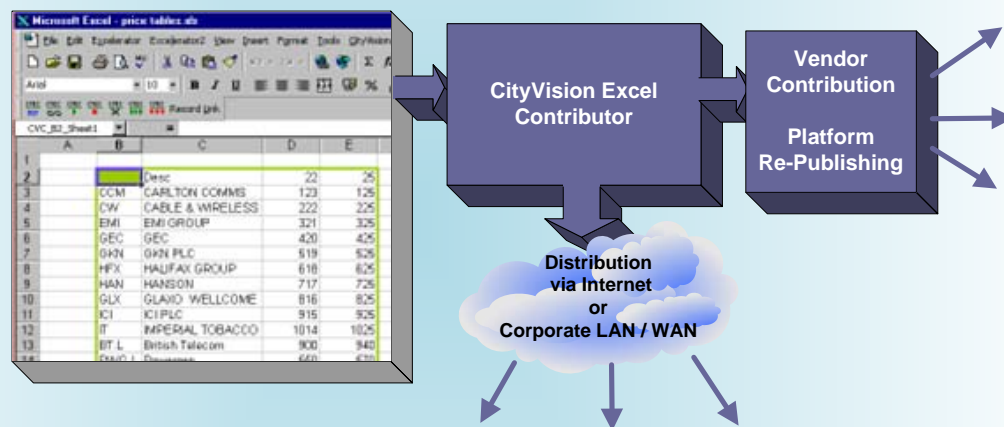


# CityVision Excel Contributor (CVEC)

## Real-time publishing, direct from Excel

CVEC allows users with Microsoft Excel to share data in real-time with other users.

- Manual or automatic data input, with real-time contribution.
- Calculated values output dynamically in real-time.
- Local or remote 'workgroup' publishing - great for internal real-time rates.
- Publish back to market data platforms.
- Simple integration for vendor contribution.
- Supports records and chains.
- Optimised submission for bandwidth efficiency.
- Simple set-up, straight from Excel.
- Fast and reliable, with problem alerts and automatic recovery for 24\*7 operation.



CityVision Excel Contributor lets you **automate and streamline your real-time desk-top publishing strategy**.

CVEC is an 'Add-in' which makes real-time publishing simple from Excel. Users simply create tables on the spread-sheet and **use the CityVision menu to define, start and stop contribution sessions**. The rest is automatic.

Data from CVEC is passed to the CityVision Real Time Publisher (RTP) middleware and onward to the required destination(s). Any updates to the table, either manually entered or via dynamic calculations, are sent immediately, optimised to reduce network traffic. The contribution tables can contain formulae and reference other cells, which are themselves being updated dynamically, for example via DDE from Bloomberg or Reuters. So you can use all Excel's features to **create a powerful and flexible real-time calculation engine**.

Naturally, contributions can reach any destination supported by CityVision StarNet. Thus your contributors can **send data reliably** and simultaneously to multiple Vendors, internal users, the web or other remote destinations, using the familiar Excel interface.

The main CVEC process uses Microsoft's COM architecture and doesn't suffer from the performance and reliability problems that can plague Excel publishing. CVEC and RTP support reliable real-time publishing with data acknowledgments, heartbeating, stale data support, **automatic recovery after network or server failure**, alternative routing and a host of configuration options to meet your specific needs .

CVEC is ideal for workgroups or market data 'communities of interest' whose members wish to **share each other's data in real-time**, without needing a complex, intrusive and expensive infrastructure. Logon security and access controls mean that different users can be given selective permissions to data on any PC in the community.

With demanding users such as Citibank, City Index and Her Majesty's Treasury, you can be sure that CVEC is powerful and robust enough to be central to a complete **global contributions and distribution system**.

# CityVision Excel Contributor

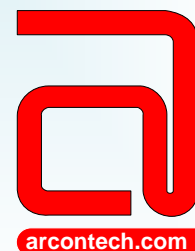
## Overview of Features and Benefits

Feature	Benefit
<b>For the users</b>	
Easy to use with simple menu, dialog boxes and visual set-up indications.	Simple for existing Excel users and tiny learning curve for new users.
Support for market data workgroups and real-time communities of interest.	Share your data, easily, with just those people who need it, and those you allow.
Publish new real-time sources on the fly, as and when required.	Respond instantly to changing markets and the needs of your data users.
Support for multiple contribution tables in many worksheets in many workbooks.	Organise data across files, users and workgroups according to your business.
Instant alerting of potential problems, via heartbeats and 'stale' data.	Have confidence that your data is being sent and received as you intended.
Use real-time sources and formulae in contributions.	Excel becomes a powerful real-time calculation engine.
<b>Technical</b>	
Instant alerting of potential problems, via heartbeats and 'stale' data.	Users can have confidence that data is being sent and received as intended .
Efficient multi-threaded COM software maximises PC throughput.	Add CVEC to existing machines - avoid hardware upgrades.
Support thousands of instruments at rapid update rates.	No need to worry about data overload or untimely pricing.
Data optimisation, ensuring only changes are sent - no redundant data.	Efficient for slow lines, dial-ups and shared bandwidth connections.
Built-in automation interface for VBA.	Automate CVEC from your own Excel macros.
Definable heartbeat, source monitoring and stale data behaviour.	Signal data status and validity across the system with different rules for different data.
Supports local and remote data distribution, platform re-publishing and vendor contribution*.	Ideal for internal data, workgroups, private data, closed user groups, etc.
Effective over any tcp/ip network including the Internet.	Vendor independence. Suitable for home, remote and mobile use.
<b>Support and Administration</b>	
Fast, efficient and reliable.	Minimal delays and system down-time.
Full 'off-the-shelf' product with simple, flexible, low cost installation.	Ideal for rapid and low risk deployment for effective low cost real-time provision throughout the enterprise.
Install with central distribution server, group hubs or individual personal distributors, in any combination.	Configuration and support according to your needs and policies.
Automatic re-start of contributions following network problems. No PC or spreadsheet restart required.	Low support requirements, even on Internet dial-up or less reliable connections.

\* Requires CityVision MVCS

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CityVision StarNet - CVEC