

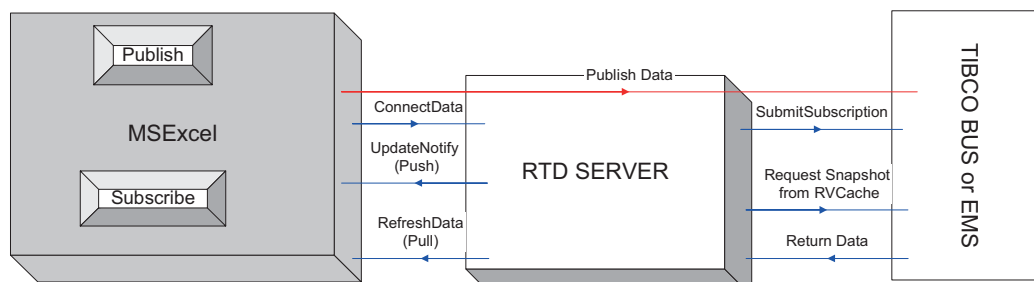
Excel To TIBCO Real-time Automation (ExTRA)

Infosys' Real Time Data from Excel plug-in enables the integration of Microsoft Excel with TIBCO Rendezvous. This can be used by trading floor developers & financial engineers in hedge funds and banks for exchanging financial data. The performance of the plugin has been tried and tested at customer places. It improves customer satisfaction and reduces the risk and cost associated with loss of financial data.

A powerful and flexible Excel to TIBCO integration solution that saves time and money

- Out-of-the-box 'generic' publisher and subscriber services that aid connectivity with TIBCO bus and EMS
- It is real-time; hence any change in the Excel data gets published automatically
- Facilitates online data capture from TIBCO bus, RV Cache and EMS
- Publisher service can publish up to 2000 messages with 25 fields each in a second
- Subscriber service can subscribe to 1000 messages with 25 fields each from the TIBCO bus and RV Cache in 2 seconds
- This performance has been tested & implemented on a 1GB RAM machine, 80GB Hard disk, 2.8GHz processing speed and Pentium D processor.
- Easy to use Admin GUI to do the configuration changes

Solution Architecture



Components of ExTRA involved in development of the solution

- The Red lines depict the Publisher flow
- The blue lines depict the subscriber flow
- Publisher service will publish on the TIBCO bus or EMS through the RTD server.
- Subscriber service will be communicating to TIBCO or EMS through the RTD server.
- This solution is built with MS Excel 2002/2003 and TIBCO Rendezvous 7.5.2

Usability of the tool:

- Hedge fund companies to update the stock price in the MS Excel workbook at periodic intervals.
- Used by trading floor developers, financial engineers, in hedge funds and banks to exchange financial data which is very critical and performance is the key.
- MS Excel is widely used in reporting and analysis of the corporate data. This tool will be very useful in such scenarios.

Solution Features and Benefits

Features:

- Subscriber service can pick up real time data from TIBCO bus, RV Cache or EMS through the RTD server.
- Publisher service publishes all the fields of a particular message from MS Excel to TIBCO or EMS when ever any of the fields is modified.
- RTD server takes care of the overhead of routing data returned from the server to the correct cell in the worksheet containing the RTD function.
- RTD server is based on the push pull mechanism; when RTD server has data, it informs excel that it has some data for excel; when excel is free, it pulls the data from the RTD server.
- The RTD function updates in real time and provides cell-referencing capabilities.
- Admin GUI provided for easy configuration
- Subject name optional in MS Excel. If subject name not present in MS Excel it's picked up from the Admin GUI.
- Differential Publishing: Only modified fields gets published from MS Excel
- Logging of errors/messages into log files
- GUI based installer provided to do the installation
- User Guide provided

Benefits:

- The solution is flexible enough to fit into any organization's system landscape with minimal cost and effort
- The performance of both the Subscriber and the Publisher service is proven. Huge volumes data can be exchanged within fraction of a second.
- Subscriber and Publisher services are developed using Microsoft's RTD server which is based on the *push pull mechanism*.
- RTD server takes care of the overhead of routing data returned from the server to the correct cell in the worksheet containing the RTD function.

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