

Deutsche Bank

Autobahn 

# Autobahn Toolbar

## Installation Guide

<http://autobahn.db.com>



# Contents

Technology overview.....	2
PC specification requirements .....	3
Installation process overview.....	4
Client connectivity requirements .....	6
Autobahn Toolbar and Autobahn services (all clients) .....	6
Autobahn Fixed Income .....	7
Autobahn Foreign Exchange.....	8
Autobahn Futures & Options .....	8
App Locker and other Application Control software .....	10
VeriSign certificates.....	11

## Technology overview

The Autobahn Toolbar communicates using standard secure HTTPS protocol and does not usually require any specific IT setup on firewalls, proxy gateways or network infrastructure.

The installer for Autobahn Toolbar is a standard Windows installer build using NSIS technology. Microsoft ClickOnce technology is used for initial download by default with an option to switch to Oracle's Java Web Start or direct download (at the client's preference). In general the install does not require admin access. Installation is carried out in the user profile folder; shortcuts to Autobahn Toolbar are created in the user's Start menu only. No other changes are made to the system by the installer.

On each launch, the application will first check if any updates are available to the Autobahn suite. If updates are available, they will be automatically installed. No manual upgrade deployments will be required after the initial installation.

Auto-update capability ensures maximum security and guarantees clients are using the latest version of Autobahn. All Autobahn executable files are signed with a digital certificate under the name of Deutsche Bank AG. If any technology similar to App Locker is used, Autobahn will require an exception rule to be set up in the client's system policies allowing execution of any executables signed by Deutsche Bank AG.

After checking for updates, a login prompt will appear which will validate the user's credentials. After successful login, the main application user interface will appear, providing access to the full suite of Autobahn applications.

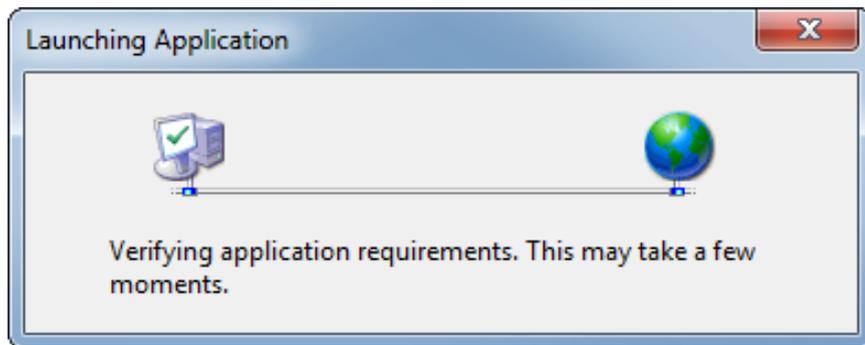
# PC specification requirements

	Minimum	Recommended
<b>Hardware</b>	Pentium 4 1 GHz 1 GB RAM 1 GB disk space	Pentium 4 2 GHz 2 GB RAM 1 GB disk space
<b>OS</b>	Windows 7 Internet Explorer 8 .NET 4.5 or higher	Windows 7 Internet Explorer 10+ .NET 4.5.2 or higher
<b>Screen Resolution</b>	1024 by 768 pixels	1280 by 1024 pixels
<b>Network (**)</b>	512 KBit/sec	1 MBit/sec
<b>Connectivity</b>	Internet connection to Autobahn servers - directly, via firewall or proxy. See Appendix for details.	
<b>Auto-update</b>	If any technology similar to App Locker is used, Autobahn will require an exception rule to be set up in client's system policies allowing execution of any executables signed by Deutsche Bank AG.	

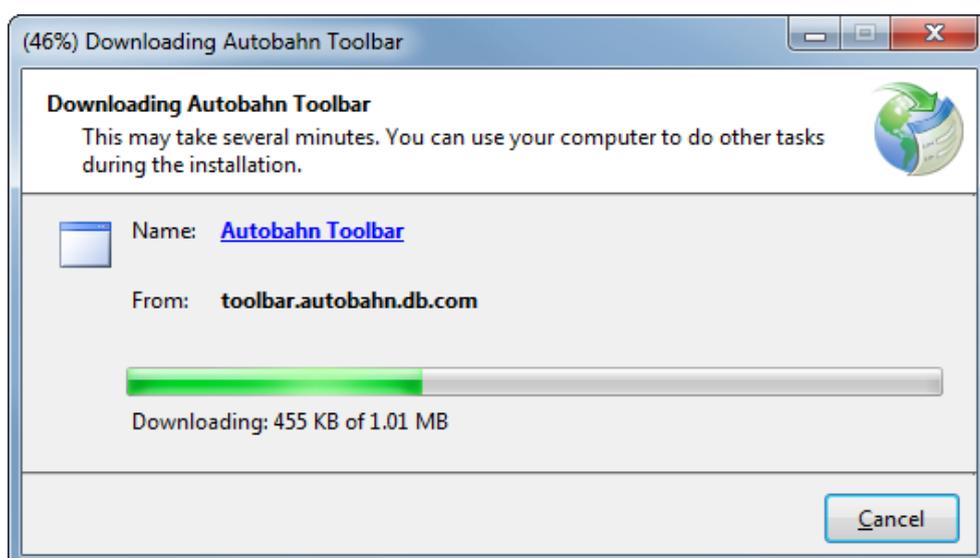
\*\* Recommended bandwidth for Toolbar alone - you may need wider channel if you have other applications that use network heavily.

# Installation process overview

1. After clicking on Install button, download and installation begins.



2. It may take few seconds for installation to proceed to the next step. Please click "Run" when prompted.



3. Once installation has completed, Autobahn Toolbar will try to connect to the server. If no connectivity is available, an error message will be shown and the proxy settings configuration dialogue box will open.



4. Autobahn login dialogue displayed.



5. Installation completed, Autobahn Toolbar started.



# Client connectivity requirements

The Autobahn Toolbar will try to use Window's global proxy settings by default. If this fails, a proxy configuration dialogue will be shown. Proxy settings can be changed during initial log in or at any later point from Autobahn Toolbar UI.

## Autobahn Toolbar and Autobahn Platform Services (all clients)

Please allow access via proxy / firewall to the following hostnames and IPs on port 443 (if applicable for your organisation).

Autobahn services are hosted on different IPs within 160.83.x.x AND 202.21.x.x ranges, if your policy doesn't allow subnet ranges, please use the following individual IPs.

Note: Autobahn requires connectivity to all locations regardless of client's primary location to provide failover / DR (disaster recovery) capabilities.

URL	Prod IP
https://autobahn.db.com	160.83.59.82, 160.83.43.82
https://toolbar-autobahn.egslb.db.com https://toolbar.autobahn.db.com (CNAME for above)	Load balancer for any of the 3 below
https://www.toolbar.autobahn.db.com	160.83.59.133, 160.83.43.82
https://www.toolbar-us.autobahn.db.com	160.83.79.99, 160.83.88.99
https://www.toolbar-sg.autobahn.db.com	202.21.225.37, 202.21.221.37
https://search.autobahn.db.com https://search.uk.autobahn.db.com (CNAME for above)	160.83.59.118, 160.83.43.118
https://autobahnequity.db.com	160.83.59.64, 160.83.43.64
https://wa.gto.db.com	160.83.79.97, 160.83.88.97
https://app-uk.autobahn.db.com	160.83.59.67, 160.83.43.67
https://app-sg.autobahn.db.com	202.21.225.47, 202.21.221.47
https://app-us.autobahn.db.com	160.83.79.93, 160.83.88.93
https://auth-dbdirect.gtb.db.com	160.83.47.196
https://fsfprod.egslb.db.com	160.83.32.196
https://login.isso.db.com	160.83.79.14, 160.83.88.14
https://login-internet-isso.egslb.db.com	160.83.59.68, 160.83.43.68
https://services.websso.db.com	
https://services-sg.websso.db.com	202.21.225.41, 202.21.221.41
https://uk.abid-extpop1a1.gm.db.com	160.83.56.7
https://uk.abid-extpop1b1.gm.db.com	160.83.33.7

## Autobahn Fixed Income

Please allow access to port 443 on the following:

URL	IP
<a href="https://www.autobahnfi.db.com">https://www.autobahnfi.db.com</a>	160.83.45.9
<a href="https://www.autobahnfidr.db.com">https://www.autobahnfidr.db.com</a>	160.83.62.68
<a href="https://www.autobahnfi.us.db.com">https://www.autobahnfi.us.db.com</a>	160.83.76.9
<a href="https://www.autobahnfi.ap.db.com">https://www.autobahnfi.ap.db.com</a>	202.21.224.162
<a href="https://data.autobahnfi.db.com">https://data.autobahnfi.db.com</a>	160.83.45.10
<a href="https://data.autobahnfidr.db.com">https://data.autobahnfidr.db.com</a>	160.83.62.69
<a href="https://data-autobahnfi.us.db.com">https://data-autobahnfi.us.db.com</a>	160.83.76.10
<a href="https://data.autobahnfi.ap.db.com">https://data.autobahnfi.ap.db.com</a>	202.21.224.163

## Autobahn Foreign Exchange

Full list of URLs and IP addresses for Autobahn Foreign Exchange application are available below:

### UK external connectivity

Hostname	IP	Port
uk.abfx-extpop1a1.gm.db.com	160.83.56.1	443
uk.abfx-extpop1a2.gm.db.com	160.83.56.2	443
uk.abfx-extpop1a3.gm.db.com	160.83.56.3	443
uk.abfx-extpop1a4.gm.db.com	160.83.56.4	443
uk.abfx-extpop1b1.gm.db.com	160.83.33.1	443
uk.abfx-extpop1b2.gm.db.com	160.83.33.2	443
uk.abfx-extpop1b3.gm.db.com	160.83.33.3	443
uk.abfx-extpop1b4.gm.db.com	160.83.33.4	443

### Singapore external connectivity

Hostname	IP	Port
sg.abfx-extpop1a1.gm.db.com	202.21.226.225	443
sg.abfx-extpop1a2.gm.db.com	202.21.226.226	443
sg.abfx-extpop1a3.gm.db.com	202.21.226.227	443
sg.abfx-extpop1a4.gm.db.com	202.21.226.228	443
sg.abfx-extpop1b1.gm.db.com	202.21.222.225	443
sg.abfx-extpop1b2.gm.db.com	202.21.222.226	443
sg.abfx-extpop1b3.gm.db.com	202.21.222.227	443
sg.abfx-extpop1b4.gm.db.com	202.21.222.228	443

### United States external connectivity

Hostname	IP	Port
us.abfx-extpop1a1.gm.db.com	160.83.84.33	443
us.abfx-extpop1a2.gm.db.com	160.83.84.34	443
us.abfx-extpop1a3.gm.db.com	160.83.84.35	443
us.abfx-extpop1a4.gm.db.com	160.83.84.36	443
us.abfx-extpop1b1.gm.db.com	160.83.91.119	443
us.abfx-extpop1b2.gm.db.com	160.83.91.120	443
us.abfx-extpop1b3.gm.db.com	160.83.91.121	443
us.abfx-extpop1b4.gm.db.com	160.83.91.116	443

### Radianz external connectivity

Hostname	IP	Ports
uk.abfx-radpop1a1.gm.db.com	75.96.75.36	9001, 9005, 9009, 9013
uk.abfx-radpop1b1.gm.db.com	75.96.73.215	9001, 9005, 9009, 9013

Please ensure that websocket transport protocol is allowed in corporate network and will not be cut off by antivirus software, firewall or proxy server ([websocket spec](#))

## Autobahn Futures & Options

### Internet Access

Protocols	Server Name	IP Addresses	Ports	Streamed Pricing Ports
HTTP	autobahnfo.db.com	160.83.58.130, 160.83.47.16, 202.21.226.55, 202.21.220.176, 160.83.78.115, 160.83.91.241	80	9001-9005
HTTP	autobahnfo-uk.db.com	160.83.58.130, 160.83.47.16	80	9001-9005
HTTP, HTTPS	secure.autobahnfo-uk.db.com	160.83.58.130	80, 443	9001-9005
HTTP, HTTPS	login1.cdc.autobahnfo.db.com	160.83.47.16	80, 443	9001-9005
HTTP	autobahnfo-sg.db.com	202.21.226.55, 202.21.220.176	80	9001-9005
HTTP, HTTPS	secure.autobahnfo-sg.db.com	202.21.226.55	80, 443	9001-9005
HTTP, HTTPS	login2.kch.autobahnfo.db.com	202.21.224.176	80, 443	9001-9005
HTTP, HTTPS	login1.cth.autobahnfo.db.com	202.21.220.176	80, 443	9001-9005
HTTP	autobahnfo-us.db.com	160.83.78.115, 160.83.91.241	80	9001-9005
HTTP, HTTPS	secure.autobahnfo-us.db.com	160.83.78.115	80, 443	9001-9005
HTTP, HTTPS	login1.gth.autobahnfo.db.com	160.83.75.113	80, 443	9001-9005
HTTP, HTTPS	login2.hbr.autobahnfo.db.com	160.83.91.241	80, 443	9001-9005

### Radianz Access

Region	Protocol	Server Name	IP Address	Ports
UK/London	HTTP	autobahnfo-uk.db.com	75.124.144.199	80
UK/London	HTTP, HTTPS	secure.autobahnfo-uk.db.com	75.124.144.199	80, 443
UK/London	HTTP, HTTPS	login1.cdc.autobahnfo.dbvpn.com	75.96.74.200	80, 443
JP/Tokyo	HTTP	autobahnfo-jp.db.com	75.124.42.222	80
JP/Tokyo	HTTP, HTTPS	secure.autobahnfo-jp.db.com	75.124.42.222	80, 443
AU/Sydney	HTTP	autobahnfo-au.db.com	206.190.107.223	80
AU/Sydney	HTTP, HTTPS	secure.autobahnfo-au.db.com	206.190.107.223	80, 443

# App Locker and other Application Control software

If you are using App Locker or similar Application Control software, you will be required to add an exception for Autobahn executables based on Deutsche Bank AG code signing certificates (recommended) or root Autobahn folder.

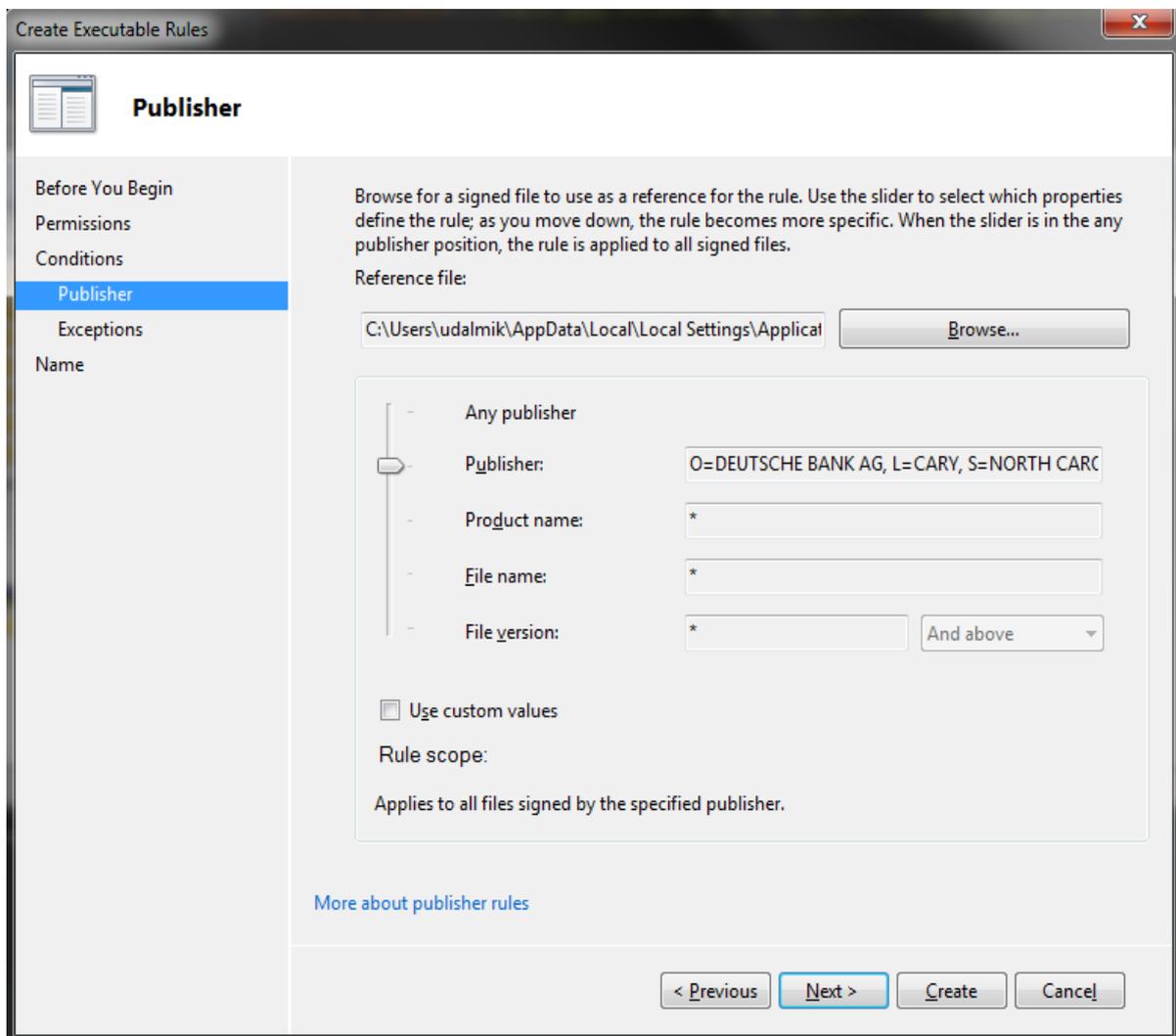
1. Start **secpol.msc** (**Start -> Control Panel -> System and Security -> Administrative Tools -> Local Security Policy**).
2. Create new App Locker Rule: **Application Control Policies -> AppLocker -> Executable Rules -> Create New Rule**.
3. In **Create Executable Rules** menu choose **Publisher** option.
4. (Optionally) Browse to Autobahn Toolbar executable file to use as a reference (%USERPROFILE%\Local Settings\Application Data\Deutsche Bank\Autobahn\Current\AutobahnToolbar.exe).
5. Raise **Rule Scope** level to **Publisher** and click **Next**.
6. You will be asked to Create default Rules (if not created before), please create them.

You would need to add 3 exception rules to cover each of the following publishers (App Locker doesn't support wildcards within "Publisher" property):

O=DEUTSCHE BANK AG, L=LONDON, S=LONDON, C=GB

O=DEUTSCHE BANK AG, L=CARY, S=NORTH CAROLINA, C=US

O=DEUTSCHE BANK AG, L=FRANKFURT AM MAIN, S=HESEN, C=DE



# VeriSign certificates

The Autobahn Toolbar requires host operating system to trust the following Root CA - "DigiCert High Assurance EV Root CA" for client-server communication.

All Autobahn executables are signed by a certificate issued to "Deutsche Bank AG". Root CA is "VeriSign Universal Root Certification Authority".

Note that some apps may require access to VeriSign Certificate Revocation List

URL: <http://rb.symcb.com/rb.crl>



## Contact:

For technical assistance, please contact the Autobahn App Market and Toolbar Support team:

Email: [autobahn.support@db.com](mailto:autobahn.support@db.com)

<https://autobahn.db.com/microSite/html/contacts.html>

### Marketing material

This document is intended for discussion purposes only and does not create any legally binding obligations on the part of Deutsche Bank AG and/or its affiliates ("DB"). Without limitation, this document does not constitute an offer, an invitation to offer or a recommendation to enter into any transaction. When making an investment decision, you should rely solely on the final documentation relating to the transaction and not the summary contained herein. DB is not acting as your financial adviser or in any other fiduciary capacity with respect to this proposed transaction. The transaction(s) or products(s) mentioned herein may not be appropriate for all investors and before entering into any transaction you should take steps to ensure that you fully understand the transaction and have made an independent assessment of the appropriateness of the transaction in the light of your own objectives and circumstances, including the possible risks and benefits of entering into such transaction. For general information regarding the nature and risks of the proposed transaction and types of financial instruments please go to [www.globalmarkets.db.com/riskdisclosures](http://www.globalmarkets.db.com/riskdisclosures). You should also consider seeking advice from your own advisers in making this assessment. If you decide to enter into a transaction with DB, you do so in reliance on your own judgement. The information contained in this document is based on material we believe to be reliable; however, we do not represent that it is accurate, current, complete, or error free. Assumptions, estimates and opinions contained in this document constitute our judgement as of the date of the document and are subject to change without notice. Any projections are based on a number of assumptions as to market conditions and there can be no guarantee that any projected results will be achieved. Past performance is not a guarantee of future results. This material was prepared by a Sales or Trading function within DB, and was not produced, reviewed or edited by the Research Department. Any opinions expressed herein may differ from the opinions expressed by other DB departments including the Research Department. Sales and Trading functions are subject to additional potential conflicts of interest which the Research Department does not face. DB may engage in transactions in a manner inconsistent with the views discussed herein. DB trades or may trade as principal in the instruments (or related derivatives), and may have proprietary positions in the instruments (or related derivatives) discussed herein. DB may make a market in the instruments (or related derivatives) discussed herein. Sales and Trading personnel are compensated in part based on the volume of transactions effected by them. The distribution of this document and availability of these products and services in certain jurisdictions may be restricted by law. You may not distribute this document, in whole or in part, without our express written permission. DB SPECIFICALLY DISCLAIMS ALL LIABILITY FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL OR OTHER LOSSES OR DAMAGES INCLUDING LOSS OF PROFITS INCURRED BY YOU OR ANY THIRD PARTY THAT MAY ARISE FROM ANY RELIANCE ON THIS DOCUMENT OR FOR THE RELIABILITY, ACCURACY, COMPLETENESS OR TIMELINESS THEREOF. DB is authorised under German Banking Law (competent authority: BaFin – Federal Financial Supervising Authority) and regulated by the Financial Services Authority for the conduct of UK business.