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SERVICE BULLETIN NO. 23-35-118

INTRODUCTION OF WINDOWS 10 BASED GROUND SUPPORT SOFTWARE FOR USE WITH SAAB REGIONAL AIRCRAFT

GROUND SUPPORT SOFTWARE PART NO. 8-800-07-047 ISSUE 1

1. PLANNING INFORMATION:

    A. Effectivity:

SAAB Aircraft.

This Service Bulletin introduces Ground Support Software (GSS) Part No. 8-800-07-047 Issue 1 for Windows 10 operating system, which contains:

(1) Version 1 of the Ultra Precision Control Systems Windows Based Active Noise and Vibration Control System Maintenance Terminal (ANVS MT) Software.

(2) Version 2 of the Ultra Precision Control Systems Windows Based Event Log Extraction Tool. (Store Event Log)

(3) Version 5 of the Advanced Maintenance Terminal (AMT) Software.

(4) Version 1 of the Ultra Precision Control Systems Windows Based Propeller Balance Monitor System (PBMS) Software.

Note: Ground Support Software (GSS) Part Number. 8-800-07-047 Issue 1 is for use with Windows 10 operating systems only and is an upgrade for the existing licences using Part No. 8-800-07-040, Part No.8-800-07-030 or Part No. 8-800-07-024.

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B. Concurrent Requirements:

Not Applicable

C. Reason:

(1) Microsoft Support for Windows 7 Operating Systems (OS) ended in January 2020 with Windows 10 OS being the latest supported version. Therefore a requirement for the Active Noise and Vibration System (ANVS) Ground Support Software (GSS) to be compatible with Windows10 OS version has been complied to allow the use of the Ground Support Software (GSS).

D. Description:

(1) Ground support Software (GSS) Part No. 8-800-07-047 Issue 1 has been developed for use with 64-bit versions of Windows 10. DOSbox, an open source emulator, has been included to allow communication between the 64-bit version of windows 10 and the AMT software operating at 16 bit.

(2) The GSS has also been updated with the following changes. **(Only Applicable to the ANVS MT)**

Function	Changes
Display System Status	An Added Display of actuators and sensors that are missing from calibration data, unpressurised, pressurised or both that can result in invalid Calibration Data Error.
Automatic Actuator and Sensor Test Results	An Added Display of actuators and sensors that are missing from calibration data that can result in Failure of the ATVA or invalid Calibration Data Error.
Manual Actuator Test	An Added Display of Distortion levels for the channel being tested as per the Automatic Actuator and Sensor test.
Step-Through Actuator Test	An Added Display of Distortion levels for the channel being tested as per the Automatic Actuator and Sensor test.
Calibration	An Added Warning about distortion to the information screen shown before calibration starts.
ANCU Communications	The Error code 0x8000D30 for incorrect serial port or USB serial adaptor is not present has been replaced with the message, **"The serial port requested does not exist or USB serial adaptor not found"**

E. **Compliance:**

Not Applicable.

F. **Approval:**

The Technical content of this document is approved under the Authority of:
DOA No EASA 21J.092.

G. **Manpower:**

Time to install the software from the USB Flash Drive is no more than 20 Minutes.

H. **Weight and Balance:**

Not Affected.

I. **Electrical Load:**

Not Affected.

J. **Affected Publications:**

AMT 23-35-40 R1

K. **References:**

Not Applicable

2. **MATERIAL INFORMATION:**

A. **Material – Price and Availability.**

(1) The Software will be supplied on a USB Flash Drive (GSS Part No. 8-800-07-047 Issue 1).

(2) Price and availability is available on request from Ultra Precision Control Systems. (Ref Section 8)

B. **Tooling – Price and Availability:**

Tooling is not required.

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3. **INSTALLATION:**

    A. **Installation Instructions.**

        (1) Insert the USB Flash Drive Part No. 8-800-07-047 Issue 1 in to a suitable USB port. The software should run automatically.

        (2) If the Installation process does not start automatically.

            (a) Select Start from the Windows Task Bar.

            (b) Select File Explorer.

            (c) Select USB Drive Typically E:

            (d) Select Setup.

        (3) The Licence Agreement must be read and agreed to proceed.

        (4) After the set up progress has finished the Setup wizard will install the Ground Support Software 2.0.0.

        (5) The End User Licence Agreement must be read and agreed to proceed.

        (6) The default directory location where the software will be installed is **C:\MT830.**

        (7) The default settings for the AMT (Pre 83x) Terminal Software in the Custom Setup menu are for the Saab aircraft. Select the 'Next' button and follow the on-screen prompts to begin the installation.

        (8) The Default COM port allocation for the USB to Serial port adapter is COM port 2 Select the next button to continue.

        (9) When the installation is complete, Disconnect the USB drive safely, remove and store safely.

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4. GETTING STARTED:

Figure 1 shows the four icons that will be installed on the desktop following installation of the Ground Support Software (GSS).
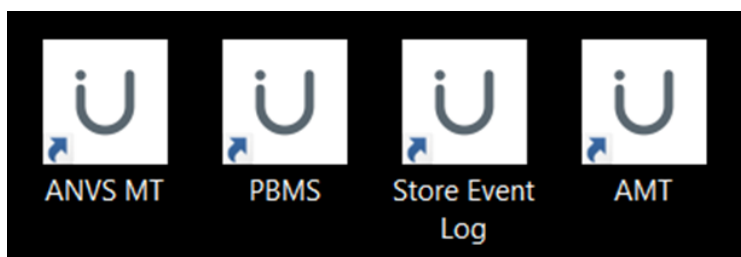

Figure 1

A. ANVS MT:

ANVS MT is the Active Noise and Vibration Control System Maintenance Terminal Software to be used with 83x type controllers.

B. PBMS:

PBMS is the Propeller balance Monitoring System Software to be used with 832 type controllers on aircraft fitted with PBMS.

C. Store Event Log:

Store Event log is the Event Log Extraction Tool Which can be used to download an event log from 83x type controllers.

D. AMT:

AMT is the Advanced Maintenance Terminal Software to be used with a Type 81x or 82x controller. If the ANVS MT is used on a Type 81x or 82x controller, this will be recognised and the AMT will automatically start.

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5. MODIFICATION STATUS:

This change does not affect the modification standard of any system component.

6. DOCUMENTATION

Not applicable.

7. FURTHER INFORMATION:

If you need more information about this Service Bulletin, please contact the Customer Support Manager at:

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