THOMSON REUTERS SPREADSHEET LINK FOR INVESTMENT BANKING

INSTALLATION GUIDE FOR VERSION 2.3

Thomson Reuters Spreadsheet Link delivers an extensive Thomson Reuters global database of information through a user-friendly Microsoft Excel interface. It allows you to combine historical and real-time data with your own watchlist/portfolio holdings information, target and assess comparable companies, spot trends, create sophisticated financial models, and streamline your workflows directly in Excel.

With Thomson Reuters Spreadsheet Link, you can:

• create a report with customized equity tables, ownership data, Reuters As Reported financial data, and charts.
• identify potential investment opportunities by screening for companies.
• create a ranking for companies, using multiple data items or expressions as factors.
• incorporate custom expressions into your analytical models and reports.
• view Thomson Reuters Spreadsheet Link’s templates or create and upload your own.
• manage your templates, custom watch lists, portfolios, expressions, screens, and aggregates.
• view the constituents of custom portfolios, watch lists, and benchmark indexes.
• upload your company’s proprietary or custom data, including text, calculations, or other values.
• build custom aggregates to track groups of securities over time and compare individual securities to custom peer group averages.
• look up tickers and other company identifiers, indexes, exchange rates, and data items, including real-time, fundamental, estimate, and pricing data.
• click Reuters financials or Worldscope data item values to open and view their original source documents so that you can validate or audit the items.
• set refresh options, user options, and global defaults.

Minimum Hardware Requirements
• 1GB available hard disk space
• 100MB of disk space in the Temporary Internet Files folder
• Pentium 4, 2.8 GHz
• 1 GB RAM (2 GB recommended)
Thomson Reuters recommends dual-core processors and additional memory to optimize performance.

System Requirements

Minimum Hardware Requirements

System Requirements

TN-484
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Software: Windows Vista Users

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Windows Vista or Windows Vista 64-Bit</th>
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<tbody>
<tr>
<td><strong>Compatible Microsoft Office Versions</strong></td>
<td></td>
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<tr>
<td>• Microsoft Excel 2010 32-bit or 64-bit</td>
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<td>• Microsoft Excel 2007</td>
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<tr>
<td>• Microsoft Excel 2003 with Office 2003 Update KB907417</td>
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<tr>
<td>Internet Explorer</td>
<td>Version 6.0 or higher with JavaScript enabled</td>
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<tr>
<td><strong>Other Requirements</strong></td>
<td>.NET Framework 3.5 with Service Pack 1</td>
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<td></td>
<td>For Vista, you must have updates KB967190 and KB959209</td>
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</table>

Software: Windows XP Users

<table>
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<td></td>
<td>Installed and enabled. For XP, you must have update KB959209</td>
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</tbody>
</table>

5. To install Thomson Reuters Spreadsheet Link on Windows Vista or Windows 7, click **Save**, save the TRSL.exe link to your preferred location, right-click the saved link, click **Run as Administrator**, and follow the prompts.

Set Up your Account

1. Open Microsoft Excel.
2. On the Thomson Reuters menu (Excel 2003), click **Spreadsheet Link Options**. On the Thomson Reuters tab (Excel 2007 or 2010), click **Options** in the **Configure** group.
3. In the **Connection** tab under **Credentials for Authentication**, type your **user name and password**.
4. In the Server box, type T1excel.tqa.thomsonone.com.
5. To receive automatic upgrade notifications, in the **Updates** tab, select **Notify if upgrade is available** under **Updates Pertaining to Version**.
6. Click **OK**.

Upgrade

If you chose to receive automatic upgrade notifications when you set up the account (see "Set Up your Account" on page 2), an upgrade notification appears when you access Thomson Reuters Spreadsheet Link when an upgrade is available. When you access Thomson Reuters Spreadsheet Link and an upgrade notification appears, click **Upgrade Now**, and follow the prompts.

Uninstall

Uninstall Thomson Reuters Spreadsheet Link from Windows Vista or Windows 7

1. Click **Start**, click **Control Panel**, click **Programs**, and then click **Programs and Features**.
2. Select **Thomson Reuters Spreadsheet Link**, and click **Uninstall**.

Install

If you have entitlements for Linking with Thomson Reuters Spreadsheet Link, you must install on Windows Vista or Windows 7, not Windows XP.

**To install Thomson Reuters Spreadsheet Link**

2. Type the login name and password provided for accessing Thomson Reuters Spreadsheet Link.
3. Click **Download Now**.
4. To install Thomson Reuters Spreadsheet Link on Windows XP, click **Run**, and follow the prompts.
Uninstall Thomson Reuters Spreadsheet Link from Windows XP

1. From My Computer, click Control Panel and then Add or Remove Programs.
2. Select Thomson Reuters Spreadsheet Link, and click Remove.

Post-installation Checks and Troubleshooting

Click Thru Compatibility

Click Thru allows you to examine underlying calculations and view specific data in original, company-created source documents. It also provides company-specified details on all standardized and as reported data items for Reuters Financials, including derived data items.

Depending on your versions of Internet Explorer and Adobe Reader, the Click Thru might link directly to the underlying page instead of displaying the highlight within the source document.

The following combinations of Adobe Reader and Internet Explorer do not display the highlight and link directly to the underlying page.

<table>
<thead>
<tr>
<th>Version of Adobe Reader</th>
<th>Version of Internet Explorer</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>6 or 7</td>
</tr>
<tr>
<td>7.x</td>
<td>6</td>
</tr>
<tr>
<td>7.x</td>
<td>7, other than 7.0.5730.11 or 7.0.9</td>
</tr>
</tbody>
</table>

Later versions of Adobe Reader and later versions of Internet Explorer have no known issues with Click Thru.

Real-time Access to the Thomson ONE and Thomsonone.com Versions of Thomson Reuters Spreadsheet Link

Real-time data connection (RDC) provides real-time access in Thomson ONE. If the user subscribes to real-time data in the desktop version of Thomson ONE, RDC also provides real-time access in Thomson Reuters Spreadsheet Link. The requirements for RDC network connectivity are the same as those for Thomson Reuters Spreadsheet Link. For information about other Thomson ONE requirements, the latest Thomson ONE Systems Requirements document is available on ONEnet in Thomson ONE or from a Thomson Reuters sales representative or Technical Account Manager.

To verify real-time capability if the machine on which you are installing Thomson Reuters Spreadsheet Link does not have the Thomson ONE desktop application, go to https://streaming.thomsonone.com. Confirm that you see the test page, and close the browser window.

Verify Connectivity

If you are unable to retrieve data or run into other issues after you install Thomson Reuters Spreadsheet Link, verify connectivity with these links before you contact Consulting Services at Thomson Reuters.

1. To verify connectivity for Thomson Reuters Spreadsheet Link, go to http://t1excel.tqa.thomsonone.com/WebQAService/WQASession.asmx, and confirm that you link to the WQASession page. Close the page.
2. To verify connectivity for Click Thru for Worldscope content, go to http://financials.services.thomsonone.com/FundamentalsWebServices/FundamentalsClickThru.asmx, and confirm that you link to the FundamentalsClickThru page.
3. To verify connectivity for Click Thru for Reuters Financials content, go to http://thomsonone.knowledge.reuters.com, and confirm that you link to a logon page. Close the page without typing a username or password.
4. To verify connectivity for SECAPI, go to http://sec.api.thomsonib.com/servlets/RetrieveFiling?VERSION=N=4.0, and confirm that you link to a logon prompt. Close the prompt without typing a user name or password.
5. To verify your security token service, go to https://security.services.thomsonone.com/STS/2011-01-01/SamlTokenIssuer.ashx. Confirm that you see the XML code, and close the browser window.
6. To verify your system’s access to the certificate server, go to http://crl.geotrust.com/crls/secureca.crl. If prompted, click Open. Confirm that you see the Certificate Revocation List dialog, and close the dialog.
7. To verify connectivity for Proprietary Data Manager, go to https://topas.vestek.com, and confirm that you link to a logon page. Close the page without typing a username or password.

Thomson Reuters Spreadsheet Link Consulting Services and Support

As a Thomson Reuters Spreadsheet Link subscriber, you have access to the Thomson Reuters Business Services Consulting team. Consultants can help you create unique, high-end proprietary models designed specifically for your investment approach. Additionally, consultants can provide you with comprehensive on-site training and superior ongoing support.

For support issues, contact the Business Services Consulting team at trconsulting@thomsonreuters.com, or use the following telephone numbers:

<table>
<thead>
<tr>
<th>Region</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Americas</td>
<td>+1 877 877 5435</td>
</tr>
<tr>
<td>Europe, Middle, and Africa</td>
<td>+44 870 787 6846</td>
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<tr>
<td>Asia</td>
<td></td>
</tr>
<tr>
<td>Australia</td>
<td>0011 800 2535 9108</td>
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<tr>
<td>Hong Kong</td>
<td>+852 2535 9108</td>
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<tr>
<td>Japan</td>
<td>0120 555 358</td>
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<td>Singapore</td>
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