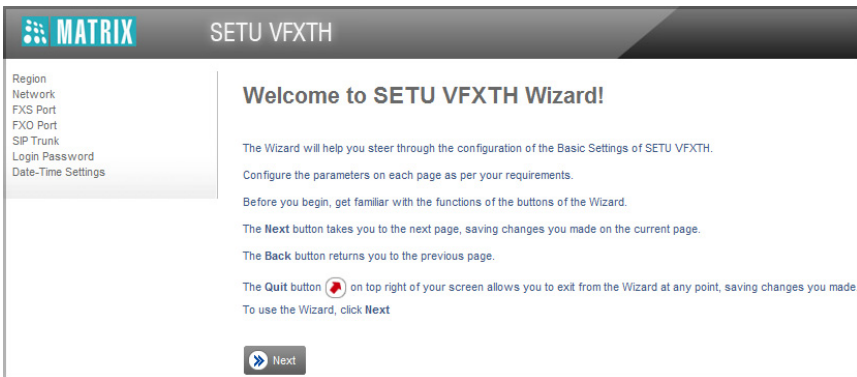There are two ways to do the basic system configuration using Jeeves:

- using the *Wizard*.
  Or
- through Selective Configuration of basic settings.

Using the Wizard

The configuration Wizard leads you step-by-step through the configuration of the basic settings.

To use the Wizard,

- Click the **Wizard** icon ⭐ on the top right of your screen.The Home page of the Wizard opens.


- To navigate the Wizard pages use the **Next** and **Back** buttons.

- When you press the **Next** button, the changes on the current page are saved and the Wizard takes you to the next page.

- When you press the **Back** button, you will be prompted to save changes made on the current page.

- **Expand** ⊞ **:** expands a link on the page to display all the parameters under the link.

- **Collapse** ⊟ **:** collapses a link, hides all the parameters under a link on the page.

- **Settings** → **:** enables you to configure / edit the settings of a parameter further.

- **Default:** assigns factory set values to all the parameters on the page.

- **Add:** enables you to add a new record/entry.

- **Delete:** enables you to delete a record/entry.

- **Close:** enables you to exit a window.

- You may exit the Wizard at any time by clicking the **Quit** button . The changes you made before you exit will be saved.

Using Selective Configuration

You can choose the parameters you want to configure, and the order in which you want to configure. To do this,

- Click the **Basic Settings** link.

- The parameter sub-links appear on the left navigation bar.
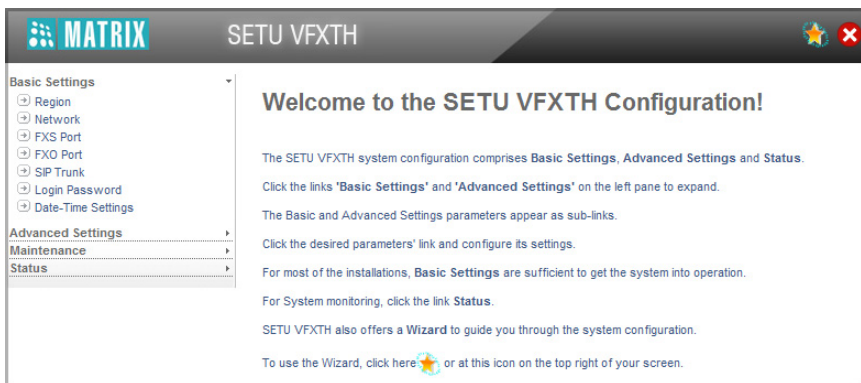
- Click the parameter sub-link you wish to configure.

- The respective parameter page opens.

- Get familiar with the buttons and icons listed below before you begin to change the settings of the parameters on each page.

    - **Expand:** expands a link to display all parameters under the link.

    - **Collapse:** collapses a link; hides all parameters under the link.

    - **Settings**: enables you to configure / edit the settings of a parameter further.

 Logout: enables you to exit Jeeves.

Default: assigns factory set values to all the parameters on the page.

Add: enables you to add a new record/entry.

Delete: enables you to delete a record/entry.

Close: enables you to exit a window.

• Set the parameters on the page to the desired values and click the **Submit** button to save.

You may use the Wizard or selectively configure the Basic Settings pages, whichever works best for you. Read the *SETU VFXTH System Manual* for detailed instructions.

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