



# Release Notes

## identiMetrics Biometric ID Platform™ Version 2.3

**identiMetrics**

# Release Notes

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## Version 2.3.2.0

- Fixed a bug in the services that can cause all connected Scan Managers to be disconnected if one of them is forced to reconnect due to a temporary loss of connection which requires the service to be restarted.

## Version 2.3.1.0

- Fixed bug in the installer that did not install DbManager.exe when the install did NOT include a service. Without the DbManager, the upgrade will not update the properties files with the values from the previous version.

## Version 2.3.0.4

- Added a work-around for the backup-enroll corrupt database issue.
- Fixed bug in all services that caused them to not start if the the license has more than 31 connections specified.
- Modified MultiScan to add the SCAN\_TRANS\_DB output type. This type outputs identification data to a table from all scanners to an Access database specified in the properties.
- Modified MultiScan to work with the June 10, 2019 version of ScanRecorder and AttendanceWriter.
  - Works with new version of Hello method.

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- Works with new code in AttendanceWriter that allows the parent location (School ID) to be set to indicate 'all' schools instead of a specific school.
- Added the ability to install MultiScan by itself or with other services as part of the standard identiMetrics installer.
- Modified ServiceMan to enable it to set the start options for MultiScan to auto, auto-delayed or manual, and to set a dependency for either IdProvider or BioEngine service if registered.
- Improved logging for MultiScan so that duplicate error messages aren't displayed for connection issues.
- Modified the client connection authentication to allow clients with different version numbers to connect.
  - Currently v2.2.7 will connect to v2.3.0.
- Added code to prevent new A keys from having more than 28 connections.
- Improved the enroll error handling and messages.

## Version 2.2.7.34

- Fixed bug that caused the enroll icon to not display when Windows text settings were changed.
- Changed the Security Question input in the My Profile and User Profiles dialogs to allow the user to select one of the predefined questions or enter their own.
- Changed the default Administrator security question/answer to "What is your favorite color?" and "Any color".
- Changed the Value field for the 'Emailer – SMTP Host Password' Option so that it hides the password.
- Changed the default Start Time Options for the following Tasks:
  - IdLog - 22:00
  - Backup - 22:30
  - Compact -23:00
  - Import - 00:30
- Added 'RALLYPOINT' Response Type.
  - ID Template - "ID, \",\", First, \",\", Last"
  - Fail Template – empty
- Changed the default value for the 'Scheduled Import - Log Level' Option to 'Detail'.
- Changed the upgrade process to set the Edit Mode to Edit/Enroll instead of Auto/Enroll when upgrading a Site service.
- Updated the [identiMetrics Enrollment Manager Guide](#).
  - Modified the Enrolling section to show the new error messages.
  - Modified the **User Management | My Profile** and **User Management | User Profiles** sections to show the new Security Question field which allows the user to select a question or enter one of their own.

## Version 2.2.7.33

- Fixed bug in MultiScan that prevented it from sending a Checkin post for all valid scans.

## Version 2.2.7.32

- Fixed bug that allowed two people to enroll to the same enrollment record when the enrollments were done on two Enrollment Managers at the same time.

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## Version 2.2.7.30

- Added HUPx installation to the installer. It requires the user to respond to the 'Unknown author' error dialog.
- Digitally signed the installer.

## Version 2.2.7.29 – 1/11/2019

- Fixed a bug that occurred when running the Updater that prevented it from updating the clients because the installer version was different than the service version. Re-built all of the applications so that they are all version 2.2.7.29.

## Version 2.2.7.29 – 10/26/2018

- Fixed IAAP token bug in Scan Manager and MultiScan. These are the ONLY executables that have the 2.2.7.29 version. All other files are still 2.2.7.28.

## Version 2.2.7.28

- Improved some scan error messages.
- Added some conversions for Scan Manager properties for properties related to HTTP\_POST changing to HTTP\_POST\_SR.
- Fixed minor bug in DB Manager when using the 'Upgrade Property File' tab that caused a file error when changing the From Version but not changing the App Type.

## Version 2.2.7.26

- Fixed bug in Enrollment Manager that caused the Scheduled Import – Layout option to be incorrect whenever the user changed the Distribution Mode of a Distributor.
- Modified the Enrollment Manager to show the license warning message when the number of days left is 45 or less.

## Version 2.2.7.25

### Scanning Improvement Changes

- For Employee Timeclock Users, modified the Enrollment Manager and Scan Manager to add the ability to display the finger image and other visual placement aids to assist in proper finger placement.
- Modified Scan Manager to log placement information and to log the results of enrollment, verification and identification, including score, when logging mode is set to 'debug'.
- Added log message to show scanner type being used.
- Minimum Area
  - Changed property from 'scanner.area.min' to 'scanner.qcheck.area.min'.
  - Changed default from 35 to 0 (any area is okay).
  - Changed the default error message from 'CENTER' to 'PLACE AGAIN' for standard display and 'MOVE TOWARD ARROW' for FP display.
  - Added 'scanner.qcheck.area.min.msg' property to allow user to set the message.
- Minimum Contrast
  - Changed property from 'scanner.contrast.min' to 'scanner.qcheck.contrast.min'.

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- Changed default from 25 to 20
- Changed the range from 0 – 40 to 0 - 49.
- Added 'scanner.qcheck.contrast.min.msg' property to allow user to set the message.
- Maximum Contrast
  - Changed property from 'scanner.contrast.max' to 'scanner.qcheck.contrast.max'.
  - Changed default from 85 to 80.
  - Added a range from 51 – 99.
  - Changed to default error message from 'MOISTEN FINGER' to 'WET FINGER w/WATER'.
  - Added 'scanner.qcheck.contrast.max.msg' property to allow user to set the message.
- Minimum Quality
  - Changed property from 'scanner.quality.min' to 'scanner.qcheck.quality.min'.
  - Added a default for enrolling of 65 (default for identification is still 50).
  - Changed the range from 0 – 60 to 0 – 99.
  - Added 'scanner.qcheck.quality.min.msg' property to allow user to set the message.
- Maximum Tip
  - Changed property from 'scanner.tip.max' to 'scanner.qcheck.tip.max'.
  - Changed default from 52 to 50.
  - Changed the range from 0 – 60 to 0 – 99.
  - Changed to default error message from 'PLACE FLAT' to 'PLACE FLATTER'.
  - Added 'scanner.qcheck.tip.max.msg' property to allow user to set the message.
- Minimum Score
  - Changed property from 'scanner.score.min' to 'scanner.qcheck.score.min'.
  - Changed the range from 30 – 55 to 0 – 99.
  - Added 'scanner.qcheck.score.min.msg' property to allow user to set the message.
- Maximum Distance
  - Changed property from 'scanner.distance.max' to 'scanner.qcheck.distance.max'.
  - Added a default for enrolling of 65 which is the percentage of the smallest dimension (height or width). The default for identification is still 75.
  - Added a range from 0 – 90.
  - Standard Display
    - Changed the default error messages:
      - Old: 'MOVE RIGHT', 'MOVE LEFT', 'MOVE BACK', and 'MOVE FORWARD'.
      - New: 'MOVE DOWN AND RIGHT', 'MOVE DOWN AND LEFT', 'MOVE UP AND LEFT', and 'MOVE DOWN AND RIGHT'.
    - Added properties to allow user to set the message:
      - 'scanner.qcheck.distance.max.q1.msg' for down and right.
      - 'scanner.qcheck.distance.max.q2.msg' for down and left.
      - 'scanner.qcheck.distance.max.q3.msg' for up and right.
      - 'scanner.qcheck.distance.max.q4.msg' for up and left.
  - FP Display
    - Added a default error message 'MOVE TOWARD ARROW'.
    - Added 'scanner.qcheck.distance.max.msg' property to allow user to set the message.
- Added property 'scanner.enrollment.placement' (standard or offset) to allow the enrollment placement strategy to be changed.
- Added property 'scanner.identify.prompt' to allow user to change. Changed the default from

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'PLACE FINGER LIGHTLY' to 'PLACE FINGER FLAT'.

- Added properties 'scanner.enroll.prompt1' with a default of 'PLACE LEFT FINGER' and 'scanner.enroll.prompt2' with a default of 'PLACE RIGHT FINGER' to allow user to change.
- Changed the order of the quality checks to put more important checks first.
  - Old order: distance, area, tip, min contrast, max contrast, and quality.
  - New order: tip, min contrast, max contrast, distance, quality and area.
- Simplified trace log code to make format same as standard log.

## Additional Changes

- Modified Scan Manager and Enrollment Manager and their initial properties to make 'SECUGEN' the default scanner.
- Modified the Scan Manager 2 initial properties to set the default scanner to 'FUTRONIC'.
- Added Help menu item to the Scan Manager and Enrollment Manager that opens the default browser and displays the 'www.GOIDM.com' web page.
- Modified Scan Manager and MultiScan to allow the user to specify an additional HTTP\_POST type HTTP\_POST\_PS that will write scan data directly into a PowerSchool table. You can also specify HTTP\_POST\_SR as the output type which is the same as HTTP\_POST. Since it's backward compatible, I am NOT changing the type name during an upgrade.
- Fixed bug in all services that could prevent Scan Managers from connecting if more than one Enrollment Manager is open at the same time that all the.
- Fixed bug that occurs when running the 'Apply Rules' function on End-of-Year. If the Auto Import is configured to run, it is supposed be turned off. The code changed the Run Option but failed to stop the Auto Import task.
- Fixed bug that prevented the Installer from recognizing when a second Scan Manager is installed and fails to upgrade it and can even uninstall it.
- Fixed bug in Biometric Engine, Distributor and BioDbViewer the causes an error to occur when running a Compact and Repair the second time when the database has more than one cluster. This occurs on databases that exceed 1 GB or roughly 22,000 enrollments.
- Fixed bug that occurred when adding a 'Synching Biometric Engine' and the Distribution Mode is set to 'Everyone Everywhere' and prevented existing records from being synched with the new location.
- Fixed bug that occurred when trying to delete a 'Synching Biometric Engine' and the Distribution Mode is set to 'Everyone Everywhere'. The bug prevented the delete because it always determined that there were people synching to that location.
- Fixed bug that occurs if a Scan Manager tries to connect AFTER you have reached the connection count limit, then the location name gets added but does not get removed. If you try to connect after fixing the count issue, you will get the 'location already connected' error.
- Fixed bug that occurs if the Scan Manager that makes the last available connection has to do a reconnect, it will fail with a connection count error. After responding to the error message the user can connect using the menu item or restarting.
- Fixed bug that is caused when a connection error occurs when trying to send the 'authenticate' message back to a Scan Manager. The location name did not get removed and Scan Manager would get the 'already connected' error the next time it tries to connect.
- Fixed bug that occurs when a Scan Manager has to reconnect. When the 'old' connection was stopped, its location name was incorrectly being removed from the name list and could allow another connection with same name to connect.
- Fixed bug in Scan Manager that could prevent the 'stop identifying' process from working.

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This would cause Scan Manager to 'hang'.

- Fixed a memory leak in Scan Manager.

## Version 2.2.6.3

- Fixed bug in Enrollment Manager that caused it to crash if you entered an FTP folder without a leading slash in the Support dialog.
- Fixed bug that occurs while logged in to Enrollment Manager that caused an error message indicating the user is already logged in when doing a reconnect after the NIC has received a new IP address.
- Fixed bug that occurs when running Scan Manager that caused an error message indicating the location is already connected when doing a reconnect after the NIC has received a new IP address. Fixes issue with a tablet being moved while Scan Manager is running.
- Fixed bug in upgrade that failed to add the EOY Enabled property when upgrading from a Site Server.
- Fixed bug that caused duplicate records to be sent to the Enrollment Manager when the number of records to be returned is exactly  $22 + (n * 2000)$ , where n is 0 or more. The grid will display the last group of records multiple times.
- Fixed bug in Prefix/Suffix documentation relating to the delay feature.
- Added code to Scan Manager to allow it to output a different location name (client.room property) than the location it sends to the identification service when the Output Type is set to HTTP\_POST.
- Modified the way that FTP connect and download code works to try to be more flexible in dealing with different FTP servers.

## Version 2.2.5.3

- Changed the default setting for the 'Scheduled Compact - Run?' Option to 'Yes'.
- Updated [Enrollment Manager Guide](#) to add info on hiding a column in the grid for use in printing.
- Fixed bug in merge function of DB Manager that caused enrollments to NOT be merged if a matching record was found.
- Fixed bug in the **End-of-Year Properties** dialog that validated the **End-of-Year Date** incorrectly preventing the month and day from being less than the current month and day.
- Fixed bug in the Biometric Engine and ID Provider that causes a synch reset to work incorrectly for databases greater than ~25,000 records (more than 1 dataset).
- Fixed bug that caused 'BAD\_FIELD\_IN\_LAYOUT' to be output when scanning with a Response Type that includes one of the non-database fields (Date, Time or YesNo).
- Fixed bug in **Response Type** dialog that limits the ID and Fail Templates from being longer than 64 characters.
- Fixed bug in Import task that caused any layout errors to be ignored when the task is started or restarted forcing errors to occur during the actual import.
- Fixed bug that caused confusion when setting up layouts for Imports, Exports, Response Types and the Identification Log where 'Location' was being used for different purposes. Changed Import and Export to use EngineNames and Response Type and the Identification Log will still use 'Location' to refer to the location of the scan.
- Fixed bug in Enrollment Manager when using Import and Export that did not check if 'EngineNames' is required in the Layout when connected to a Distributor and did not exclude



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'EngineNames' when NOT connected to a Distributor.

- Fixed bug in Identification Log task that caused any layout errors to be ignored when the task is started or restarted forcing errors to occur when writing the log.
- Fixed bug in Enrollment Manager that caused the enrollment grid to be refilled whenever a Synching Biometric Engine was added, deleted or changed. The only time the grid is affected is when connected to a Distributor AND a Biometric Engine Name is changed.
- Fixed bug in Enrollment Manager that was not writing an entry to the EnrollMan.log file when doing a backup.
- Fixed bug that caused a backup to be created in the wrong folder if an existing backup folder existed with the same name. For example, if backing up to the 'SomePath\Backup.June8\1' folder, the new backup should be created in the folder 'SomePath\Backup.June8.1\1'.
- Fixed bug in **Rules** dialog that was displaying the wrong column name in several of the error messages.
- Fixed bug in DB Manager when upgrading a property file from the UI that caused all path conversions to be incorrect.

## Version 2.2.4.5

- Added the ability for the user to delete a Synching Biometric Engine if it has unsynched records. This is useful in cases where a location is never synched or goes away without synching all records.
- Modified Auto Synch on Distributor and Biometric Engine to email all errors from synch at one time instead of an email for each error.
- Added version number to license request form.
- Changed the delimiter for Location Lists from brackets ('[' and ']') to quotes and only require them when Import is using a Comma delimiter and there is more than one location.
- Changed licensing messages to use 'identiMetrics' instead of 'identiFi'.
- Improved error messages when inputting or importing invalid data for a person.
- Added an email notification to Auto-Import when an import contains errors.
- Fixed bug that causes Enrollment Manager to crash if the user enters extra commas in the Biometric Engine Names column. For example: ", BEService-1" or "BEService-1,,BEService-2".
- Fixed bug that allowed the same finger to be enrolled during a synch.
- Fixed bug in Apply Rules that could cause the wrong Biometric Engine Name to be changed.
- Fixed bug in synch that caused an enrolled person to be downloaded from the Distributor without their bio data if the change was ONLY a location add or change.
- Fixed bug in DB Manager that allowed a merge to work with any database types on either side.
- Fixed bug in synch that left conflicting enrollments in the Distributor and Biometric Engine in place after detecting conflict.
- Fixed bug in Identify, Enroll and Verify that caused the yellow light to not be turned off when using the Traffic Light.
- Fixed bug in Identify that caused it to disconnect on data errors.

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- Fixed bug in Verify the caused it to ask the 'unenroll' question when the same finger is placed twice. This is now an error.
- Fixed bug in connection counting that could allow an extra connection if two connections occurred simultaneously.
- Fixed bug in Import (manual) that caused the last line to be ignored if the number of lines ends in a 1 (1, 11, 21, etc.).
- Fixed bug in Export that caused deleted locations to be exported if you deleted a location and ran an Export before refreshing the data.

## Version 2.2.3.6

- Fixed bug in DB Manager that causes a 'date/time component out of range' error when upgrading from versions older than v2.0.9.

## Version 2.2.3.5

- Fixed minor bug in Scan Manager that can cause the properties file to become corrupted when the 'Save Position on Exit' is on, Scan Manager is running and the computer is shutdown or restarted.

## Version 2.2.3.4

- EOY Management is now enabled during installation.
- Improved all EOY related messages to provide user more information.
- EOY Date can now include the current date.
- The Daily task will now send an email notification to administrators when the current date is the SOY date or within the warning period.
- The Daily task will now send an email notification to administrators when the current date is the EOY date and will continue until Apply Rules is run.
- Fixed bug in the Daily task that prevented it from processing in a given day if the service was not running at 00:01.

## Version 2.2.2.1

- Updated the installer to process Change installs correctly.
- Updated the Scan Manager to open an Enrollment Manager window even if the Enrollment Manager was not installed.
- Updated the code that handles all changes that occur when enabling or disabling a Distributor from the Properties dialog for a Biometric Engine. When enabling a Distributor, the Scheduled Import option will be turned off and will be read-only. When disabling a Distributor, the option will be set read/write so the user can change as needed.
- Modified the Updater to use a configurable shutdown delay for use when running on Win 8, 8.1 and 10 where the shutdown process can take longer than on Win 7.

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## Version 2.2.1.15

### The major changes:

- The names of many items have been changed:
  - Site Server – Biometric Engine
    - SiteServer.exe – BioEngine.exe
    - SiteServer.properties – BioEngine.properties
    - SiteServer.log – BioEngine.log
  - ID Server – ID Provider
    - IdServer.exe – IdProvider.exe
    - IdServer.properties – IdProvider.properties
    - IdServer.log – IdProvider.log
  - Enroll Client – Enrollment Manager
    - EnrollClient.exe – EnrollMan.exe
    - EnrollClient.properties – EnrollMan.properties
    - EnrollClient.log – EnrollMan.log
  - ID Client – Scan Manager
    - IdClient.exe – ScanMan.exe
    - IdClient.properties – ScanMan.properties
    - IdClient.log – ScanMan.log
  - SynchToSite.exe – SynchIdNow.exe
  - BioEngine.dll – FvBioLayer.dll
  - DataEngine.dll – IsoDataLayer.dll
  - Default database folders:
    - Site – BE
- Added a new service called the Distributor. It will make it easy to manage the enrollment data when using more than one Biometric Engine.
- Updated the Enrollment Manager to handle Biometric Engine Names where required when connected to a Distributor.
- Added support for the Futronic Ethernet Scanner.
- Added the HTTP\_POST output type for sending scan info to a web service.
- Rewrote the Scanner DLL to enhance the way the Managers handle and present connection and non-connection errors.
- Moved the EOY property from the Options dialog to the Properties dialog.
- Added the 'Edit Mode' property to allow the administrator to limit ways in which the data can be changed.
  - **NOTE:** The default value of the 'Edit Mode' property is **Auto/Enroll** for Distributors and Biometric Engines. This is true whether you just upgraded a Site Server or did a brand new installation and applies to all users of the service. It will be necessary to determine from the customer what the proper value should be.

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## Additional changes:

- Added the ability to specify a delay ('/dnnn') in the output of **Prefix** and **Suffix** values.
- Fixed bug in Scan Manager Preferences dialog that tested the property values using a case-sensitive test when setting correct dropdown value.
- Fixed bug in 1.7.2 conversion file that wasn't translating 'IDENTIFY' into 'IDENTITY'.
- Fixed bug in DB Manager that ignored the 'To File' in Update Property File dialog.
- Fixed bug in the DB Manager Merge that caused an exception when an enrollment failed.
- Fixed bug in Merge (DB Manager and Enrollment Manager) that caused it to stop processing after getting an enroll error.
- Fixed bug in **Find and Replace** that caused remaining text after the replace to be in lowercase if the 'Match Case' was set to false.
  - Find: 'CD ', Replace: "", Text: 'AB CD EF'. Result: 'ab ef' instead of 'AB EF'.
- Fixed bug in Find and Replace that caused the replace to always start at the beginning of the string instead of at the start of the found text if the 'Match Case' was set to true.
  - Find: 'CD ', Replace: "", Text: 'AB CD EF'. Result: 'CD EF' instead of 'AB EF'
- Added driver files to assist in manual installation of Secugen HUPx scanner.
- Fixed bug in Identification Log task that caused the server to stop if an error occurred during startup.
- Modified task management to improve the way that exceptions are handled and reported.
- Fixed a bug in BioDbViewer that prevented the repair from processing all records under certain conditions.
- Fixed bug in Identification Log task that didn't handle file errors correctly when a directory needed to be created.
- Modified the installer so you can choose to install the Scan Manager independently from the Enrollment Manager.
- Modified the installer so you can install a second Scan Manager. The second Scan Manager's **Scanner Type** property defaults to Secugen.
- Modified the installer to create registry entry to 'turn off' the Secugen live finger detection.

## Version 2.1.1.4

- Fixed bug in ID Client that could cause an 'Image NOT available (-56)' error after reconnecting to the server. Under certain conditions it can also cause the server to crash and restart.

## Version 2.1.1.2

- Fixed bug that caused the synch fields to be emptied if you made any location edits using the **Properties...** or **Synch Servers...** dialogs in the Enroll client. This would cause the synch to download all the records all of the time.
- Fixed bug that didn't report ignores correctly for an auto or manual import.
- Fixed install to put the correct document in the Com0Com folder.

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## Version 2.1.0.7

- Fixed bug that affected the start times of tasks whenever the servers are running and the local time is changed when Daylight Savings Time starts and stops.

## Version 2.1.0.6

- **Notice:** There have been important database changes as part of this update. As a result, all ID servers will do a reset and full download during the first synch after the update.
- Added Transfer action and Start-of-Year Date to EOY processing.
- Modified all executables to enhance error message when log file can't be opened.
- Updated Enroll Client and ID Client to fix several interface bugs:
  - Ctrl-x no longer deletes all text in the selected row.
  - Grid resizing works smoother and won't leave a gap.
  - The 'Save or Cancel' message will continue to display if an error occurred when trying to do a Save.
- Fixed bug in Enroll Client that caused crash if you did an Enroll (manual or merge), then did a Verify and unenroll, then started an Enroll and cancelled it.
- Updated Scanner to add BK SideSwipe (Validity) scanner support.
- Changed BackupTask Run default to 'Yes'.
- Changed CompactTask Start default to '01:30'.
- Fixed bug in IdLogTask so that identify can determine if logging is on in real-time.
- Added synchNowWithReset method to RemoteController.dll and SynchToSite.
- Updated BioEngine to improve transaction handling such that it doesn't create license issue when rolling back a delete.
- Updated BioDbViewer64 to show flags field for each record and to provide a way to edit the user data and flags fields.

## Version 2.0.9.4

- Added support for the Traffic Light USB device to the Enroll Client.
- Added ability to use more than one Traffic Light.
- Fixed bug in the servers that prevented a reconnect from the same client.
- Fixed bug in the clients that caused certain connection errors to generate thousands of log messages before timing out.
- Changed Merge and Transfer so that they run exclusively.
- Fixed bug in RemoteController.dll that caused a crash if the properties file was not found.

## Version 2.0.9.3

- Changed Synchronize so that it does NOT have to run exclusively.
- Changed Synchronize and many related features to mark changes by date.

## Version 2.0.9.2

- Fixed bug in BioEngine.dll to report error when license is expired.
- Changed license validation during startup to add an open database check rather than wait till a connection is made.
- Changed the Import/Auto Import process to the data was changed before updating the

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database. Will improve performance of imports and synchs.

- Fixed bug in DbManager so an update can set new values for existing properties.
- Added support for the Traffic Light USB device to the ID Client.
- Changed License dialog in Enroll Client to show if license is valid or not.
- Fixed bug in Enroll Client that prevented you from logging in there was a license issue.
- Fixed bug in Updater that caused it to not detect a new release if the version number had more than one digit in the build field (e.g. 2.0.7.10).
- Fixed bug in task start that caused it to start non-internal tasks when the license is invalid.
- Fixed bug in installer that caused a Change install to fail if you ran install file from a location and then deleted it afterwards.
- Fixed bug in properties that set the log time to 12-hour format instead of 24.
- Updated ftrScanApi.dll to v13.2 (Futronic.zip)

## Version 2.0.8.3

- Updated the Backup, Compact and Synch tasks to improve the pause/reschedule handling, exception handling, logging and email error reporting.
- Changed the connection logging in the servers to improve readability and usefulness when in 'Information' mode.
- Fixed bug in Synchronize caused when deleting and re-adding a location with pending changes.
- Fixed bug in Synchronize caused when a reset download gets interrupted and records are deleted before the rest of the synch is completed.
- Updated Synchronize to do an optimization after the download if records were deleted.
- Added ability to do a Synch Now with database reset from the Enroll Client.
- Changed Compact and Repair to send an error email if there are any template issues. Especially useful when running an Auto Compact.
- Changed emails to put message content in an attachment so text can be formatted.
- Fixed bug in importPeople, ImportTask and IdLogTask that required the delimiter setting to be in all caps or else the format would fail.

## Version 2.0.8.2

- Fixed bug Rewrote the onTimer, setTempSchedule and clearTempSchedule and several computational methods in TimedTask to fix restart issues related to pausing tasks that fail to start because the server is busy (backup, compact and synch)
- Changed Backup, Compact and Synch tasks to improve run logging and 'server busy' handling.
- Updated DbManager to skip enrollments that were made in versions of identiFi earlier than 1.6 when doing an update or merge.
- Added the ability to send a test email using the current email settings from the **System Management** menu in the Enroll Client.

## Version 2.0.8.1

- Fixed bug in the Import and Auto Import that prevents the importing of records when using the 'quote text' option.
- Fixed bug in the ID client that prevents it from reliably generating ID Log entries when the 'Generate ID Log' option is turned on. NOTE: if the log is turned on or off while there are ID

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clients that are connected, they won't start or stop logging until they are reconnected.

- Fixed bug in the Updater that prevented it from recognizing versions where there were more than 7 characters (e.g 2.0.7.10). I've jumped this version to 2.0.8.x to work around the error.

## Version 2.0.7.10

- Fixed bug in the Auto Import task that caused an unhandled exception when the import path had bad syntax or invalid access rights which caused the Pause flag to NOT be cleared which prevented Backup, Synch and Compact tasks from running.
- Modified the image handling to work around a manufacturing problem with the Futronic FS80H scanner that allows material to get under the bezel and affect the image.
- Updated the Futronic driver to v13.2 to improve performance.

## Version 2.0.7.9

- Fixed bug in the synch as follows: Delete an enrolled record and immediately add a record with the same ID as the deleted record (before a CaR or synch has run). Run a synch. The synched record will be incorrect on both sides. On the SS it looks not enrolled but is and in the ID side it looks enrolled but it's not.

## Version 2.0.7.8

- Fixed bug in IdClient that could cause a 'This location name is already connected!' error after saving preferences, changing sounds or opening the EnrollClient.

## Version 2.0.7.7

- Fixed bug in IdClient that caused the Change Sounds menu item to display the sounds correctly, but would not play the selected file and would not change the properties to the selected file.
- Improved the code that restarts the identification thread when the menu is closed but a menu item was NOT selected.

## Version 2.0.7.5

- Added new End of Year (EOY) processing feature. This feature lets you set up one or more rules that allow you to change the Level 1 and Level 2 values for a group of records. After the EOY date, you can apply the rules at one time. The main purpose is to provide an easy mechanism for 'promoting' students when identiFi is being utilized in a school setting.
  - Added an EOY Processing option that enables the user to turn this feature on or off.
  - Added an EOY Management menu item to EnrollClient when the EOY Processing option is turned on.
- Added an Updater application that enable the user to check to see if an update is available and is so, download and install it. Once the primary server is updated, the Updater can be run on any computer with an IdServer or clients and download and install the new version.
  - Modified the authentication code in the server to reject any clients that don't have a compatible version.
- Updated all the programs to use the new identiMetrics' icons.
- Changed server interface so that clients MUST be upgraded at same time server is.

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- Fixed bug in EnrollClient when filling the grid so the progress meter works more smoothly.
- Fixed bug in EnrollClient when trying to exit the application while the grid is still being filled so that the program responds quicker.
- Fixed bug in EnrollClient when doing a restore so that menu items will be adjusted based on the 'new' database.
- Fixed bug in EnrollClient when resizing the window so that the columns will be resized correctly.
- Fixed bug in IdClient that would cause the menu item 'Enroll and Manage...' to fail if the title bar icon was clicked on to open menu instead of R-clicking on title bar.
- Fixed bug in servers that caused a crash if the properties file was missing.
- Fixed bug in servers that caused a crash if one of the logging properties was invalid.
- Improved efficiency of installer by checking some components to determine if they were already installed.
- Dropped drivers for these Scanners:
  - Atmel
  - Authentec
  - Authentec70
  - Authentec90
  - Bioca
  - Biometrika
  - Broadcom
  - Ethentica
  - Fujitsu
  - Identix
  - Koehlke
  - Lumidigm
  - Polaroid
  - Precise
  - Sagem
  - Silex\_FM200
  - SilexPCMCI
  - Tacoma

### Version 2.0.6.7

- Fixed a bug in the servers that counted the connections incorrectly when doing an enroll or verify.

### Version 2.0.6.6

- Modified the synchronization to process a record at time so that any interruptions will cause the next synch to start where it left off instead of from the beginning.
- Modified the synchronization to process to improve the performance of processing enrolled records.
- Modified the synchronization process to fix a bug that caused the enrollment records to get mixed up when adding or updating a record with an ID that already exists but is marked as deleted (reusing an ID).
- Modified IdClient so that you when opening the EnrollClient from the menu, it will use its own



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property file so that the IdClient and EnrollClient can be configured separately. This is important when IdClient is connecting with IdServer but the EnrollClient is connecting to a SiteServer.

- Modified IdClient to fix a bug that occurs when identifying and using the Host App property and the client requests the user to open the application when it's already open.
- Modified the Scanner.dll to fix a bug that caused Verify to always fail on first finger.
- Modified the BioEngine.dll to fix bug in Enroll that caused it to crash if attempting to enroll the same finger twice.
- Modified the connection code so that if the server is taking too long to complete an action, the user will be given the option of continuing or cancelling.
- Modified the BioEngine.dll to improve performance and stability.
- Modified the EnrollClient so that if it's being run as a stand-alone application, you can use the File | Logout menu item to close the connection and return to the login dialog instead of closing the application.
- Modified DbManager to add a Merge tab so that you can merge the enrollment records of one database with another one. The 'from' database can be any previous version. This is useful when upgrading an existing V1 customer one location at a time.
- Modified DbManager to fix a bug that caused the first record in a 1.7.2 database to be skipped when doing an upgrade.
- Modified DbManager to display simple status information when doing an upgrade or merge.
- Modified DbManager to change the default Site server name from 'Main Server' to 'Site Server'.
- Modified the servers to change the way they count connections. ID clients always count as one. Enroll Client is only counted when it's doing an Enroll or Verify (it's using a scanner) and server to server connections are not counted.
- Added a 'Start Service' and 'Stop Service' shortcuts to the Start | All Programs | identiMetrics folder.
- Renamed the 'Id Server – Start' and 'Site Server – Start' shortcuts in the Start | All Programs | identiMetrics folder to 'Run Id Server Application' and 'Run Site Server Application'.
- Updated the ID Client, Enroll Client, Server and Deployment Guides.
- Modified the Futronic installation to support the new FS80H scanner.

## Version 2.0.5.9

- Added feature 398 to ID client that enables the scanner to check for a connection without user intervention during identification. Added the property 'scanner.reconnect.waitms' to allow the delay time between checks to be adjusted. The default is 2 seconds.
- Modified the BioDbViewer (support application) to fix a few minor bugs, add a repair feature and modified the About box to be consistent with the rest of the applications.
- Updated the address and fax info for identiMetrics in the client About boxes.

## Version 2.0.5.8

- Fixed bug 392 in the ID client that caused the sound to not work after reconnecting to the scanner when it lost connection and the user fixed and chose retry.

## Version 2.0.5.7

- Fixed bug 388 in the synchronization code that caused the connection to timeout if the

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transmission of a full download took too long.

- Fixed bug 382 and 390 relating to backups running before or after enrollments on Win 8.

## Version 2.0.5.6

- Fixed bug 379 in the RemoteController.dll that caused the checkForChanges method to not be found when calling from JAVA.

## Version 2.0.5.5

- Added the ability to do a Synch Now call using the RemoteController.dll that only returns counts and does NOT process the synch.
- Fixed bug in installer that prevented you from installing to a folder at the root (e.g. C:\identiMetrics)

## Version 2.0.5.4

- Added the ability to do a manual synch (Synch Now) from the Server Management menu when logged on as an administrator and connected to an ID server.
- Modified the database to allow the Location's user name and password fields to be 20 characters instead of 10. These are set in Properties and Synch Servers.
- Modified the SynchToSite.exe to display usage info if the parameters are not correct or when specifying -h on the command line.
- Updated the Enroll Client Guide and the Deployment Guide to include Synch Now information and added the Synch Now Guide.
- Fixed bug 347 that allowed the user to leave finger down after doing the first placement during a Verify. This caused the Verify to fail and possibly lose the enrollment.
- Fixed bug 368 in 2.0.5.2 that prevented the Auto Synch from running because of a backup error.
- Fixed bug 276 that caused the RemoteController.dll to fail with a -89 when the ID client was running. This could also happen if the log path in the idclient.properties file was invalid.
- Fixed bug 373 that caused the server to crash whenever it was being shutdown on an XP machine.
- Fixed bug 369 that caused the ID and Enroll client property files to not get upgraded when ONLY the clients were installed.

## Version 2.0.5.2

- Added RemoteController.dll that allows an external program to initiate an immediate synchronization (SynchNow) between the ID server and Site server.
- Added the SynchToSite.exe command line application that may be used to call the RemoteController.dll.
- Fixed bug in installer that caused an ID client upgrade error when upgrading on an XP machine.