

14 February 2022

#### IMPORTANT PRODUCT NOTIFICATION

To: CELL205, CR300-CELL205, CR310-CELL205 users

Re: Time sensitive - Important software updates

Dear Campbell Scientific Customer,

You or your organization has purchased a Campbell Scientific CELL205, CR300-CELL205, or CR310-CELL205. These products were designed for cellular communication on the AT&T network. AT&T is sunsetting their 3G network service on **February 22, 2022**. We have made critical software updates available on our website at <a href="https://www.campbellsci.com/downloads">https://www.campbellsci.com/downloads</a> for the products noted above. We ask that you **deploy these software updates immediately** to ensure continued operation. Enclosed are instructions for updating the software remotely and/or with a local direct connect.

If you would like technical assistance in applying the update remotely, please contact our Client Services department. If you would like to physically send us the equipment to update, please contact Client Services to obtain a return material authorization (RMA) prior to returning the equipment. You may contact our service department at:

Phone: (435) 227-9105

Email: misty@campbellsci.com

On behalf of Campbell Scientific, I would like to express our appreciation for your business and offer our heartfelt apology for any inconvenience this problem may have caused.

Sincerely,

Sam Utley

Som Valey

V.P. Research & Development, Campbell Scientific

#### Reference:

- Operating System for CR300-CELL205 and CR310-CELL205: <a href="https://www.campbellsci.com/downloads/cr300-series-os">https://www.campbellsci.com/downloads/cr300-series-os</a>
- Operating System for external, serially connected CELL205: https://www.campbellsci.com/downloads/cell2xx

Enclosed: Instructions for updating external, serially connected CELL205





# AT&T 3G Sunset OS update process

The following process needs to be strongly considered for CELL2XX users using AT&T SIM cards:

## 1. Determine your update path

- ✓ New Generation refers to CR300, CR6, CR1000X, GRANITE 6, GRANITE 9, and GRANITE 10.
- ✓ **Old Generation** refers to CR200, CR800, CR1000, and CR3000.
- 1.1. CELL2xx connected to a New Generation data logger via the CSI/O port and using the PPP protocol See section 2.1.
- 1.2. CELL2xx connected to a New Generation data logger via the RS-232 port and using the PPP protocol See section 2.1.
- 1.3. CELL2xx connected to an Old Generation data logger via the CSI/O port using the PPP protocol See section 2.2.
- 1.4. CELL2xx connected to an Old Generation data logger via the RS-232 port using the PPP protocol See section 2.4.
- 1.5. CELL2xx being used as serial server. Connected to a data logger or other device not using the PPP protocol

If cellular plan is a Static IP, see section 2.3.

If cellular plan is a Dynamic IP, see section 2.4.

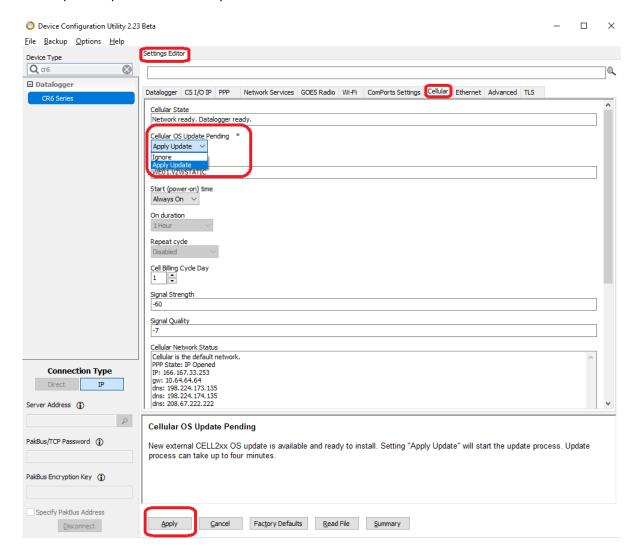




## 2. Update procedures

## 2.1. CSI/O or RS-232 PPP mode for New Generation data loggers

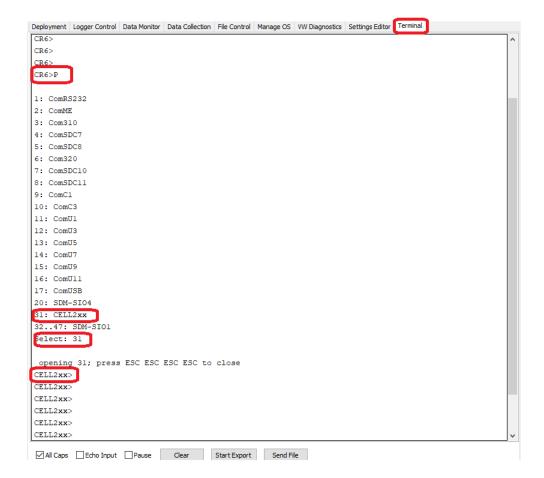
- 2.1.1. First check to see if an update is ready to be applied.
- 2.1.2. If there is a Cellular OS Update Pending field, select Apply Update, then skip to step 2.1.21. If this field is not present, proceed to next step.







- 2.1.3. Collect data from the station.
- 2.1.4. This process may require the data logger program to be stopped. If the data logger program is controlling power to the CELL2xx, you may need to send a new or DEFAULT.CRB that keeps the modem on all the time (ask technical support for assistance, if needed). After the update process, the original program can be restarted.
- 2.1.5. Connect to the data logger using DevConfig and navigate to the Terminal tab.
- 2.1.6. Press the Enter key several times to get the data logger prompt >.
- 2.1.7. Send the P command.
- 2.1.8. Select comport CELL2xx.
- 2.1.9. Press the Enter key several times to get the CELL2xx> prompt. Note: Please be patient; the terminal may update slowly because of the cellular link.







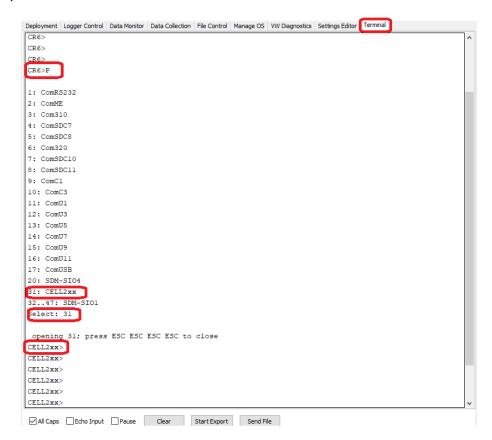
2.1.10. Send the CHECK UPDATE command.

```
CELL2xx>
CELL2xx>CHECK UPDATE
Module/OS updates flag set.
CELL2xx>
CELL2xx>
```

2.1.11. Send the RESET MODULE command.

```
CELL2xx>
CELL2xx>RESET MODULE
Are you sure? (YES/NO):YES
```

- 2.1.12. Wait approximately six minutes.
- 2.1.13. Reconnect to the data logger using DevConfig.
- 2.1.14. Navigate to the Terminal.
- 2.1.15. Press the Enter key several times to get the data logger prompt >.
- 2.1.16. Send the P command.
- 2.1.17. Select comport CELL2xx.
- 2.1.18. Press the Enter key several times to get the CELL2xx> prompt. Note: Please be patient; the terminal may update slowly because of the cellular link.



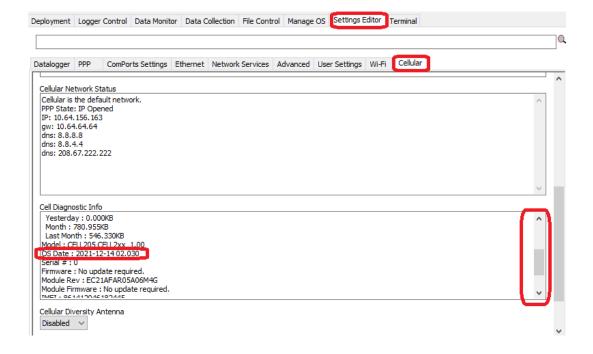




- 2.1.19. Send SHOW OSUPDATE PENDING command. True means the OS is in the CELL2xx waiting to be applied.
- 2.1.20. Send the START OSUPDATE command.



- 2.1.21. Wait approximately four minutes then reconnect to the data logger using DevConfig.
- 2.1.22. Verify the OS was updated. The OS date should be as shown below.

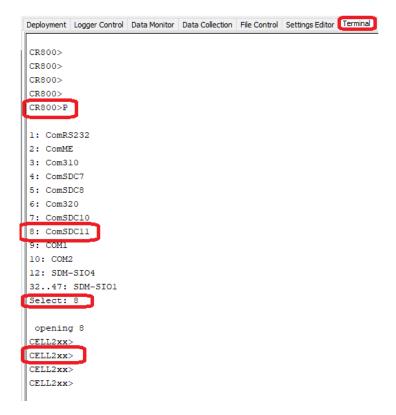






## 2.2. CSI/O port PPP mode for Old Generation data loggers

- 2.2.1. Collect data from the station.
- 2.2.2. This process may require the data logger program to be stopped. If the data logger program is controlling power to the CELL2xx you may need to send a new or DEFAULT.CRB that keeps the modem on all the time. After the update process, the original program can be restarted.
- 2.2.3. Connect to the data logger using DevConfig and navigate to the Terminal tab.
- 2.2.4. Press the Enter key several times to get the data logger prompt >.
- 2.2.5. Send the P command.
- 2.2.6. Select comport SDC11.
- 2.2.7. Press the Enter key several times to get the CELL2xx> prompt. Note: Please be patient; the terminal may update slowly because of the cellular link.







2.2.8. Check to see if a CELL2xx Update is available. If the Response is True skip to step 2.2.19. If the Response is false, continue to next step.

```
CELL2xx>SHOW OSUPDATE PENDING
True
```

2.2.9. Send the CHECK UPDATE command.

```
CELL2xx>
CELL2xx>CHECK UPDATE
Module/OS updates flag set.
CELL2xx>
CELL2xx>
```

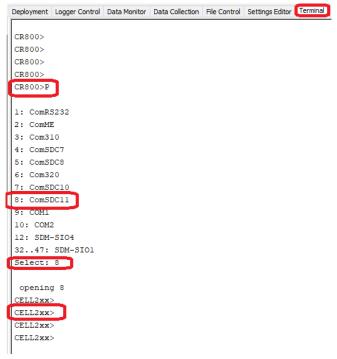
2.2.10. Send the RESET MODULE.

```
CELL2xx>RESET MODULE
Are you sure? (YES/NO):YES
```

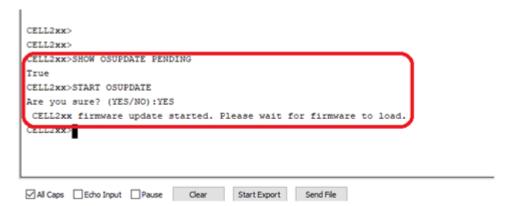
- 2.2.11. Wait approximately six minutes.
- 2.2.12. Reconnect to the data logger using DevConfig.
- 2.2.13. Navigate to the Terminal.
- 2.2.14. Press the Enter key several times to get the datalogger prompt >.
- 2.2.15. Send the P command.
- 2.2.16. Select comport CELL2xx.
- 2.2.17. Press the Enter key several times to get the CELL2xx> prompt. Note: Please be patient; the terminal may update slowly because of the cellular link.







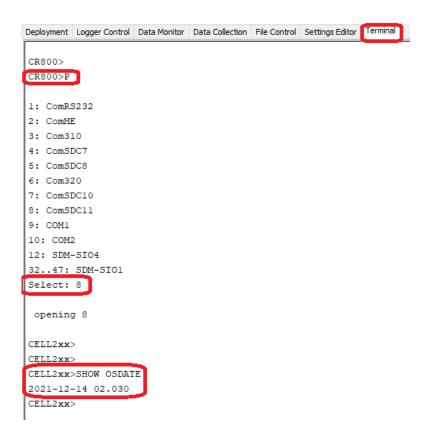
- 2.2.18. Send the SHOW OSUPDATE PENDING command. True means the OS is in the CELL2xx waiting to be applied.
- 2.2.19. Send the START OSUPDATE command.







- 2.2.20. Wait approximately four minutes then reconnect to the data logger using DevConfig.
- 2.2.21. Verify the OS was updated. Send the SHOW OSDATE command. The OS date should be as shown below.

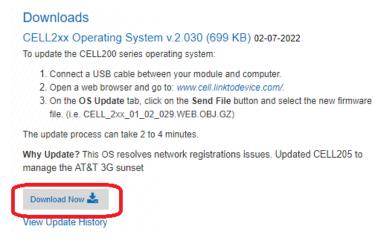




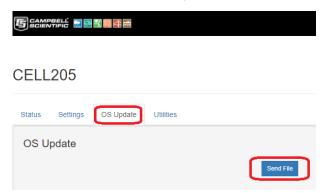


#### 2.3. CELL2xx Serial Server mode (Static IP)

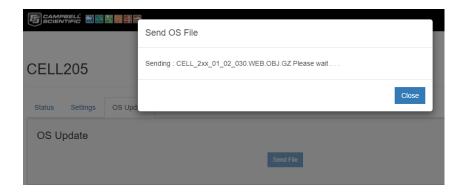
- 2.3.1. Open a web browser and navigate to <a href="https://www.campbellsci.com/cell205">https://www.campbellsci.com/cell205</a>
- 2.3.2. Navigate to the CELL2xx downloads and download the latest version.



- 2.3.3. In the web browser URL, input the Cell2xx IP address.
- 2.3.4. A logon prompt should be displayed.
- 2.3.5. After logging on to the CELL2xx, web pages should be displayed.
- 2.3.6. Navigate to the OS Update tab.
- 2.3.7. Send the CELL\_2xx\_XX\_XX\_XXX.WEB.OBJ.GZ



2.3.8. Allow several minutes for the file to be sent and applied.







### 2.4. Site Visit

- 2.4.1. This will require a site visit.
- 2.4.2. Prior to the site visit, download the CELL2xx operating system from the Campbell Scientific website.
- 2.4.3. Attach a USB cable from the PC to the CELL2xx.
- 2.4.4. Open a Web Browser and type cell.linktodevice.com in the URL.
- 2.4.5. Navigate to the OS Update tab.
- 2.4.6. Send the CELL\_2xx\_XX\_XXX.WEB.OBJ.GZ

