



BlackBerry AtHoc

IIM Release Notes

6.x

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Introduction

These release notes contain information about new and changed functionality in IIM releases. For more information about BlackBerry® AtHoc® or its related functionality, see the documentation available on <https://docs.blackberry.com/en/id-comm-collab/blackberry-athoc>.

IIM release	Release date	Supported BlackBerry AtHoc release
6.1.0.151	May 2024	7.15
6.1.0.121	April 2024	7.15
6.1.0.100	March 2024	7.15
6.1.0.87	January 2024	7.15
6.0.0.149	September 2023	7.15
6.0.0.146	July 2023	7.15
6.0.0.127	May 2023	7.15
6.0.0.126	May 2023	7.15
6.0.0.125	May 2023	7.15
6.0.0.124	May 2023	7.15
6.0.0.117	February 2023	7.15
6.0.0.92	September 2022	7.15
6.0.0.92	August 2022	7.15
6.0.0.84	July 2022	7.15
6.0.0.87	June 2022	7.15
6.0.0.81	May 2022	7.15, 7.9
6.0.0.74	March 2022	7.15, 7.9
6.0.0.68	January 2022	7.9
6.0.0.67	January 2022	7.9
6.0.0.42	September 2021	7.9
6.0.0.38	August 2021	7.9

IIM release	Release date	Supported BlackBerry AtHoc release
6.0.0.34	June 2021	7.9
6.0.0.20	May 2021	7.9
5.0	December 2020	7.9

New in Release 6.1.x

6.1.0.151 – ATI – May 2024

- Added the ability to activate groups of sirens that are not pre-defined in the ATI REACT CCU and provided a way to set the timing for both repeater and non repeater-based activations.
- Enhanced the Siren Grouping feature, including siren activation.
- Added support for group dictionary, including dynamic determination of siren groups based on configurations.
- Implemented a sorting mechanism for siren activation, prioritizing groups with lower numbers, followed by individual sirens.
- Optimized activation logic for sirens. Introduced dynamic removal of siren and group duplications.
- Improved logging.
- Upgraded TTS engine to latest version.

6.1.0.121 – American Signal – April 2024

- Added support for redundant failover and geosiren targeting.
- Provided an activation of sirens whose sound coverage area intersects with the area of the alert.
- Deployed with 2 IIMs that work in tandem so that if the primary IIM fails to activate the sirens or is down, the secondary IIM takes over and performs the activation.

6.1.0.100 – Federal Signal – March 2024

An issue was fixed where the CapConService builder did not create the CapCon service.

IIM release support – March 2024

- IIM versions prior to 6.0.X are no longer supported.
- Java-based IIM devices are end of support and end of life as of March 31, 2024.
- All IIM devices are now available on a .NET code base.

New in Release 6.0.0.x

Migration to .NET: IIM was migrated from a Java to a .NET code base.

- The IIM is made of the following modules: Relay input card, text-to-speech, serial port, interface to BlackBerry AtHoc, encoders, logging, UI, license manager, and watch dog.
- Each of these modules were translated into .NET from JAVA.
- During the migration from Java version to .NET version, we kept the design and architecture of all the IIM modules and interfaces the same. Also, the features and functionality are kept the same in the .NET version of the IIM as Java version.

6.0.0.149 – September 2023

- **Zetron migration to .NET:** IIM was migrated from a Java to a .NET code base on Windows 2019 for Zetron.
- **Zetron pager:** The alert message limit was increased from 150 to 240 characters.

6.0.0.146 – July 2023

DTMF migration to .NET: IIM was migrated from a Java to a .NET code base on Windows 2019 for DTMF.

6.0.0.127 – May 2023

IIM FIPS 140-2 compliance: IIM was made FIPS 140-2 compliant by removing the Md5.cs library and replacing the SharpZip library with a secure FIPS 140-2-compliant library for Federal Signal (FedSig.)

6.0.0.126 – May 2023

IIM FIPS 140-2 compliance: IIM was made FIPS 140-2 compliant by removing the Md5.cs library and replacing the SharpZip library with a secure FIPS 140-2-compliant library for American Signal V2.

6.0.0.125 – May 2023

INFP 16 migration to .NET: IIM was migrated from a Java to a .NET code base on Windows 2019 for INFP 16.

6.0.0.124 – May 2023

IIM FIPS 140-2 compliance: IIM was made FIPS 140-2 compliant by removing the Md5.cs library and replacing the SharpZip library with a secure FIPS 140-2-compliant library for ATI.

6.0.0.117 – February 2023

- **LMRv2 migration to .NET:** IIM was migrated from a Java to a .NET code base on Windows 2019 for LMRv2.
- **MotoTrbo migration to .NET:** IIM was migrated from a Java to a .NET code base on Windows 2019 for MotoTrbo.

6.0.0.92 – September 2022

Minitor migration to .NET: IIM was migrated from a Java to a .NET code base on Windows 2019 for Minitor.

6.0.0.92 – August 2022

Indoor Fire Panel (INFP) migration to .NET: IIM was migrated from a Java to a .NET code base on Windows 2019 for INFP.

6.0.0.84 – July 2022

Monaco Warning System migration to .NET: IIM was migrated from a Java to a .NET code base on Windows 2019 for Monaco Warning System.

6.0.0.87 – June 2022

PA migration to .NET: IIM was migrated from a Java to a .NET code base on Windows 2019 for PA.

6.0.0.81 – May 2022

Motorola ACE3600 migration to .NET: IIM was migrated from a Java to a .NET code base on Windows 2019 for Motorola ACE3600.

6.0.0.74 – March 2022

SiRcom migration to .NET: IIM was migrated from a Java to a .NET code base on Windows 2012 for SiRcom.

6.0.0.68 – January 2022

- **API retry:** API retry enhancement was added.
- **API v2:** The SDK API was upgraded to API v2.
- **IPBS migration to .NET:** IIM was migrated from a Java to a .NET code base on Windows 2012 for IPBS.
- **Relay indicator:** The following relay indicators were added:
 - Push button
 - Success alert publish
 - Alert publish failure
 - Strobe Activation
 - Network Failure/Silent test

6.0.0.67 – January 2022

IIM FIPS 140-2 compliance: IIM was made FIPS 140-2 compliant by removing the Md5.cs library and replacing the SharpZip library with a secure FIPS 140-2-compliant library for Whelen.

6.0.0.42 – September 2021

AmSig migration to .NET: IIM was migrated from a Java to a .NET code base on Windows 2012 for American Signal (AmSig.)

6.0.0.38 – August 2021

FedSig migration to .NET: IIM was migrated from a Java to a .NET code base on Windows 2012 for Federal Signal (FedSig.)

6.0.0.34 – June 2021

ATI migration to .NET: IIM was migrated from a Java to a .NET code base on Windows 2012 for ATI.

6.0.0.20 – May 2021

Whelen migration to .NET: IIM was migrated from a Java to a .NET code base on Windows 2012 for Whelen.

New in Release 5.0.0

5.0.0 – December 2020

This section describes new and changed IIM features in IIM release 5.0.0.

- **Migration to .NET:** IIM was migrated from a Java to a .NET code base for Whelen on Windows 2016.
 - **Console window size:** The size of the IIM console window is now adjustable.
 - **Console icons:** The IIM console icons were updated to include the BlackBerry logo.
 - **IIM tray menu improvements:**
 - The options to start the IIM capcon console and capcon service were combined into a single tray menu option.
 - An option was added to read the capcon console logs.
 - **Text-to-speech default values:** The default values for text-to-speech settings were updated:

Setting	Default value	Range of values
Speed	77	30–150
Volume	40	—
Range	15	0–30
Pitch	100	60–130

- **TTS Config tab improvements:**
 - When updating and saving text-to-speech values using the TTS Config tab, the Apply button saves the current slider pin values to the system_private.config file.
 - The Undo button sets the last applied value of the sliders.
 - Each slider includes a text box that shows the current pin value. The slider value can be adjusted by entering an integer in the text box.
 - You do not need to click Apply to perform a Speak test from the GUI.
 - The Default button sets the sliders to their default values.

New in Release 2.11

The following section describes new and changed features in IIM release 2.11.

- **TTS Config tab with slider controls added to CapCon console:** A TTS Config tab with slider controls for volume, words per minute, pitch, and range was added. When a control is adjusted, clicking Apply updates the system_private.config file with the updated settings and restarts the CapCon service.
- **Task tray right-click functions for CapCon console:** The following right-click functions were added to the task tray icon for the CapCon console:
 - Hide Console: Hides the CapCon console.
 - Show Console: Displays the CapCon console.
 - Restart Service: Restarts the CapCon service.
 - Quit Console: Closes the CapCon console.
 - Stop All: Closes the CapCon console and stops the CapCon service.
 - Restart GUI: Restarts the CapCon console and the system tray icon.
 - Restart All: Restarts the CapCon console, the system tray icon, and the CapCon service.
 - Logs: Opens a list of log files in Capnode. Click to open a specific log file.
 - Configs: Opens a list of configuration and .prop files. Click to open a specific configuration or .prop file.

New in Release 2.10

The following section describes new and changed features in IIM release 2.10.

- **Social Media:** IIM now supports sending messages to Twitter in Japanese.
- **CapCon service functions:** The following CapCon service functions are now available from the task tray icon:
 - Start All: Starts the CapCon service and Java GUI-related processes.
 - Stop All: Stops the CapCon service, the Java GUI-related processes, removes the task tray notification icon, and stops the CapCon monitor (if enabled.)
 - Restart All: Performs all of the Stop All processes and then the Start All processes.
 - Restart GUI: Stops the Java GUI-related processes, removes the task try notification icon, and then starts the Java GUI-related processes.
 - Restart CapCon: Restarts the CapCon service.
 - Edit System_Private.config file: Runs Notepad as administrator and opens the system_private.config file.
 - View capnodelog: Opens the capnodelog file in Notepad for viewing.
- **CapNode GUI improvements:** The CapNode GUI was updated to include a tab for editing TTS variables. A button for saving variable settings and restarting the CapCon service was added. A window was added to type text and have it played as a preview for calibration.

New in Release 2.8

The following section describes new and changed features in IIM release 2.8.

SiRcom support

The SiRcom Giant Voice System is an outdoor Public Address (PA) system that uses large amplified speakers. Typically, speakers are set on poles in an array that covers a specified area with enough acoustic sound to override the ambient noise with emergency notification.

The BlackBerry AtHoc management system now supports integration with the SiRcom Giant Voice System. Using this integration, operators can send emergency alerts to the SiRcom system from the BlackBerry AtHoc management console. Alert messages can be delivered using key functions programmed in the SiRcom Giant Voice hardware or software, text-to-speech, or pre-recorded audio files to dynamically selected targets. Targeting choices are All Poles simultaneously, individual Zones of poles, and Poles.

The BlackBerry AtHoc integration with the SiRcom Giant Voice System also enables ending activated messages, and the ability to monitor the connectivity status of the integration and the operational status of the SiRcom Giant Voice System.

New in Release 2.7

The following section describes new and changed features in IIM release 2.7.

LRAD support

The Long Range Acoustic Device (LRAD) Warning System supports outdoor Public Address (PA) systems that have large amplified speakers. Typically, speakers are set on poles in an array that covers a specified area with enough acoustic sound to override the ambient noise with emergency notification.

Using the LRAD integration, operators can disseminate emergency alerts to the siren system from the BlackBerry AtHoc management console. Alert messages can be delivered using Key functions programmed in the LRAD Warning System hardware or software, or text-to-speech files to dynamically selected targets. Targeting choices are All Poles simultaneously, Individual Zones of Poles, and Poles.

New in Release 2.6

The following sections describe new and changed features in IIM release 2.6.

IIM Monitoring

The following IIMs have been retrofitted with the Air Force-compliant IIM monitoring feature:

- ATI
- American Signal V2
- Whelen V2
- Federal Signal
- CAWS
- Monaco
- Eaton Waves
- Public Address (Bogen)

Heartbeats

Monaco and Eaton now support heartbeats that allow the IIM administrator to find out if there are any problems on the Eaton or Monaco Central Control Unit (CCU). This information is currently only available in the IIM files.

Monaco Support (Phase 1)

BlackBerry AtHoc phase 1 support for Monaco includes the following capabilities:

- Allows a D-21 Monaco System to activate the BlackBerry AtHoc system supporting multiple modes of alert content creation: replace, append, and none.
- Allows Monaco to choose which alert template to activate.

Eaton Waves support

BlackBerry AtHoc Eaton Waves support enables BlackBerry AtHoc to activate Eaton Waves with audio transferred via RS 422 (so no separate analog audio connection is needed) to achieve less than a 30-second delay from alert publishing until the alert sounds on Eaton.

Resolved issues

6.0.0.125

Jira ID	Description
IIM-1587, IIM-1598	On INFP 16 .NET build 6.0.0.115, when an alert is processed by the IIM, the relays on the PCIE-1762H pull correctly and the IIM inserts the pause before the audio is played, but once the delay is inserted, the CapCon service crashes.

6.0.0.117

Jira ID	Description
IIM-1388	The logging incorrectly displays that the LMR V2 Pre-Tone and Post-Tone played instead of displaying the appropriate error message.
IIM-1409	The PTT relay turns ON as soon as an alert is downloaded to IIM instead of being turned OFF and the log file has no record of switching the PTT relay to OFF.
IIM-1432	After updating the LMR.ChannelGrant.Delay=600000MS(1min) and LMRBusyInput=high(ON), the relay channel grant takes six minutes to activate, instead of one minute.
INT-3831	The LMR.ChannelGrant.Count parameter is not working as expected.

6.0.0.74

Jira ID	Description
IIM-1091	SiRcom does not process an alert when there are more than 1500 characters in the alert title and body.

6.0.0.38

Jira ID	Description
IIM-966	Serial data strings sent from IIM to Federal Signal (FedSig) are not displayed in the Capnode logs or CapCon console.
IIM-941	Sound from amplifiers is not heard when processing a FedSig public address alert.

6.0.0.34

Jira ID	Description
IIM-887	Java ATI: An error is displayed while processing an alert if the CapCon console was started before the CapCon service.
IIM-922	Serial data strings sent from IIM to ATI are not displayed in the Capnode logs or CapCon console.

6.0.0.20

Jira ID	Description
IIM-904	ATI: "H" was appended to the name of the PCIe-1761 and PCIe-1762 cards in the system.config file.

5.0.0

Jira ID	Description
INT-527	Fixed the alert processing mechanism on IIM for handing parallel alerts.
INT-792	Java versions 8u261 and 8u27 break the functionality of IIM.
INT-794	On .Net for DOS, the relay on/off interval is not correct.

2.6

Jira ID	Description
INT-364	Capnode license check should look at all MAC addresses, not just the first one to allow for multiple network connections to IIM.
—	Increased IIM Text to Speech delivery speed by 70%.

Known issues

6.0.0.117

Jira ID	Description
IIM-1520	In Option C, the "Sense Busy Delay" parameter should be "Channel Grant Wait Time" and the "Sense Busy Input" parameter should be "Channel Grant Input" to prevent confusion with Option B parameters.
IIM-1538	<p>The DIStateChange is implemented incorrectly. The DIStateChange looks for a new state after the state that is detected in the beginning of an alert. Sometimes, the DIStateChange looks for an incorrect state such as "Lower" instead of "Low" or "Higher" instead of "High" which prevents an alert from being sent.</p> <p>0-reference is followed for inputs, but outputs are 1-referenced. Both inputs and outputs should be 0-reference.</p>

6.0.0.92

Jira ID	Description
IIM-1393	The timing of relays closing and opening, and the reporting of that timing, is inaccurate.

6.0.0.74

Jira ID	Description
IIM-1191	The SiRcom All Poles alert is not activated for TTS and prerecorded audio alerts.
IIM-1236	The SiRcom "Audio Repeat" alert device option does not work.

6.0.0.42

Jira ID	Description
IIM-1017	American Signal: Optimization is incorrect when an alert is sent to multiple congruent poles.

6.0.0

Jira ID	Description
IIM-956	The CapCon console does not start after a restart on an ATI IIM. To work around this issue, manually start the CapCon console.

5.0.0

- There are no known issues in this release.

2.11

- There are no known issues in this release.

2.10

- There are no known issues in this release.

2.8

- There are no known issues in this release.

2.7

- There are no known issues in this release.

2.6

- There are no known issues in this release.

Behavior changes

Behavior changes are changes in existing functionality that you need to be aware of when upgrading to the latest IIM release. These changes require that you re-learn existing functionality.

6.0.0

- **ATI IIM restart:** After restarting an ATI IIM, the CapCon console is not automatically started. You must manually start the CapCon Console.

BlackBerry AtHoc Customer Support Portal

BlackBerry AtHoc customers can obtain more information about BlackBerry AtHoc products or get answers to questions about their BlackBerry AtHoc systems through the Customer Support Portal:

<https://www.blackberry.com/us/en/support/enterpriseapps/athoc>

The BlackBerry AtHoc Customer Support Portal also provides support via computer-based training, operator checklists, best practice resources, reference manuals, and user guides.

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