

RELEASE NOTES

3x30-Series Data Collection /GeneMapper[®] Software Hotfix_20110620

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A. SOFTWARE OVERVIEW

3x30-Series Data Collection /GeneMapper® Software Hotfix_20110620 (hereafter referred to as UDC_GM_Hotfix_20110620) is a software update to fix installation and login problems that occur on systems with certain Media Access Control (MAC) addresses. A MAC address is a unique identifier assigned to network interfaces for communications on a physical network. Currently, one of Microsoft's Application Programming Interfaces (API's) does not function consistently on computers with certain MAC addresses running Windows XP OS. Therefore, UDC_GM_Hotfix_20110620 Software includes system level changes to circumvent the usage of the Microsoft API. UDC_GM_Hotfix_20110620 does not include software changes that impact data interpretation or the rules governing the analytical process. Each laboratory should decide if any concordance testing is necessary based on this system level change.

B. DESCRIPTION OF UDC_GM_HOTFIX_20110620

Applied Biosystems software affected by the MAC address issue are GeneMapper® Software v4.0 and v4.1.1 and 3x30-Series Data Collection Software v3.0 and v3.1.1 (herein referred to as UDC).

UDC_GM_Hotfix_20110620 is designed to enable GeneMapper® Software v. 4.0 and v.4.1.1 and UDC Software v.3.0 and v.3.1.1 to continue to operate on the computers with any MAC address.

UDC_GM_Hotfix_20110620 enables successful installation and launch of UDC and GeneMapper® Software on a computer with any MAC address.

Installation of UDC_GM_Hotfix_20110620 does not change the software version number. Refer to VERIFICATION OF INSTALLATION OF UDC_GM_HOTFIX_20110620 for more information.

C. SYSTEM REQUIREMENTS

The system requirements for UDC_GM_Hotfix_20110620 are consistent with previous releases of GeneMapper® Software. Please refer to the relevant GeneMapper® Software v4.0 and v.4.1 installation guide for information on system requirements.

The system requirements for UDC_GM_Hotfix_20110620 are consistent with previous releases of UDC Software. Please refer to the relevant UDC Software v3.0 and v.3.1 installation guide for information on system requirements.

D. BEFORE INSTALLATION OF UDC_GM_HOTFIX_20110620; SPECIAL CONSIDERATIONS

IMPORTANT! Back up all pertinent data before performing upgrades.

1. If users have performed a successful standard installation and launch of GeneMapper® Software (v.4.0 and v.4.1) application of UDC_GM_Hotfix_20110620 is not necessary for GeneMapper® Software. If users have performed a successful standard installation and launch of UDC Software (v.3.0 and v.3.1) application of UDC_GM_Hotfix_20110620 is not necessary for UDC Software. However, should either UDC v. 3.x or GeneMapper® v.4.x exhibit failure to install or launch, then the UDC_GM_Hotfix_20110620 should be applied.

2. Before applying UDC_GM_Hotfix_20110620, users must have attempted to install a released version of GeneMapper® v.4.x Software and/or UDC v.3.x Software.

3. For systems with affected MAC addresses, users may encounter one of the following symptoms:

- For GeneMapper® Software v4.x software installation appears complete; however, at login screen, clicking the 'OK' button appears to have no effect on the system and the application will not run.
- For the UDC Software v3.x installation on the computers with certain MAC addresses may not complete and will at the end require full de-installation of the UDC v3.x or even re-imaging of the computer.

NOTE: We strongly recommend that you do not attempt to proceed with installation of UDC v3.x without applying UDC_GM_Hotfix_20110620 in the process. See details in the following sections of these Release Notes:

- For UDC v.3.0, see INSTALLATION OF UDC_GM_HOTFIX_20110620 FOR UDC SOFTWARE V3.0
- For UDC v.3.1.1, see INSTALLATION OF UDC_GM_HOTFIX_20110620 FOR UDC SOFTWARE V3.1.1

4. To perform installation, users must log onto the local computer and have administrator privileges.

NOTE: Logging onto a network domain with administrative privileges is not sufficient.

5. For each system that cannot complete installation and software launch, users are recommended to update each affected instance of the GeneMapper® Software and UDC Software with UDC_GM_Hotfix_20110620. Computers with UDC_GM_Hotfix_20110620 applied may run in the same laboratory environment with those that do not require UDC_GM_Hotfix_20110620.

6. Users may need to disable Windows® firewall during the installation of GeneMapper® and UDC Software.

NOTE: We anticipate application of UDC_GM_Hotfix_20110620 will be required with an increasing number of new computer purchases due to the issue with MAC addresses outlined in DESCRIPTION OF UDC_GM_HOTFIX_20110620.

E. INSTALLATION OF UDC_GM_HOTFIX_20110620 FOR GENEMAPPER® SOFTWARE V4.0

We recommend the following steps:

1. Perform a fresh installation of GeneMapper® Software (v4.0).
2. Reboot the system
3. Launch the HotFix20110620_b17.exe file and follow instructions in the InstallShield Wizard.
4. Launch the GeneMapper® Software v.4.0

F. INSTALLATION OF UDC_GM_HOTFIX_20110620 FOR GENEMAPPER® SOFTWARE v4.1.1

We recommend the following steps:

1. Perform a fresh installation of GeneMapper® Software v4.1.
2. Reboot the system.
3. Launch the HotFix20110620_b17.exe file and follow instructions in the InstallShield Wizard.
4. Apply Patch for Oracle Password 180-days expiration. This step will update the version of your GeneMapper® installation from v.4.1 to v.4.1.1
5. Launch the GeneMapper® Software v.4.1.1

G. INSTALLATION OF UDC_GM_HOTFIX_20110620 FOR UDC SOFTWARE v.3.0

We recommend the following steps:

1. Start fresh installation of UDC Software v.3.0 and proceed until the installer requests you to restart computer at the last step of the InstallShield wizard. Please DO NOT restart. Select “No” option and exit UDC v.3.0 installer.
2. Launch the HotFix20110620_b17.exe file and follow instructions in the InstallShield Wizard.
3. Reboot the system.
4. Log on to the system. When you log on, UDC Installer v.3.0 will automatically continue installation. After installation is completed, you will then see your Desktop.
5. Launch UDC v.3.0 -. Make sure you have your registration code for UDC.

H. INSTALLATION OF UDC_GM_HOTFIX_20110620 FOR UDC SOFTWARE v 3.1.1

We recommend the following steps:

1. Start fresh installation of UDC Software v.3.1 and proceed until the installer request you to restart computer at the last step of the InstallShield wizard. Please DO NOT restart. Select “No” option and exit UDC v.3.1 installer.
2. Launch the HotFix20110620_b17.exe file and follow instructions in the InstallShield Wizard.
3. Reboot the system.
4. Log on to the system. When you log on, UDC Installer v.3.1 will automatically continue installation. When asked to register flex net license, choose “No” option. After installation is completed, you will then see your Desktop.
5. Apply Patch for Oracle Password 180-days expiration. This step will update the version of your UDC installation from v.3.1 to v.3.1.1
6. Launch UDC v.3.1.1. Make sure you have your flex net license key for UDC.

I. UPGRADE FROM GENEMAPPER® SOFTWARE V4.0 TO V4.1.1 AND INSTALLATION OF UDC_GM_HOTFIX_20110620

If GeneMapper® Software is currently at v.4.0, and upgrade to v.4.1.1 is desired, perform the following steps:

1. Insert the GeneMapper® Software v4.1 upgrade disk and follow the installation instructions.
2. Reboot the system.
3. Launch HotFix20110620_b17.exe file and follow instructions in the InstallShield Wizard.
4. Apply Patch for Oracle Password 180-days expiration. This step will update the version of your GeneMapper® installation from v.4.1 to v.4.1.1
5. Launch GeneMapper® software v.4.1.1.

J. INSTALLATION OF UDC_GM_HOTFIX_20110620 FOR GENEMAPPER® SOFTWARE V.4.0 AND UDC SOFTWARE V.3.0 CO-INSTALLED ON THE INSTRUMENT COMPUTER

1. Follow instructions as in INSTALLATION OF UDC_GM_HOTFIX_20110620 FOR UDC SOFTWARE v.3.0
2. Follow instructions as in INSTALLATION OF UDC_GM_HOTFIX_20110620 FOR GENEMAPPER® SOFTWARE V4.0
3. If the co-installed GeneMapper® Software in Full Configuration, then once you've applied UDC_GM_Hotfix_20110620 to GeneMapper® Software v.4.0, the GeneMapper® v.4.0 will be automatically registered with the UDC 3.0 software, to enable auto-analysis functionality.

NOTE: To register GeneMapper® v.4.x software with auto-analysis functionality enabled on the co-installed UDC 3.x and GeneMapper v.4.x in Client Configuration, see ENABLING LOCAL AUTO-ANALYSIS FUNCTIONALITY IN GENEMAPPER SOFTWARE v.4.x

NOTE: To register GeneMapper® v.4.x software with auto-analysis functionality enabled on remote computer with UDC Software v3.x, see ENABLING REMOTE AUTO-ANALYSIS FUNCTIONALITY IN GENEMAPPER SOFTWARE v.4.x

K. INSTALLATION OF UDC_GM_HOTFIX_20110620 FOR GENEMAPPER® SOFTWARE V.4.1.1 AND UDC SOFTWARE V.3.1.1 CO-INSTALLED ON THE INSTRUMENT COMPUTER

1. Follow instructions as in INSTALLATION OF UDC_GM_HOTFIX_20110620 FOR UDC SOFTWARE v.3.1.1
2. Follow instructions as in INSTALLATION OF UDC_GM_HOTFIX_20110620 FOR GENEMAPPER® SOFTWARE V4.1.1
3. Once you've applied UDC_GM_Hotfix_20110620 to GeneMapper® Software v.4.1, the GeneMapper® v.4.1 will be automatically registered with the UDC 3.1 software, to enable auto-analysis functionality.

NOTE: To register GeneMapper® v.4.x software with auto-analysis functionality enabled on the remote computer with UDC Software v.3.x, see ENABLING LOCAL AND REMOTE AUTO-ANALYSIS FUNCTIONALITY IN GENEMAPPER SOFTWARE v.4.x

L. ENABLING LOCAL AUTO-ANALYSIS FUNCTIONALITY IN GENEMAPPER SOFTWARE v.4.x

1. If you applied UDC_GM_Hotfix_20110620 to the GeneMapper® Software v.4.x (**Full Configuration**) that is co-installed on the same instrument computer with UDC Software v.3.x (see instructions above), then
 - a. Your GeneMapper® Software v.4.x is automatically registered with UDC 3.x version on the same computer
 - b. You can use auto-analysis feature in GeneMapper® Software v.4.x in conjunction with the UDC Software 3.x installed on the same computer.
2. If you applied UDC_GM_Hotfix_20110620 to the GeneMapper® Software v.4.x (**Client Configuration**) that is co-installed on the same instrument computer with UDC Software v.3.x (see instructions above), and you plan to use auto-analysis feature - then you need to perform the following steps to register GeneMapper® Client v.4.x. with the UDC v.3.x on the same computer:
 - a. Locate RegisterGM.exe file in the following folder:
`<Drive>:\AppliedBiosystems\GeneMapper\Client\Automation\`
 - b. Make sure UDC v.3.x services on that computer are up and running.
 - c. From the folder where RegisterGM.exe is located, run a command line: `RegisterGM`

M. ENABLING REMOTE AUTO-ANALYSIS FUNCTIONALITY IN GENEMAPPER SOFTWARE v.4.x

1. If you applied UDC_GM_Hotfix_20110620 to the GeneMapper® Software v.4.x that is installed on a non-instrument computer, then you need to perform the following steps, to register your GeneMapper® Software v.4.x with Data Collection Software (which could be UDC 3.x or MDC 1.0) on the remote computer
 - a. Locate RegisterGM.exe file in the following folder:
`<Drive>:\AppliedBiosystems\GeneMapper\Automation\`
 - b. If your Data Collection software is UDC v.3.x then:
 - i. Make sure UDC v.3.x services on the instrument computer are up and running
 - ii. From the folder where RegisterGM.exe is located, run a command line:
`RegisterGM udc-computer-name`
 - c. If your Data Collection software is MDC v.1.0 then:
 - i. Make sure MDC v.1.0 services on the instrument computer are up and running

- ii. From the folder where RegisterGM.exe is located, run a command line:
RegisterGM *mdc-computer-name* mdc

NOTE: If you try to register GeneMapper® software with remote UDC software installation prior to application of the UDC_GM_Hotfix_20110620 to the GeneMapper® software, then in case of computer with certain MAC addresses, that manual step might silently fail. We strongly recommend that you first apply and verify installation of UDC_GM_Hotfix_20110620 (see VERIFICATION OF INSTALLATION OF UDC_GM_HOTFIX_20110620) for your GeneMapper® v.4.x installation, and only then execute the manual step to register GeneMapper® Software v.4.x with remote installation of the UDC Software v.3.x.

N. VERIFICATION OF INSTALLATION OF UDC_GM_HOTFIX_20110620

Installation of UDC_GM_Hotfix_20110620 does not change the software version number. To verify installation, confirm the following on your computer system:

1. If you applied UDC_GM_Hotfix_20110620 to the GeneMapper® Software v.4.x (Client Configuration) then you can verify installation as follows:
 - a. Review the log file created by the HotFix installer:
<Drive>:\AppliedBiosystems\GeneMapper\Client\HotFix_20110620_Install.1
og
 - b. In addition, you might want to verify that new and updated CoreUtil.jar file is installed in the following directories:
..\service\lib\CoreUtil.jar - 169 KB 06/24/11 (GeneMapper® v.4.0)
..\service\lib\CoreUtil.jar - 198 KB 06/24/11 (GeneMapper® v.4.1.1)
 - c. In case you configured this instance of GeneMapper® v.4.x software for local or remote auto-analysis, you can also check CoreUtils.jar file in the following directories:
..\automation\libs\CoreUtil.jar - 169 KB 06/24/11 (GeneMapper® v.4.0)
..\automation\libs\CoreUtil.jar - 169 KB 06/24/11 (GeneMapper®
v.4.1.1)
2. If you applied UDC_GM_Hotfix_20110620 to the GeneMapper® Software v.4.x (Full Configuration) then you can verify installation as follows:
 - a. Review the log file created by the HotFix installer:
<Drive>:\AppliedBiosystems\GeneMapper\HotFix_20110620_Install.log
 - b. In addition, you might want to verify that new and updated CoreUtil.jar file is installed in the following directories:
..\service\lib\CoreUtil.jar - 169 KB 06/24/11 (GeneMapper® v.4.0)
..\service\lib\CoreUtil.jar - 198 KB 06/24/11 (GeneMapper® v.4.1.1)
 - c. In case you configured this instance of GeneMapper® v.4.x software for local or remote auto-analysis, you can also check CoreUtils.jar file in the following directories:
..\automation\libs\CoreUtil.jar - 169 KB 06/24/11 (GeneMapper® v.4.0)
..\automation\libs\CoreUtil.jar - 169 KB 06/24/11 (GeneMapper®
v.4.1.1)

3. If you applied UDC_GM_Hotfix_20110620 to the UDC Software v.3.x then you can verify installation as follows:

- a. Review the log file created by the HotFix installer:

```
<Drive>:\
AppliedBiosystems\UDC\DataCollection\HotFix_20110620_Install.log
```

- b. In addition, you might want to verify that new and updated CoreUtil.jar file is installed in the following directory of the UDC installation (same for UDC v.3.0 and UDC v.3.1.1):

```
<Drive>:\AppliedBiosystems\Service\lib\CoreUtil.jar - 166 KB 06/27/11
```

O. KNOWN ISSUES AND LIMITATIONS

* Any other known issues with GeneMapper® Software will not be addressed by UDC_GM_Hotfix_20110620.

P. LEGAL DISCLAIMER AND TERMS AND CONDITIONS OF CUSTOMER INSTALLATIONS OR USE

Except for the following disclaimers, limitations and terms and conditions of installation or, Customer's installation or use of GeneMapper® Software UDC_GM_Hotfix_20110620 is subject to the same terms and conditions applicable to the GeneMapper® Software and/or Data Collection Software being updated with UDC_GM_Hotfix_20110620.

The UDC_GM_Hotfix_20110620 Software has undergone a verification process pursuant to Life Technologies Corporation and/or its affiliate(s) internal quality process. However, we recommend that CE customers installing UDC_GM_Hotfix_20110620 perform any internal testing they deem necessary according to relevant guidelines for testing laboratories. Each laboratory is solely responsible to ensure that its 3x30-Series Data Collection Software and GeneMapper® Software satisfies or will satisfy the SWGDAM Guidelines or other applicable guidelines used by the CE RUO community and is fit for its CE applications.

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