



Service Information Letter

SIL Number:	606-00004-001		
To:	Owners, Operators, and Installers of EX500, EX600, and EX5000 MFDs installed with HeadsUp Technologies XMD076 XM Datalink Receiver		
Subject:	XM SIGMET and AIRMET Products		
Purpose:	This Service Information Letter (SIL) advises owners, operators, and installers of Avidyne EX500, EX600, and EX5000 MFDs installed with HeadsUp Technologies XMD076 XM Datalink Receiver of certain issues related to XM SIGMET and AIRMET products.		
Revision:	00	Date:	06/24/10

Problem Description

Avidyne has recently identified three issues related to XM SIGMET and AIRMET weather products on EX500, EX600, and EX5000 MFDs. These issues only occur when the MFD is connected to a HeadsUp XMD076 XM datalink receiver; they do not occur with the MLB700 WSI/Sirius receiver, the MLX770 Iridium Datalink transceiver, or the internal ORBCOM Narrowcast transceiver.

1) XMClient Terminated

When a large number of AIRMETs are distributed from the weather provider, the MFD may encounter an overrun which causes the XM weather processing portion of the MFD software to shut down. The user is notified by a "XMClient Terminated" advisory (see Figure 1). This indicates that the MFD is no longer processing XM weather data.

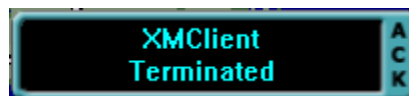


Figure 1

2) Non-Convective SIGMETs not displayed

The Avidyne MFDs do not support non-convective SIGMETs graphically on the map when received from an XM receiver. The table below indicates which SIGMETs are displayed and which ones are not supported.



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Supported	Not Supported
Convective	Volcanic Ash
	Icing (AIRMETs for Icing ARE supported)
	Turbulence (AIRMETs for Turbulence ARE supported)
	Dust Storms or Sandstorms

3) Removal of Map due to improperly formatted SIGMET data

Avidyne has recently identified instances of improperly coded SIGMET data provided by the weather supplier via XM. Avidyne has notified the weather supplier of the issue. However, this improperly coded SIGMET data can cause the part of the MFD to shut down. If this occurs the following tabs will be “yellow tabbed” and not accessible to the pilot: Map, Trip, Nrst, Aux and Engine (see Figure 2).



Figure 2

There are other issues that can lead to “yellow tabs” besides improperly formatted SIGMET data. All other issues identified to date have been fixed in Release 4.1 for the EX500/EX600 and Release 8.1 for the EX5000.

Solution

Avidyne offers the following solutions to mitigate these issues:

1) XMClient Terminated

Release 4.1 for the EX500 and Release 8.1 for the EX5000 addresses this issue and prevents large numbers of AIRMETs from stopping the XM data processing. The EX600 is not affected by this issue. Avidyne always recommends updating to the current software version. Contact Avidyne Sales at 1-800-AVIDYNE (1-800-284-3963) to upgrade to Release 4.1 or Release 8.1. This is a free upgrade for customers with Release 4 or Release 8.

2) Non-Convective SIGMETs not displayed

Non-Convective SIGMETs are not supported with the XMD076 XM Datalink Receivers and Avidyne MFDs at this time.

3) Removal of Map due to improperly formatted SIGMET data

No software update is available at this time. Avidyne does not expect that the incorrectly coded SIGMETs will be distributed by the XM weather provider. However, if this does occur and causes a “yellow tab” event, Avidyne recommends the following steps:

1. Power down the MFD or pull the MFD circuit breaker
2. Pull the XMD076 XM receiver circuit breaker



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3. Power on the MFD

The data issue should be corrected quickly, so power can be restored to the XMD076 receiver after a few hours.

Please contact Avidyne Tech Support at 1-888-723-7592 if you experience a “yellow tab” event in order for Avidyne to obtain diagnostic information to prevent these occurrences in the future.

Effectivity

Avidyne EX500 P/N 700-00007-()
Avidyne EX600 P/N 700-00167-()
Avidyne EX5000 P/N 700-00004-(), 700-00030-()

With

Heads Up XMD076 P/N XMD076-01

Accomplishment Instructions:

No changes necessary at this time.

Warranty Information:

Not Applicable.

Contact Information:

Avidyne Technical Support
1-888-723-7592
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www.avidyne.com/support

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