

3M™ Molecular Detection System Software

2.7.0.1. Upgrade/Installation Instructions

This document is a supplement to the 3M™ Molecular Detection System User Manual. This supplement contains instructions for upgrading the 3M Molecular Detection System Software application to version 2.7.0.1. The upgrade provides the following improvements:

1. Option to add a Digital Signature for the Run Report generated
2. Changes in the E-mail notification sent when the plate run is completed, or the plate run is aborted, or the device gets disconnected
3. Bug Fixes / Security Enhancements
4. End of Support for computers running Windows 7 and 8

Minimum Computer/Server Requirements

- Microsoft® Windows® 8.1 (32- or 64-bit), or Microsoft® Windows® 10 (Ultimate, Professional, and Enterprise editions)
- Microsoft® SQL Server 2008; Microsoft® SQL Server 2012, 2014, 2016 and 2017.
- 2.0 GHz Intel Pentium 4 or similar/faster processor
- 2 GB RAM (4 GB size recommended)
- 20 GB free hard disk space
- USB 2.0

How to Access Software Download

Use the link https://www.3m.com/3M/en_US/food-safety-us/support/software-support/ to access the software download page. Navigate to the 3M™ Molecular Detection System Support and click on the **Download Now** button to go to registration page.

Download first-time software and new updates.

Click the buttons below to download the latest software versions for our digital products.

 3M™ Molecular Detection System DOWNLOAD NOW	 3M™ Petrifilm™ Plate Reader Advanced DOWNLOAD NOW	 3M™ Clean-Trace Hygiene Monitoring and Management System DOWNLOAD NOW	 3M™ Microbial Luminescence System DOWNLOAD NOW
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Fill in the information, select 3M™ Molecular Detection System (MDS100) and click the **Submit** button.

Software Download Registration

All fields are required unless indicated optional

Business Email Address

Country/Region

First Name

Last Name

Company

Zip or Postal Code

Business Phone

3M™ Clean-Trace™ System (LM1)

3M™ Molecular Detection System (MDS100)

3M™ Petrifilm™ Plate Reader Advanced (8558/8557)

3M™ Petrifilm™ Plate Reader (8499)

3M™ Microbial Luminescence System (MLS II)

← Select the software

Following the merger of 3M's food safety division with Neogen Corporation and/or certain of its affiliates ("Neogen"), 3M is collecting the information you provide in this form for the benefit of Neogen and its affiliates. By completing the form below, you consent to 3M sharing your information with Neogen so Neogen can contact you. If you do not want your data to be shared with Neogen, please do not complete this form.

I consent to 3M sharing my contact details included in the form above with Neogen to receive newsletters, advertisements, surveys and information about promotions and offers from Neogen.

I consent to the transfer of my contact details included in the form above to Neogen parties located in the United States (US). I acknowledge that: (i) my consent is used as the lawful ground for the transfer; (ii) the US does not provide for an adequate level of data protection; and (iii) US domestic laws provide US public authorities the right to access personal data transferred to the US, which may limit the protection of my personal data.

Please see 3M's [Privacy Policy](#) for more details and your data protection rights. Please see Neogen's [Privacy Policy](#) for more details on how to contact Neogen and how Neogen handles your personal data, including how you can exercise your data protection rights.

SUBMIT

How to Download the Latest Version of the Software

After registration, an email will be sent with instructions on how to download the software. Click on the appropriate button to **Download Full Installation** or to **Upgrade Installation Software**. Select “Save As” and save file to the PC Desktop.



Thank you for registering your 3M™ Molecular Detection System

Download Instructions:

1. Option to choose email notifications for completion of run or interruption in the run
2. Option to choose Password expiration notification
3. Data backup and Restore in the 3M Molecular Detection System Software
4. Option to choose Date format (MMDDYYYY or DDMMYYYY)
5. Option to include signature block feature in the Run Report

DOWNLOAD FULL INSTALLATION

[Upgrade Installation Software to version 2-7-0-1](#)

Need additional info?

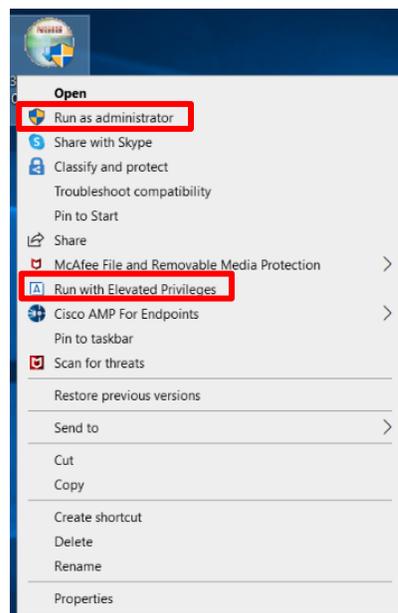
Our [software download and support page](#) may help answer any additional questions you might have.

Installation and Upgrade Instructions

It is strongly recommended that users perform a database backup as described in the software user manual before upgrading software from a previous version of the **3M Molecular Detection System Software**. Close all open applications before starting the installation of **3M Molecular Detection System Software**.

Upgrading from a Previous Version

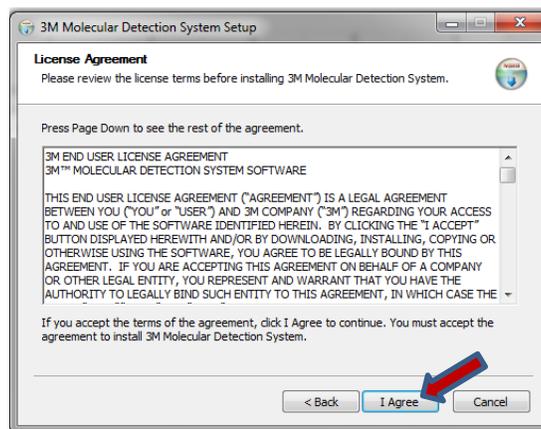
1. Locate 3M-Mds_2-7-0-1_August2022.exe file, right-click on the file and select **Run as administrator** or **Run with Elevated Privileges** to start the installation wizard.



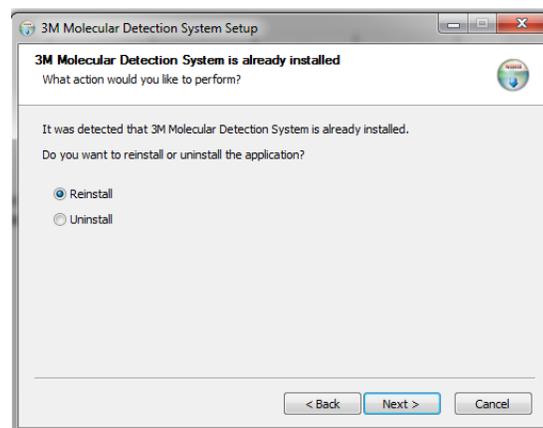
2. The **Welcome** screen is presented. It may take a few minutes for this screen to appear. Click [Next] to continue.



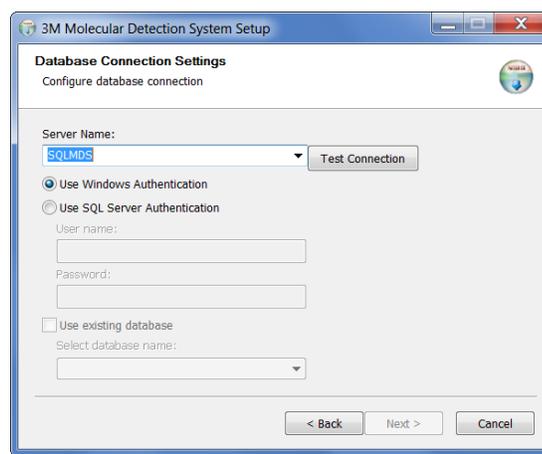
3. Read the 3M End User License Agreement and click the [I Agree] button to accept the agreement to continue with the installation.



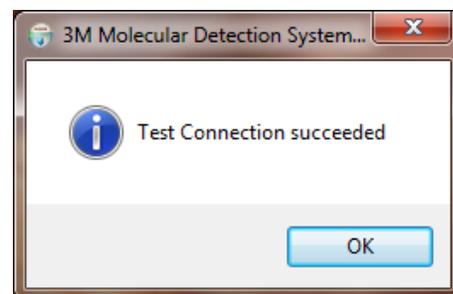
4. The existing 3M Molecular Detection Software installation is detected. Reinstall is selected by default. Click [Next] to continue.



5. A list of existing SQL Database servers is provided on the **Database Connection Settings** screen. Select the intended SQL database server or, if the intended Server Name is not populated, enter the Server Name as “<Computer_Name>\SQLMDS”. The default **Use Windows Authentication** should be selected.

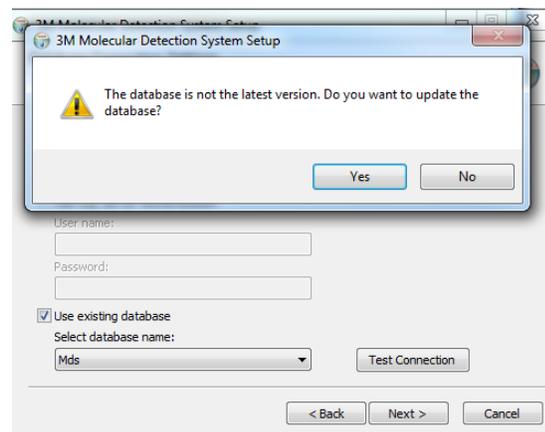


6. Click the Test Connection button to verify connection to the Server Name. If the test is successful, click **OK**. If the connection fails, enter the <Computer_Name>\SQLMLDS as the Server Name.

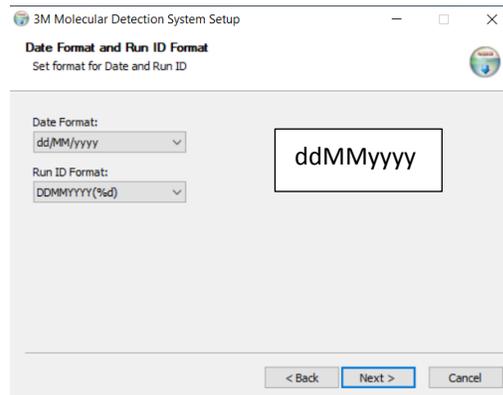
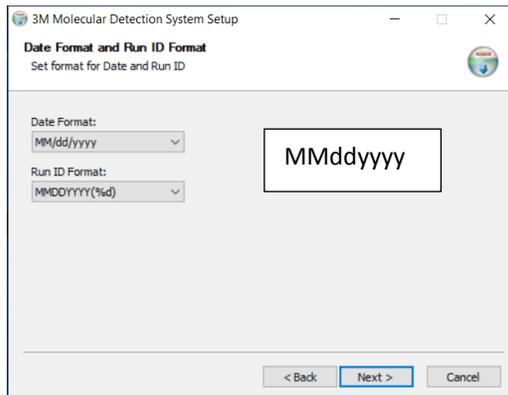


- Note: **Use existing database** is selected by default to connect to the existing database and preserve the data. If this option is not selected and you want to use the existing database, check the box and select the **Mds** database from the drop-down list. If a 3M Molecular Detection Software database is present, but you would like to create a new database, uncheck this setting. **This action will erase all data in the existing database.**

Note that a warning might be displayed if the existing database is different from the new database. Click **Yes** to update the database

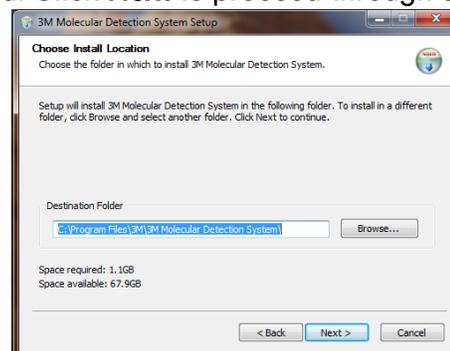


7. Set the Date Format and the Run ID by clicking on drop-down menu. Click **Next**

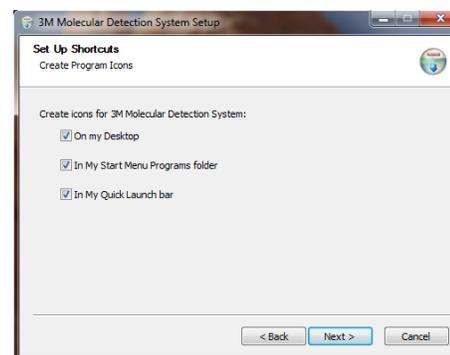


8. In the next three screens, the installation wizard asks for the Destination Folder, the locations for Application Shortcuts and the Start Menu Folder. You can modify the defaults for these fields if necessary, however, the default values are recommended. Click **Next** to proceed through each screen.

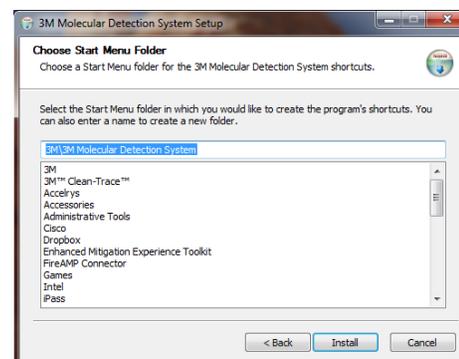
a. Destination Folder – This is the root installation directory for the 3M Molecular Detection Software.



b. 3M Molecular Detection System Application Shortcuts — These are the locations where the installation wizard will place the 3M Molecular Detection Software shortcuts.



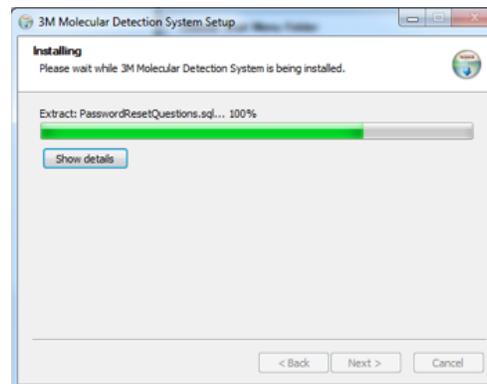
c. Start Menu Folder – This is the location within the Start menu where the installation wizard



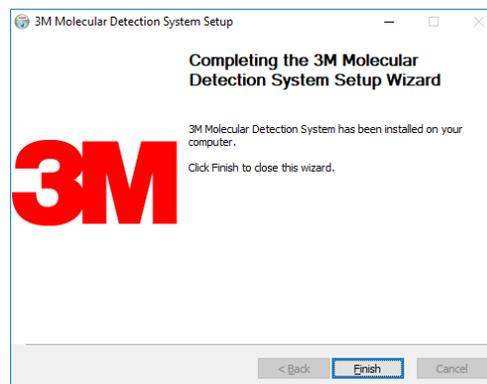
will place the 3M Molecular Detection Software shortcut.

d. Click **Install**.

9. A progress bar is shown. Click **Next** after the operation is complete.



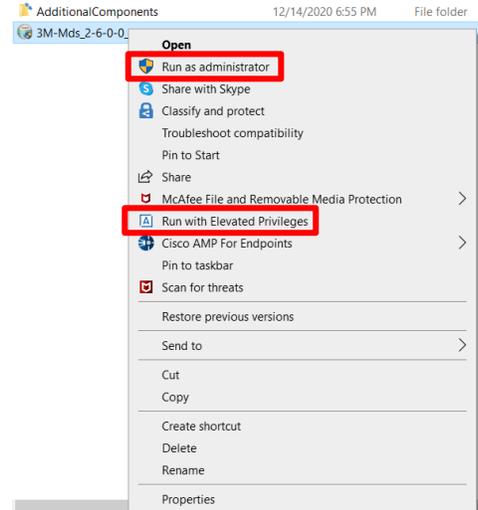
10. Click **Finish** when the installation wizard displays the **Completing the 3M Molecular Detection Software Setup Wizard** screen.



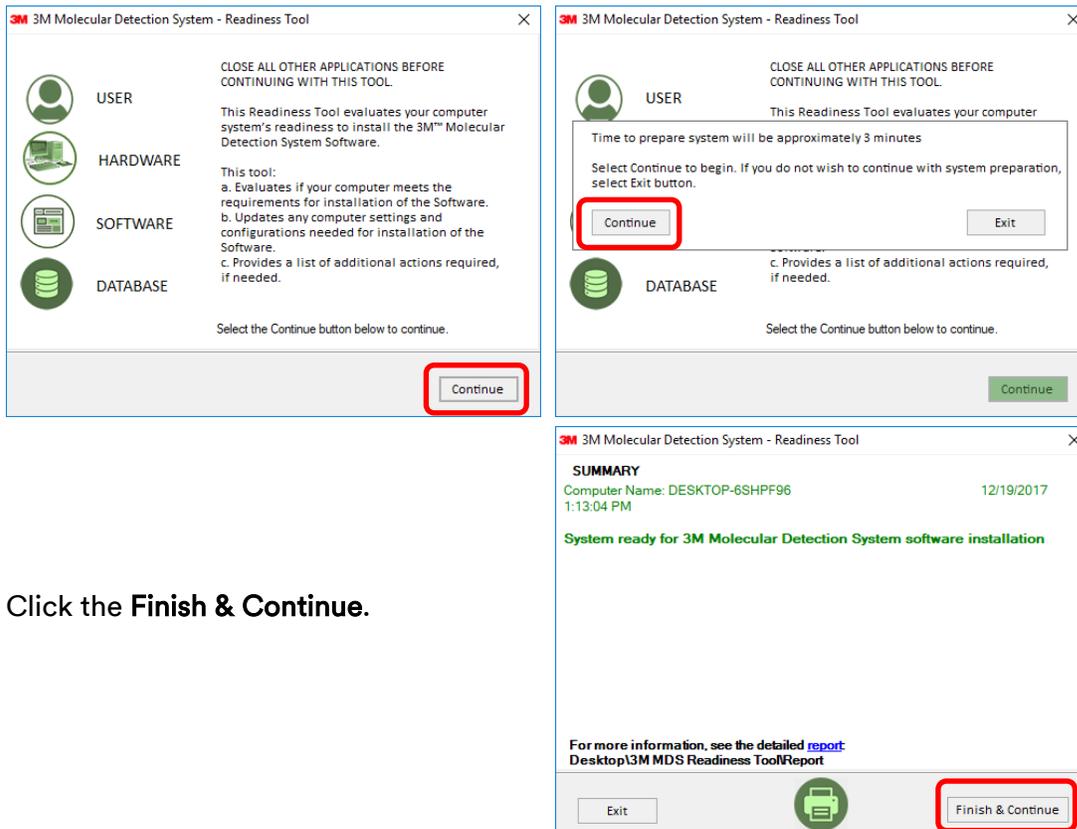
First-time Installation

3M Molecular Detection System Software Version 2.7.0.1. is packaged with the Microsoft® SQL Server® 2014 Express database platform, required for data storage. The SQL Server will be installed automatically for a new software installation, prior to the installation of the 3M Molecular Detection Software.

1. After registration, click on **DOWNLOAD FULL INSTALLATION** button in the email to download 3M-Mds_2-7-0-1.ZIP. Save the file to the desktop, extract the zip file and save the contents to the folder 3M-Mds_2-7-0-1.
2. Locate the 3M-Mds_2-7-0-1 folder, open the folder and right-click on the 3M-Mds_2-7-0-1_August2022.exe file and select **Run as administrator** or **Run with Elevated Privileges** to start the installation wizard.



3. The **Readiness Tool** is presented. Click on the **Continue** button to evaluate whether the computer system meets the minimum requirements for installation of the 3M Molecular Detection Software.

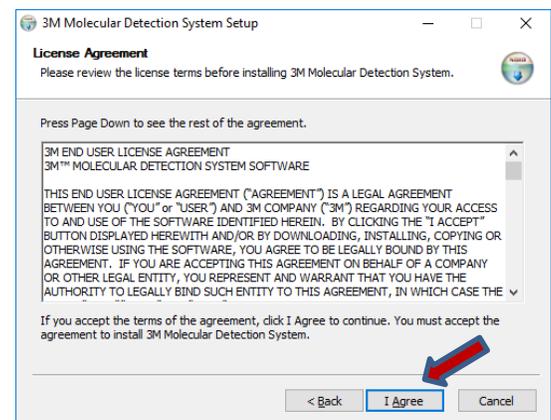


Click the **Finish & Continue**.

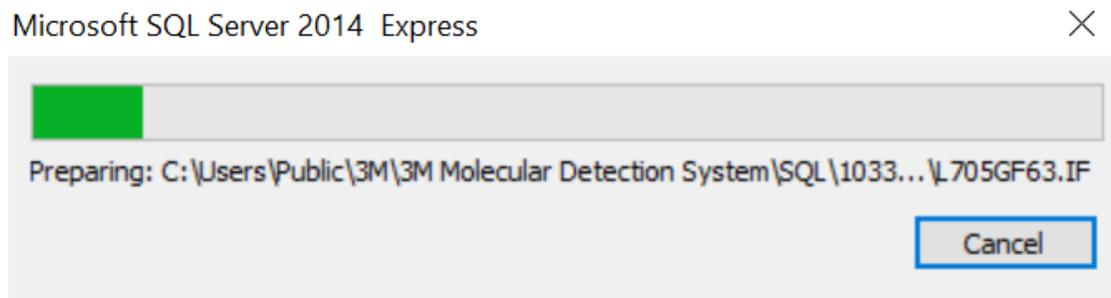
- The **Welcome** screen is presented. It may take a few minutes for this screen to appear. Click **Next** to continue.



- Read the 3M End User License Agreement and click **I Agree** to accept the agreement to continue with the installation.

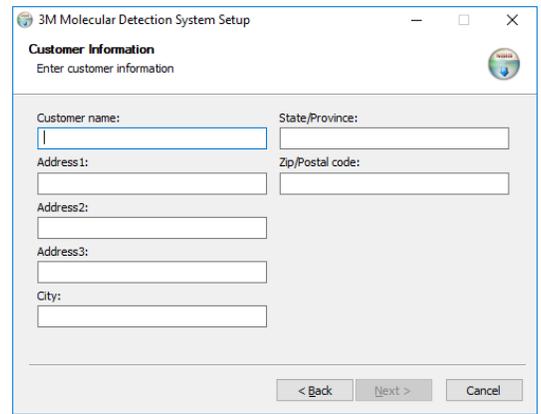


- SQL server installation will begin automatically if the SQL database server is not detected on the computer and SQL Server 2014 will be installed. **Do not click cancel button.** The window will close after successful installation.

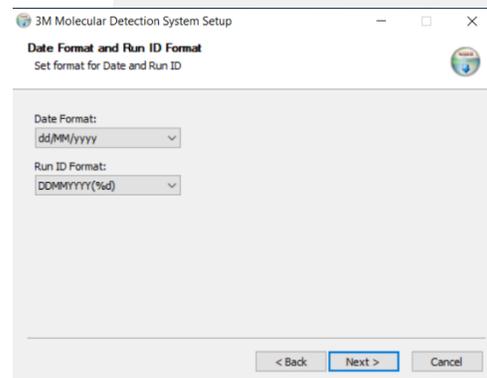
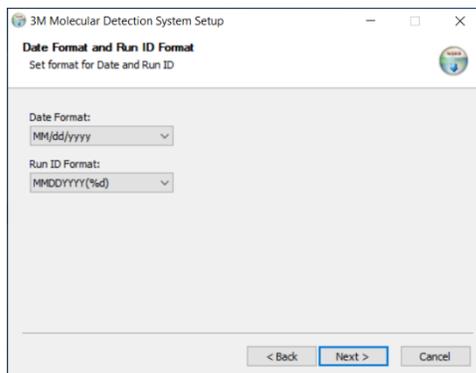
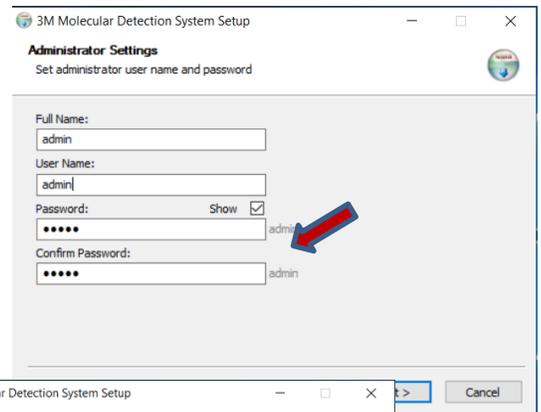


- Return to the 3M Molecular Detection System installation wizard after the SQL server installation screen closes.

6. Enter customer info, click **Next**



7. Enter full name, username, password and click **Next**.
Click the Show so that the password entered is displayed (no protective characters)

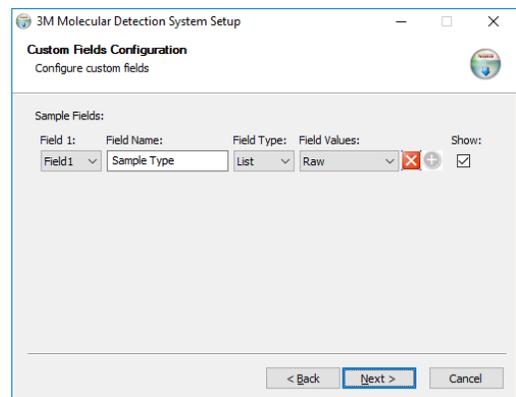


8. Set the Date Format and the RunID from the drop-down menus. Click **Next**.

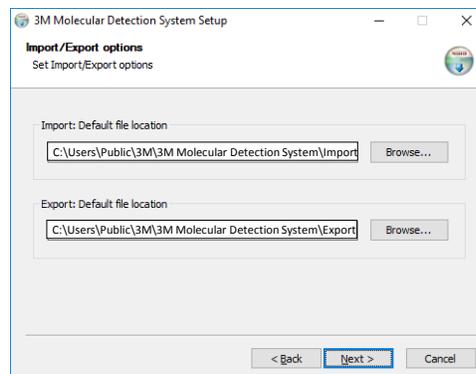
MM/dd/yyyy

dd/MM/yyyy

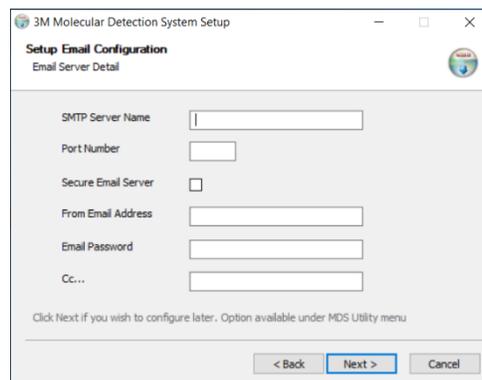
9. Configure custom fields as needed (or leave as default) and click **Next**.



10. Configure the location for importing and exporting the input and output files. The Default location is Public folder under Users

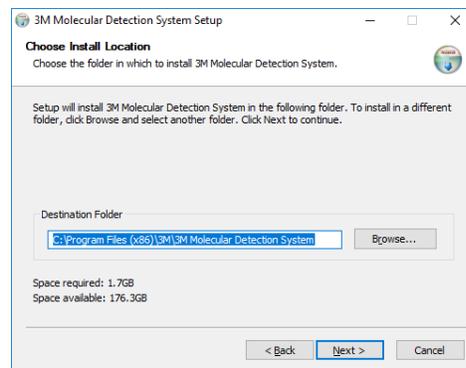


11. Enter the requested details in the Email Configuration Setup. See the New Features section for information for common emails. Contact your IT department, as ports may be blocked. The Email can also be configured after installation (see New Features section).

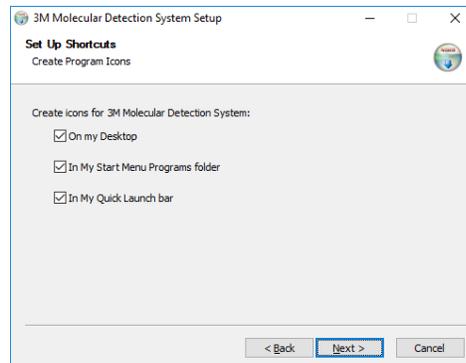


12. In the next three screens, the installation wizard asks for the Destination Folder, the locations for Application Shortcuts and the Start Menu Folder. You can modify the defaults for these fields, if necessary. If you do not have a specific reason to modify these fields, the default values are recommended. Click **Next** to proceed through each screen.

a. Destination Folder — This is the root installation directory for the 3M Molecular Detection Software.

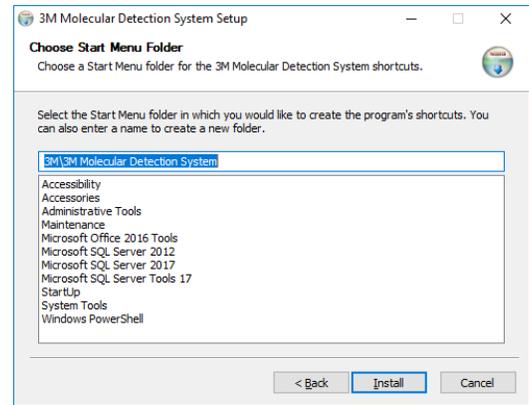


b. 3M Molecular Detection System Application Shortcuts — These are the locations where the installation wizard will place the 3M Molecular Detection Software shortcuts.

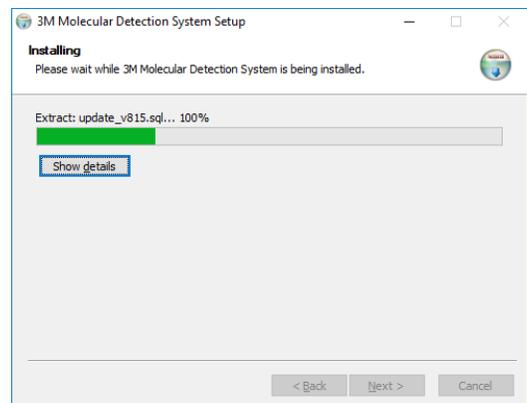


c. Start Menu Folder — This is the location within the Start Menu where the installation wizard will place the 3M Molecular Detection Software shortcut.

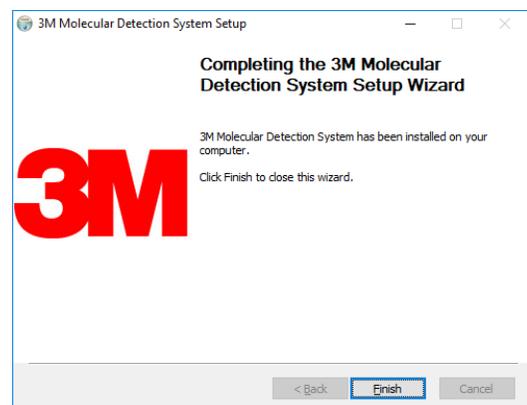
d. Click **Install**.



13. A progress bar is shown. Click **Next** when complete.



14. Click **Finish** when the installation wizard displays the Completing the 3M Molecular Detection Software Setup Wizard screen.



Starting 3M Molecular Detection System software

1. Double click 3M Molecular Detection System Software icon on desktop.

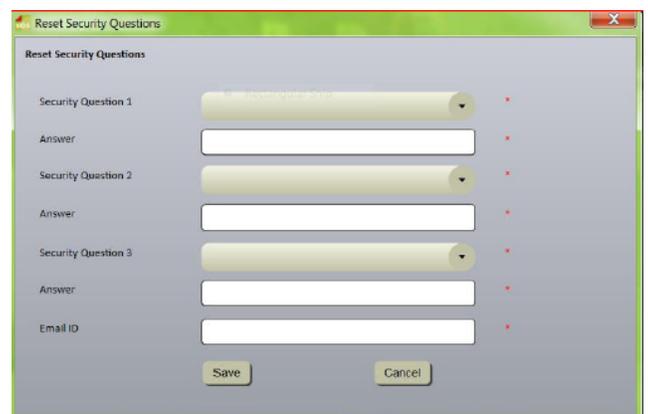
3M Food Safety

2. Enter username and password (as set up during installation). Choose language and click **Login**.



3M™ Molecular Detection System

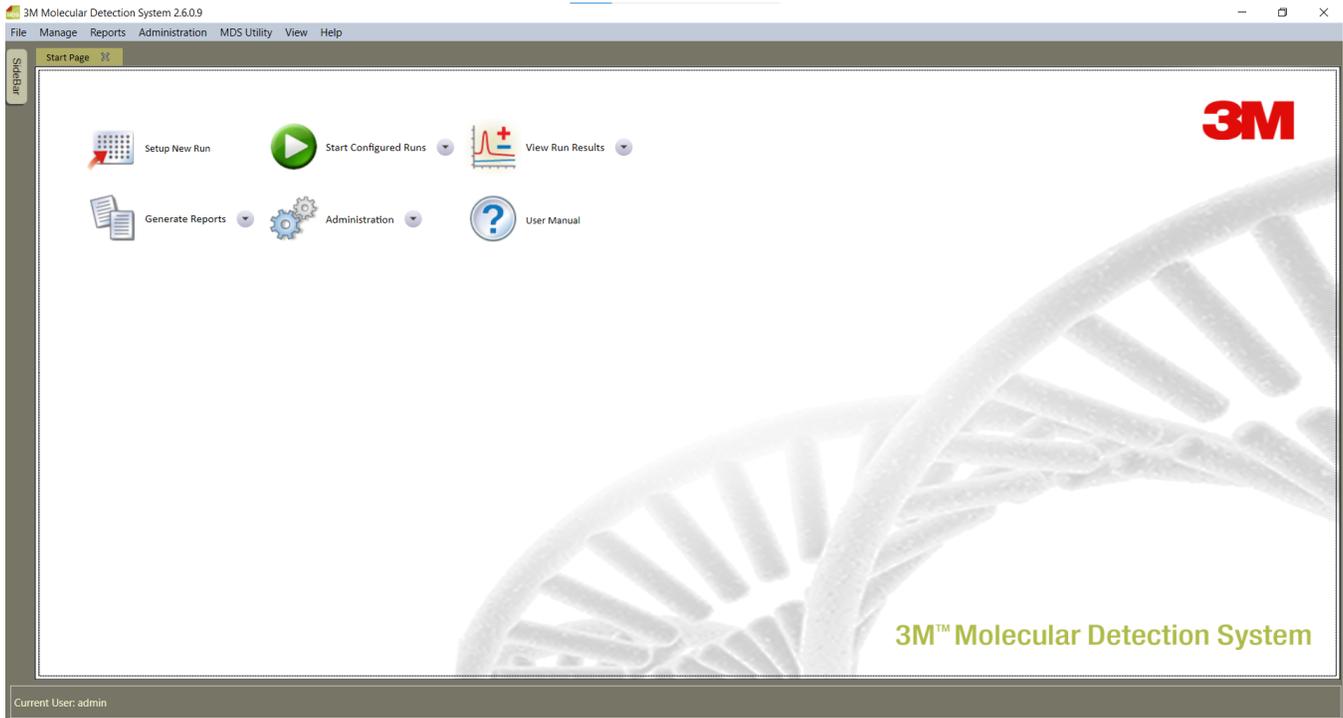
3. “Reset Security Questions” screen will appear upon logging in to allow for username recovery and password reset at Login Screen. Choose and answer three security questions, enter your email address, and click **Save**. Security questions, answers and email address can be changed by clicking **Administration>Reset Security Questions**.



4. Forgot Password:
 - a) If you forget your password, enter your username and click **Forgot Password**.
 - b) Answer the three security questions and click Confirm.
 - c) If your answers are correct, a temporary password will be generated. Record the password.
 - d) The password will be automatically entered into the Password field. Click **Login**.
 - e) The Change Password screen will appear. Enter the temporary password and your new password. Click **OK** to set the new password.
 - f) Passwords can be changed by clicking **Administration>Change Password**.
5. Forgot Username:
 - a) If you forget your username, click **Forgot UserName**.
 - b) Enter your email address in the Verify Email screen.
 - c) If your email address is correct (matches the email address entered into the software), your password will be shown.

Enabling Digital Signature

The MDS Software has a built-in a Digital Signature feature. This feature is available under Administration > Options in the main menu. The user can enable/disable the Digital Signature by checking/unchecking the box.

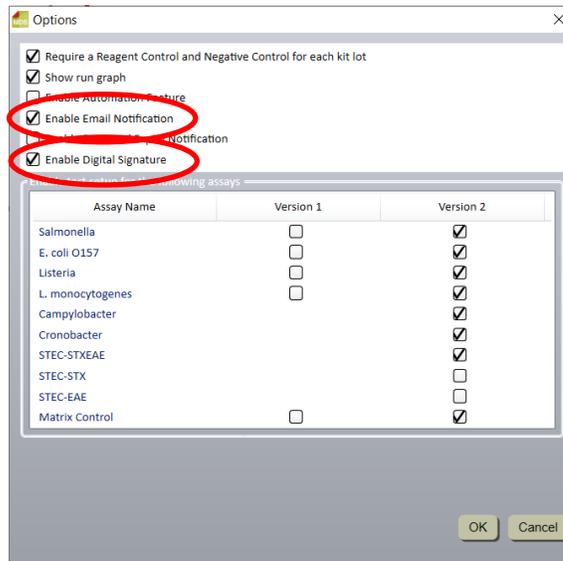


Select Options under the Administration Menu, then Enable Digital Signature



Administration

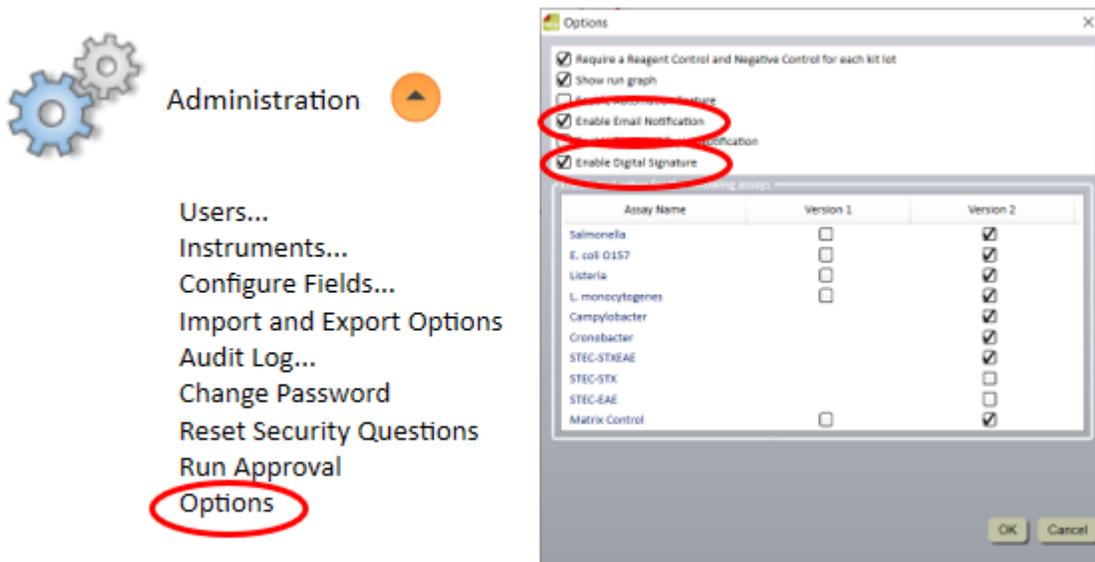
- Users...
- Instruments...
- Configure Fields...
- Import and Export Options
- Audit Log...
- Change Password
- Reset Security Questions
- Run Approval
- Options



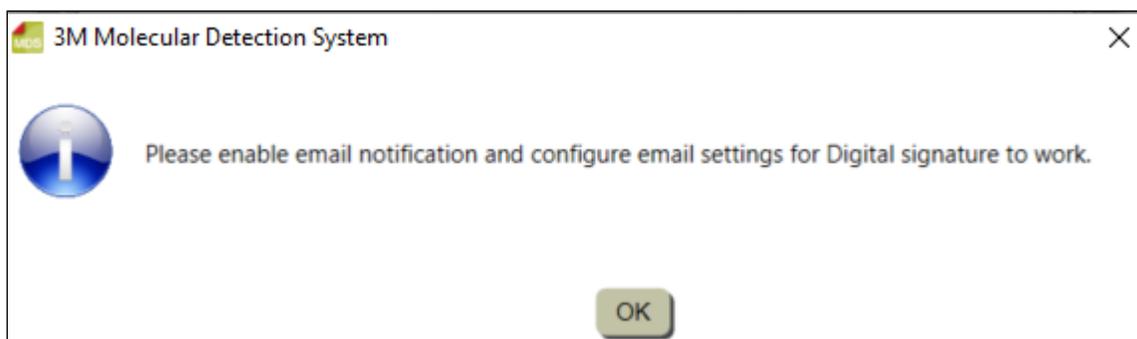
New Features in 2.7.0.1.

1. Option to add Digital Signature for the Run Report Generated

Enable Digital Signature can be activated under the Options menu. **Only the Administrator of the software can enable the feature.** The Administrator needs to set up this feature for the Users. This is an optional feature and must be enabled when the user needs to electronically sign their runs. The feature to enable the Digital Signature requires both the Enable Email Notification and the Enable Digital Signature options to be activated to work.



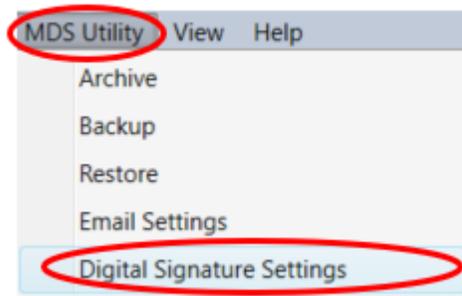
If the user does not enable Email Notification, the following error message will be displayed:



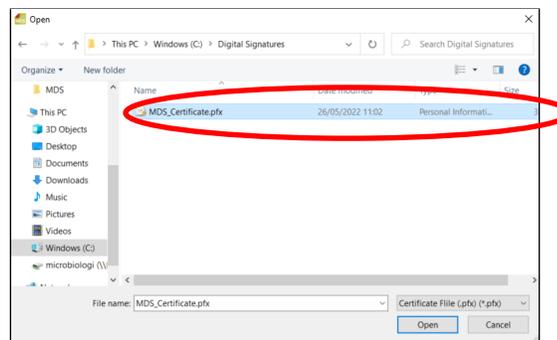
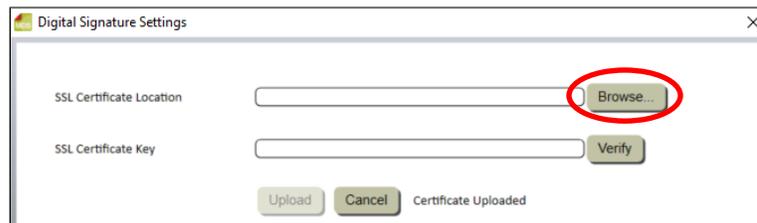
TIP: Check how to configure Email Notification Settings in the next chapter.

To upload a Digital Signature, a Digital Certificate should be used. A Digital Certificate has all Signer information embedded to be loaded digitally in a Run Report, via a *.pfx file. **Only the Administrator of the software can enable this feature (under Options and MDS Utility Menu).** The Administrator needs to set up this feature for the Users. This is an optional feature and must be enabled when the user needs to electronically sign. To activate this feature, the Administrator should follow these steps:

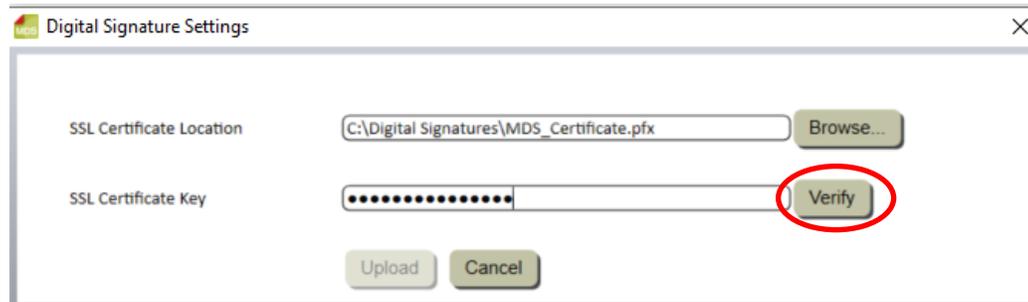
- In the MDS Utility Menu, click on Digital Signature Settings.



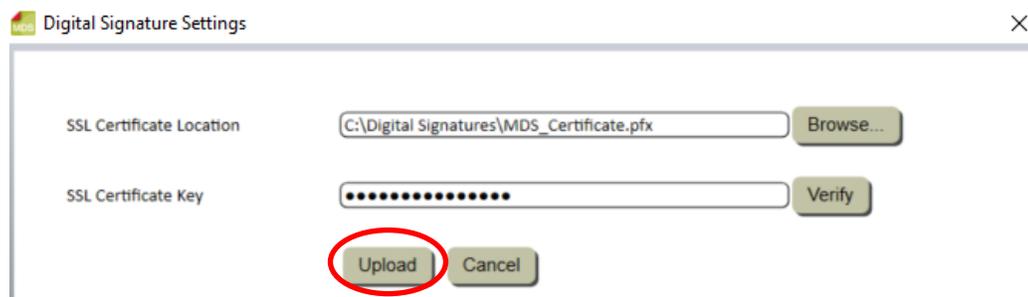
- The following window will appear. A valid certificate will be requested. This certificate comes with a key to validate it in any application. Browse your folders to find the certificate provided as shown below:



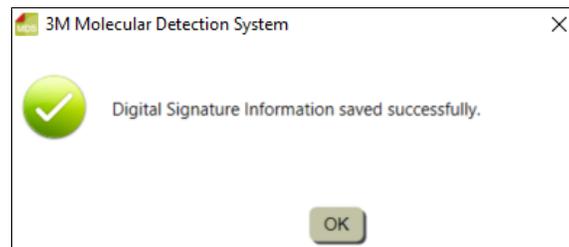
- Once the certificate is loaded, it must be verified. To verify the certificate, type the key provided with the certificate in the proper field, then click on Verify button.



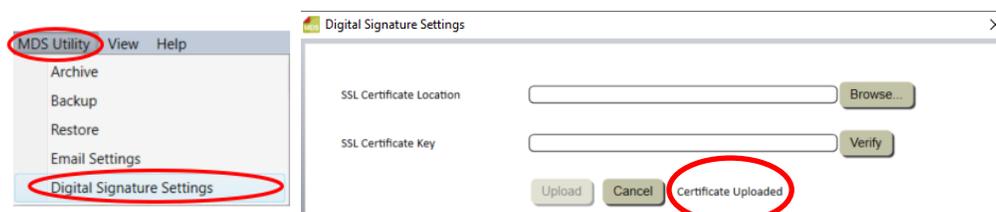
- When your SSL Certificate is verified, the Upload button will be enabled. Then, you can upload your Digital SSL Certificate by clicking on the Upload Button.



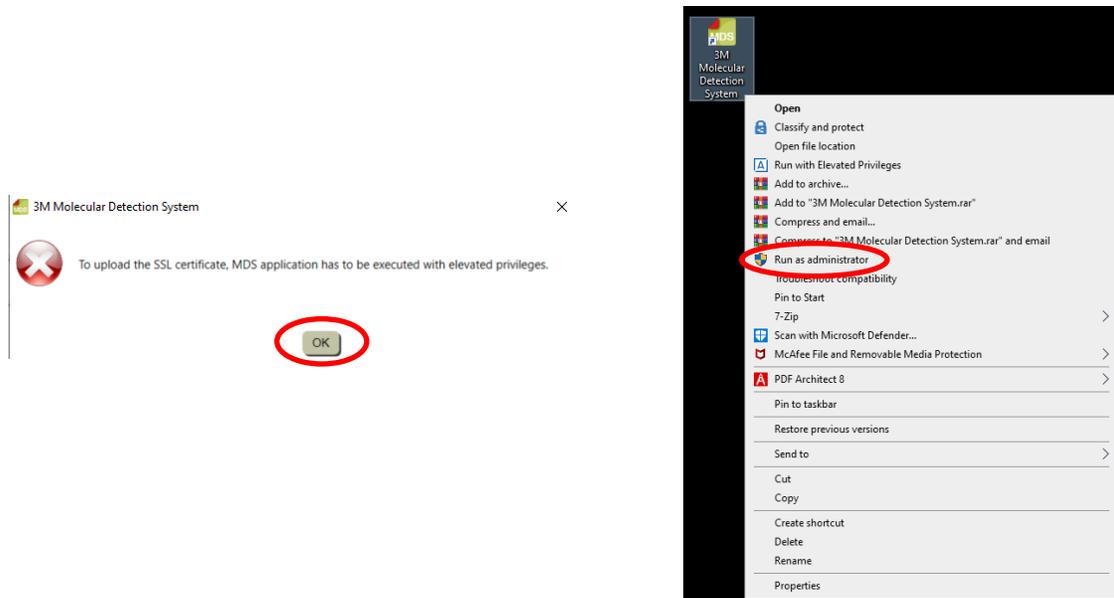
- The following window will appear, indicating your Certificate has been uploaded correctly.



To verify, go to the MDS Utility Menu and then Digital Signature Settings. The Certificate Upload screen will appear. Make sure the text **Certificate Upload** is next to the Cancel Button.

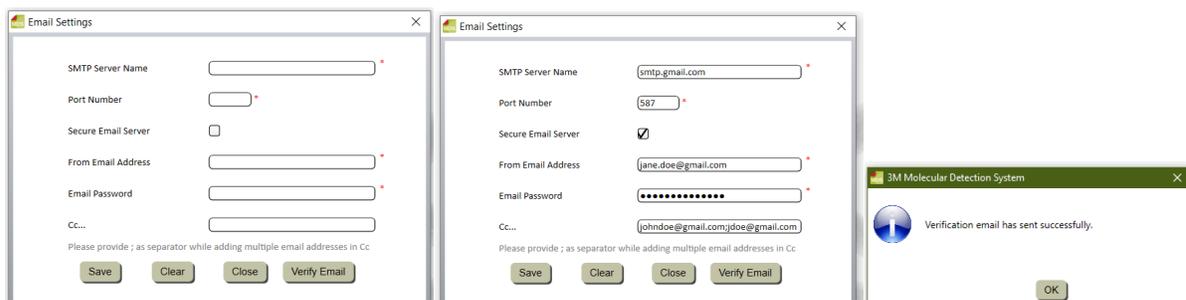


If the following message appears during the SSL Certificate Upload process, you must run the MDS application as the Administrator. Click the OK button and close the MDS Application. Right-Click the 3M Molecular Detection System icon and click **Run as Administrator**.



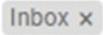
The Administrator needs to enable Email Notification for users. Email Notification was released in the 2.6.0.0 version and notifications were changed. Enable Email Notifications under the Options menu to receive email for completion of the run or aborting the run or disconnection of device. Under the MDS Utility menu, select **Email Settings** to open the Email Settings window. Fill in the details and click on **Verify Email**. A notification will be displayed if the email configuration is successful, and an email will be sent to your inbox that “MDS Software has successfully verified your email address. Thank you!”.

Contact your IT for support to configure the settings, as ports may be blocked due to IT policy. Public accounts (i.e. Gmail, Hotmail, Yahoo) must have 2-step authentication disabled to allow this feature.



Email notification

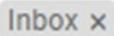
a. Run completion

Run completed successfully [12192020(1)]. 

Jane.doe@gmail.com
to me, john.doe

5:24 PM (54 minutes ago)

b. Run aborted

Run Aborted by user [12192020(1)]. 

Jane.doe@gmail.com
to me, john.doe

3:55 PM (21 minutes ago)

c. Instrument disconnected

Instrument 0212010042:212010042 has been disconnected. Run 12192020(1) will be marked as Failed. 

Jane.doe@gmail.com
to me, john.doe

4:21 PM (11 minutes ago)

Listed below are settings for common email.

Outlook

- Server: smtp.office365.com
- Port: 587
- Secure Email Server: Yes

Gmail

- Server: smtp.gmail.com
- Port: 587
- Secure Email Server: Yes

Set up App password if you are using 2-step verification. If not, enable a less secure app under the account security settings and use the App password to configure email.

Yahoo mail

- Server: smtp.mail.yahoo.com
- Port: 587
- Secure Email Server: Yes

Set up App password under account security settings and use the App password to configure email.

Hotmail

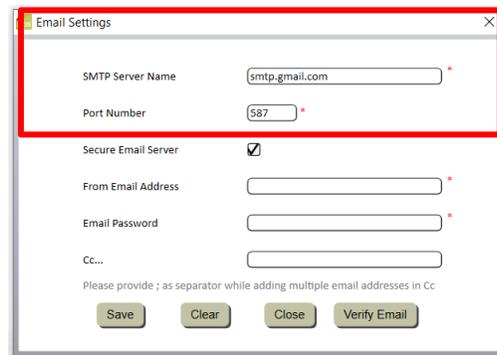
- Server: smtp.live.co
- Port: 587
- Secure Email Server: Yes

iCloud

- Server: smtp.mail.me.com
- Port: 587
- Secure Email Server: Yes

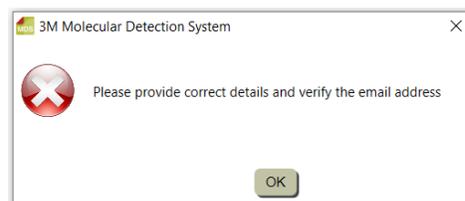
Email trouble shooting

- Wrong SMTP server name in the Email Settings window
- Wrong Port number
- Not selecting Secure Email Server checkbox



The screenshot shows the 'Email Settings' dialog box. The 'SMTP Server Name' field is highlighted with a red box and contains the text 'smtp.gmail.com'. The 'Port Number' field also contains '587'. The 'Secure Email Server' checkbox is checked. Below these fields are 'From Email Address', 'Email Password', and 'Cc...' fields, all of which are empty. At the bottom of the dialog, there are four buttons: 'Save', 'Clear', 'Close', and 'Verify Email'. A small red asterisk is visible to the right of the SMTP Server Name and Port Number fields, indicating a validation error.

- Providing wrong email domain name e.g., : *jdoe@gmail.in* instead of *jdoe@gmail.com*
- If the Domain email server is down (e.g., : Gmail server responsible for sendFusing/receiving the emails)
- Issues in intranet to send or receive the emails
- Email server configured to block sending or receiving mails, to or from, particular email domains (like sending email from our servers to Gmail and receiving email from Gmail to our servers)
- Anti-virus application is configured to block specific email server emails (like receiving emails from Gmail, Yahoo etc...)
- Blocking of port by firewall
- Any 3rd party email server configured to block the port
- Providing the wrong email address in the Email settings window
- Providing the correct email address and wrong email password in the Email settings window
- Not providing App password, if user has configured app password in the email settings



Error message if email cannot be verified

2. New email messages added on 2.7.0.1 version:

- Approve Run ID when Plate Run is finished, and confirmation is required to approve the plate:

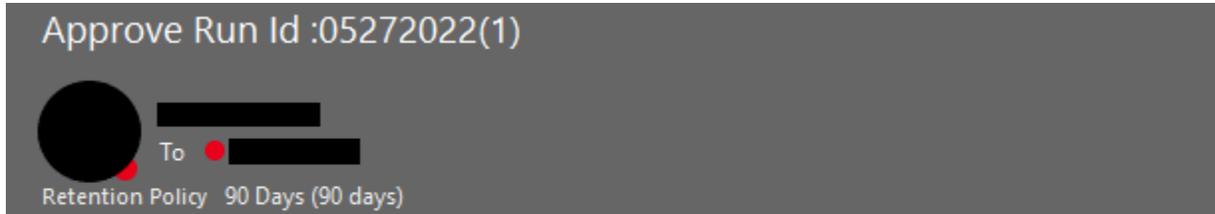


Plate run Completed (requires examination), requesting you to approve the plate with comments.

- Aborted Run ID waiting for user comments:

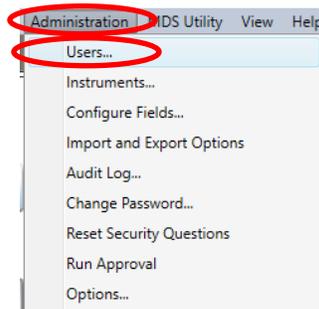


Plate run Aborted, requesting you to approve the plate with comments.

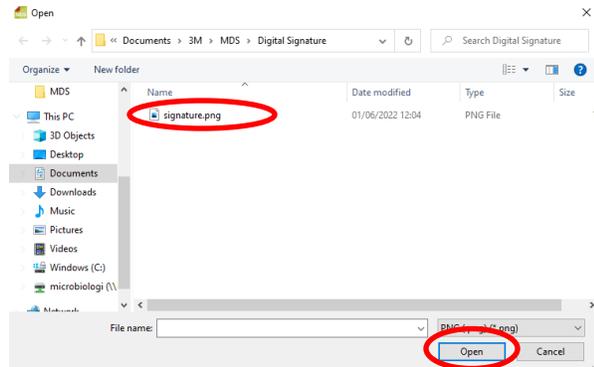
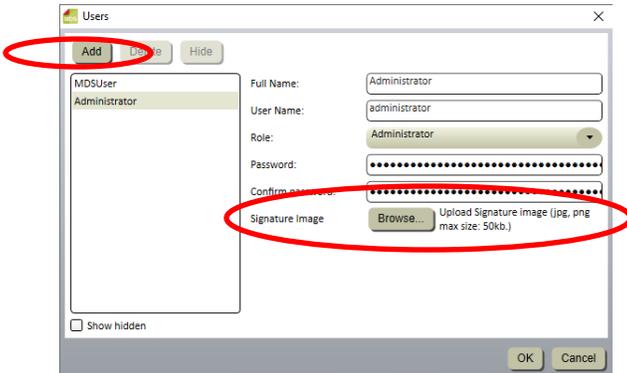
3. Bug Fixes/Improvements

- Adding a Signature Image to Sign the Reports:

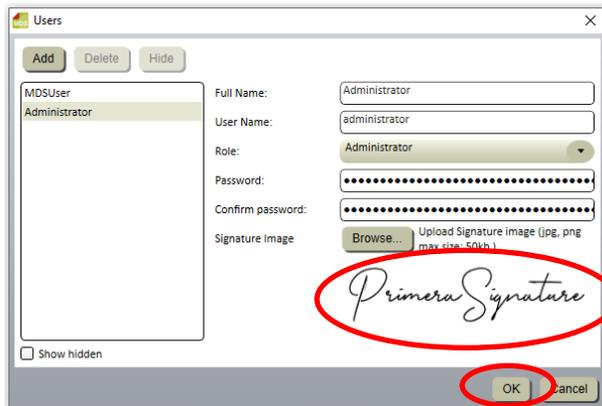
To add a Signature Image, go to the MDS Administration Menu and then Users Settings. The Users Settings screen will appear.



Click the appropriate username to add a signature image, then click the **Browse** Button. A new window will appear, asking for an image; *.jpg and *.png formats are supported. Choose the signature file corresponding to the selected user and click the **Open** Button.



If the image is loaded properly, it will be shown below the Browse button. Click the **OK** Button to finish.



- Signing Reports Electronically:

Once SSL Certificate and Signature Image are loaded, users can sign their Reports Electronically.

Test Completed by:	Report Reviewed/Approved by:
Full Name: admin	Full Name: admin
Initials & Date: ad 05/27/2022	Role: Administrator
Report Printed by:	Signature: <i>Primera Signature</i>
Full Name: _____	Date: 06/01/2022
Initials & Date: _____	Comments: _____
Comments: _____	

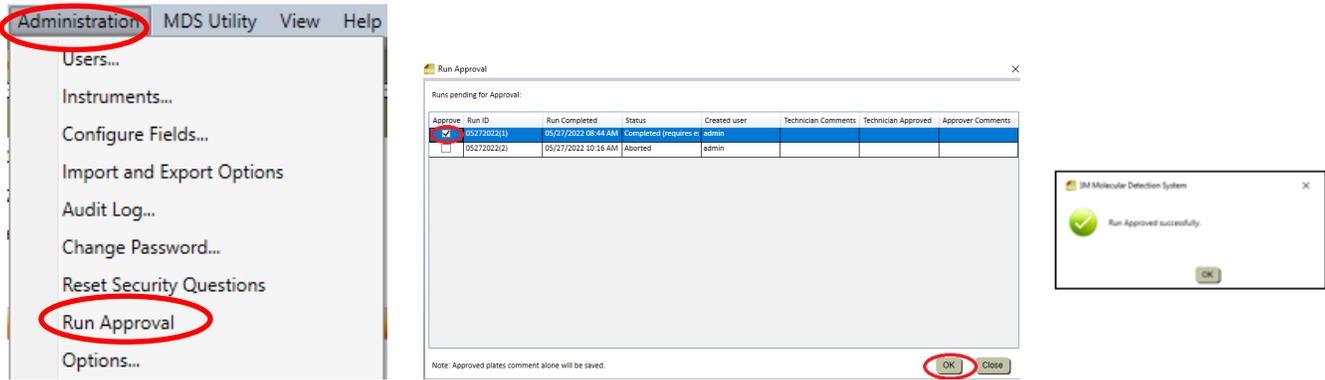
3M Molecular Detection Software
Run Report

Digitally signed on: 6/1/2022 8:24:28 AM

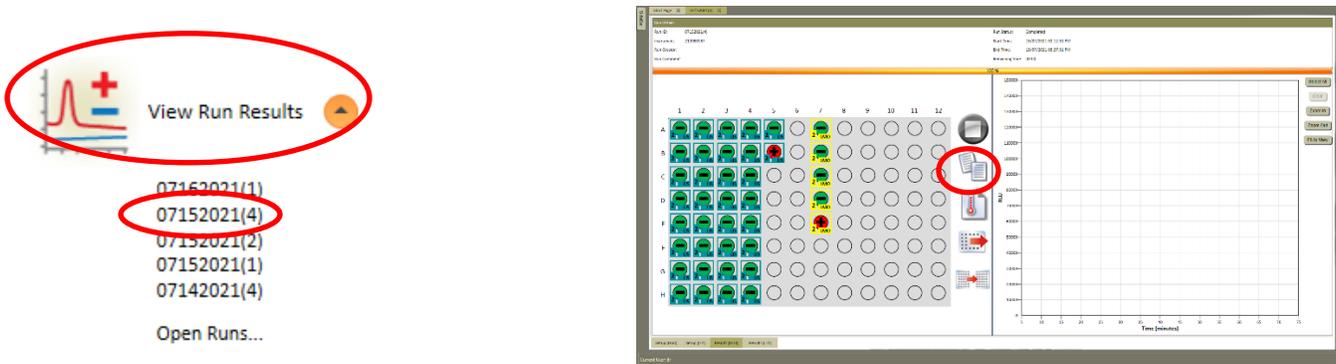
Current Date Format MM/dd/yyyy

To add an Electronic Signature, access the MDS Administration Menu and then Run Approval. The Pending Run for Approval screen will appear. Choose the desired Run you want approve and click the OK button.

To add an Electronic Signature, access the MDS Administration Menu and then Run Approval. The Pending Execution for Approval screen appears. Choose the Run you want to approve and click the OK button. A pop-up window will appear indicating that the Run has been successfully signed.



To check for a Report Electronic Signed, access the View Run Results menu and click on the corresponding Run that needs to be verified. A pop-up window will appear with all data related to this Run. To verify the Signed Run, click the Run Report icon. A Report Run will appear (*.pdf file) with all information about this Run. Users can find the Electronic Signature on the last page, on the bottom part of the report. This means that the Run has been successfully signed.



Test Completed by:	Report Reviewed/Approved by:
Full Name: admin	Full Name: admin
Initials & Date: ad 05/27/2022	Role: Administrator
Report Printed by:	Signature: <i>Admin Signature</i> (circled in red)
Full Name: _____	Date: 06/01/2022
Initials & Date: _____	Comments: _____
Comments: _____	

4. End of Support for Computers running Windows 7 and 8;

Microsoft ended their support for Windows 8 and Windows 7 on January 12, 2016, and January 14, 2020 respectively. 3M customers who utilize these operating systems may still use the 3M™ Molecular Detection System on existing computers however **3M will no longer provide technical support or any corresponding test or performance reliability data for the 3M Molecular Detection System Software** running on Windows 8 or Windows 7 operating systems.

If you have additional questions, contact your 3M Food Safety representative.

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