



Net2Query

Manual 5.2

(April 13, 2026)

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Introduction

This manual describes the use of the NetQuery tool, which allows you to query the database of a Paxton Net2 access control system.

Its typical users would be developers, who need to take frequent peeks into the database to see if their code works or data miners, who need to extract one thing or another from the Net2 database.

The program is written in C#, on top of the Net2 SDK, which exposes the Net2 data by SDK method calls as well as standard queries on a number of database views. With a small exception, it is a 'non-destructive' program, that allows you to read but not write data.

System requirements

The program (V2.x and up) requires a recent Windows version, DotNet V4.0 and the Paxton Net2 software V5.1 or higher. Please note the Net2 API interface is available since v6.02 and the SDK interface is no longer available since v7.00.

Installation

Please download the latest version from the <https://www.intoaccess.com> website. It is a Microsoft installer file, which you can simply run after the download finishes. You will need administrator rights to install the program.

The installation options are minimal. You can define an alternative installation directory if you like.

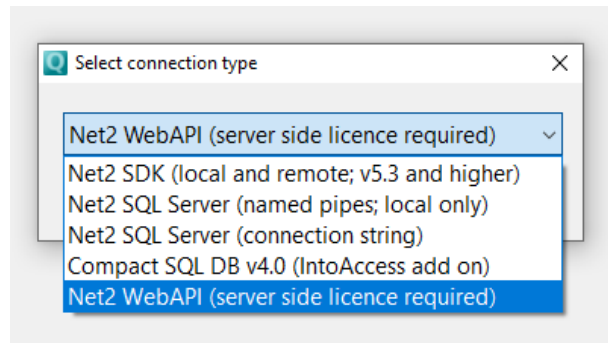
If you want make use of the **Net2 API interface**, you first need to activate it. You can use the following manual, to guide you through this (note however that the product licencing does not apply, since this is a free product):

[Manual for setting up API compatible products](#)



Executing

The program will end up in your programs menu, in the IntoAccess section. If your installation was successful, it should contain the Net2Query program shortcut which you can click to start it.



The initial popup, should look something like the print above. Before you can query anything, you first need to connect to a database and authenticate against it.

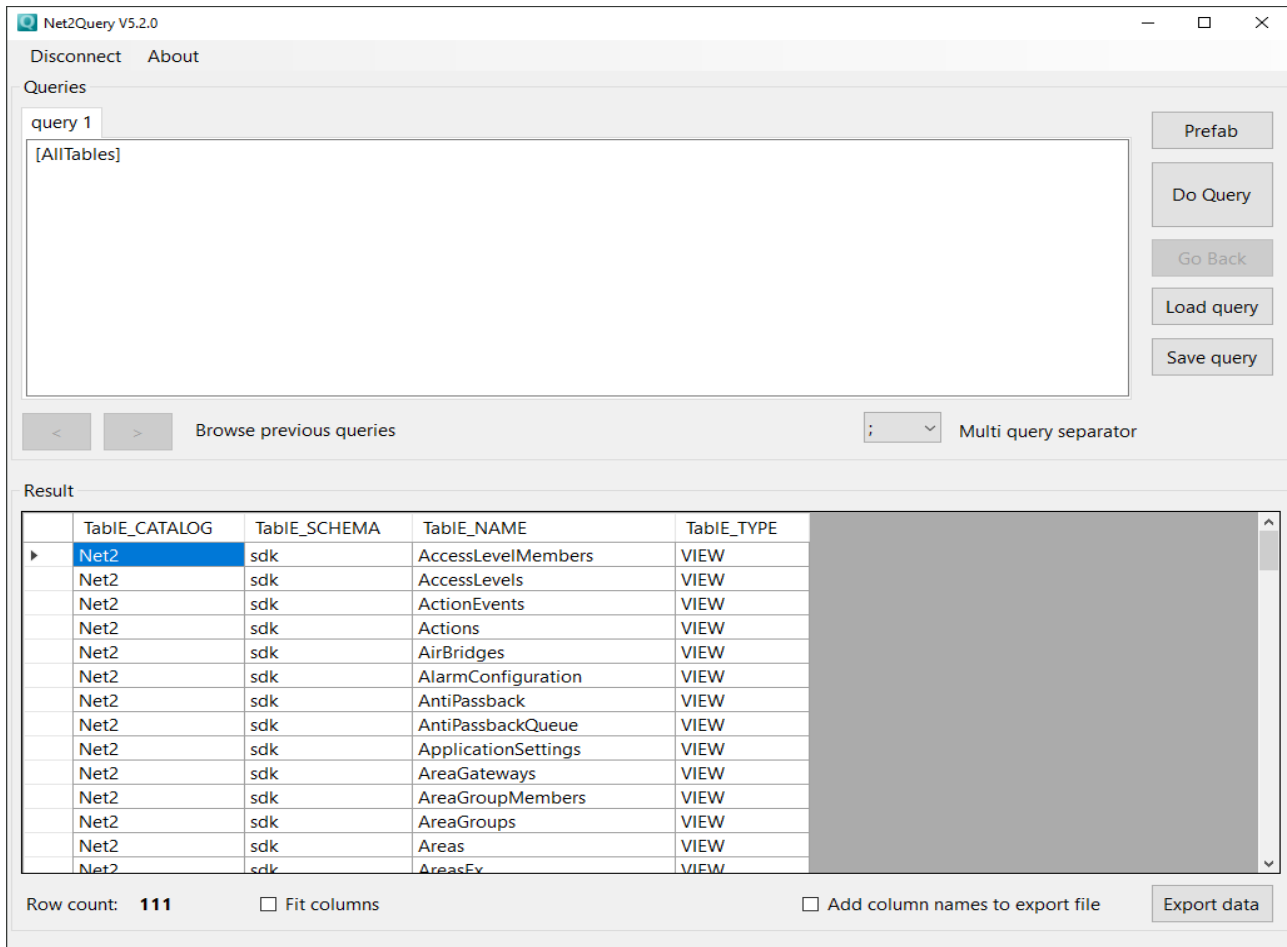
Options:

- Net2SDK: connect through the SDK. This will work both on the system where the Net2 server is installed as well as with a remote Net2 server, providing no firewalls are blocking this (tcp/ip port 8025). The default selection up to v5.0
- Net2 SQL Server (named pipes): connect straight to the Net2 database using named pipes. This will only work on the Net2 server. If you have a privileged account, it is also possible to perform update and insert queries. By default a non-priv account **sdk_user** is made available.
- Net2 SQL Server (connection string): connect straight to the Net2 or any other SQLServer database.
- Compact SQL DB: connect to a compact sql database. This is not a database type used by Net2, but sometimes by us for custom implementations.
- Net2 WebAPI: connect to the Net2 WebAPI over HTTPS (port 8443). Note that this requires the Net2 API to be enabled and the IntoAccess API licence installed. The default since v5.0

If the authentication succeeds, the query part will be enabled.

One 'prefab' query is always supplied, to display all available views/tables. If you connected using the Net2 SDK, additional prefab queries are available, which all translate to SDK method calls.





Net2Query V5.2.0

Disconnect About

Queries

query 1

[AllTables]

Prefab

Do Query

Go Back

Load query

Save query

< > Browse previous queries ; Multi query separator

Result

	Table_CATALOG	Table_SCHEMA	Table_NAME	Table_TYPE
▶	Net2	sdk	AccessLevelMembers	VIEW
	Net2	sdk	AccessLevels	VIEW
	Net2	sdk	ActionEvents	VIEW
	Net2	sdk	Actions	VIEW
	Net2	sdk	AirBridges	VIEW
	Net2	sdk	AlarmConfiguration	VIEW
	Net2	sdk	AntiPassback	VIEW
	Net2	sdk	AntiPassbackQueue	VIEW
	Net2	sdk	ApplicationSettings	VIEW
	Net2	sdk	AreaGateways	VIEW
	Net2	sdk	AreaGroupMembers	VIEW
	Net2	sdk	AreaGroups	VIEW
	Net2	sdk	Areas	VIEW
	Net2	sdk	AreasEx	VIEW

Row count: 111 Fit columns Add column names to export file Export data

The [AllTables] query will return all views that are exposed by the Net2 SDK. Notice the **Fit columns** checkbox, which will fit the displayed columns into the available space. If the number of columns is large, unchecking is usually better, since the column data is otherwise unreadable. In the unchecked state, there will be a horizontal scrollbar available.

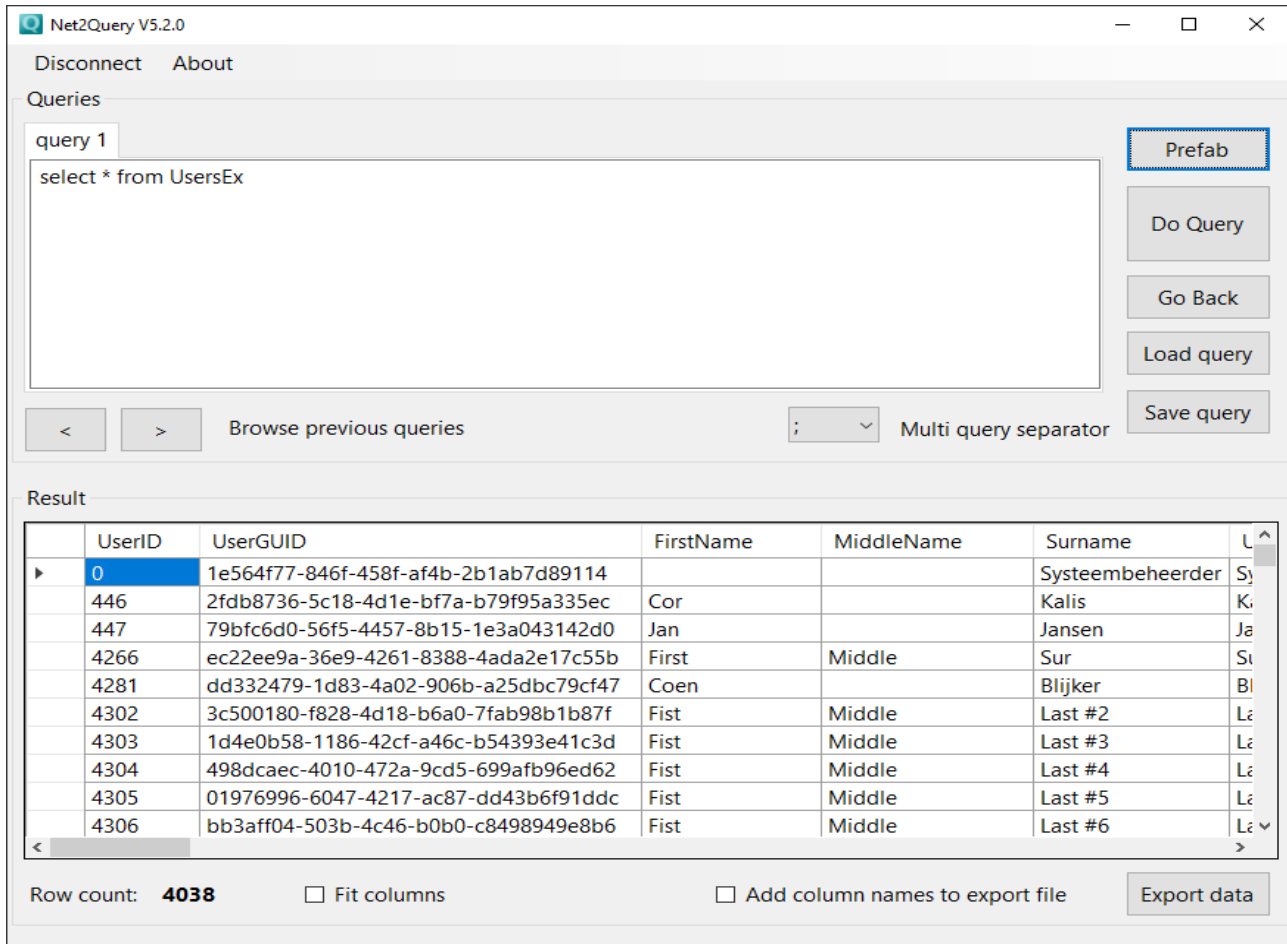
If you click onto one of the table names, the program will automatically create a generic select statement for that particular table and execute it.

If you click onto the TABLE_TYPE column of a particular table row, the query for fetching the table meta information is executed.

You can choose how to divide your available screen space, by pulling a divider between the query and the result section up or down.



Queries



The screenshot shows the Net2Query V5.2.0 application window. The interface includes a menu bar with 'Disconnect' and 'About', a 'Queries' section with a tab labeled 'query 1', and a text area containing the SQL query: `select * from UsersEx`. To the right of the query editor are buttons for 'Prefab', 'Do Query', 'Go Back', 'Load query', and 'Save query'. Below the query editor are navigation buttons for 'Browse previous queries' and a 'Multi query separator' dropdown. The 'Result' section displays a table with the following data:

	UserID	UserGUID	FirstName	MiddleName	Surname	
▶	0	1e564f77-846f-458f-af4b-2b1ab7d89114			Systeembeheerder	Sy
	446	2fdb8736-5c18-4d1e-bf7a-b79f95a335ec	Cor		Kalis	Ka
	447	79bfc6d0-56f5-4457-8b15-1e3a043142d0	Jan		Jansen	Ja
	4266	ec22ee9a-36e9-4261-8388-4ada2e17c55b	First	Middle	Sur	Su
	4281	dd332479-1d83-4a02-906b-a25dbc79cf47	Coen		Blijker	Bl
	4302	3c500180-f828-4d18-b6a0-7fab98b1b87f	Fist	Middle	Last #2	La
	4303	1d4e0b58-1186-42cf-a46c-b54393e41c3d	Fist	Middle	Last #3	La
	4304	498dcaec-4010-472a-9cd5-699afb96ed62	Fist	Middle	Last #4	La
	4305	01976996-6047-4217-ac87-dd43b6f91ddc	Fist	Middle	Last #5	La
	4306	bb3aff04-503b-4c46-b0b0-c8498949e8b6	Fist	Middle	Last #6	La

At the bottom of the window, there is a 'Row count: 4038' label, checkboxes for 'Fit columns' and 'Add column names to export file', and an 'Export data' button.

By right clicking on an existing query tab, a menu is displayed which allows you to add or remove query tabs.

The arrow buttons at the bottom of the query panel, allow you to browse formerly executed queries, without actually executing them again. (unlike the **Go back** button)

Queries can be loaded and saved from/to file by pressing the appropriately named buttons in the query section. Pressing such a button will result in a file dialog for either opening or saving a query file, which typically has the **.sql** extension.

You can recall and execute earlier (successful) queries, by pressing the **Go Back** button



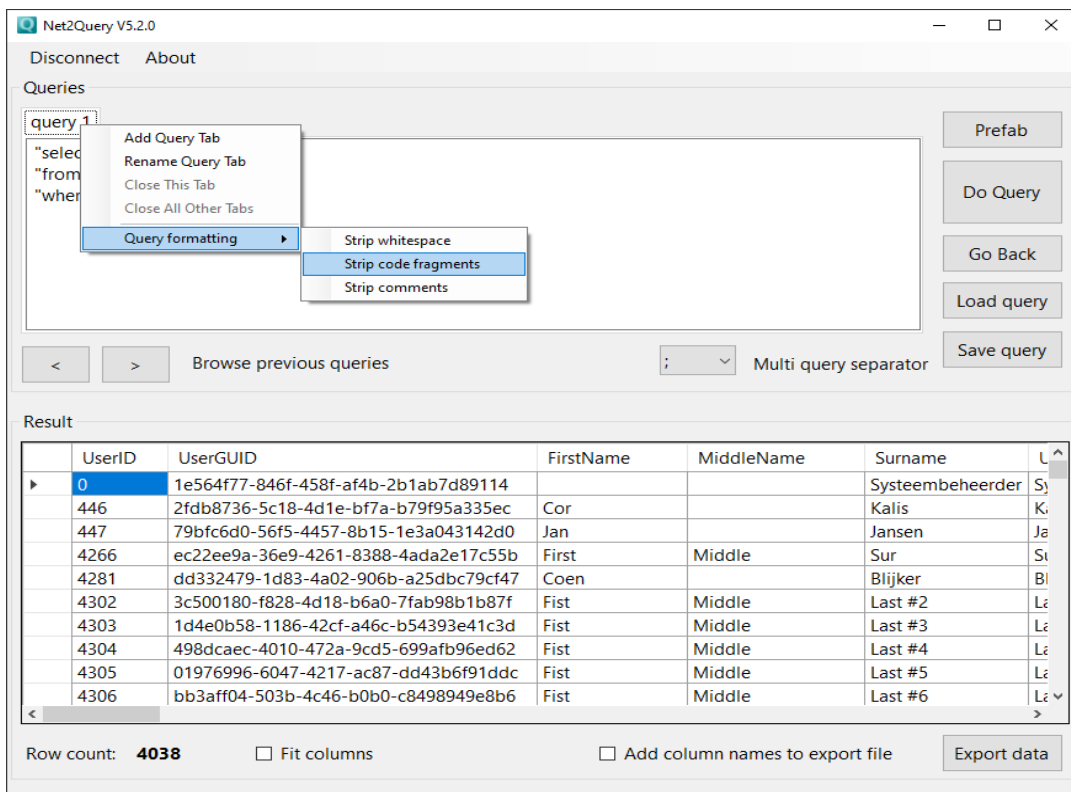
Exporting results

The query results can be exported to a CSV file by performing the query and then pressing the **Export Data** button. The following column separators are available:

Comma, Semicolon, Pipe and Tab

Query stripping

For those cases where you copy & paste queries from elsewhere (e.g. code), you can have the query stripped of any undesired whitespace or code fragments, as the sample below displays:



The screenshot shows the Net2Query V5.2.0 application window. A context menu is open over a query tab, with the 'Query formatting' option selected. This has opened a sub-menu with three options: 'Strip whitespace', 'Strip code fragments', and 'Strip comments'. The 'Strip code fragments' option is currently selected. Below the menu, the 'Result' section displays a table of user data.

	UserID	UserGUID	FirstName	MiddleName	Surname	
▶	0	1e564f77-846f-458f-af4b-2b1ab7d89114			Systeembeheerder	Sy
	446	2fdb8736-5c18-4d1e-bf7a-b79f95a335ec	Cor		Kalis	K.
	447	79bfc6d0-56f5-4457-8b15-1e3a043142d0	Jan		Jansen	Ja
	4266	ec22ee9a-36e9-4261-8388-4ada2e17c55b	First	Middle	Sur	St
	4281	dd332479-1d83-4a02-906b-a25dbc79cf47	Coen		Blijker	Bl
	4302	3c500180-f828-4d18-b6a0-7fab98b1b87f	Fist	Middle	Last #2	Lc
	4303	1d4e0b58-1186-42cf-a46c-b54393e41c3d	Fist	Middle	Last #3	Lc
	4304	498dcaec-4010-472a-9cd5-699afb96ed62	Fist	Middle	Last #4	Lc
	4305	01976996-6047-4217-ac87-dd43b6f91ddc	Fist	Middle	Last #5	Lc
	4306	bb3aff04-503b-4c46-b0b0-c8498949e8b6	Fist	Middle	Last #6	Lc

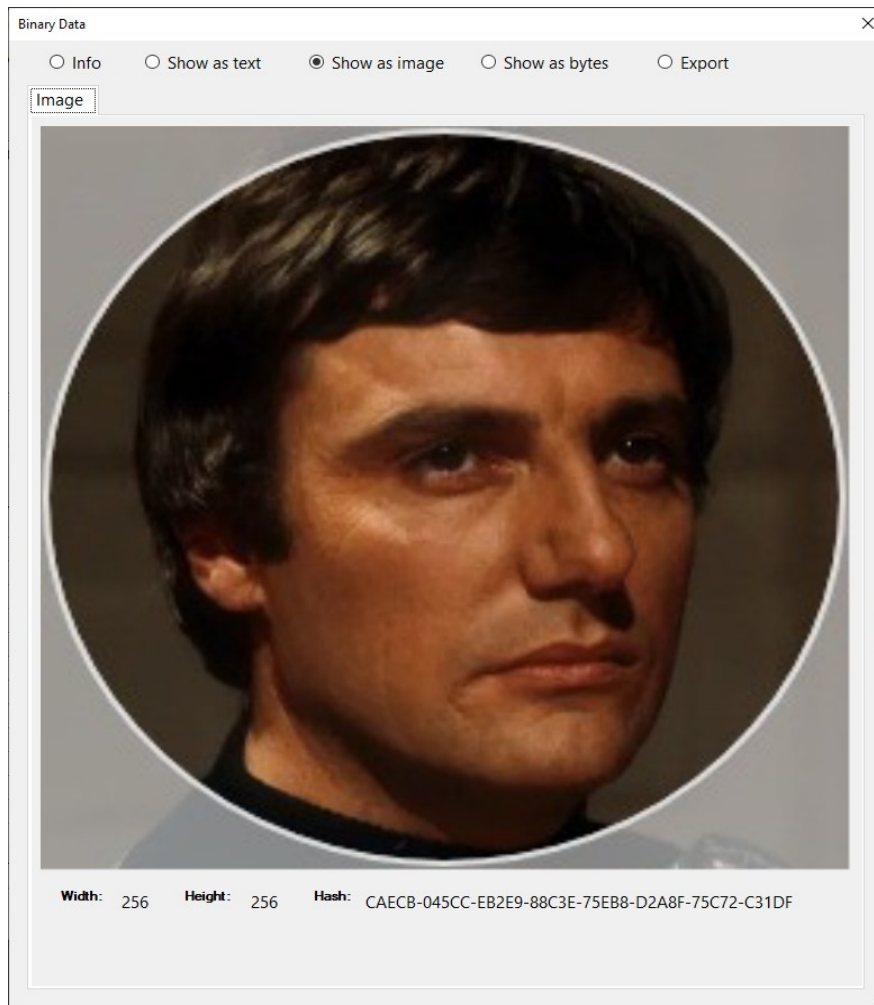
Row count: **4038** Fit columns Add column names to export file **Export data**



Binary data

If you click on a cell containing binary data, a pop-screen appears that allows you to select the proper presentation. If required, you can also export the contents to a file.

Please note that when using the API, the data is provided as BASE64 string and the grid view stops showing that above certain length.



Controlling the application by means of command line parameters

The application can be controlled by means of the following command line parameters ^{(*)1}:

Long version	Short version	Value	Default value
/queryFile	/qf	The file containing the quer(y)(ies) to be executed. ^{(*)2}	
/exportFile	/ef	The name of the export file. This file will be overwritten if it already exists.	
/operatorName	/on	The name of the operator used to log on to the Net2 server	System engineer
/password	/pw	The password of the operator.	net2
/net2Host	/nh	The network name or IP address of the machine the Paxton server is running on.	localhost
/closeOnSuccess	/cs	Close the application immediately when the query is successfully performed.	false ^{(*)3}
/separatorChar	/sc	The separator char to be used in the export file.	','
/addHeaderLine	/ah	Add the column names to the first line of the output file.	true ^{(*)3}
/connectionType	/ct	Set the required connection type. Supported are 'API' and 'SDK'.	'API'

^{(*)1} Please note that all parameters and values are case sensitive.

^{(*)2} The query file may contain multiple queries. The results of this queries will be appended to the same export file. Multiple queries must be separated by either the text 'GO' or a semi colon

^{(*)3} The following values will be considered as a 'true' value: "y, yes, 1, t, true, j, ja", all other values are considered as a 'false'.



Examples:

```
"C:\Program Files (x86)\IntoAccess\Net2Query\Net2Query.exe"  
/qf "C:\Net2Query\Query.sql"      Read the query from file: 'c:\Net2Query\Query.sql',  
/ef "C:\Net2Query\Result.csv"     Write the result in file : 'c:\Net2Query\Result.csv',  
/on "System engineer"             Use the 'System engineer' credentials to log in,  
/pw net2                          Use 'net2' as password,  
/cs t                             Close the application after the export file is written,  
/nh "192.168.1.11"               IP Address to connect to,  
/ah f                             Don't add a header line to the export file,  
/sc ";"                           Use a semi colon as separator in the export file.
```

Just supply the following commandline parameters if you want the application to automatically log on to net2:

```
/operatorName, /password and (optional) /net2Host
```

The application will log the cause of the error, in case something goes wrong in the applications log file. This file can be found in the folder: C:\intoaccess\logging\Net2Query\



Uninstalling

To uninstall the program, go to the windows software configuration screen, select the Net2Query entry and press the Uninstall/Remove button.



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Version 5.2

