CrossFire™
Administrator’s Guide
Commander Configuration and Installation
Customer Support
Elsevier offers a Helpdesk service to our customers. The Helpdesk will provide support for the use of the system.
The Helpdesk can be contacted via E-mail, phone or fax.

Europe
E-Customer Service
Radarweg 29
1043 NX Amsterdam The Nederlands
Phone: +31 20 485 3767
Fax: +31 20 485 3739
E-Mail: nlinfo@crossfire-databases.com

North or Central America
E-Customer Service
360 Park Avenue South
New York, NY 10010-1710 USA
Phone: +1 888 615 4500 (inside USA)
+1 212 462 1978 (outside USA)
Fax: +1 212 462 1974
E-mail: usinfo@crossfire-databases.com

Asia Pacific
E-Customer Service
1-9-15 Higashi-Azabu
Minato-ku
Tokyo 106-0044 Japan
Phone: +81 3 5561 5034
Fax: +81 3 5561 5047
E-mail: japinfo@crossfire-databases.com
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Introduction
1 Introduction

This administrator’s guide explains and describes the installation, maintenance and settings files for the client component of the CrossFire system:

The CrossFire Commander (Client)

The setup processes of CrossFire Commander on Windows platforms are described, followed by an explanation of the folder organization and the used files.

The appendix finally contains explanations of various topics, which are not covered by the other chapters.

The CrossFire team wishes you a trouble free installation and hopes that you will enjoy the system.
The CrossFire Commander
2 The CrossFire Commander

CrossFire Commander is the user interface to the CrossFire Server system and
the Databases CrossFire Beilstein, CrossFire Gmelin and Patent Chemistry
Database. It provides search functionalities that are dedicated to the structure of
these databases.

The new CrossFire Commander 7.1 provides all functionality for searching the
databases and manages hitsets available in one Window.
2.1 Installation

2.1.1 GENERAL

This chapter describes the installation of the Commander client software only. The setup can be stopped at any time by clicking the 'Cancel' button. You will also be able to navigate through the dialog boxes of the setup by using the 'Next' and 'Back' buttons until copying of the files will start.

Before starting the installation, it is recommended to close all programs that are currently running, even e-mail programs.

The Windows Setup contains all necessary files for installing CrossFire Commander under Windows XP and Windows Vista.

The Setup will copy all files into a target directory, which is specified during the Setup process. The Setup will also ask for several parameters which have to be entered:

- CrossFire Server address,
- CrossFire license group name,
- CrossFire user name (at first start of Commander)
- CrossFire user password (at first start of Commander),
- Article Resolver's URL,
- Patent Resolver's URL.

Please ask your system administrator for details. The CrossFire server address can be changed later within the program via Options \rightarrow Connection Settings \rightarrow Server Profiles \rightarrow Edit.

**The CrossFire license group name must be entered and re-typed during the Setup. It will not be possible to skip the dialog for this information.**

If the Setup has detected an older version of the CrossFire Commander it extracts all necessary information for the use with the new version. An old installation of Commander 7.0 can be removed or kept parallel with the new 7.1 installation.

The CrossFire Commander 7.1 CD also contains the additional product MDL ChimePro 2.6 (SP 6). This product can be installed by the setup as well.
Help System

CrossFire Commander 7.1 has a HTML based help system. Ensure that a Web browser is installed, which supports Java Script and that Java Script is enabled. Also ensure that the extension “*.htm” is connected with the desired Web browser. If CrossFire Commander cannot find a Web browser or if other settings are wrong then an error message will appear. The help files are located in directory “Webhelp” under the CrossFire Commander System directory.
2.1.2 THE INSTALLATION PROCESS

The following dialog box will appear by running InstallShell.exe from the CD:

Select and click "Install Commander" to install Commander 7.1 on your computer.

Note: You need administration privileges to perform the installation.
This dialog Box will appear by running setup.exe from the CD in the "Commander71" folder or via clicking the "Install Commander" button on the previous window.

Pressing "Next" will start the setup process.
Please read the license agreement. If you accept the license conditions you can proceed with "Next"...
This dialog box will only appear if CrossFire Commander 7.1 setup has recognized an already existing CrossFire Commander Installation (Version 6 or 7.0).

You have the choice to either keep or remove this installation (remove is recommended). Installing the new version in parallel should be done for testing purposes only.

Note: If you remove an old 7.0 installation at a later date, you have to run the 7.1 installation in "repair" mode. Otherwise your Commander version 7.1 might not work correctly.
Now you have the chance to choose your installation directory, default is C:\Program Files\CrossFire Commander 7.1.
If CrossFire Commander Setup has recognized that communication parameter settings are missing, it will now ask you for the missing parameters.

If you are updating from a previous installation this window will be skipped.
Here you have to enter the IP Address or Hostname of your CrossFire Server.
In this dialog box you have to enter your license group name. Contact your system administrator for this information.

It is very important that a correct license group name is entered here, otherwise you will not be able to use the CrossFire system after installation.

It is possible to change the group name for a maximum of three times after CrossFire Commander is installed. This function is for emergency use only.
For linking articles or patents to full-text sources you need special services on the web.

Ask your system administrator for the correct URL addresses of these Article and Patent Resolvers.
Here you enter the URL of your Article Resolver.

URL: http://sc.elsevier.com/xlink
Here you enter the URL of your Patent Resolver.
You are now finished with the basic configuration of CrossFire Commander.

You now have the choice to install one additional component, namely MDL Chime (Version 2.6 SP 6).

Note: If you are overinstalling an old Commander 7.0 installation where MDL Chime is already installed, this window will be skipped.
Click "Yes" to agree to the license agreement for the additional component MDL CHIME.
In this step you may select the additional component to be installed.
**Installation Parameters Summary**

Before the installation of program files will start the setup will give you an overview on all parameters that have been entered so far.

**At this point you still have the chance to go “Back” to change settings.**

If you click on "Next" the installation will start.
If an old installation (e.g. Commander 7.0) exists, press "Yes" to confirm removing of this old installation, "No" will keep the old installation.
A dialog box will show the proceeding of the installation.

Depending on whether you have selected the additional component MDL Chime you will need to confirm its installation by pressing an OK button.
The final dialog box tells you whether the installation was successful or not. Click "Finish" to complete the setup procedure and installation.

After a successful installation, you can start the Commander by either double-clicking the CrossFire 7.1 Commander icon on your desktop or through the windows start menu.
2.2 First Logon to the CrossFire Server

After you have installed the CrossFire Commander you may launch the CrossFire Commander by double clicking the Commander icon. The program normally connects to the CrossFire Server you have defined during the setup automatically.

If you get the message "No server is connected", press the Connect button in order to establish a connection to the server.

Starting Commander the first time you will be shown a login dialog box, prompting for your user id and the user's password for the CrossFire server.

![Login dialog box](image)

This information can be saved by checking the "Save user id and password" checkbox and you will not be prompted for this anymore.

If you recognize that the login does not proceed click the "Close" button and try to login again. If it still does not work, then please check your connection settings and group name and contact your system administrator.

Notes for administrators:

If your server is not in the local network, you may need to open up port 8001 for network traffic on the Crossfire server network.

Please be aware that timeout settings on the firewall may lead to disconnections!
After a successful logon on your CrossFire Server the available databases on this server are shown.

Please select one or more databases of your choice.

Note: You cannot escape from this menu unless you have at least one database selected.
2.3 Start a search

After a query has been defined by using the query builder or with help of the predefined search forms you may click the **Start Search** button.

A click on this button will send the displayed query with all its parameters to the CrossFire Server and a search status report box will appear. This box includes a "Cancel" button, which can be used to interrupt a search at any time.

After the search has ended the status box will display whether your search had results or not. Pressing the view button will download your hits and display them on the "Results" tab.
2.4 CrossFire Commander Appendix

2.4.1 SYSTEM REQUIREMENTS (MINIMUM)

<table>
<thead>
<tr>
<th></th>
<th>IBM PC or compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Platform</strong></td>
<td>Pentium Class PC</td>
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<tr>
<td><strong>Memory</strong></td>
<td>64 MB not including</td>
</tr>
<tr>
<td></td>
<td>OS requirements and</td>
</tr>
<tr>
<td></td>
<td>Help system</td>
</tr>
<tr>
<td></td>
<td>requirements</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>100 MB hard disk</td>
</tr>
<tr>
<td></td>
<td>storage</td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
<td>MS Windows XP or</td>
</tr>
<tr>
<td></td>
<td>Vista</td>
</tr>
<tr>
<td><strong>Protocol</strong></td>
<td>TCP/IP connection to</td>
</tr>
<tr>
<td></td>
<td>server</td>
</tr>
</tbody>
</table>
2.4.2 NETWORK INSTALL OF THE CROSSFIRE COMMANDER

The CrossFire Commander can be installed on a network server into a write-protected directory. The system administrator has to start the Setup program and install the application into the desired drive/directory on the network. If a normal / restricted user wants to use this network installation several settings have to be made. The CrossFire Commander requires a `xf.ini` file, which has to be located in the CrossFire Commander program directory. This file needs to contain the correct information about paths and group directories. Users must have write access to the users directories; group directories can be write-protected. Communication profiles, export settings and other settings can be made public for an entire user group in the group directory. Please refer to chapter 2.4.6 “Files and Folders” for more details on the CrossFire Commander directory structure.

The best method in a network environment is to copy all necessary setup files from the CrossFire Commander CD-ROM onto a network drive and let the users install the CrossFire Commander themselves using the setup.exe program.
2.4.3 **PRECONFIGURED SETUP**

If the system administrator prepares a XF.INI file and copies it into the same directory where the Elsevier Crossfire Commander 7.1 installation files are located, then the setup program will use this information and install Elsevier Crossfire Commander 7.1 with predefined settings without prompting the user for any additional information.

**Note:**

Running a preconfigured setup is not possible if CrossFire Commander is already installed on the machine.

There are 2 types of the preconfigured setup:

1. Preconfigured Setup with a default.prf
2. Preconfigured Setup without a default.prf

In both cases a complete XF.INI file needs to be placed in the setup directory (with or without a default.prf). That means that all parameters have to be included in the xf.ini file, as this file will be transferred to the Commander Program Folder and will replace the default XF.INI file delivered with the Commander Setup files.

If a default.prf exists, the hostname, username and password are taken from the default.prf. However if a different host is specified in the xf.ini, this host is used instead.

If you (as administrator) install CrossFire Commander for a special user via a preconfigured setup with username and password, the default.prf file will be in the user's directory. This special user does not need to know the password for his CrossFire server login. All other users will have to create their own default.prf when starting Commander the first time.

Further details about the contents of **xf.ini** and **default.prf** are described in sections 2.4.6.2.1 "Files and Folders - INI Files" and 2.4.6.2.4 "Files and Folders - PRF Files".
The preconfigured setup works with both an ASCII “default.prf” and an encrypted file created or modified with Commander.

*Tip: The easiest way of getting an xf.ini file and a default.prf file is to copy them from an already existing installation of Elsevier Crossfire Commander and modify the xf.ini according to your needs.*

The CrossFire Commander Files can also be bundled into a self designed installer. Please refer to chapter 2.4.6 “Files and Folders”. For further information about this please refer to one of our ELSEVIER helpdesks.
2.4.4 SILENT INSTALLER

2.4.4.1 Silent Install Overview

A regular (non-silent) setup receives the necessary input from the user in the form of responses to dialog boxes. However, a silent setup does not prompt the user for input. A silent setup must get its user input from a different source. That source is the Installation Shell Silent response file (.iss file). A response file contains information similar to that which an end user would enter as responses to dialog boxes when running a normal setup. Installation Shell Silent reads the necessary input from the response file at run time. The format of response files resembles that of an .ini file, but response files have .iss extensions. A response file is a plain text file consisting of sections containing data entries.

2.4.4.2 Recording a response file

You have the option that Installation Shell creates the response file for you. Simply run your setup with `setup.exe -r` from the command line.

Installation Shell will record all your setup choices in the `setup.iss` file which you can find in the Windows folder.

2.4.4.3 Play back the silent setup

Copy the created response file `setup.iss` from the Windows folder to the installation folder parallel to setup.exe. You are now ready to run the setup in silent mode using Installation Shell Silent.

To launch Installation Shell Silent, run `setup.exe -s` from the command line.

When running a setup in silent mode, be aware that no messages are displayed. Instead, a log file named `setup.log` captures setup information, including whether the setup was successful or not. You can review this log file which has been created in the installation folder afterwards and determine the result of the setup.

Installation Shell also provides the -f1 and -f2 switches so you can specify the name and location of the response file and the location of the log file. To verify if a silent setup succeeded, look at the ResultCode value in the [ResponseResult] section of setup.log. Installation Shell writes an appropriate return value after the ResultCode keyname. If silent installation was successful, a `ResultCode=0` results.

Another interesting option is the combination of a preconfigured setup and the built-in features of Install Shell. You can easily prepare a preconfigured silent setup to install Elsevier Crossfire Commander. You just need to issue a preconfigured setup, while recording it with Install Shield.
2.4.5  CITRIX AND TERMINAL SERVER INSTRUCTIONS

Installing CrossFire Commander on a Citrix or Windows Terminal Server.

The basic installation of CrossFire Commander has already been described in the previous chapter, however for correct functionality of all features you need to configure xfdlink accordingly.

2.4.5.1 Xfdlink Configuration

You will need to install xfdlink as a service, the easiest way to do this is with the SRVANY Tool from Microsoft. You may have to download and install this as a part of the MS Resource Toolkit.

- Create a service with “srvany” from the MS Resource Toolkit:
- Open a Command Prompt
- `C:\Program Files\Windows Resource Kits\Tools>"C:\Program Files\Windows Resource Kits\Tools\instsrv.exe" xfdlink "C:\Program Files\Windows Resource Kits\Tools\srvany.exe"
  ➢ The service was successfully added!
- Make sure that you go into the Control Panel and use the Services applet to change the Account Name and Password that this newly installed service will use for its Security Context.
- To verify that the service was created correctly, check and configure the registry to verify that the ImagePath value under:

  `HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\xfdlink`

- Run `regedit` to verify and add new registry key:
- From the Edit menu, click "Add Key". Type the following and click OK:
  - Key Name: Parameters
- Select the Parameters key
- From the Edit menu, click Add and new String Value. Type the following and click OK.
  Value Name: Application
  Data Type: REG_SZ
  Value data: C:\Program Files\CrossFire Commander 7.1\xfdlink.exe
  (make sure to enter the full path to the Commander executable)

- Close Registry Editor.
### 2.4.6 FILES AND FOLDERS

#### 2.4.6.1 Folder Organisation of CrossFire Commander

During the installation, you will be asked for a target directory for the Commander. Below this target directory the setup will create a **program folder for general files** called “**CrossFire Commander 7.1**”, which will contain all binary files and DLLs together with the XF.INI file and the help management files *.HIDX.*

The default target directory for **personal files** is the *(My) Documents* folder.

The final directory structure will look like the following:

<table>
<thead>
<tr>
<th>1. General files</th>
<th>2. Personal files</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="General files tree" /></td>
<td><img src="image" alt="Personal files tree" /></td>
</tr>
</tbody>
</table>

*Note: The images above show the directory structures for general and personal files respectively.*
**General Files folder (Program folder):**

These folders will contain the following files:

**CrossFire Commander 7.1 program directory:**

contains binary files, DLLs, and xf.ini.

**fieldhelp:**

contains various sub-directories with the HTML help system for CrossFire Commander Fieldhelp.

**group:**

*Note: This directory can be located elsewhere. It then has to be declared in the Commander Options Menu under Define Preferences. If Commander cannot find this directory then it will create it automatically in the CrossFire Commander 7.1 folder.*

**group subfolders:**

**dst:**

contains the datastructure files. After a connection to a CrossFire server has been established, Commander checks that both, server and client, share the same DST files. If Commander recognizes that DST files are missing then it will start downloading them from the CrossFire server.

**export:**

It is possible to create export settings files and export views. If you like to share them with a user group, simply copy all export files into this directory and the user group will have access to them.

**prf:**

It is possible to share communication profiles with a user group. Simply copy the profile file (extension *.prf) into this directory and all users will have access to this profile.

**samples:**

contains sample queries (e.g. for training purposes)

**template:**

contains template files. These can be structure template files only but also query template files for the use in the Commander.
view:
It is possible to share user view definition files with a user group. Simply copy the user view files (extension *.udf) into this directory and all users will have access to this user view.

webhelp:
This directory contains various sub-directories with the HTML help system for CrossFire Commander.

Personal Files folder:
Note: This folder can be located elsewhere. It then has to be declared in the Commander Options Menu under Define Preferences.
This directory must be writable for the user. It is used by the Commander to store user defined files and settings. It is possible for a user to define his own export, communication and user view settings. They will be stored in this directory in the appropriate folders. Additionally this directory is used for storing personal INI files and the history. Therefore a new directory with the name of the current user will be created under this directory, which will then be used to store personal files in the appropriate directories as described above.

dst:
contains the datastructure files. After a connection to a CrossFire server has been established, Commander checks that both. Server and client, share the same DST files. If Commander recognizes that DST files are missing then it will start downloading them from the CrossFire server.

export:
contains user defined export settings (extension *exs)

exportdata:
contains executed and saved exports.

history:
This folder will be used by Commander to store BSD files, which contain the history of a CrossFire session. These BSD files can be opened with the Commander at any time using the File Open menu item.

ini:
In this folder, Commander will store all INI files, which will be created during a session. The essential file in this directory is the XDK.INI file. If this file is deleted or corrupted then the Commander might not work correctly any longer. All other INI files can be deleted at any time. The Commander and its application will then start and run with factory settings.

**logs:**
contains log files. Log files are produced e.g. for a query upload (execute query (List), execute query (SDF)).

**prf:**
contains server communication profiles (extension *.prf).

**queries:**
contains saved user queries. They are shown in the My Queries node of the Query Tab.

**reports:**
contains executed and saved reports.

**samples:**
contains sample queries (e.g. for training purposes)

**template:**
contains template files. These can be structure template files only but also query template files for the use in the Commander.

**view:**
contains user defined views (extension *.udf).
2.4.6.2 Files of CrossFire Commander

CrossFire Commander and its applications are using various files for storing information locally on the client side. If essential files are missing the Commander automatically tries to restore/create them. These essential files are: XF.INI, XDK.INI and the database DST files. In the following a description is given for these files.

2.4.6.2.1 INI Files

The CrossFire Commander is using INI files for storing information on window sizes and last used files etc. The files xf.ini and xdk.ini are the most important INI files, because they contain essential information.

The file xf.ini must be located in the CrossFire Commander Program directory. It contains general information for the CrossFire Commander system.

The file xdk.ini is located in the user's documents folder (e.g.: C:\Documents and Settings\user\Documents\Elsevier\Commander\ini”). The xdk.ini file must not be write protected. It contains user/workstation specific data.

If xf.ini is missing CrossFire Commander will not work correctly. All other INI files, which names start with "xf" (e.g. xfcm.ini) are not necessary and can be deleted if required. The system will then start with factory default settings.

XF.INI

The file xf.ini is the main configuration file for CrossFire Commander and is residing in the same folder as the executable xfcm.exe.

It has 2 or more sections each with several parameters on a single line:

[XFCM]
Keyword=Content
...

[Install]
Keyword=Content
...
complete xf.ini example:

```
[XFCM]
ALERTS=YES
RESOLVER=YES
RESOLVER_FILTER=PY>="1920"
MDLDrawVersions=1.2:v1.1.4322,1.4:v1.1.4322,2.0:v2.0.50727,2.1:v2.0.50727,3.0:v2.0.50727,4.0:v2.0.50727
XFPE_ADDHELP1=Beilstein Reference Guide;50
XFPE_ADDHELP2=Gmelin Reference Guide;51
XFPE_ADDHELP3=Patents Reference Guide;53
WebHelpPath=http://www.webhelpinstallation.com
FieldHelpPath=http://www.fieldhelpinstallation.com
CitedBy=http://www.scopus.com/scsearchapi/search.url
CitedByKey=<totalResults>
CitedByTimeOut=5
CitedByPhrase=($C Document$P citing this article)
DocType=DT:P|PN|IND.PN
ArticleResolver=http://www.sc.elsevier.com/xlink
ArticleParams=sid=internal_articles
PatentResolver=http://www.sc.elsevier.com/xlink
PatentParams=sid=internal_patents
Multistep=http://www.sc.elsevier.com/multistep?chain=$CHAIN
Title=TI,CNR@<br class="dist"/><br class="dist"/>|<a href="http://dummy/abs:" title="E.g. the abstract"><img src="view_details.bmp" border="0"/</a>|NONE,CNR@_B|<a href="http://dummy/org:" title="Access the original document"><img src="full_text.bmp" border="0"/</a>|NONE,SCOPUS@_B|<a href="http://dummy/scp:" title="View citing publications in Scopus"><img src="scopus.bmp" border="0"/</a>|NONE
Authors=FPA,AU,PA
```
(continuation of xf.ini example)

```
Year=PY|PYT|PY,IND.PY
Source=IND.PN@_c_b|Publ._b,IND.PK@_b,IND.PD@_b|(|),IND.AP@_c_b|Appl._b,IND.AD@_b|(|),PN@_c_b,JTT|JT|JTW@_c_b|<i>|</i>,VLT|VL@_b,NBT|NB@_b|(|),PAGT|PAG@_c_b|pp._b,URES@_c_b
SortYear=BS:PY,GM:PY,PA:IND.PY
SortSource=BS:JT,GM:JT,PA:IND.PN
AllowRegisteredLogin=Y
AllowRegistration=Y

[Install]
CrossFireGroup=YourLicenseGroup
GroupPath=C:\\group
MDLChime=Yes
host=crossfire.elsevier.com
```

Parameters in section [XFCM]

<table>
<thead>
<tr>
<th>xf.ini keyword</th>
<th>Content</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALERTS</td>
<td>YES (default)</td>
<td>NO</td>
</tr>
<tr>
<td>RESOLVER</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>RESOLVER_FILTER</td>
<td>Typically: PY&gt;=1920</td>
<td>For the Litlink OCX, issue requests only for citations matching the criteria given.</td>
</tr>
<tr>
<td>MDLDrawVersions</td>
<td>Comma-separated list of items like MAJOR.MINOR:Dot NetVersion</td>
<td>For MDLDraw versions MAJOR.MINOR (any build), a specific .NET framework version will be used. Future extension can be foreseen.</td>
</tr>
<tr>
<td>MDLDrawVersion</td>
<td>Full version specification a.b.c.d</td>
<td>of MDLDraw actually used, default is the newest version installed.</td>
</tr>
<tr>
<td>xf.ini keyword</td>
<td>Content</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Editor</td>
<td>MDLDDraw, ISIS/Draw, or SRE</td>
<td>Default is ISIS/Draw.</td>
</tr>
<tr>
<td>&quot;XFFE_ADDHELP1 to XFFE_ADDHELP18&quot;</td>
<td>menu_topic_name;help_id OR menu_text;URL</td>
<td>Currently 1-3 is used for the Beilstein, Gmelin and Patent Chemistry Reference Guide. Can be used to add additional Webhelps or HTML Files.</td>
</tr>
<tr>
<td>Scopus</td>
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<td>If a CrossFire database contains Scopus internal IDs then this URL is used to retrieve cited by information.</td>
</tr>
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<td>CitedBy</td>
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<td>If a CrossFire database contains Scopus internal IDs then this URL is used to retrieve cited by information.</td>
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<td>Keyword in the CitedBy response leading to the count requested.</td>
</tr>
<tr>
<td>CitedByTimeOut</td>
<td>&lt;number&gt;</td>
<td>Timeout for a CitedBy request, currently 5 seconds. Possibly to be enlarged.</td>
</tr>
<tr>
<td>DocType</td>
<td>Pipe separated list of items fieldname[starting_characters]</td>
<td>detects patent type citations by presence of specific fields or by specific content in such fields. This information is used to determine if a patent document resolver or an article resolver should be used.</td>
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<td>of the web service resolving OpenURL requests for journal articles.</td>
</tr>
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<td>Fixed parameters to be appended to the above URL. Optional</td>
</tr>
<tr>
<td>xf.ini keyword</td>
<td>Content</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------</td>
<td>-------------</td>
</tr>
<tr>
<td>ArticleMapping</td>
<td>This entry sets the OpenURL mappings between Xfire field names and the OpenURL parameter names appended to the above URL, completing the request. The mappings are separated by a comma and are of the form: OpenURL_Parameter:Xfire_field_name You can add alternative Xfire_field_names, which are used if the original field is empty, with the pipe symbol as separator. Example from the original XF.INI: aulast:AU,title:JTT</td>
<td>JT,volume:VLT</td>
</tr>
<tr>
<td>PatentResolver</td>
<td>URL (no parameters)</td>
<td>of the web service resolving OpenURL requests for patents.</td>
</tr>
<tr>
<td>PatentParams</td>
<td>Same as ArticleParams for patents.</td>
<td></td>
</tr>
<tr>
<td>PatentMapping</td>
<td>see ArticleMapping for more information. This parameter is used to create an OpenURL sent to the patent resolver. Example from the original XF.INI: pubno:IND.PN</td>
<td>PN,pubdate:IND.PD</td>
</tr>
<tr>
<td><strong>xf.ini keyword</strong></td>
<td><strong>Content</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Title</td>
<td></td>
<td>Do not change. This keyword defines formatting specifications for the citation grid view.</td>
</tr>
<tr>
<td>Authors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Source</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SortYear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SortSource</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WebHelpPath</td>
<td>path, URL, empty (default)</td>
<td>Location (URL) of the webhelp folder (usually same folder as xfcm.exe) if put on a web server. If this parameter is present in the XF.INI for a predefined install, the WebHelp files will not be installed during the setup</td>
</tr>
<tr>
<td>FieldHelpPath</td>
<td>path, URL, empty (default)</td>
<td>same for the fieldhelp folder. If this parameter is present in the XF.INI for a predefined install, the FieldHelp files will not be installed during the setup</td>
</tr>
<tr>
<td>LockProfiles</td>
<td></td>
<td>If set to Y, the Connection Settings menu item is disabled.</td>
</tr>
<tr>
<td>CHANGE_PREF</td>
<td>YES (default), NO</td>
<td>If set to NO, the user is not allowed to select the Query – Options – Define Preferences menu item.</td>
</tr>
<tr>
<td>AnonymousLogin</td>
<td></td>
<td>If set to NO, Commander will not try to login as anonymous if the current profile doesn’t contain a user name.</td>
</tr>
<tr>
<td>CLEAR_HISTORY</td>
<td>YES, NO, empty (default)</td>
<td>History is cleared (YES) or retained (others) after each session. Menu option is blocked except for &quot;empty&quot;.</td>
</tr>
<tr>
<td>AllowRegisteredLogin</td>
<td>YES, NO</td>
<td>YES → Registered users can login on Servers with IP-Authentication NO → Registered users cannot login on Servers with IP-Authentication</td>
</tr>
</tbody>
</table>

50
<table>
<thead>
<tr>
<th>xf.ini keyword</th>
<th>Content</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AllowRegistration</td>
<td>YES, NO</td>
<td>YES → User can register themselves on Servers with IP-Authentication.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NO → Users cannot register themselves on Servers with IP-Authentication.</td>
</tr>
</tbody>
</table>
## Parameters in section [Install]

<table>
<thead>
<tr>
<th>xf.ini keyword</th>
<th>Content</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CrossFireGroup</td>
<td>&lt;license group name&gt;</td>
<td>This will be set on installation. It can be modified using menu Query – Options - Change the Group Name</td>
</tr>
<tr>
<td>HOST</td>
<td>&lt;TCP/IP address or name&gt;</td>
<td>Default is: not set (empty). If specified, IP address specified will go into the default profile.</td>
</tr>
<tr>
<td>MDLCHIME</td>
<td>YES, NO</td>
<td>If Value is set to YES, MDLChime will be installed during a predefined setup. This entry will be deleted after setup.</td>
</tr>
<tr>
<td>GroupPath</td>
<td>&lt;directory name&gt;</td>
<td>Sets an alternative path for the Group directory (normally located in the Crossfire Commander installation directory)</td>
</tr>
</tbody>
</table>

## Parameters in (optional) section [SOCKS4]

<table>
<thead>
<tr>
<th>xf.ini keyword</th>
<th>Content</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROXY</td>
<td>SOCK4 proxy name or address</td>
<td>goes to XDK.INI when a user starts Cmdr for the first time</td>
</tr>
<tr>
<td>PROXYPORT</td>
<td>SOCK4 proxy port (usually 1080)</td>
<td>goes to XDK.INI when a user starts Cmdr for the first time</td>
</tr>
</tbody>
</table>
**XDK.INI**

The **xdk.ini** file should at least contain the following lines:

**xdk.ini example**

```ini
[Install]
RootPath=ROOT
AvailablePorts=Xfire
ProfilePath=C:\DOCUMENTS AND SETTINGS\ELSEVIER\Commander\prf
StationID=HUA8MQII2...
StationName=malbus

[User]
DefaultProfile= default.prf
UserID=<XFUser>
```

This file is generated during the Setup process and will be adapted by CrossFire Commander automatically if necessary.

**XFDH.INI**

contains all settings of the Commander,

**XFSR.INI**

contains all settings of the Structure Editor.
2.4.6.2.2 BSD Files

These files contain structure, reaction or query definitions, which can be used by the Commander. They can be created using the File Save menu item of the Commander or the export function. They can be stored anywhere, but it is recommended to keep them together, in the user's BSD folder.

2.4.6.2.3 BCCOM Files

These ASCII files are Commander command files used to perform a “Hop-Into” function. If they are opened with a double click (not edited with an ASCII/text editor) then the Commander will start automatically and will process the commands written in these files.

Note: CrossFire Commander can also be run via command line either with the BCCOM file as parameter or with an @ symbol followed by a one line command.

General remarks:

Autostart settings in Commander will have priority over profile settings used in BCCOM files.

Keywords have to be entered in capital letters. The order doesn't matter.

The file may contain any amount of line feeds.

The last character of the file must be a semicolon “;”

Syntax of BCCOM files:

“<name of the keyword>=<value>;;”

Keywords:

PROFILE (file name plus extension .prf. This keyword is optional)
DATABASE (either exact name or parts of it, e.g. BS or GM)
CONTEXT (S=substance, C=citations, R=reactions)
VIEW (ALL, ID, HITONLY, USER. This keyword is optional)
FILTER (PRODUCTS, EDUCTS, BOTH. This keyword is optional)

QUERY or

UPLOAD (list of numbers, which can be separated by any character; the target depends on the selected context; it does not check for valid RNs: if a RN is not available then the previous will be duplicated)

Query possibilities:

Mol- or RXNfile: QUERY=@<path\filename>;

Fact-query: “QUERY="<fact query like in CrossFire Commander>”

Structure/Reaction-query: “QUERY=<bsd string>”

embedded Mol- or RXNfiles

First line: all keywords as described above up to QUERY=

Second line: MOLFILE=

Third line: the first line of the Mol-/RXNfile or a blank line

Fourth line to nth line: subsequent lines of Mol-/RXNfile

Last line: single semicolon on a line of its own

Alternate (New) Syntax of BCCOM files:

XML-like tags enclose section with the following content:

<table>
<thead>
<tr>
<th>Tag</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;TASK&gt; … &lt;/TASK&gt;</td>
<td>Section for one query to be executed. A BCCOM file may contain multiple sections, which are executed consecutively. This tag pair appears on the outmost level and encloses one or more of the succeeding tags or tag pairs.</td>
</tr>
<tr>
<td>&lt;COMMENT&gt; ... &lt;/COMMENT&gt;</td>
<td>Free text</td>
</tr>
<tr>
<td>&lt;PROFILE&gt; ... &lt;/PROFILE&gt;</td>
<td>Name of the profile (*.prf file) to connect to the Xfire Server. This has no effect if Commander is already running and connected.</td>
</tr>
</tbody>
</table>
**<DATABASE> ...</DATABASE>**
Name of the database to address, or name mask like `prefix*suffix`. No case sensitivity. A database is selected as follows among the ones available on the Xfire server:

- Full name match unless it is a mask.
- For a mask, match prefix and suffix separately. If the database currently selected fulfills the match, it is addressed, otherwise the first match.
- Use the name as a prefix, i.e. compare on the shortest common length. Again, prefer to address the database currently selected, if possible.
- Match on the first two characters of the name.

**<CONTEXT> ...</CONTEXT>**
Database section where the query is to run: S for substances, R for reactions, C for citations.

**<QUERY> ...</QUERY>**
Same possibilities as for the old format (see above). For embedded molfiles, the enclosing tags should be each on a line of its own.

**<QUERIES> ...</QUERIES>**
Name of a file containing one or more queries. The result sets of each particular query are merged to give a result. 2 file types are possible:

- SD file containing Molfles.
- ASCII file where each line is either a fact query or a BSD string, both in the same format as would be allowed between the `<QUERY> ... </QUERY>` tags. Lines with different query types may be mixed.

**<QUERYOPTIONS> ...</QUERYOPTIONS>**
Keyword parameters like KEY=value; or KEY=lower_limit:upper_limit; to impose restrictions on a structure or reaction search:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NATOM</td>
<td>Number of atoms</td>
</tr>
<tr>
<td>NCOMP</td>
<td>Number of contiguous fragments</td>
</tr>
<tr>
<td>NPOSC</td>
<td>Sum of all positive charges</td>
</tr>
<tr>
<td>NNEGEC</td>
<td>Sum of all negative charges</td>
</tr>
<tr>
<td>NCHRG</td>
<td>Sum of all charges</td>
</tr>
<tr>
<td>NRADI</td>
<td>Number of all radical dots</td>
</tr>
<tr>
<td><strong>EXACT</strong></td>
<td>All bonds searched have to match exactly, i.e. with no aromaticity involved. Specify 1 to turn on.</td>
</tr>
<tr>
<td><strong>FREES</strong></td>
<td>Implicit free sites on all atoms</td>
</tr>
<tr>
<td><strong>DIFFC</strong></td>
<td>Different fragments in the query must map to different fragments in the hit</td>
</tr>
<tr>
<td><strong>IST</strong></td>
<td>An additional unstructured fragment is required (specify 1) or forbidden (specify 2)</td>
</tr>
<tr>
<td><strong>MIRROR</strong></td>
<td>Require (1) or forbid (2) that a hit is flagged as a racemic compound</td>
</tr>
<tr>
<td><strong>EXTRA</strong></td>
<td>Forbid (1) that a hit is containing rings, which are not mapped to the query</td>
</tr>
<tr>
<td><strong>STEREO</strong></td>
<td>Map stereocenters and stereobonds in the query exactly (specify 1) to the hit, or (specify 2) to either the hit or its mirror image.</td>
</tr>
<tr>
<td><strong>TAUTO</strong></td>
<td>Allow tautomeric hydrogen or charge shifts in the hit in multiple attempts to map it onto the query (specify 1)</td>
</tr>
<tr>
<td><strong>NOISO</strong></td>
<td>Forbid any isotopes in the hit (specify 1).</td>
</tr>
<tr>
<td><strong>NOMAP</strong></td>
<td>Ignore any reaction center mappings in the query (specify 1)</td>
</tr>
<tr>
<td><strong>&lt;UPLOAD&gt; ... &lt;/UPLOAD&gt;</strong></td>
<td>List of RNs (or ID numbers in the context selected) separated by any character</td>
</tr>
<tr>
<td><strong>&lt;VIEW&gt; ... &lt;/VIEW&gt;</strong></td>
<td>Same as for the old format</td>
</tr>
<tr>
<td><strong>&lt;FILTER&gt; ... &lt;/FILTER&gt;</strong></td>
<td>Same as for the old format</td>
</tr>
<tr>
<td><strong>&lt;SAVE&gt; ... &lt;/SAVE&gt;</strong></td>
<td>After query execution, the hitset is saved under the name specified here. Characters allowed are letters, digits, and underscores with a maximum length of 28.</td>
</tr>
<tr>
<td><strong>&lt;OPEN/&gt;</strong></td>
<td>When specified, a new window will be opened for the results of the query or upload</td>
</tr>
<tr>
<td><strong>&lt;EXPORT&gt; ...&lt;/EXPORT&gt;</strong></td>
<td>An export of the hits is started using the export setting specified (file name without a path with a .exs extension like e.g. export.exs). The range of hits being exported is taken from the most current values in the DisplayHits application</td>
</tr>
</tbody>
</table>

**BCCOM file example:**

```xml
<TASK>
  <DATABASE>BS</DATABASE>
  <CONTEXT>R</CONTEXT>
  <UPLOAD>8782547,8782548,8782549,8782550</UPLOAD>
  <EXPORT>Reactions_Table_AB8.exs</EXPORT>
</TASK>
<TASK>
  <DATABASE>BS</DATABASE>
  <CONTEXT>S</CONTEXT>
  <VIEW>ALL</VIEW>
  <FILTER>PRODUCTS</FILTER>
  <EXPORT>Reactions_to_Excel_AB8.exs</EXPORT>
  <QUERY>RX.ID=2661738 or RX.ID=2661739</QUERY>
</TASK>
```
2.4.6.2.4 PRF Files

These files are encrypted communication profiles and will be generated using the Commander Options/Connections menu item. They can be stored either in the group folder or in the users folder. The Commander will list only those PRF files in the appropriate dialog box, which are stored in the PRF folders.

FILE DEFAULT.PRF

This file in the user's private settings can be generated on installation with all relevant connection parameters in ASCII. The user should (formally) save the file in order to ensure it gets encrypted. This is required for a successful login at least when proxy parameters are given.

Parameter format is

key=value; [closing semicolon]

<table>
<thead>
<tr>
<th>Keyword</th>
<th>meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOST</td>
<td>Host name or address</td>
</tr>
<tr>
<td>PORT</td>
<td>Should be XFIRE8001</td>
</tr>
<tr>
<td>UID</td>
<td>Username</td>
</tr>
<tr>
<td>PWD</td>
<td>Password</td>
</tr>
<tr>
<td>USEPROXY</td>
<td>Should be YES</td>
</tr>
<tr>
<td>PROXY</td>
<td>SOCKS4 proxy name or address</td>
</tr>
<tr>
<td>PROXYPORT</td>
<td>SOCKS4 proxy port</td>
</tr>
<tr>
<td>Password</td>
<td>Locking password for encryption ➔ anybody without knowledge of this password will not be able to read or edit it</td>
</tr>
</tbody>
</table>

default.prf example::

    HOST=crossfire.elsevier.com;
    UID=xfusername;
    PWD=xfuserpassword;
    Password=lockpassword;
Inside the installation folder it is a plain text ASCII file, of course, and everybody can open it with an Editor there.

But if one tries to open the installed default.prf with CrossFire Commander then it will be encrypted automatically.
2.4.6.2.5 **DST Files**

DST files are ASCII files containing a description of the fields of a CrossFire database. They are essential for factual searching and display. If DST files are missing on the Commander side then no database will be visible in the database selection listbox. Please refer to the system administrators guide for more details on these files.

2.4.6.2.6 **EXS Files**

These files contain export settings information. They are usually stored in the export folders.

2.4.6.2.7 **UDF Files**

These files contain user view definitions and are usually stored in the view folders.

2.4.6.2.8 **HIDX Files**

HIDX files are stored in the same folder where the corresponding executables reside. They contain information where the application can find the HTML help files and the context sensitive help. The first line (usually it starts with a “0”) describes the path to the main contents help file. The other lines are context sensitive help file links. There are two HIDX files prepared for Commander:

- xfdh.hidx: help management file for CrossFire Commander
- xfsr.hidx: help management file for CrossFire Structure Editor

In addition there are database specific hidx files to manage the Fieldhelp. They are:

- xfaeco.hidx: Beilstein database
- xfgmel.hidx: Gmelin database

2.4.6.2.9 **XFQUE Files**

These files contain structure, reaction or query definitions, which can be used by the Commander. They can be created using the File Save menu item of the Commander. They can be stored anywhere, but it is recommended to keep them together, in the users queries folder.
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