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1 General Description

ChemBioOffice® 14 is the latest release of the ChemBioOffice suite of personal productivity tools for chemists and biologists. ChemBioOffice helps scientists efficiently capture and share their work, visualize and gain a deeper understanding of their results, and correlate biological activity and other properties with chemical structures.

This release adds the ability to search the SciFinder® database from Chemical Abstracts Service directly from ChemBioDraw Ultra.

The release is qualified against the following:

- Windows 8.1
- Microsoft Office 2013
- MacOS 10.9 (Mavericks)
- Adobe Acrobat 11

All components of ChemBioOffice which can create molfiles now support v3000 and v2000 molfiles.

2 Distribution Limitations

N/A

3 Release Qualification

3.1 Scope of Testing

For the ChemBioOffice 14.0 release, the following testing conditions have been set and executed:

- **Installations:**
  - Default mode
  - Custom mode
  - Side-by-Side compatibility modes

- **New Features:**
  - Search SciFinder feature in ChemBioDraw
  - Import/Export support for MOL/SDF/RXN/RDF v3000 files across ChemBioOffice applications
  - ChemDraw ActiveX Enterprise Constant 14.0 compatibility with Desktop E-Notebook 13.0
  - Online Search links for Mobile Apps and Spotfire
  - Copy Structures to MS Word As options in ChemDraw for Excel
  - C3XML synchronization between Desktop and Mobile version of Chem3D
  - Copy and Paste Structures from ChemBioDraw as CDXML text
  - Copy and Paste Structures from ChemBioDraw as MOL text

- **Third Party Compatibility:**
  - **Operating Systems:** Windows 8.1, Windows 7, and Mac OS X 10.9.2 (Mavericks)
  - **MS Office:** 2013 with SP1, 2010, and 2011
  - **Browsers for ActiveX/Plugins:** Internet Explorer 11, 10, and 9, Firefox 28, Chrome 33, and Safari7
  - **Calculation Engines for ChemBio3D:** Gaussian 09 Revision-C.01, Mopac 2009, Conflex 6.8.9, Autodock 4.2.3, MGL Tools 1.5.4 (for Autodock), msroll.exe (Archaic), and CS GAMESS 09
  - **Python for ChemScript:** 3.2 and 2.5
  - **Visual C# for ChemScript:** 2010, 2008, and 2005

- **Regression Testing:**
  - One round of full-feature regression testing with ChemBioOffice Ultra and ChemBioDraw Ultra packages on Windows 8.1 (32-bit) and Mavericks systems, respectively
  - Verification of issue fixes and regression testing of related features

- **Backward & Forward Compatibility:**
  - Testing with files created using current and past versions of ChemBioOffice applications


- **Japanese Localization:**
  - Detailed testing on Windows 8.1 and Mac OS X 10.9.2 (Mavericks)
- **Release Candidate Qualification Testing:**
  - Digital signature verifications
  - Sanity/Smoke test executions with all packages in mixed environments
  - SciStore download tests
  - Master DVD qualifications

### 3.2 Testing Environment

The following table details the testing environments for ChemBioOffice v14:

<table>
<thead>
<tr>
<th>Machine Type</th>
<th>Operating System</th>
<th>Database Version</th>
<th>MSOffice Version</th>
<th>Browser</th>
<th>Adobe Version</th>
<th>IIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client</td>
<td>Windows 8.1</td>
<td>N/A</td>
<td>2010, 2013 SP1</td>
<td>IE11, Firefox 28, Chrome33</td>
<td>Acrobat 11</td>
<td>N/A</td>
</tr>
<tr>
<td>Client</td>
<td>Windows 8.1</td>
<td>N/A</td>
<td>2010 (32-bit), 2013 (32-bit) SP1</td>
<td>IE11, Firefox 28, Chrome33</td>
<td>Acrobat 11</td>
<td>N/A</td>
</tr>
<tr>
<td>Client</td>
<td>Windows 7</td>
<td>N/A</td>
<td>2010, 2013 SP1</td>
<td>IE9, IE10, IE11, Firefox 28, Chrome33</td>
<td>Acrobat 11</td>
<td>N/A</td>
</tr>
<tr>
<td>Client</td>
<td>Windows 7</td>
<td>N/A</td>
<td>2010 (32-bit), 2013 (32-bit) SP1</td>
<td>IE9, IE10, IE11, Firefox 28, Chrome33</td>
<td>Acrobat 11</td>
<td>N/A</td>
</tr>
<tr>
<td>Client</td>
<td>Mac OS X 10.9</td>
<td>N/A</td>
<td>2011 (14.3.9)</td>
<td>Safari7.0.2, Firefox 28, Chrome33</td>
<td>Acrobat 11</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 4 Installation Instructions

#### 4.1 Prerequisites and System Requirements

For information about system requirements please refer to the *DT-14 Hardware Software Guide* (part of this release package).
4.2 Release Installation

Please note the following when installing ChemBioOffice v14:

- For a clean installation, we recommend running the install.exe as an administrator
- Side-by-side installations of Desktop 12.0.x and 14.0 packages are possible
- Side-by-side installations of Desktop 13.0.x and 14.0 packages are not possible
  
  *Note:* You must uninstall the major 13.0.x contents, except Database Management Applications, before installing 14.0.
- Desktop E-Notebook 13.0.x works fine using ChemDraw ActiveX Enterprise Constant 14.0

4.3 Manifest

The Desktop v14.0 release includes the following SKUs and components:

- ChemBioOffice Ultra
  - *DVD navigation*
    - autorun.inf
    - ChemBioOfficeUltra140.cdd
    - ChemBioOfficeUltra140.exe
    - CO.ico
    - lua5.1.dll
    - lua51.dll
    - autorun\dat01\ap*.dat  * = (1-68)
    - autorun\Icons\CO.ico
  - *Installation*
    - Windows\activationhelp.html
    - Windows\Install.exe
    - Windows\install.ini
    - Windows\MSCOMCTL.OCX
    - Windows\registerproduct.html
    - Windows\registerproductemail.html
    - Windows\registerproductfax.html
    - Windows\registerredirect.html
    - Windows\Cambridgesoft\Activation\Activate.exe
    - Windows\Cambridgesoft\Activation\Activate.exe.config
    - Windows\Cambridgesoft\ChemOffice\CambridgeSoft_ChemDraw_ActiveX_Enterprise_Constant_14.0.msi
    - Windows\Cambridgesoft\ChemOffice\CambridgeSoft_Desktop_2014.msi
    - Windows\Cambridgesoft\ChemScript\CambridgeSoft_ChemScript_14.0.msi
    - Windows\Cambridgesoft\Inventory\Common\DLLs\MolServer13.dll
    - Windows\ThirdParty\Microsoft\KB2538243\vcredist_x86.exe
    - Windows\ThirdParty\Microsoft\Win Installer4.5\Windows6.0-KB942288-v2-x64.msu
    - Windows\ThirdParty\Microsoft\Win Installer4.5\Windows6.0-KB942288-v2-x86.msu
    - Windows\ThirdParty\Microsoft\Win Installer4.5\WindowsServer2003-KB942288-v4-x64.exe
    - Windows\ThirdParty\Microsoft\Win Installer4.5\WindowsServer2003-KB942288-v4-x86.exe
    - Windows\ThirdParty\Microsoft\Win Installer4.5\WindowsXP-KB942288-v3-x86.exe
    - Windows\ThirdParty\MNova\defaults.ini
    - Windows\ThirdParty\MNova\MNovaNMRLite.exe
    - Windows\ThirdParty\NETInstaller\dotNetFx40_Full_x86_x64.exe
    - Windows\ThirdParty\Python\python-3.2.2.msi
    - Windows\ThirdParty\PythonExt\pywin32-217.win32.py3.2.exe
    - Windows\_images\progress.gif
  - Docs\ChemBioOffice v14 Release Notes.pdf (This document)
  - Docs\DT-14 Hardware Software Guide.pdf
- **ChemBioDraw Ultra (Win/Mac)**
  - *DVD navigation*
    - autorun.inf
    - ChemBioDrawUltra140.cdd
    - ChemBioDrawUltra140.exe
    - CD.ico
    - lua5.1.dll
    - lua51.dll
    - autorun\dat01\ap*.dat
    - autorun\icons\CO.ico
  - *Installation*
    - Windows\.activationhelp.html
    - Windows\Install.exe
    - Windows\install.ini
    - Windows\MSCOMCTL.OCX
    - Windows\QProGIF.ocx
    - Windows\registerproduct.html
    - Windows\registerproductemail.html
    - Windows\registerproductfax.html
    - Windows\registerredirect.html
    - Windows\Cambridgesoft\Activation\Activate.exe
    - Windows\Cambridgesoft\Activation\Activate.exe.config
    - Windows\Cambridgesoft\ChemOffice\CambridgeSoft_ChemBioDraw_Ultra_14.0.msi
    - Windows\ThirdParty\Microsoft\KB2538243\vcredist_x86.exe
    - Windows\ThirdParty\MNova\defaults.ini
    - Windows\ThirdParty\MNova\MNovaNMRLite.exe
    - Windows\ThirdParty\NETInstaller\dotNetFx40_Full_x86_x64.exe
    - Windows\_images\progress.gif
  - Docs\ChemBioOffice v14 Release Notes.pdf (This document)
  - Docs\DT-14 Hardware Software Guide.pdf

- **ChemDraw Pro (Win/Mac)**
  - *DVD navigation*
    - autorun.inf
    - ChemDrawPro140.cdd
    - ChemDrawPro140.exe
    - CD.ico
    - lua5.1.dll
    - lua51.dll
    - autorun\dat01\ap*.dat
    - autorun\icons\CD.ico
  - *Installation*
    - Windows\activationhelp.html
    - Windows\Install.exe
    - Windows\install.ini
    - Windows\MSCOMCTL.OCX
    - Windows\QProGIF.ocx
    - Windows\registerproduct.html
    - Windows\registerproductemail.html
    - Windows\registerproductfax.html
    - Windows\registerredirect.html
    - Windows\Cambridgesoft\Activation\Activate.exe
    - Windows\Cambridgesoft\Activation\Activate.exe.config
    - Windows\Cambridgesoft\ChemOffice\CambridgeSoft_ChemDraw_Pro_14.0.msi
    - Windows\ThirdParty\Microsoft\KB2538243\vcredist_x86.exe
    - Windows\ThirdParty\NETInstaller\dotNetFx40_Full_x86_x64.exe
    - Windows\_images\progress.gif
- **ChemDraw Std (Win/Mac)**
  - * DVD navigation
    - autorun.inf
    - ChemDrawStd140.cdd
    - ChemDrawStd140.exe
    - CD.ico
    - lua5.1.dll
    - lua51.dll
    - autorun\dat01\ap*.dat  * = (1-75)
    - autorun\icons\CD.ico
  - * Installation
    - Windows\activationhelp.html
    - Windows\Install.exe
    - Windows\install.ini
    - Windows\MSCOMCTL.OCX
    - Windows\QProGIF.ocx
    - Windows\registerproduct.html
    - Windows\registerproductemail.html
    - Windows\registerproductfax.html
    - Windows\registerredirect.html
    - Windows\Cambridgesoft\Activation\Activate.exe
    - Windows\Cambridgesoft\Activation\Activate.exe.config
    - Windows\Cambridgesoft\ChemOffice\CambridgeSoft_ChemDraw_Std_14.0.msi
    - Windows\ThirdParty\Microsoft\KB2538243\vcredist_x86.exe
    - Windows\ThirdParty\NET\Installer\dotNetFx40_Full_x86_x64.exe
    - Windows\_images\progress.gif
  - Docs\ChemBioOffice v14 Release Notes.pdf (This document)
  - Docs\DT-14 Hardware Software Guide.pdf

- **ChemBio3D Ultra**
  - * DVD navigation
    - autorun.inf
    - ChemBio3DUltra140.cdd
    - ChemBio3DUltra140.exe
    - 3D.ico
    - lua5.1.dll
    - lua51.dll
    - autorun\dat01\ap*.dat  * = (1-70)
    - autorun\icons\3D.ico
  - * Installation
    - Windows\activationhelp.html
    - Windows\Install.exe
    - Windows\install.ini
    - Windows\MSCOMCTL.OCX
    - Windows\QProGIF.ocx
    - Windows\registerproduct.html
    - Windows\registerproductemail.html
    - Windows\registerproductfax.html
    - Windows\registerredirect.html
    - Windows\Cambridgesoft\Activation\Activate.exe
    - Windows\Cambridgesoft\Activation\Activate.exe.config
    - Windows\Cambridgesoft\ChemOffice\CambridgeSoft_ChemBio3D_Ultra_14.0.msi
    - Windows\Cambridgesoft\ChemScript\CambridgeSoft_ChemScript_14.0.msi
    - Windows\ThirdParty\Microsoft\KB2538243\vcredist_x86.exe
- **ChemOffice Std**
  - * DVD navigation
    - autorun.inf
    - ChemOfficeStd140.cdd
    - ChemOfficeStd140.exe
    - CO.ico
    - lua5.1.dll
    - lua51.dll
    - autorun\dat01\ap*.dat \* = (1-71)
    - autorun\icons\CO.ico
  - * Installation
    - Windows\activationhelp.html
    - Windows\Install.exe
    - Windows\install.ini
    - Windows\MSCOMCTL.OCX
    - Windows\QProGIF.ocx
    - Windows\registerproduct.html
    - Windows\registerproductemail.html
    - Windows\registerproductfax.html
    - Windows\registerredirect.html
    - Windows\Cambridgesoft\Activation\Activate.exe
    - Windows\Cambridgesoft\Activation\Activate.exe.config
    - Windows\Cambridgesoft\ChemOffice\CambridgeSoft_ChemOffice_Std_2014.msi
    - Windows\ThirdParty\Microsoft\KB2538243\vcredist_x86.exe
    - Windows\ThirdParty\MNova\defaults.ini
    - Windows\_images\progress.gif
  - * Docs\ChemBioOffice v14 Release Notes.pdf (This document)
  - * Docs\DT-14 Hardware Software Guide.pdf

- **ChemScript Ultra**
  - * DVD navigation
    - autorun.inf
    - ChemScriptUltra140.cdd
    - ChemScriptUltra140.exe
    - CS.ico
    - lua5.1.dll
    - lua51.dll
    - autorun\dat01\ap*.dat \* = (1-73)
    - autorun\icons\CS.ico
  - * Installation
    - Windows\activationhelp.html
    - Windows\Install.exe
    - Windows\install.ini
    - Windows\MSCOMCTL.OCX
    - Windows\QProGIF.ocx
    - Windows\registerproduct.html
    - Windows\registerproductemail.html
    - Windows\registerproductfax.html
    - Windows\registerredirect.html
  - * Docs\ChemBioOffice v14 Release Notes.pdf (This document)
  - * Docs\DT-14 Hardware Software Guide.pdf
- Windows\Cambridgesoft\Activation\Activate.exe
- Windows\Cambridgesoft\Activation\Activate.exe.config
- Windows\Cambridgesoft\ChemScript\CambridgeSoft_ChemScript_14.0.msi
- Windows\ThirdParty\Microsoft\KB2538243\vcredist_x86.exe
- Windows\ThirdParty\NETInstaller\dotNetFx40_Full_x86_x64.exe
- Windows\ThirdParty\Python\python-3.2.2.msi
- Windows\ThirdParty\PythonExt\pywin32-217.win32-py3.2.exe
- Windows\_images\progress.gif
  - Docs\ChemBioOffice v14 Release Notes.pdf (This document)
  - Docs\DT-14 Hardware Software Guide.pdf

- ChemDraw Plugin Pro (Win/Mac)
  - * Installation
    - activationhelp.html
    - install.exe
    - install.ini
    - MSCOMCTL.OCX
    - QProGIF.ocx
    - registerproduct.html
    - registerproductemail.html
    - registerproductfax.html
    - registerredirect.html
    - RICHTX32.OCX
    - Cambridgesoft\Activation\Activate.exe
    - Cambridgesoft\Activation\Activate.exe.config
    - Cambridgesoft\ChemOffice\CambridgeSoft_ChemDraw_Plugin_Pro_14.0.msi
    - ThirdParty\Microsoft\KB2538243\vcredist_x86.exe
    - ThirdParty\NETInstaller\dotNetFx40_Full_x86_x64.exe
    - _images\progress.gif
  - Docs\ChemBioOffice v14 Release Notes.pdf (This document)
  - Docs\DT-14 Hardware Software Guide.pdf

- ChemDraw Active-X Ent Const (admin/non-admin)
  - * Installation
    - CambridgeSoft_ChemDraw_ActiveX_Enterprise_Constant_14.0.msi
    - Install.exe
    - install.ini
    - MSCOMCTL.OCX
    - QProGIF.ocx
    - RICHTX32.OCX
    - ThirdParty\Microsoft\KB2538243\vcredist_x86.exe
    - ThirdParty\Microsoft\NETInstaller\dotNetFx40_Full_x86_x64.exe
    - _images\progress.gif
  - Docs\ChemBioOffice v14 Release Notes.pdf (This document)
  - Docs\DT-14 Hardware Software Guide.pdf

- CDAX Ent Const NonAdmin
  - *Installation
    - CambridgeSoft_ChemDraw_ActiveX_Enterprise_Constant_NA_14.0.msi
5 Key Capabilities
N/A

6 Known Issues, Limitations and Workarounds

The following list describes the known issues, limitations, and workarounds for Desktop v14:

- Structures are pasted as black image boxes when copied/pasted from iWorks13 applications
- Cannot embed Chem3D models in MS PowerPoint 2010 and 2013
- The Search SciFinder feature may not provide accurate results for the following query types:
  - Stereo bond types: Dashed, Hashed, Bold, Hollow Wedged, and Wavy
  - Multiple bond types: Quadruple, Dative, Tautomeric (Dashed Double), Aromatic (Double Dashed Double), and Double Either
  - Resonance delocalized ring forms
  - Chemical Symbols Radical, Lone Pair, Radical Cation, and Radical Anion
  - Isotopic labels
  - Multiple Group Bracket Repeat Patterns 'Either/Unknown' and 'Head-To-Head'
  - Multiple Group Brackets crossing multiple bonds or no bonds of the query structure
  - Nested bracketed groups
  - Anonymous alternative group labels with more than (1) non-H atoms
  - Generic atom labels for Exact Search

- ChemDraw For Excel > ChemOffice14 context menu is disabled: When you right-click on a chemical name within a new ChemOffice MS Excel worksheet (Microsoft Excel 2013 , 32 bit), and you select ChemOffice14, the following options are disabled: Add, Smiles to Molecule, Inchi to Molecule, Select Table, Format as Formula, Properties, Edit, Show, and Hide. This issue is present in Windows 8.1, 64-bit; MSOffice 2013, 32-bit (VM,DQA185-SK).

- ChemScript14 does not work properly after installing ChemBioOffice Ultra on a Windows 8.1, 64-bit machine.

- With systems running Windows 8.1 (64 bit) and Visual Studio C# 2010 Express, the demo (Demo.csproj) might crash due to a possible error in the error in VS 2010 Express conversion process.
  - Workaround: Manually remove the “Demo.exe.config” file from the “C:\ProgramData\CambridgeSoft\ChemOffice2014\ChemScript\Examples\Demo”. This will prevent this issue from recurring on systems with Visual C# 2010 Express.

7 Technical Support

PerkinElmer Informatics Support supports this software. Please contact your Sales or Services representative for further information about ChemBioOffice v14.

www.perkinelmer.com/informatics/support

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