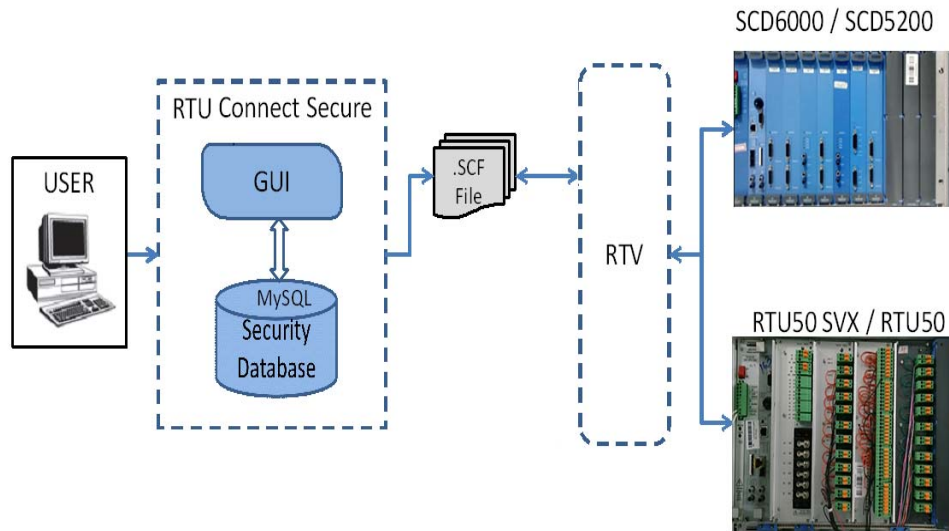


Foxboro RTU Connect Secure

Block Diagram – Foxboro Evo RTU Connect Secure



OVERVIEW

Foxboro RTU Connect Secure is a Windows-based security configuration software that helps centrally manage user authentication in Foxboro SCD6000, RTU50 SVX, Foxboro SCD5200, and RTU50. Foxboro RTU Connect Secure allows system engineers to configure and maintain user credentials across Foxboro remote devices and restricts unauthorized access.

Foxboro RTU Connect Secure generates a Security Configuration File (SCF) for each RTU node. The .SCF file contains the System Use Notification information, user name, user ID, and privilege level of each user. You can download the .SCF file into the RTU using RTV. You can restrict Foxboro RTU Connect Secure to only those users who oversee and administer security. The password-based authentication mechanism helps to prevent unauthorized access to the RTU from RTV.

FEATURES

- ▶ Operates on Windows® 7 (32-bit and 64-bit), Windows® 10 (64-bit), Windows Server® 2008 (64-bit), and Windows Server® 2016 (64-bit) Operating Systems
- ▶ Easy to configure and view user authentication configurations of standalone RTUs, or OptoNet networks of multiple RTUs
- ▶ Users can be assigned to three access privilege levels
- ▶ Users enter valid Windows credentials in the User Authentication window to access the Foxboro RTU Connect Secure application
- ▶ Users can edit or modify the System Use Notification information that is displayed in the RTV while connecting to an RTU in the User Authentication Window

- ▶ Provides a database backup and restore facility for the User Authentication configuration database
- ▶ Graphical User Interface (GUI) provides user-friendly data entry and editing
- ▶ Imports and exports .SCF files to populate the user authentication configuration database

FUNCTIONAL DESCRIPTION

Defining Users

Connect Secure has three access privilege levels:

- Browse
- Maintenance
- Superuser

Access to various diagnostic functions in the RTU is restricted according to the user privilege level.

Table 1 describes the functions and access limitations for each privilege level.

Table 1. User Functions and Access Limitations

Activity	Level 0 Browse	Level 1 Maintenance	Level 2 Superuser
Browse RTU information	Yes	Yes	Yes
Change your password	Yes	Yes	Yes
Upload/modify firmware/configuration/calc files	No	Yes	Yes
Download firmware, CFG, and SALL files	No	Yes	Yes
Format flash file system	No	No	Yes
Reset RTU, change time	No	Yes	Yes
Issue control, change values of various points	No	Yes	Yes
Take port in/out of service	No	Yes	Yes
Configure or remove user authentication (download or delete SCF)	No	No	Yes
View audit trials	No	No	Yes
Add/delete users, assign default password, modify user privilege levels	No	No	Yes
Modify System Use Notification	No	No	Yes

Generating the User authentication Configuration File

To generate the .SCF, define the users and access privileges. Select users for a standalone RTU or a network of RTUs from the list of available users. Then, modify the System Use Notification information and generate the .SCF.

Importing User authentication Configuration File(s)

The .SCF file is in binary format and can be read only by importing it into Foxboro RTU Connect Secure. You can import multiple SCF files for different RTUs at one time.

Maintaining the Database

Configured data can be stored in a single file as a backup copy. The data can be restored from this file using Foxboro RTU Connect Secure.

System Requirements

The minimum system requirements for Foxboro RTU Connect Secure are:

- ▶ Windows® 7 (32-bit and 64-bit), Windows® 10 (64-bit), Windows Server® 2008 (64-bit), and Windows Server® 2016 (64-bit) operating systems
- ▶ 2 GB RAM
- ▶ 1 GB hard disk space for installation files

Foxboro RTU Connect Secure includes the MySQL Database Server that is used as the backend database. This database server requires authentication from RTU Connect Secure to access the data.



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