



MOTOROLA SOLUTIONS

IMPRES Battery Fleet Management Application 4.0

Release Notes

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Customer Release Notes for IMPRES Battery Fleet Management Application 4.0

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INTRODUCTION

The IMPRES Battery Fleet Management system provides organizations with the ability to analyze their fleet of IMPRES radio batteries. When connected to IMPRES charging devices, IMPRES Battery Fleet Management collects important information from each IMPRES battery inserted into the device. Administrators can then use the IMPRES Battery Fleet Management analysis tool to analyze the data, as well as create custom reports and charts to help answer questions about batteries that are specific to the organization. Reports are displayed within IMPRES Battery Fleet Management in a tabular form that can be customized to include or omit battery attributes that are of interest. The analysis tool can create pie and bar charts of many of the battery attributes. In addition, multiple filters can be applied to the report results to "drill down" to specific battery categories. Batteries can also be logically grouped by assigning them an alias name, or by assigning them to user defined battery groups. IMPRES Battery Fleet Management also provides a number of predefined charts that are based on the reports. These charts show many of the important battery attributes plotted by the number of batteries in the fleet, or by other battery attributes which may be useful for spotting trends in the data.

The IMPRES Battery Fleet Management application also contains a tool called the Device Monitor that can be used to monitor all of the IMPRES charging devices (Multi Unit Chargers and Dual Unit Chargers) that are connected to computers running the IMPRES Battery Fleet Management software. Using the Device Monitor tool, administrators can examine all computers that are currently running IMPRES Battery Fleet Management, all IMPRES charging devices that are attached to those computers as well as the status of the batteries that are inserted into the charger pockets.

In addition to collecting battery data from chargers, the IMPRES Battery Fleet Management system can collect battery data from an APX IMW system or a MOTOTRBO MNIS system.

NEW & PREVIOUS RELEASE VERSION'S NOTES

Release Note 4.0

New features and enhancements

This release contains the following new features and enhancements:

- Improved installer.
- Improved User Interface.
- Added support for chargers that requires communication through Charger Interface Unit (CIU)
- Updated battery list.

Defect Fixes

This release contains the following defect fixes:

- Fixed USB drivers installation.
- Fixed the issue with multiple IMPRES chargers connected to PC at the same time.

Important Notes

This release contains the following important notes:

- Users with a 3.x license shall have a 90-day trial before it expires. A new 4.0 license shall be required to continue using 4.0.
- Original PC GUI is now very limited. Used for configuration of OTA and installation of license.
- Removal of the ability to flash chargers using MSI Charger Reprogrammer tool.
- Using a charger connected directly to a virtual machine is not supported.

Web Services:

This release contains the following details of web services:

- Requires to enable Windows IIS web server.
- The main GUI is now the web service.
- On the local server, the web service will be found at <http://localhost>.
- It is recommended that a DNS name be assigned to the machine that is hosting the BFM web services.

Release Note 3.5.1

New features and enhancements

This release contains the following new features and enhancements:

- Enhanced the installation package procedure to install new IMPRES Gen 2 drivers.
- Enhanced the HostID generation method for license activation feature.

Defect Fixes

This release contains the following defect fixes:

- Fixed the ASTRO and MOTOTRBO over the air reporting issue with fresh installation of IMPRES Battery Fleet Management 3.5.0.

Important Notes

This release contains the following important notes:

- There would be a potential chance for the existing IMPRES Battery Fleet Management application to lose activation when the user upgrades the IMPRES Battery Fleet Management application from earlier version to version 3.5.1 after running Windows Update or running the IMPRES Battery Fleet Management application in Virtual Machine environment. You can use your existing Entitlement ID (EID) to re-activate the IMPRES Battery Fleet Management application.
- When the user plugs in an IMPRES 2 charger to the PC after IMPRES Battery Fleet Management 3.5.1 installation for the first time, the user might not be able to see the IMPRES 2 charger information in the System Device Monitor tab of the IMPRES Battery Fleet Management application. This is due to the new IMPRES Gen 2 drivers installation for the IMPRES 2 charger. As for recovery, there are two options: (a) The user needs to unplug the IMPRES 2 charger from the PC and then plug in the IMPRES 2 charger again to the PC. or (b) Restart the PC.
- If the user wants to use Virtual Machine to run the IMPRES Battery Fleet Management application, the Virtual Machine needs to be configured with a static/manual physical MAC address. Running the IMPRES Battery Fleet Management application on a Virtual Machine with a dynamic physical MAC address may cause the IMPRES Battery Fleet Management application to lose activation.

Release Note 3.5.0

New features and enhancements

This release contains the following new features and enhancements:

- Added current radio ID range selection and last known radio ID range selection in Custom Report Generation Tool.
- Added Current Radio with Battery Health Data and Last Known Radio with Battery Health Data options in Request Status menu in Radios and Batteries table to display the rows with both Radio ID and battery health data so that the user can sort the Health column in order to find the radios with low percentage battery health.
- Display only relevant items in the Legend section of charts and add text that shows the Legend item and number of batteries when we hover over the bar.
- Added Last Known Radio feature to track the last radio a battery is associated with when the radio changes batteries.
- Set the initial radio alias to the Friendly Name of the radio in IMW configuration for ASTRO radios.
- Keep details of custom reports on new BFM package installation.
- Enhanced charger firmware update feature with parallel reprogramming and download latest UpdateFile.xml and charger firmware from MSI server.

Defect Fixes

This release contains the following defect fixes:

- Fixed battery data refresh timer to automatically query for battery information when timer expires.
- Fixed license activation issue when IMPRES Battery Fleet Management login as either administrator or standard user mode.
- Fixed user interface sluggishness issue when connected with IMPRES 2 chargers.

Important Notes

This release contains the following important notes:

- Removed support for IMPRES Battery Data Reader, IMPRES 1 Charger Interface Unit and IMPRES 2 Single Unit Charger.
- Removed firmware reprogramming capability for DUC and GEN2 Entry Tier Charger.
- For Current Radio ID and Last Known Radio ID fields, "Begins With" operator in Custom Report Generation Tool refers to greater than or equals to the radio ID in the textbox whereas "Begins With" operator in Filter window (Funnel icon) refers to the first few digits of the radio ID in the textbox; "Ends With" operator in Custom Report Generation Tool refers to lesser than or equals to the radio ID in the textbox whereas "Ends With" operator in Filter window (Funnel icon) refers to the last few digits of the radio ID in the textbox.

Release Note 3.4.1

New features and enhancements

This release contains the following new features and enhancements:

- Added support for IMPRES Gen 2 PMPN4400A Aragorn Boromir 6 pockets, PMPN4340A Lex L11 12 pockets and NNTN9063A Ethernet MUC Fusion 12 pockets Collaborative MUC.
- Added support for IMPRES 2 charger firmware V01.11.01 and Battery Data Reader firmware V01.06.
- Added IMPRES 2 (Cypress) drivers package installer into installation package.
- Removed user login information feature.

Defect Fixes

This release contains the following defect fixes:

- Fixed battery data refresh timer to automatically query for battery information when timer expires.
- Fixed license activation issue when IMPRES Battery Fleet Management login as either administrator or standard user mode.
- Fixed user interface sluggishness issue when connected with IMPRES 2 chargers.

Important Notes

This release contains the following important notes:

- When upgrading to IMPRES Battery Fleet Management 3.4.1, users can choose to either keep or create a new database. The existing user account will be removed permanently, battery information will still be available.
- Downgrade from a new version to an older version is not supported by IMPRES Battery Fleet Management. Once upgraded to version 3.4.1, any revert to version 3.4.0 and below will result in a new empty database being created. Database information will be lost. Users can only choose not to save existing records when prompted with the question "Do you want to keep battery, group, computer, device data and threshold value?"
- Both server and client must use the same IMPRES Battery Fleet Management version to ensure no data incompatibility and data loss.

REQUIREMENTS

Operating System

IMPRES Battery Fleet Management is required to run on English language operating systems from the below list. Running the application on a Non-English operating system may cause the application to not function correctly.

- Microsoft® Windows® 10 Professional and Enterprise Editions
- Microsoft® Windows® Server 2012
- Microsoft® Windows® Server 2016

Hardware

IMPRES Battery Fleet Management can be installed on more than one computer in an organization. If it is installed on multiple computers, one computer must be designated as the server and all other computers are considered to be clients. The hardware requirements are different for the server computer and the client computers as shown below:

Server Hardware Requirements:

- 2 GHz CPU speed or higher
- i5 generation 8 or equivalent processor
- x64 hardware
- 8 GB RAM
- 10 GB free disk space

Client Hardware Requirements:

- 2 GHz CPU speed or higher
- i5 generation 8 or equivalent processor
- x64 hardware
- 8 GB RAM
- 10 GB free disk space
- 1 USB port

Software

- Microsoft® Edge or Google Chrome
- Windows Installer 3.1 or higher

INSTALLATION & REMOVAL

To install or remove the application, please visit **MSI Learning site** to download the Installation Guide.

Here is the link to the MSI Learning Site:

<https://learning.motorolasolutions.com/search?t=battery+management>

Here is the direct link to download the Installation Guide:

<https://learning.motorolasolutions.com/node/53710/download>

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Open Source Software for IMPRES Battery Fleet Management PC Application

Name: ZedGraph

Version: 5.1.5

Description: ZedGraph is a set of classes, written in C# for creating 2D line and bar graphs from arbitrary datasets. The classes provide a high degree of flexibility – almost every aspect of the graph can be user-modified. At the same time, usage of the classes is kept simple by providing default values for all of the graph attributes. The classes include code for choosing appropriate scale ranges and step sizes based on the range of data values being plotted.

Software Site: http://zedgraph.org/wiki/index.php?title=Main_Page

Source Code: No Source Distribution Obligations. Motorola Solutions will not provide nor distribute the Source Code for the ZedGraph Software. The ZedGraph source code is available at the above link.

License: LGPLv2.1

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Name:	Microsoft SQL Server 2012 Express
Version:	2012
Description:	Microsoft SQL Server 2012 Express is a lightweight, embeddable and freely distributable version of the SQL Server 2012 database system.
Software Site:	https://www.microsoft.com/en-sg/download/details.aspx?id=29062
Source Code:	No Source Distribution Obligations.
License:	End User License Agreement (ELUA)
Microsoft® SQL Server® 2012 License Terms:	https://www.microsoft.com/EN-US/privacystatement/SQLSERVER2012/Default.aspx

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Name: Microsoft WPF Toolkit

Version: 3.5.40619.1

Description: The WPF Toolkit is a collection of WPF features and components that are being made available outside of the normal .NET Framework ship cycle. The WPF Toolkit not only allows users to get new functionality more quickly, but allows an efficient means for giving feedback to the product team. Many of the features will be released with full source code as well.

Software Site: <http://www.codeplex.com/wpf>

Source Code: No Source Distribution Obligations.

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Name:	log4cxx
Version:	0.10.0
Description:	log4cxx is a simple to use C++ logging API providing thread-safe, flexible, and arbitrarily granular control over log management and configuration. It is modeled after the Java log4j API. Motorola Solutions has not modified log4cxx.
Software Site:	http://logging.apache.org/log4cxx/index.html
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Credits: N/A

=====

Name: libcurl

Version: 7.35.0

Description: libcurl is a free and easy-to-use client-side URL transfer library, supporting FTP, FTPS, HTTP, HTTPS, SCP, SFTP, TFTP, TELNET, DICT, LDAP, LDAPS and FILE. libcurl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, cookies, user+password authentication (Basic, Digest, NTLM, Negotiate, Kerberos4), file transfer resume, http proxy tunneling etc. Motorola Solutions has not modified log4cxx.

Software Site: <http://curl.haxx.se/>

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Name: OpenSSL

Version: 1.0.10

Description: The OpenSSL Project is a collaborative effort to develop a robust, commercial-grade, full-featured, and Open Source toolkit implementing the Secure Sockets Layer (SSL v2/v3) and Transport Layer Security (TLS v1) protocols as well as a full-strength general purpose cryptography library.

Software Site: <http://www.openssl.org>

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Name: Newtonsoft.Json

Version: 7.0.1.18622

Description: Use for Serializing and Deserializing JSON.

Software Site: <https://github.com/JamesNK/Newtonsoft.Json>

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Name: websocket-sharp

Version: 1.0.2.24606

Description: Library for two-way communication using WebSocket protocol.

Software Site: <https://github.com/sta/websocket-sharp>

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