

Software Security Description Guide

A.1 Description Software

A.1.1 General Software operation description

Software Configuration

The router F@st 3965CV is operating in the 2.4 GHz and 5 GHz bands. It is capable to work as a master device only . The DFS master device operates for the 5 GHz bands. This device has a 20 MHz and 40 MHz bandwidth mode. This DFS feature cannot be disabled by end user.

The user interface is configured for U.S. operation and cannot be reconfigured by end user to operate on non-U.S. channels.

The device is configured at the factory with software that ensures compliant operation. There is no provision for end user to replace the factory software. A digital signature algorithm is used to secure the software. The signature of a software image is checked before it is allowed to run on the product. An incorrectly signed software image is not allowed to run. This mechanism ensures that only software images produced by Sagemcom can run on Fast 3965CV equipment.

Normal Operation

Referring to the block diagram in figure 1, a user connected to the Fast 3965CV by Ethernet or WiFi could configure the equipment. The configuration server provides operational configuration for the radio drivers.

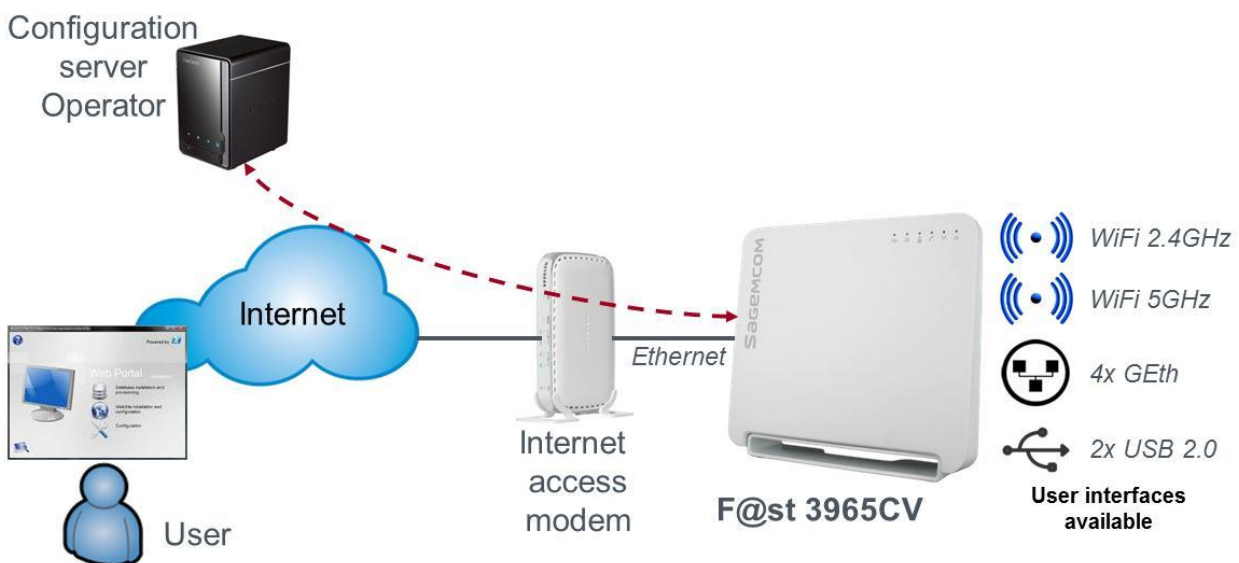


Figure 1

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A.1.2 Radio frequency parameters modified by the software without any hardware changes.

The regulatory domain is written in the EEPROM (factory process) and used by the driver to set the granted frequencies and the maximum power levels. RF Power calibration is done in factory.

The software (Wi-Fi driver) has the ability to modify the following radio parameters:

- Channel bandwidth – 20 or 40 MHz
- Modulation and coding scheme

The end user of the equipment is permitted to:

- Select channel bandwidth – 20 or Auto (Auto select 20 or 40 MHz depending of the available bandwidth)
- Select frequency
- Reduce power output from the maximum permitted by the regulations.
End user can't increase the RF power more than RF power of samples provided for FCC certification.

The software only ever permits the operator to operate within regulatory limits.

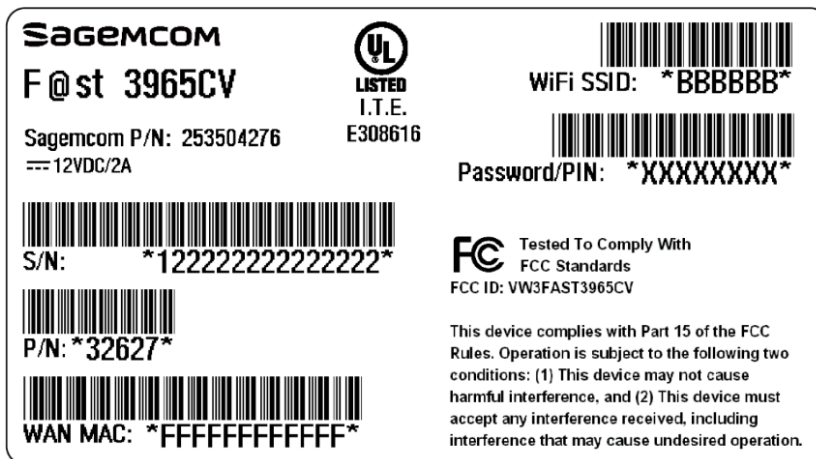
When operating in the 5 GHz band, it is not possible to turn off DFS (radar detection). There is no facility to modify DFS functionality or the detection level. In particular, operation in the band 5600-5650 MHz is permanently barred in the products placed on the market in the USA.

A.2 Labelling

A.2.1 How will the device be labelled?

The device will be fitted with a label on the casing showing the FCC ID “VW3FAST3965CV” . The label also shows the product model name and part numbers.

Details of the label is shown below



A.2.2 Verifying the correct version of software is running

The operational software version is determined by looking at the user GUI. Using any standard web browser, enter the IP address of the unit and examine the Advanced Status page. The software version is listed in the Equipment section, under “Software Version”.

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