



ComProbe 802.11 Firmware Update for CPAS version 15.11.8698.9035

Firmware Update

To take full advantage of the improvements to the ComProbe 802.11 with ComProbe Protocol Analysis System you must update the firmware on the ComProbe.



Note: With the release of ComProbe Protocol Analysis System (CPAS) version 15.11.8698.9035 in December 2015, an update to the firmware is required upon installation of the software. For that version, the full update requires three complete passes through the update process followed by a power cycle of the ComProbe 802.11. Subsequent firmware updates may not require three firmware update cycles. This procedure is designed to take you through one to three firmware update cycles. Follow the procedure carefully, paying attention to jumps around unnecessary steps, and you should have no difficulty updating the firmware.

1. This tab displays the current firmware version in the hardware. You can check for the firmware updates by first noting the current version and then clicking on the **Check For Updates** button.

| I/O Settings | | × | | | | | |
|--|--------------------|-------------------|--|--|--|--|--|
| Settings Status Capture Filt | s Firmware Update | | | | | | |
| Current firmware versions in hardware: | | | | | | | |
| FPGA Version: 2 | 2 | | | | | | |
| Application Version: 0 | Interface Version: | 1.3 | | | | | |
| | | Check For Updates | | | | | |
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| | au 1 | | | | | | |
| | <u>OK</u> | Cancel Help | | | | | |

Figure 1 - 802.11 I/O Settings Firmware Update Tab

2. The **Check for Updates** dialog will open. If an update is available you can install it by clicking on the **Start Update** button.



| eck For Updates | _ | | | — × |
|--------------------------------------|--------------------|---------------------|-------------------|------------|
| Firmware Update File(s) | Image Type | File Version(s) | H/W Version(s) | |
| comprobe 80211 fpga revC.fwu | FPGA Image | 2.9 | 2.9 | |
| comprobe_80211_app_revC.fwu | APP Image | 0.7/1.3 | 0.4/1.3 | |
| comprobe_80211_flf_revC.fwu | FLF image | 0.4 | | |
| comprobe_80211_pex8604_revC.fwu | PEX8604 image | 0.4 | | |
| comprobe_80211_ath_revC.fwu | ATH image | 0.4 | | |
| comprobe_80211_ath9k_revC.fwu | ATH9K image | 0.4 | | |
| comprobe_80211_ath9k_hw_revC.fwu | ATH9K HW image | 0.4 | | |
| comprobe_80211_ath9k_common_revC.fwu | ATH9K COMMON image | 0.4 | | |
| comprobe_80211_pch_udc_revC.fwu | PCH UDC image | 0.3 | | |
| comprobe_80211_g_packet_revC.fwu | G PACKET image | 0.2 | | |
| Warning/Error Fle | Description | | | |
| and motorial comprocedurational even | 196 (ESSOI(257)) | sanc as contently a | autor ny record n | |
| | | | | |

Figure 2 - 802.11 I/O Settings Firmware Check For Updates

- 3. When the update is complete, two situations can occur.
 - a. If more firmware updates are required the following dialog will appear. Click on OK, and continue to step 4.

| ComProbe | 802.11 DataSource | X |
|----------|--|---------------|
| À | There are additional firmware updates required. After the de check for firmware updates again. | evice resets, |
| | | OK |



- b. If there are no more firmware updates, continue to step 15.
- 4. Click **OK** on the **Check for Updates** dialog.
- 5. Click **Cancel** on the **I/O Settings** dialog **Settings** tab . The ComProbe 802.11 will reset. Wait for a solid **Activity** LED on the ComProbe hardware .
- 6. Once the ComProbe 802.11 has reset, select **I/O Settings** from the Control Window **Options** menu.
- Click on the I/O Settings dialog Firmware Update tab and then click on the Check for Updates button. The Check for Updates dialog will appear.



Whitepaper: 802.11 Firmware Update

| Ch | eck For Updates | | | | | |
|----|--|---------------------------|---------------------|-----------------------------|------------------------|--|
| | | | | | | |
| | Firmware Update File(s) | Image Type | File Version(s) | H/W Version(s) | | |
| | comprobe_80211_fpga_revC.fwu | FPGA Image | 2.9 | 2.9 | | |
| | comprobe_80211_app_revC.fwu | APP Image | 0.7/1.3 | 0.4/1.3 | | |
| | comprobe_80211_flf_revC.fwu | FLF image | 0.4 | | | |
| | comprobe_80211_pex8604_revC.fwu | PEX8604 image | 0.4 | | | |
| | comprobe_80211_ath_revC.fwu | ATH image | 0.4 | | | |
| | comprobe_80211_ath9k_revC.fwu | ATH9K image | 0.4 | | | |
| | comprobe_80211_ath9k_hw_revC.fwu | ATH9K HW image | 0.4 | | | |
| | comprobe_80211_ath9k_common_revC.fwu | ATH9K COMMON image | 0.4 | | | |
| | comprobe_80211_pch_udc_revC.fwu | PCH UDC image | 0.3 | | | |
| | comprobe_80211_g_packet_revC.fwu | G PACKET image | 0.2 | | | |
| | Warning/Error File | Description | | | | |
| | Informational comprobe 80211 fpga revC | fwu File Version (2.9) is | same as currently i | installed H/W version (2.9 |) | |
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Figure 4 - 802.11 I/O Settings Firmware Check For Updates, second cycle.

- 8. Click the **Start Update** button.
- 9. Again, when the update is complete, two situations can occur.
 - a. If there are more firmware updates the following dialog will be displayed. Click on **OK** and continue to step 10.



Figure 5 - 802.11 I/O Settings Check for Updates Again, third cycle.

- b. If there are no more firmware updates, continue to step 15.
- 10. Click OK on the Check for Updates dialog.
- 11. Click **Cancel** on the **I/O Settings** dialog **Settings** tab. The ComProbe 802.11 will reset. Wait for a solid **Activity** LED on the ComProbe hardware .
- 12. Once the ComProbe 802.11 has reset, select **I/O Settings** from the Control Window **Options** menu.
- 13. Click on the **I/O Settings** dialog **Firmware Update** tab and then click on the **Check for Updates** button. The **Check for Updates** dialog will appear again.



| Ch | eck For Updates | | | | | | | × |
|----|--|----------------------|---------------------------|-----------------------|---------------------------|--------------|----|--------|
| | Firmware Update Fi comprobe_80211_a | le(s) pp_revE.fwu | Image T File APP Image | Version(s) 1.1/1.4 | H/W Version(s) 1.0/1.4 | | | |
| | Warning/Error | File | Description | | | | | |
| | | | | | | | | |
| | | | | | | Start Update | ОК | Cancel |

Figure 6 - 802.11 I/O Settings Firmware Check For Updates, third cycle.

- 14. Click the **Start Update** button.
- 15. When the update is complete the **OK** button will be enabled. Click the **OK** button.
- 16. When the **I/O Settings** dialog appears, click the **OK** button. The ComProbe 802.11 will reset. Reset is complete when the ComProbe 802.11 unit serial number appears in the Control Window Configuration Information.

| ComProbe Pro | stocol Analysis System - 802.11 | |
|--------------------|--|-----|
| File View Liv | e Options Window Help | |
| 🚰 🀝 🔴 | 💷 🔜 💥 🔎 🖭 🗽 🔂 📨 | |
| Configuration: Com | Probe 802.11 [SN: 0142110001] | |
| | | |
| Capture Status: 🥊 | Not Active (Capture to Single File) N/A used Packets on h/w: 0 | |
| For Help Press F1 | | .41 |

Figure 7 - ComProbe 802.11 Unit Reset Complete Indication

17. Remove power from the ComProbe 802.11 unit, and then reapply power. Wait until the **Activity** LED comes back on and resume normal ComProbe operation. When the ComProbe 802.11 serial number shows in the Control Window again, the firmware update is complete.

Technical Support

Technical support is available in several ways. The online help system provides answers to many user related questions. Frontline's website has documentation on common problems, as well as software upgrades and utilities to use with our products.

Web: http://www.fte.com, click Support



Email: tech_support@fte.com

If you need to talk to a technical support representative, support is available between 9am and 5pm, U.S. Eastern time, Monday through Friday. Technical support is not available on U.S. national holidays.

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