

Ag Leader ParaDyme v3.0.25494 Firmware Release Notes

Ag Leader is pleased to announce the release of new firmware. Features and improvements in this version are listed below. This free upgrade is available for download from the dealer website.

Note: v3.0.25494 is designed to upgrade from one of the versions shown in **Table 1**. If the current ParaDyme version is not one of the ones supported, contact Ag Leader Support prior to upgrading.

Table 1: Supported ParaDyme Versions to Upgrade From

Supported ParaDyme Versions to Upgrade From				
v1.0.14175	v1.0.14326	v1.2.15178	v1.4.16144	v1.6.17177
v1.6.17188	v1.8.18194	v2.0.19689	v2.2.19050	v2.4.19720
v2.6.21974	v2.6.22143	v2.8.22698	v2.8.22976	v2.8.23332

Required Firmware on ParaDyme Components:

Version v3.0.25494 supports the hardware component firmware versions listed in **Table 2**. Upgrade the SA Module firmware only if the vehicle requires the higher version.

Table 2: Hardware Component Software/Firmware Requirements

Hardware Component	Versions Supported (PN)	Notes	Changed Since Last Release?
SA Module Firmware	v1.8.0 (200-0207-01)	<ul style="list-style-type: none"> John Deere Track vehicles 	No
	v1.11.0 (200-0206-01)	<ul style="list-style-type: none"> Standard version for most vehicles 	No
	v1.11.2 (200-0206-01)	<ul style="list-style-type: none"> Support for John Deere AutoTrac Ready vehicles 	No
	v1.11.6 (200-0206-01)	<ul style="list-style-type: none"> Support for Hagie and Hardi sprayer profiles 	No
	v1.12.3 (200-0206-03)	<ul style="list-style-type: none"> Support for change in 2010 John Deere STS 9x70 Combine AutoTrac Ready Steering Encoders 	No
ECU4 Firmware	v0.9.23662	<ul style="list-style-type: none"> Updated automatically by ParaDyme as needed 	N/A

ParaDyme New Features

ParaDyme now supports the following vehicles:

- AgChem TerraGator 7300/8300
- AgChem RoGator RG900/1100/1300
- Case SPX 4430
- Miller Nitro 5xxx
- Fendt 7xx Com 3B
- Fendt 7xx/8xx Com 3
- Fendt 8xx/9xx Com 3B
- Fendt 9xx Com 3
- Massey Ferguson 9695/9795/9895
- CLAAS/Lexion 5xx
- Gleaner S67/S77
- John Deere S680/S690

Note: See the ParaDyme system reference sheet for a complete list of supported vehicle kits.

ParaDyme System Enhancement

The following items have been added with version 3.0.25494 release:

- Added: Support for latest Satel M3TR1 radio firmware
- Added: Support for OmniSTAR Flex to SBAS or Autonomous
- Added: Base station position when using NTRIP CMR+
- Improved: GNSS tracking for robustness and reliability
- Improved: Support for John Deere ISO Steering profiles
- Enhanced: Manual Override Samples Required for certain profiles that use a pressure transducer
- Fixed: Heading error on SmartPath pattern
- Fixed: USB file transfer when USB is disconnected
- Fixed: NMEA GGA format for Longitudes less than 100 East or West
- Fixed: Issue with special characters in vehicle names

Known Limitation:

NTRIP – use the numerical IP address for an NTRIP server – not a name

Typing the name of the NTRIP server, rather than typing the IP address can cause problems. Always use the numeric IP address if available.

Australian Cellular Services Require GPS Fix

In Australia, the cellular modem will not connect to the service provider unless the ParaDyme Roof Module has a valid GPS position. The first time the ParaDyme Roof Module is powered ON, the Roof Module must have a clear view of the GPS satellites to calculate a position. The cellular network then uses this information to activate the cellular plan and allow communications. This task only has to be performed once.

Downgrading a ParaDyme from v3.0.25494 to lower version is not supported

The internal databases could be corrupted if a user downgrades from v3.0.25494 to a lower version of firmware. If this happens, the user must overwrite the existing database with the default one and all data will be lost. To prevent this from happening, do not downgrade ParaDyme systems to a lower version.

Using RTCM v2.x from an NTRIP provider over cellular modem may have problems

While RTCM v2.x is supported by ParaDyme, this format requires a large number of bytes per second, and this may stress the cellular modem link in areas where there is poor cellular data capacity. A user may experience position drop-outs. We strongly recommend the use of RTCM v3.x streams when you have the GLONASS feature enabled or CMR+ when you do not.

Conditions Requiring a System Reboot

The ParaDyme system may require a power cycle in order to restore operational status to the unit. If any of the following situations should occur, power-cycle the ParaDyme before moving on to other troubleshooting options.


- The EDGE Display freezes in the GPS Information screen.
- The Ag Leader[®] INTEGRA Display freezes during the “loading” screen when attempting to enter the ParaDyme menu.
- Cellular communications do not work and the user finds that the cell modem has not been detected in the ParaDyme *My Account* tab under the *Details* section and *Cell Modem* selection.

Expired Remote Service plans and Cell Modem reactivation – North America Only.

Remote services to all ParaDyme's whose service plan is in EXPIRED state will be deactivated. You can check your cell modem status by going to My Connections > Cell Modem in the ParaDyme menu. Technical Support can provide complete documentation for reactivating your cell modem.

NOTE: You must reregister your cell modem BEFORE you reenter the feature codes for RTK ReadyConnect or Remote Service.

The screenshot shows the 'Cell Modem' status page. It features a table with the following data:

Cell Modem	
Status	Not Registered
Signal Strength	 -53 dBm
Mobile Identification Number (MIN)	7632073220
Mobile Directory Number (MDN)	7635704992

On the right side of the page, there are two buttons: 'Manage PRL' and 'Manage MIN/MDN'. A question mark icon is visible in the bottom left corner.

The screenshot shows the 'Configure Mobile Identification and Directory Number' page. It features a table with the following data:

Configure Mobile Identification and Directory Number	
Status	Not Registered
Current Mobile Identification Number	7632073220
Current Mobile Directory Number	7635704992

Below the table, there are two sections with explanatory text and buttons:

- MIN (Mobile Identification Number)**
A unique 10 character (24 bit) number assigned by the wireless service provider (carrier) to each cell modem it sells or includes in service plans. Unlike an Electronic Serial Number (ESN), a MIN is changeable because the cell modem may move to another coverage region, requiring a different service plan. The MIN and ESN are both automatically transmitted to the wireless network each time the cell modem is used. [Change MIN](#)
- MDN (Mobile Directory Number)**
The actual phone number one would dial to reach a specific cell modem. Prior to Wireless Number Portability, MDN was the same number as the MIN for many cell modems. But now that MDN numbers can be ported (moved) to other carriers, MDN and MIN will be different for ported numbers. [Change MDN](#)

At the bottom of the page, there are two buttons: a checkmark button and a right arrow button.

NOTE: If the Manage MIN/MDN button does not appear and you are certain that your cell modem has been deactivated, then it may be necessary to contact Technical Support for further assistance.