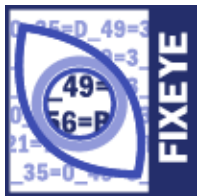


FIXEye

Getting Started: The Guide



Product overview

FIXEye is a multi-purpose FIX session surveillance and visibility platform.

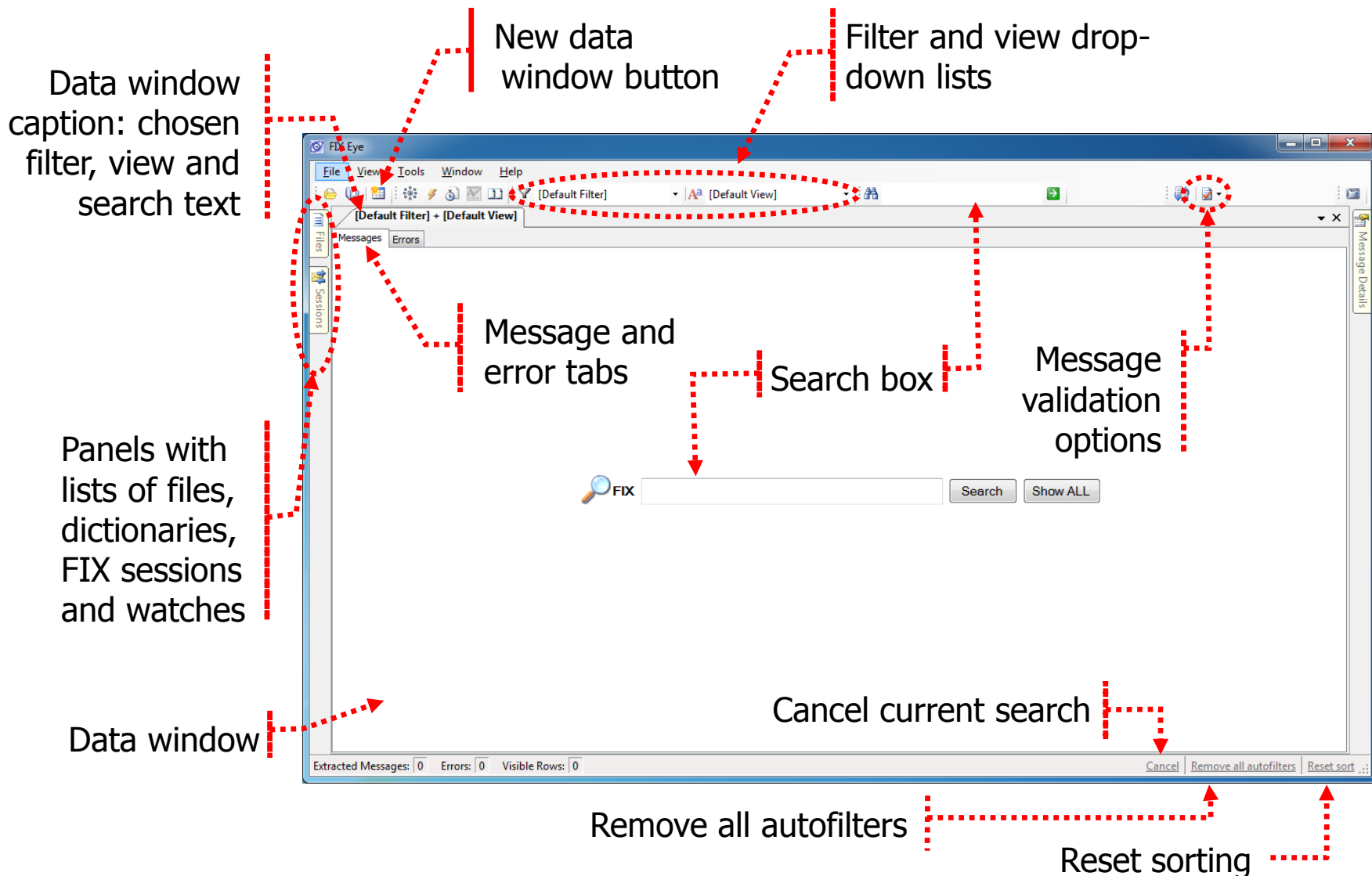
FIXEye presents search results in an easy to work with form. It has intuitive graphical user interface and uses many operational features familiar from MS Excel.

FIXEye can process multiple log-files distributed on the network.

FIXEye features

- Search for FIX log-files on a local computer and a whole network
- Show FIX messages in a table
- Select FIX fields to be shown in a table
- Show FIX field names, values and descriptions
- Filter FIX messages by particular text in fields
- Recognize FIX version (4.0 – 4.4) from a log file
- Support Regular expression
- Read raw FIX messages from any text files (not cleaned FIX-logs only)
- Filter FIX messages by sessions
- Provide context search
- Create custom views
- Create custom filters
- Validate FIX messages
- Compare FIX messages
- Support FIX dialects
- Provide Order back trace
- Support Multi-tab view
- Export selected cells to CSV

FIXEye main window



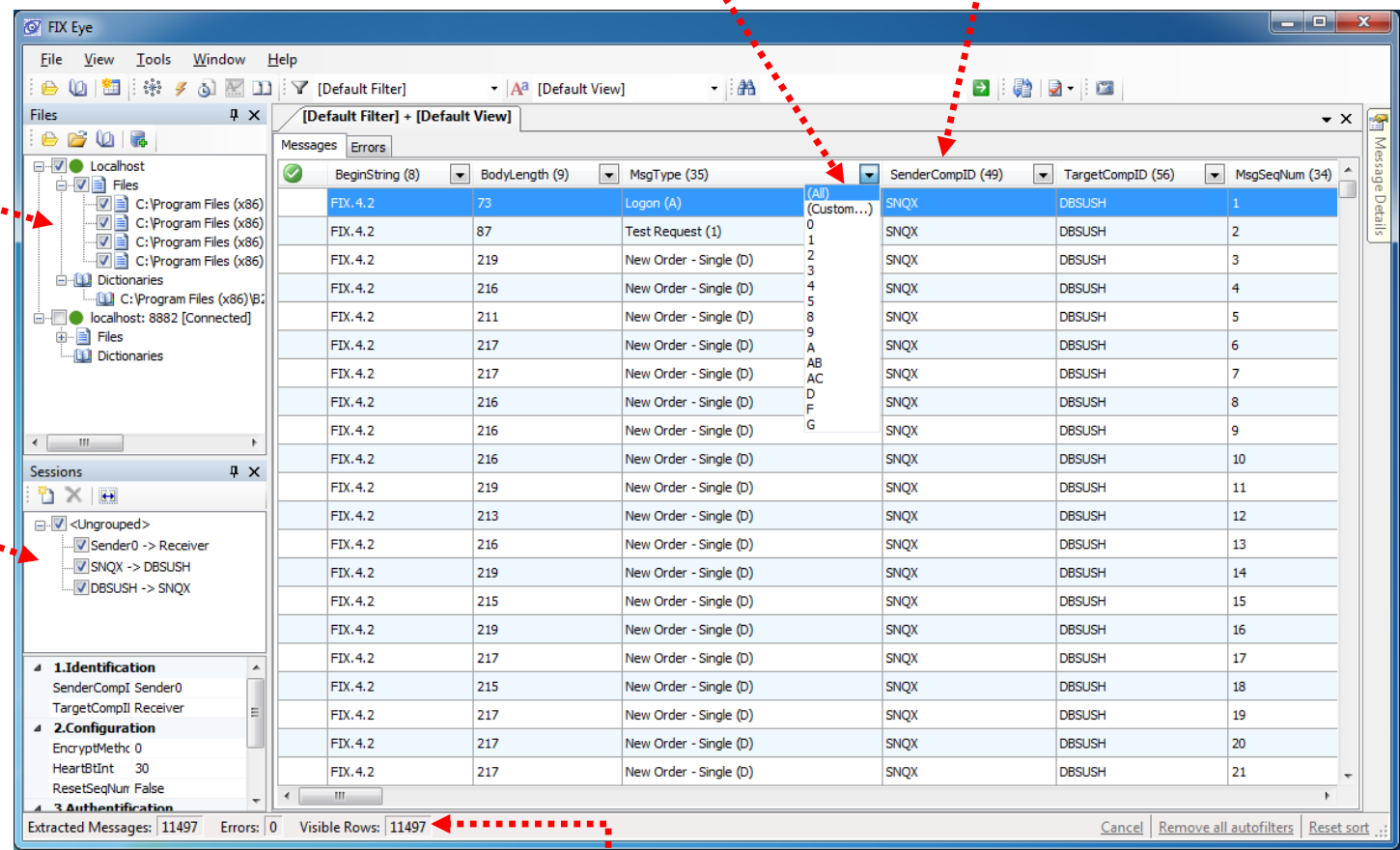
FIXEye main window

Column auto filter

Column header with FIX tag

Log-files, dictionaries and agents

FIX-sessions list



Message counter

Error counter

Row counter

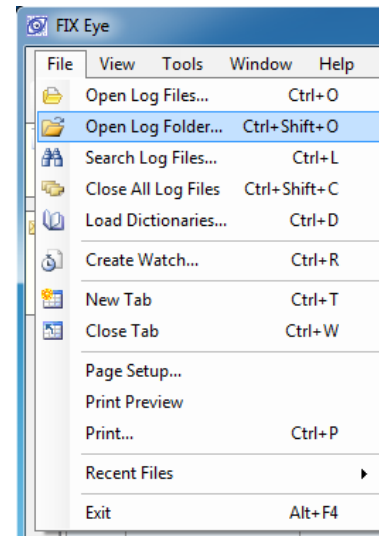
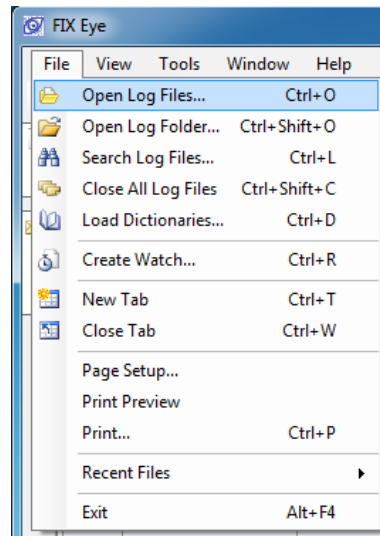
Quick start

- To start FIXEye, click **Start**, point to **All Programs**, click B2BITS, and then click **FIXEye**. You can also double-click the FIXEye icon.
- To choose data files, on the **File** menu, click **Open Log Files**, select files with raw FIX messages and click **Open**.
- Write a search query in a search box and click **Search**.
- Double-click on a message in the table to see FIX message details.

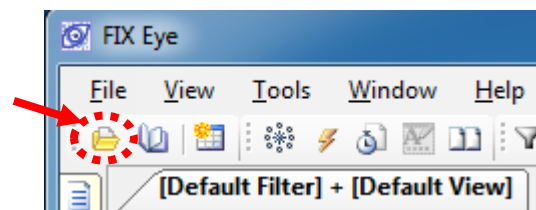
At the very beginning FIXEye displays a dialog form for opening log files. You can either browse for files by clicking the corresponding step or skip this step by clicking the **Cancel** button.

Opening file

On the **File** menu, click **Open Log Files** or **Open Log Folder**.



You can also use the  button on your toolbar.



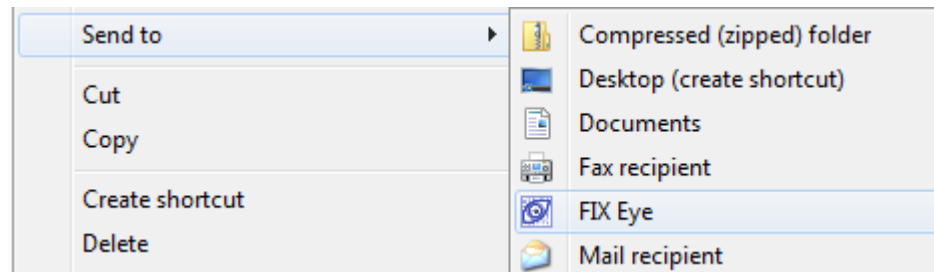
Sending to FIXEye



New!

You can send log files to FIXEye from any folder on your computer.

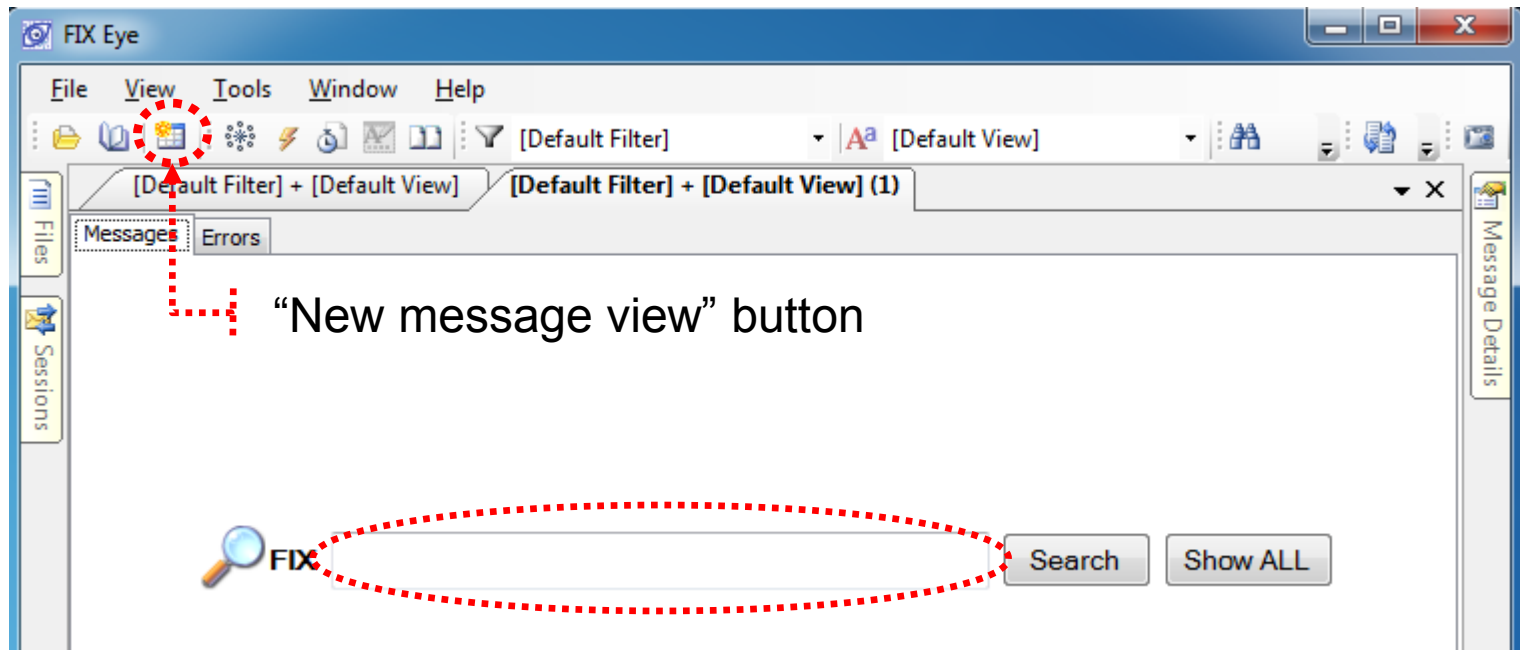
- Right-click a folder, point to **Send To**, and then click **FIXEye**.
- The sent files will be opened in a new instance of FIXEye.




Multiple tabs

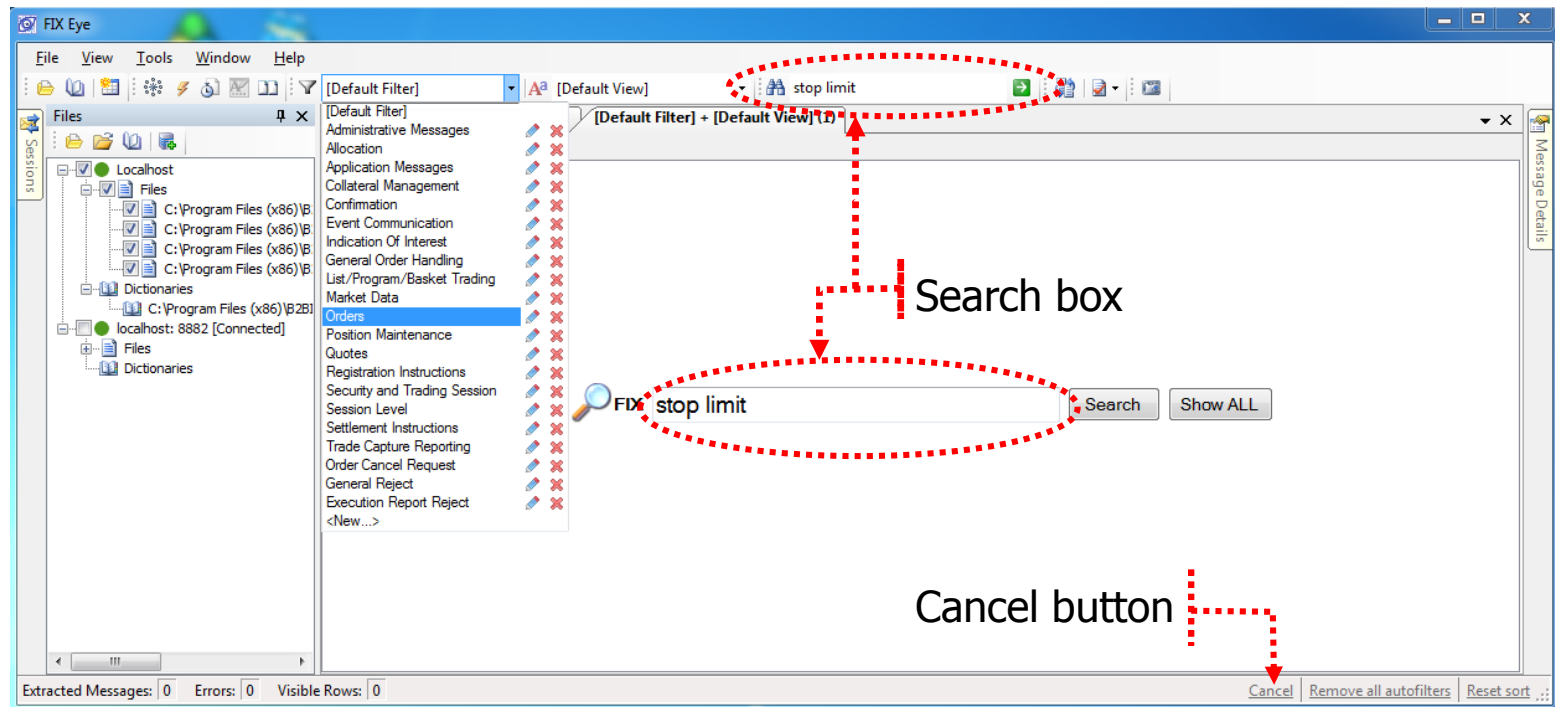
FIXEye allows creating multiple data windows (tabs). It is possible to specify different search text, filter and view for each data window.

- To add a new tab, click the **New message view** button. You can also press Ctrl+T.
- New data window with a clear search box will appear next to the current one.



Data search

Select the type of message you want to find, type your search query in any search box in the main window and hit the **Search** button or click the  button.

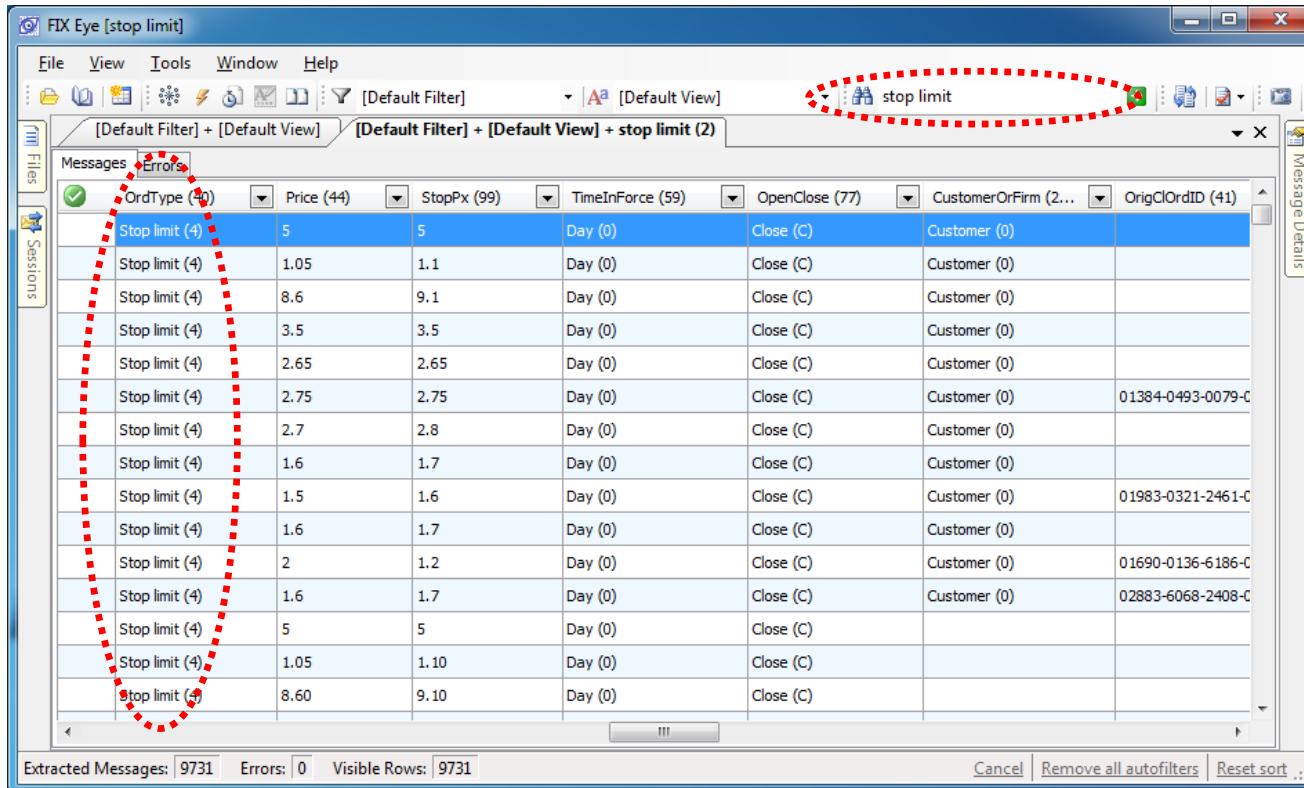


You can stop the search process by clicking the **Cancel** button on the status bar.

Data search

Search results (namely messages) are sorted by relevance to the specified search terms.

Search terms are indicated on the data window label and placed into the search box as well.



The screenshot shows the FIX Eye application window titled "FIX Eye [stop limit]". The window has a menu bar (File, View, Tools, Window, Help) and a toolbar. The search box in the top right corner contains the text "stop limit" and is highlighted with a red dashed oval. Below the search box, the window title bar shows "[Default Filter] + [Default View] + stop limit (2)". The main area displays a table of search results for "stop limit" messages. The table has columns for OrdType, Price, StopPx, TimeInForce, OpenClose, CustomerOrFirm, and OrigClOrdID. The first row is highlighted in blue. A red dashed oval highlights the first column of the table, which contains the text "Stop limit (4)".

| OrdType (40) | Price (44) | StopPx (99) | TimeInForce (59) | OpenClose (77) | CustomerOrFirm (2...) | OrigClOrdID (41) |
|----------------|------------|-------------|------------------|----------------|-----------------------|-------------------|
| Stop limit (4) | 5 | 5 | Day (0) | Close (C) | Customer (0) | |
| Stop limit (4) | 1.05 | 1.1 | Day (0) | Close (C) | Customer (0) | |
| Stop limit (4) | 8.6 | 9.1 | Day (0) | Close (C) | Customer (0) | |
| Stop limit (4) | 3.5 | 3.5 | Day (0) | Close (C) | Customer (0) | |
| Stop limit (4) | 2.65 | 2.65 | Day (0) | Close (C) | Customer (0) | |
| Stop limit (4) | 2.75 | 2.75 | Day (0) | Close (C) | Customer (0) | 01384-0493-0079-C |
| Stop limit (4) | 2.7 | 2.8 | Day (0) | Close (C) | Customer (0) | |
| Stop limit (4) | 1.6 | 1.7 | Day (0) | Close (C) | Customer (0) | |
| Stop limit (4) | 1.5 | 1.6 | Day (0) | Close (C) | Customer (0) | 01983-0321-2461-C |
| Stop limit (4) | 1.6 | 1.7 | Day (0) | Close (C) | Customer (0) | |
| Stop limit (4) | 2 | 1.2 | Day (0) | Close (C) | Customer (0) | 01690-0136-6186-C |
| Stop limit (4) | 1.6 | 1.7 | Day (0) | Close (C) | Customer (0) | 02883-6068-2408-C |
| Stop limit (4) | 5 | 5 | Day (0) | Close (C) | | |
| Stop limit (4) | 1.05 | 1.10 | Day (0) | Close (C) | | |
| Stop limit (4) | 8.60 | 9.10 | Day (0) | Close (C) | | |

Extracted Messages: 9731 Errors: 0 Visible Rows: 9731

Data search



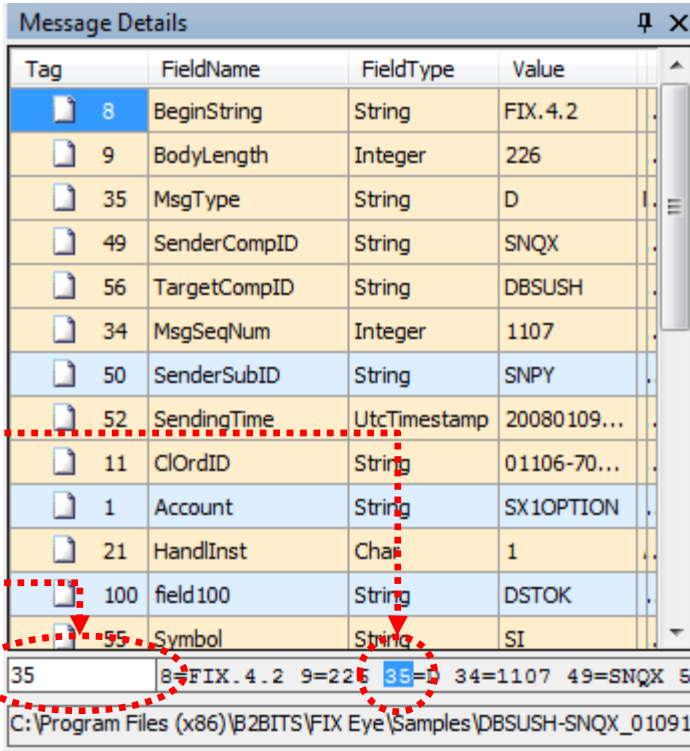
New!

You can search for a specific context in a raw message.

- Double-click on a message to open the **Message Details** window and enter your search query in the search text box.
- Press Enter to go to the next search result or Shift+Enter to return to the previous one.

Search results

Search text box



| Tag | FieldName | FieldType | Value |
|-----|--------------|--------------|-------------|
| 8 | BeginString | String | FIX.4.2 |
| 9 | BodyLength | Integer | 226 |
| 35 | MsgType | String | D |
| 49 | SenderCompID | String | SNQX |
| 56 | TargetCompID | String | DBSUSH |
| 34 | MsgSeqNum | Integer | 1107 |
| 50 | SenderSubID | String | SNPY |
| 52 | SendingTime | UtcTimestamp | 20080109... |
| 11 | ClOrdID | String | 01106-70... |
| 1 | Account | String | SX1OPTION |
| 21 | HandInst | Char | 1 |
| 100 | field100 | String | DSTOK |
| 55 | Symbol | String | SI |


35 8=FIX.4.2 9=226 35=D 34=1107 49=SNQX 5

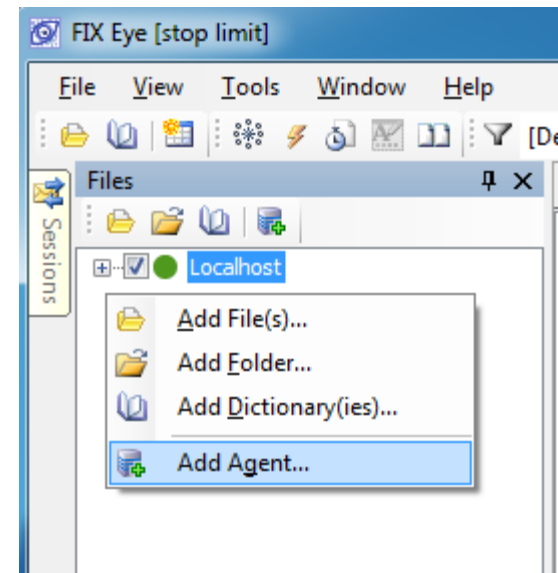
C:\Program Files (x86)\B2BITS\FIX Eye\Samples\DBSUSH-SNQX_01091

Agent



You can use an agent to browse log files on any remote computer if security or any other issues prevent your direct access to the machine.

- Right-click anywhere in the **Files** window, and then click **Add Agent**. You can also use the  button.
- In the **Agent Connection Parameters** dialog, enter your connection parameters, and then click **Create**.



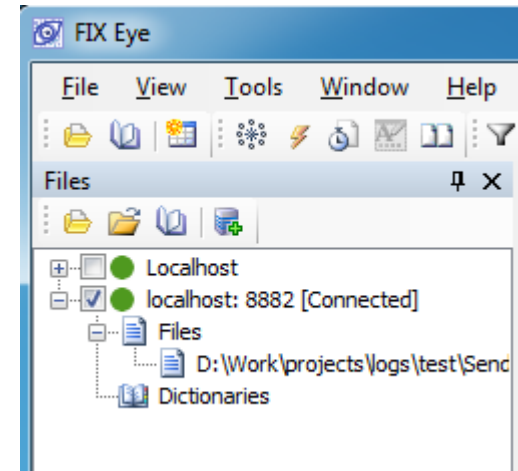
Please note that the agent should already be installed, configured and run on the remote computer.

Agent



If connection is available and everything is setup properly, your agent status will change to “Connected”.

- You can see which files you can browse and what dictionaries the agent uses in the corresponding sublists.
- You can browse only static files. No changes in logs will be reflected.
- If you want browse logs real-time, please see the Watch section.

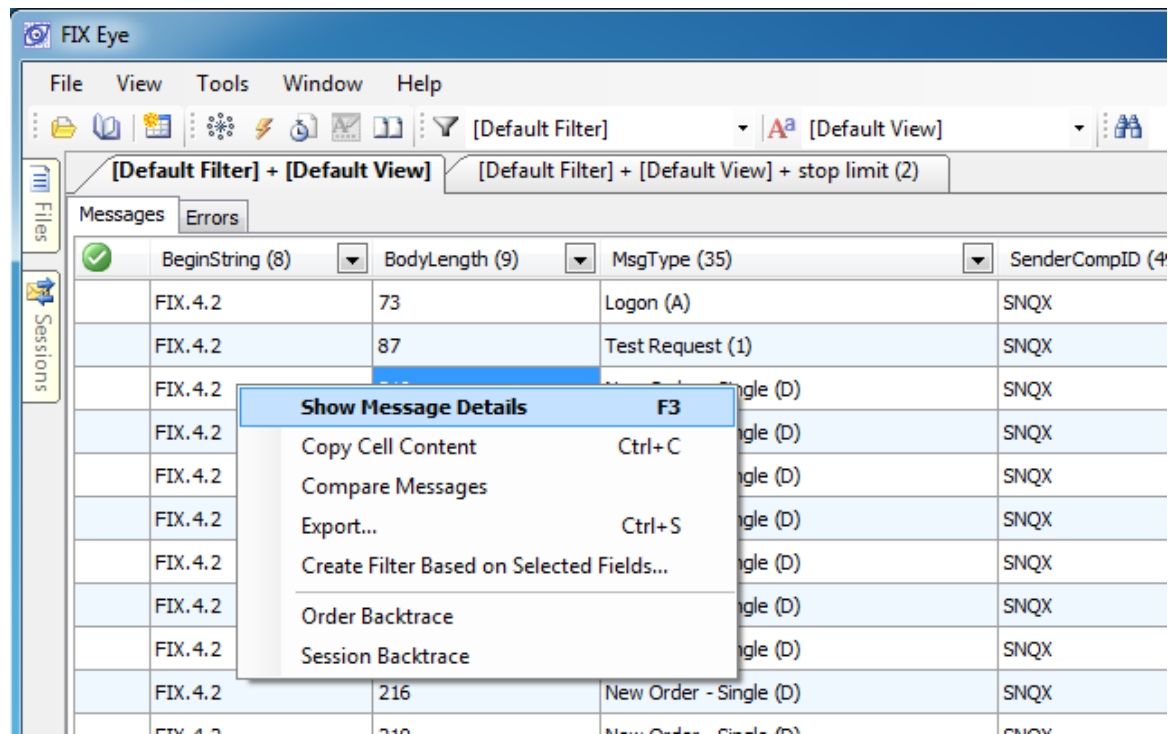


Please note that the agent should already be installed, configured and run on the remote computer.

Message details

To view message details:

- Right-click the selected FIX message, and then click **Show Message Details**. You can also double-click the selected FIX message.



Comparing messages



You can compare two messages tag by tag in a separate window.

- Select a message, and then hold down Ctrl key while you click other message you want to select.
- Right-click the selected message, and click **Compare Messages**.

Please note, that if you select more than two messages, FIXEye will compare only the first and the last one.

| | | | |
|------------------------|------|---|--------|
| Test Request (1) | SNQX | | DBSUSH |
| New Order - Single (N) | SNQX | | DBSUSH |
| New Order - Sing | | Show Message Details F3 | DBSUSH |
| New Order - Sing | | Copy Cell Content Ctrl+C | DBSUSH |
| New Order - Sing | | Compare Messages | DBSUSH |
| New Order - Sing | | Export... Ctrl+S | DBSUSH |
| New Order - Sing | | Create Filter Based on Selected Fields... | DBSUSH |
| New Order - Sing | | Order Backtrace | DBSUSH |
| New Order - Sing | | Session Backtrace | DBSUSH |
| New Order - Single (D) | SNQX | | DBSUSH |

Comparing messages



You can exclude separate tags from the comparison.

- In the **Message Compare** dialog, in the **Exclusive tags**, type the tags with any delimiter, and then click the **Compare** button to refresh the list.

= values are identical

<> values are different

<= tag is present only in the left message

=> tag is present only in the right message

Messages Compare

FIX Messages

Left FIX Message 8=FIX.4.2 9=216 35=D 34=8 49=SNQX 50=SNPY 52=20080109-13:32:12.000 56=DBSUSH 1=SX1OPTIOI

Right FIX Message 8=FIX.4.2 9=219 35=D 34=3 49=SNQX 50=SNPY 52=20080109-13:32:11.000 56=DBSUSH 1=SX1OPTIOI

Exclusive tags 9, 10, 52

Compare Swap

| | Tag [FieldName] | Value | <=> | Value | Tag [FieldName] |
|----|-------------------------|------------|-----|------------|-------------------------|
| 1 | 11 [ClOrdID] | 00007-6... | <> | 00002-... | 11 [ClOrdID] |
| 2 | 1 [Account] | SX1OPTI... | = | SX1OPTI... | 1 [Account] |
| 3 | 21 [HandInst] | 1 | = | 1 | 21 [HandInst] |
| 4 | 100 [field100] | DSTOK | = | DSTOK | 100 [field100] |
| 5 | 55 [Symbol] | OIQ | <> | OTI | 55 [Symbol] |
| 6 | 167 [SecurityType] | OPT | = | OPT | 167 [SecurityType] |
| 7 | 200 [MaturityMonthYear] | 200801 | <> | 200901 | 200 [MaturityMonthYear] |
| 8 | 201 [PutOrCall] | 1 | <> | 0 | 201 [PutOrCall] |
| 9 | 202 [StrikePrice] | 50 | <> | 17.5 | 202 [StrikePrice] |
| 10 | 54 [Side] | 2 | <> | 1 | 54 [Side] |
| 11 | 60 [Transact Time] | 200801... | <> | 200801... | 60 [Transact Time] |
| 12 | 38 [OrderQty] | 7 | <> | 20 | 38 [OrderQty] |
| 13 | 40 [OrdType] | 2 | = | 2 | 40 [OrdType] |
| 14 | 44 [Price] | 7.4 | <> | 5.2 | 44 [Price] |
| 15 | 59 [TimeInForce] | 0 | = | 0 | 59 [TimeInForce] |
| 16 | 77 [OpenClose] | C | = | C | 77 [OpenClose] |
| 17 | 204 [CustomerOrFirm] | 0 | = | 0 | 204 [CustomerOrFirm] |
| 18 | 8 [BeginString] | FIX.4.2 | = | FIX.4.2 | 8 [BeginString] |
| 19 | 35 [MsgType] | D | = | D | 35 [MsgType] |

Comparing files

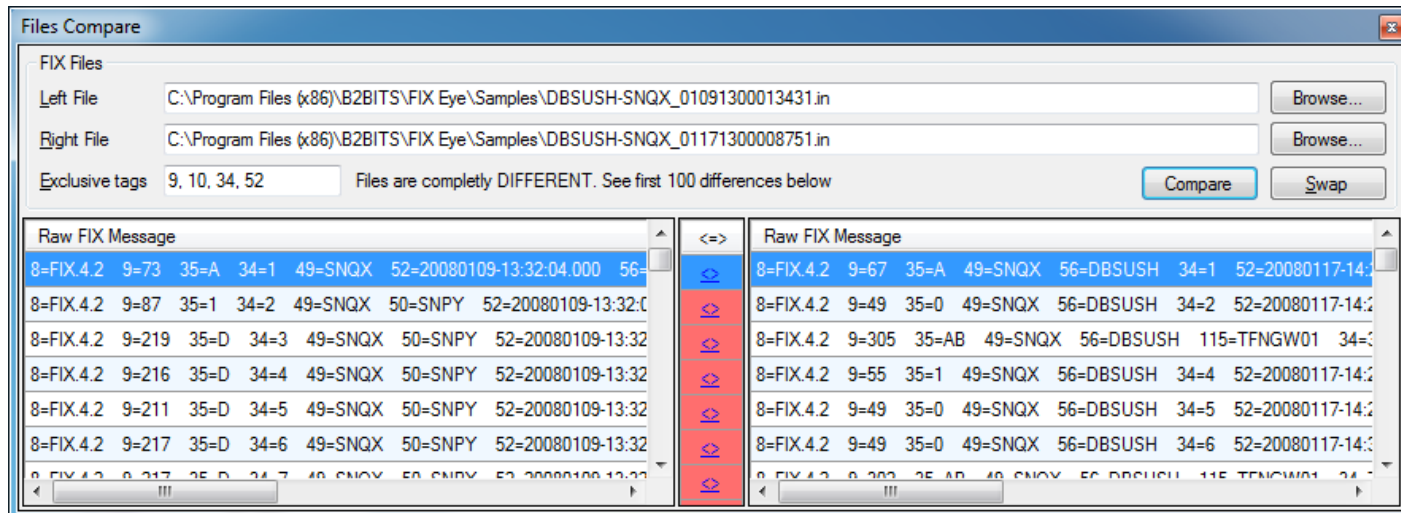


You can compare two log files message by message using our new **Files Compare** tool.

- On the **Tools** menu, click **Files Compare**.
- Click the **Browse** at the end of each line to select the files you want to compare.
- Click the **Compare**.

“<>” indicates that messages are different

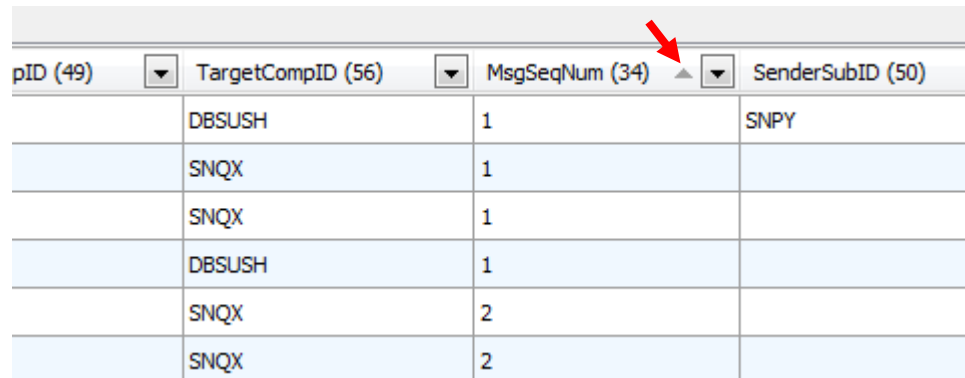
- Click the <> to compare 2 messages in a new window.



Message sorting

You can sort messages in ascending or descending order.

- Click the appropriate table column header to sort messages.
- The direction of the arrow next to the header name indicates the direction of the sort.
- You can reset current sorting by pressing <Esc>.



| pID (49) | TargetCompID (56) | MsgSeqNum (34) | SenderSubID (50) |
|----------|-------------------|----------------|------------------|
| | DBSUSH | 1 | SNPY |
| | SNQX | 1 | |
| | SNQX | 1 | |
| | DBSUSH | 1 | |
| | SNQX | 2 | |
| | SNQX | 2 | |

Message auto filter

You can use different filters to show or hide specific messages.

- Click the arrow next to header name, and then select a required value to apply auto filter.
- To reset filtering, select **(All)**.

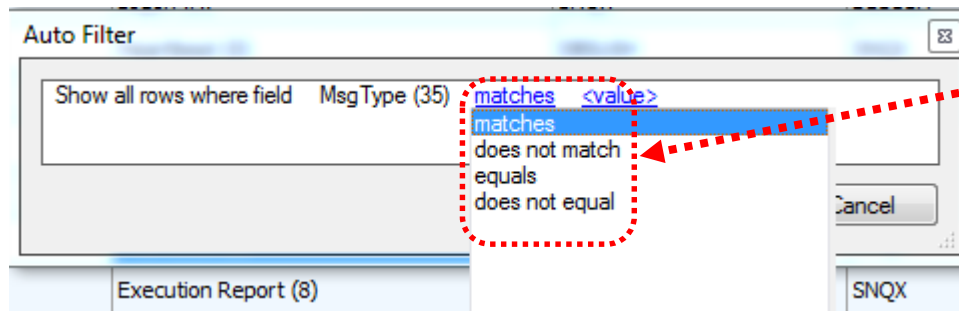
[Default Filter] + [Default View] | [Default Filter] + [Default View] + stop limit (2)

Messages Errors

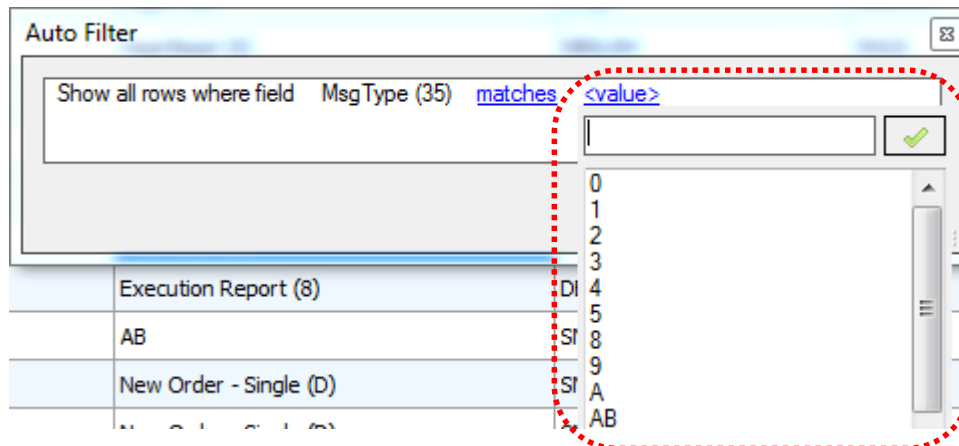
| | BodyLength (9) | MsgType (35) | SenderCompID (49) |
|---|----------------|----------------------|-------------------|
| ✓ | | (All) | |
| | 73 | Logon (A) | SNQX |
| | 67 | Logon (A) | DBSUSH |
| | 61 | Logon (A) | DBSUSH |
| | 67 | Logon (A) | SNQX |
| | 75 | Heartbeat (0) | DBSUSH |
| | 49 | Heartbeat (0) | DBSUSH |
| | 87 | Test Request (1) | SNQX |
| | 49 | Heartbeat (0) | SNQX |
| | 55 | Heartbeat (0) | DBSUSH |
| | 284 | Execution Report (8) | DBSUSH |

Message auto filter

- Click the arrow next to header name, and then select **(Custom)**.
- Set up a condition operator and a criterion <value> to compare the current FIX field with some value(-s).
- The filter criteria can either be selected from the drop-down list or entered by the user.



Operation list of custom filter



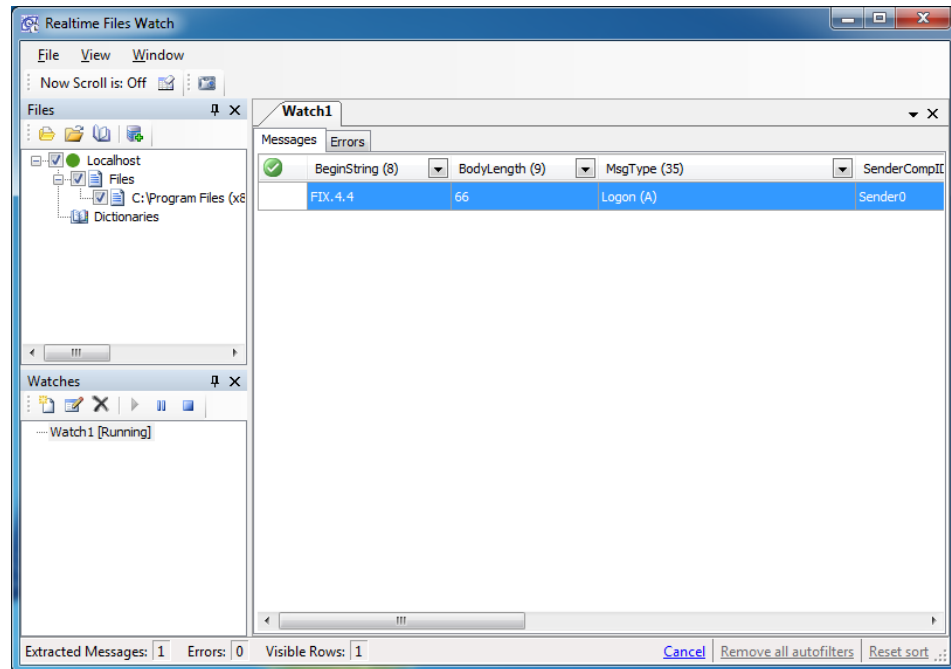
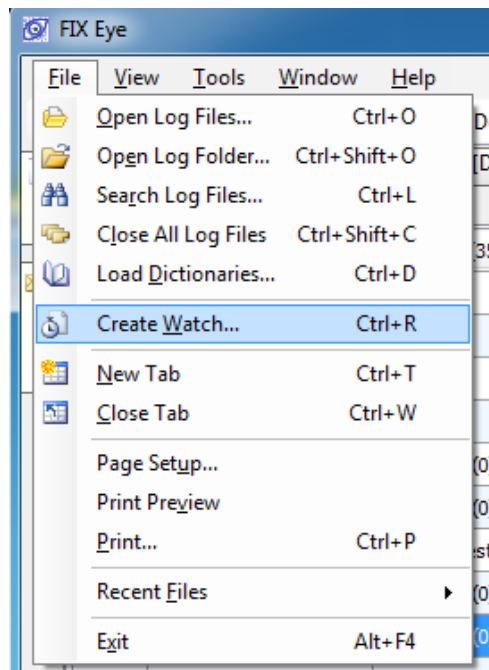
Criterion value list and input box

Watch



FIXEye provides a powerful real-time monitoring tool – Watch. You can create multiple processes with various filters and search parameters to follow updates in selected files.

- To create a new Watch, on the **File** menu, click **Create Watch**. You can also click the  button on the toolbar to open the **Realtime Files Watch** window.



Watch



- Specify the message type you want to watch in the **Filter** list.
- In the **Search** box, type search parameters. You can leave the box empty to see all messages.
- In the **Validation** list, select a required validation level.
- In the **Check interval** box, type a check interval in milliseconds.
- In the **Schedule** list, select the moment when you would like to start.

Add Watch

Watch Name: Watch1

Files

Storage: Localhost

| <input checked="" type="checkbox"/> | File |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | C:\Program Files (x86)\B2BITS\FIX Eye\Samples\DBSUSH-SNQX_01091300013431 |
| <input checked="" type="checkbox"/> | C:\Program Files (x86)\B2BITS\FIX Eye\Samples\DBSUSH-SNQX_01091300013431 |
| <input checked="" type="checkbox"/> | C:\Program Files (x86)\B2BITS\FIX Eye\Samples\DBSUSH-SNQX_01171300008751 |
| <input checked="" type="checkbox"/> | C:\Program Files (x86)\B2BITS\FIX Eye\Samples\DBSUSH-SNQX_01171300008751 |
| <input checked="" type="checkbox"/> | C:\Program Files (x86)\B2BITS\FIX Eye\Samples\NKPI-RECO_02142057401101.in |
| <input checked="" type="checkbox"/> | C:\Program Files (x86)\B2BITS\FIX Eye\Samples\NKPI-RECO_02142057401101.out |

Parameters

Search:

Filter: [Default Filter] Validation: v0

Check Interval: 1,000 milliseconds

Schedule: AfterCreation

E-mail Notifications
Outgoing Mail Server: [Configure...](#)

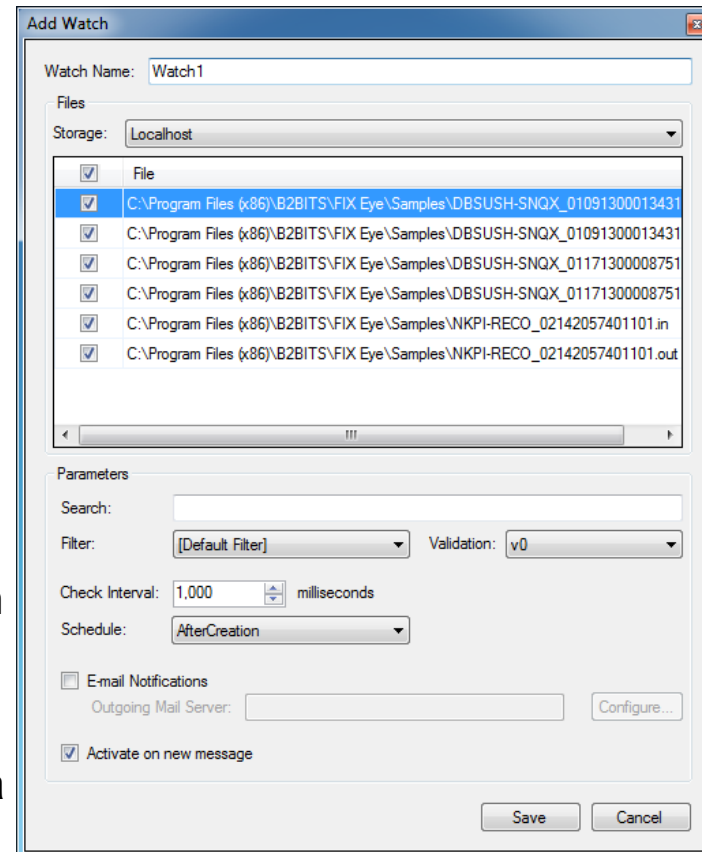
Activate on new message

Save Cancel

Watch




- To add files you want to watch, under **Files**, click **Open**. Select files you want to monitor, and then click **Open**. You can also add files to the list by typing a file path, and then click **Add**.
- To remove a file from the list, select a required file, and then click **Remove**.
- Select the **E-mail Notifications** check box if you want to receive a notification email every time a new message is detected. Click the **Configure** to set up an outgoing mail server.
- Select the **Activate on new message** check box if you want FIXEye to blink on a taskbar when a new message is detected.

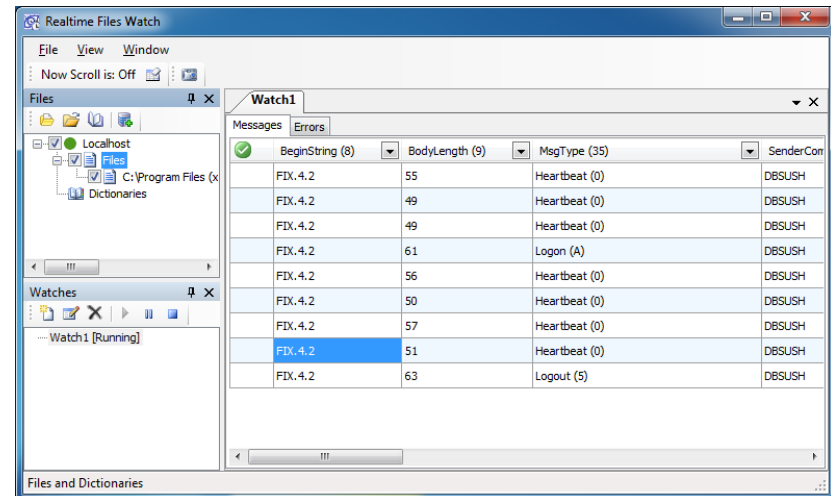


Watch



You can stop or pause the process in the **Realtime Files Watch** window using the correspondent buttons on the **Watches** toolbar.


- Click the **Now Scroll is: Off** to switch off the automatic scroll to the latest messages. Clicking the **Now Scroll is: On** button will restore it.
- Click the  button on the toolbar to clear the list.



Watch

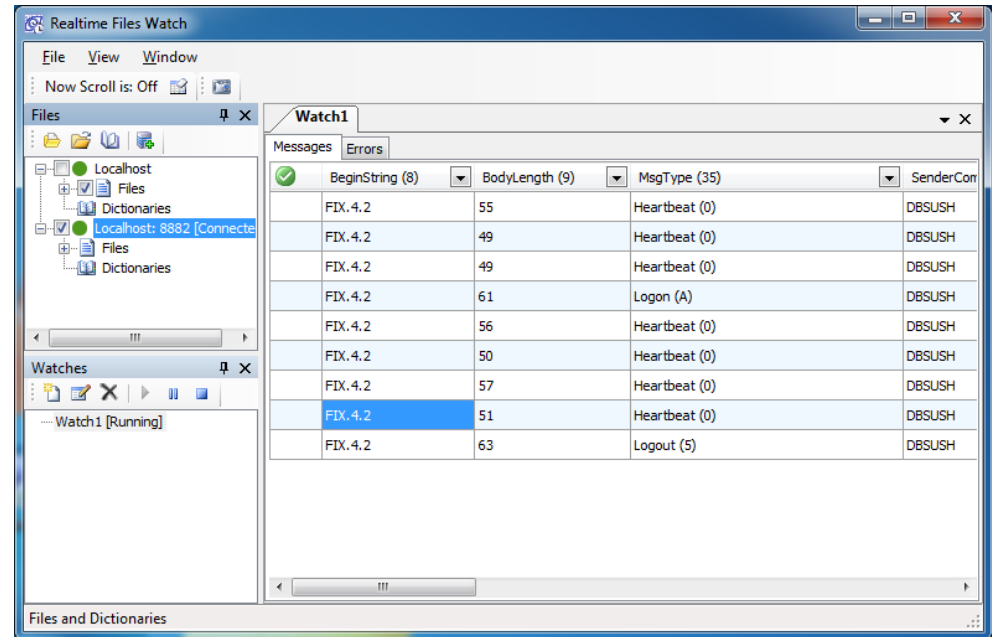
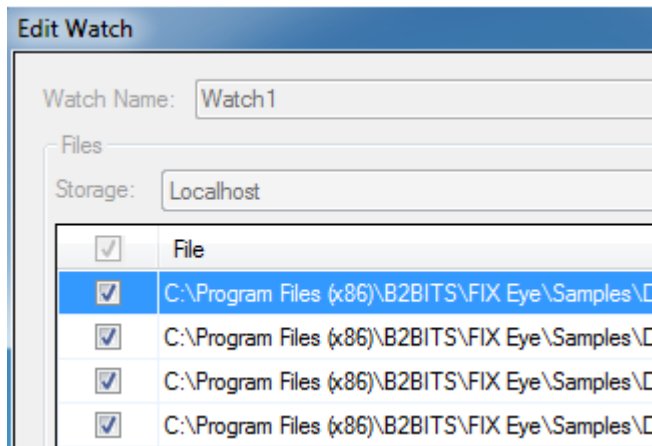


You can add an agent to monitor the files on a remote computer.

- In the **Realtime Files Watch** dialog, right-click anywhere in the **Files** window, and then click **Add Agent**. You can also use the  button.

Please mind that the agent should already be configured on a remote computer.

- Once the agent is connected you can add a Watch that will monitor the remote storage

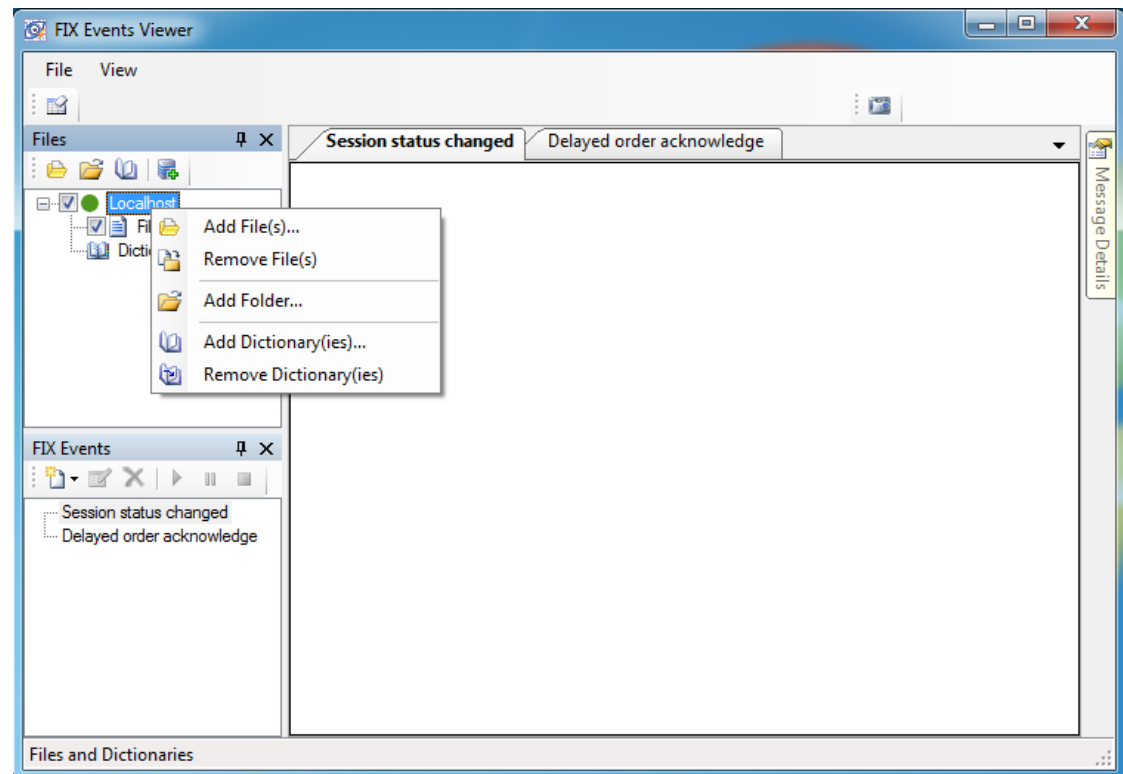


FIX Events Viewer



You can create a subscription to the following FIX session events:

- Session status changes
- Delayed order acknowledge time is detected
- On the **Tools** menu, click **Events Viewer**. You can also use the ⚡ button.
- In the **FIX Events Viewer** dialog, add files or agents you want to track.
- Create a subscription.

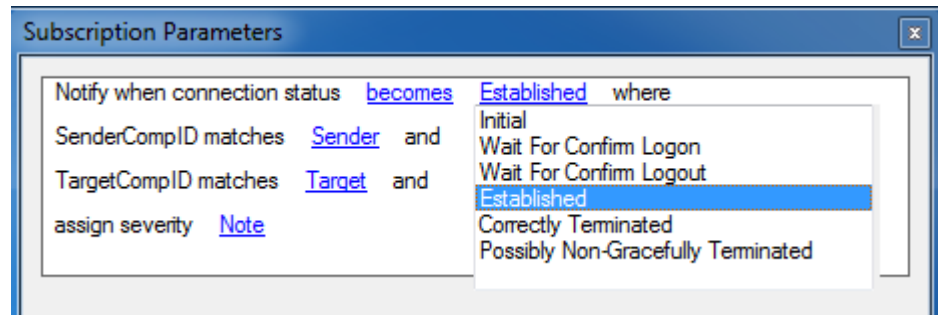


FIX Events Viewer

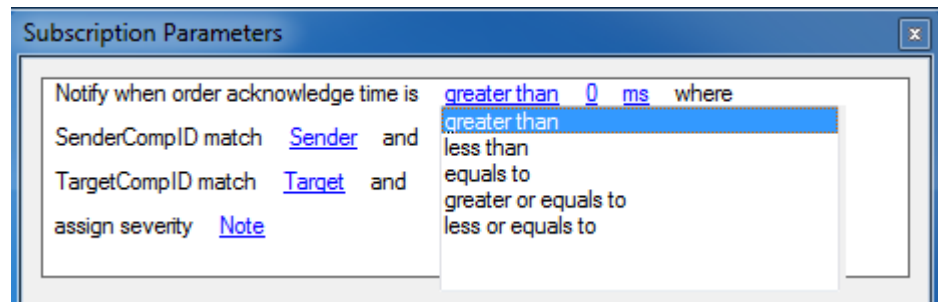


Click the  button on the **FIX Events toolbar** and select your subscription type.

- You can opt for notifications of a general status change or change to a concrete state.



- You can configure notifications precisely by selecting the operator, value and unit of measurement.

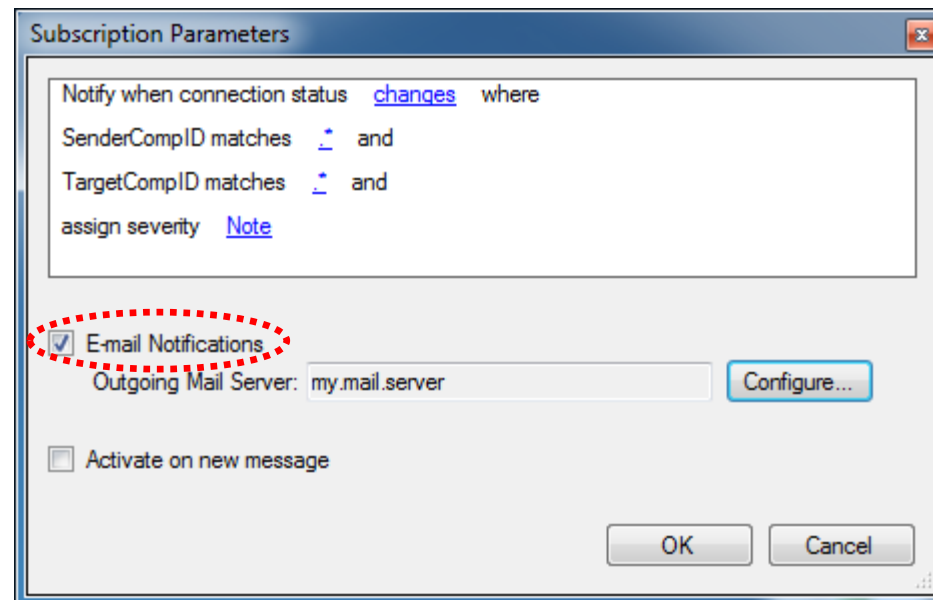


FIX Events Viewer



You can receive notification emails on every FIX session event.

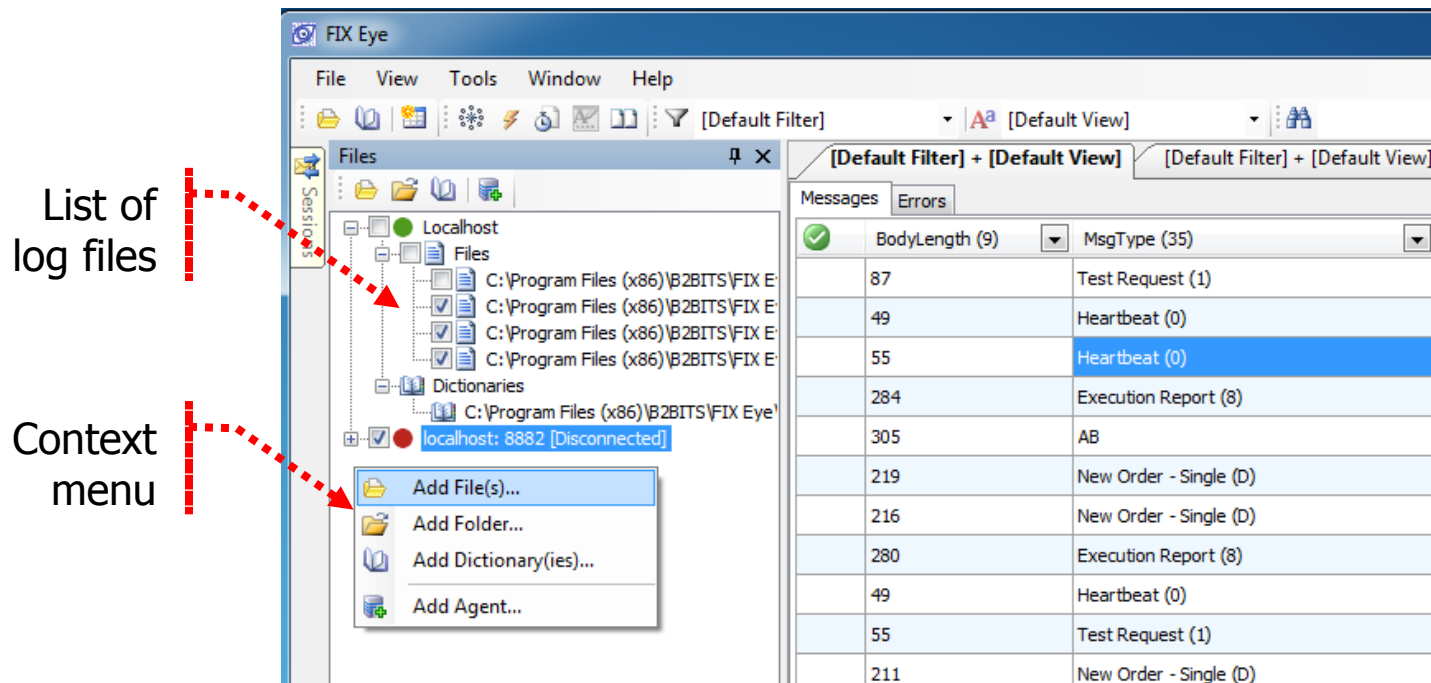
- Select the **E-mail Notifications** check box.
- Click the **Configure** to set up an outgoing mail server.



File list

All opened log files are listed in the **Files** window.

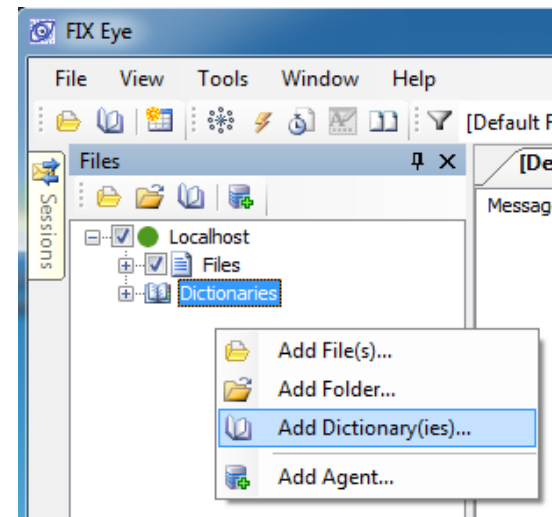
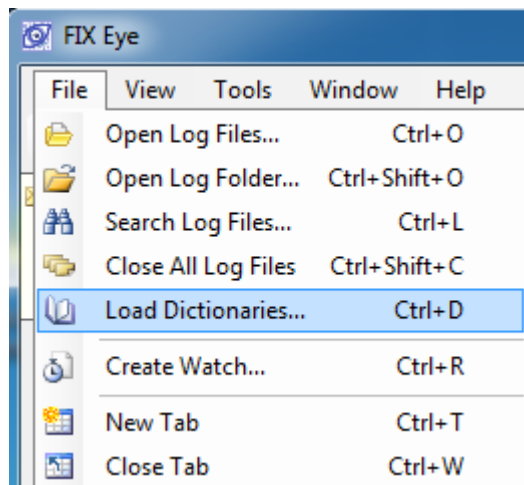
- Select the respective file check box to include the file content in the next search.
- Clear the respective file check box to exclude the file content from the next search.



Dictionaries list

FIXEye covers standard FIX-features by default, but you can work with non-standard FIX-dialects after loading special files (XML-format) that contain the necessary descriptions.

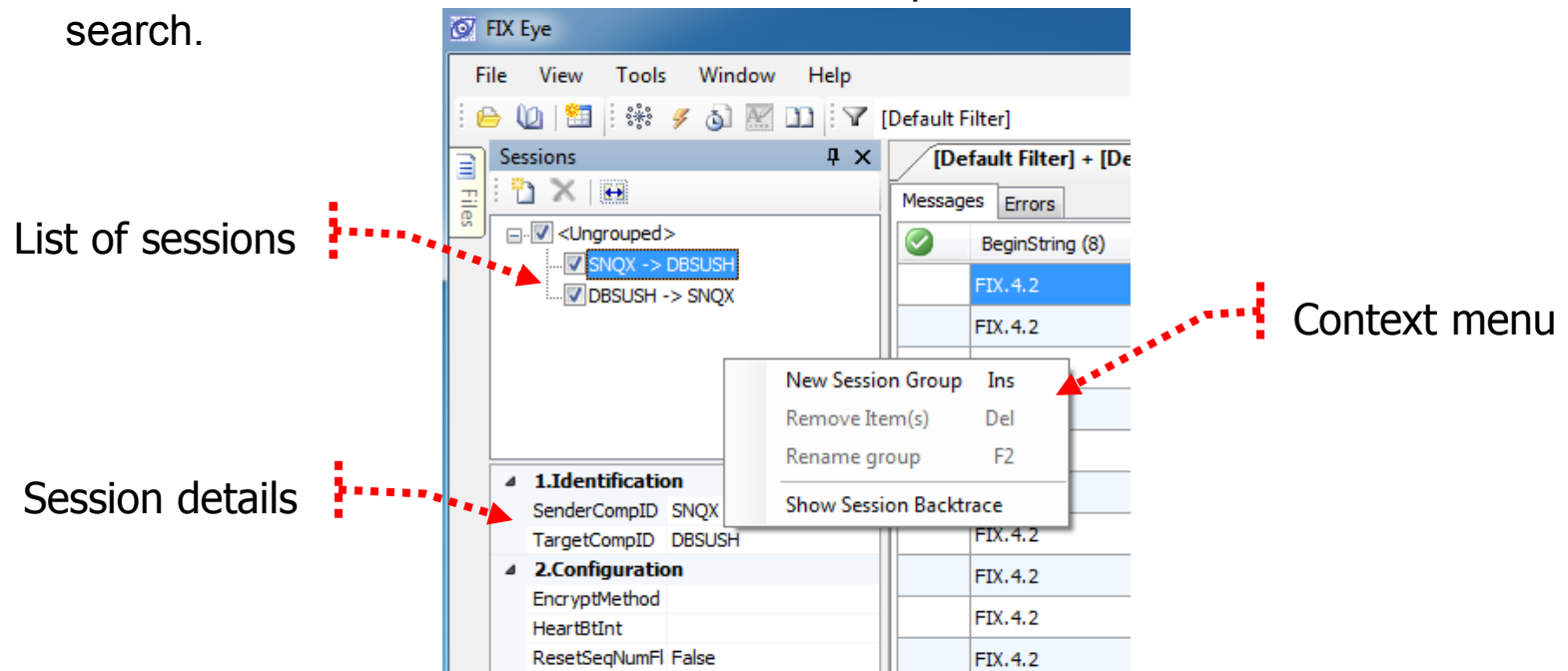
- To add a dictionary file, on the **File** menu, click **Load Dictionaries**. You can also right-click anywhere in the **Files** window, and then click **Add Dictionary(ies)**.
- To remove a dictionary file, right-click the selected file, and click **Remove Dictionary(ies)**.



Sessions list

All sessions found in opened log files are listed in the **Sessions** window.

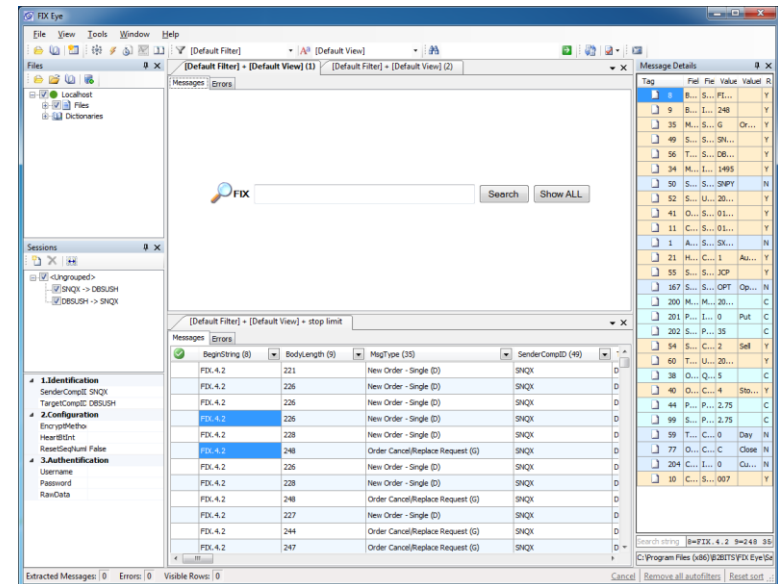
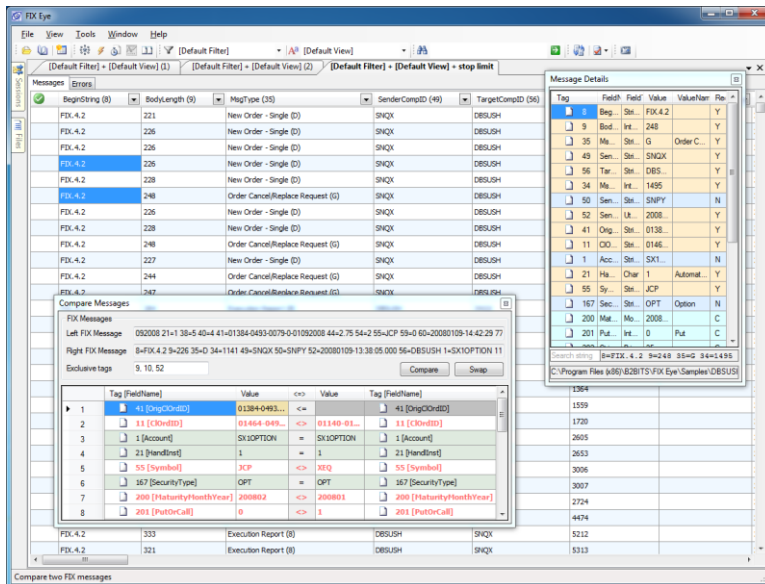
- Create groups to sort your sessions using a context menu.
- Select a session check box to include the respective session in the next search.
- Clear a session check box to exclude the respective session from the next search.



Customizing interface

You can adjust the viewing depending on how you arrange the windows in the FIXEye. The following options are just some of the ways that windows can be arranged:

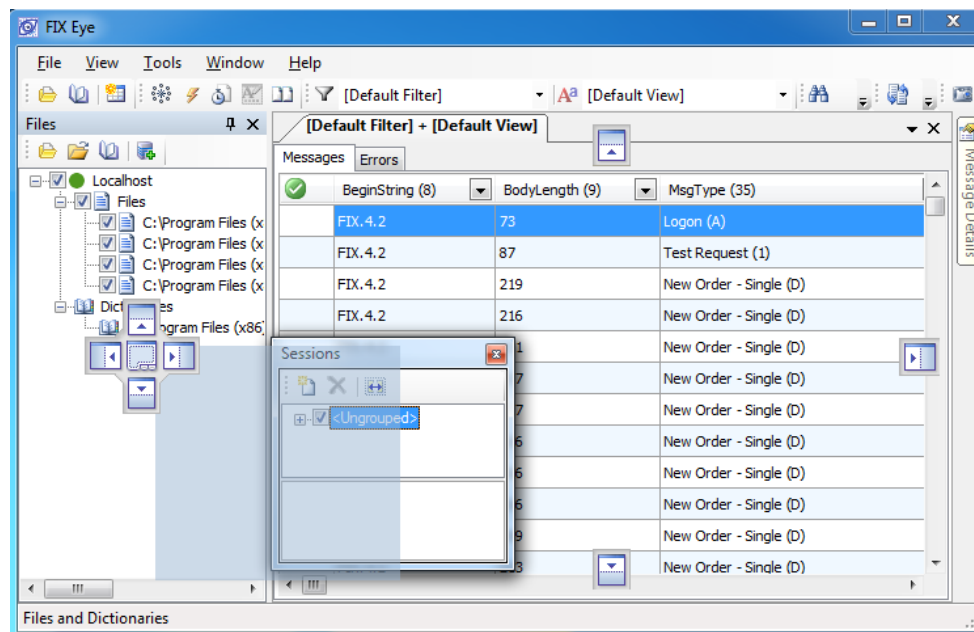
- Tab-dock windows to the search result frame.
- Dock tool windows to the edge of a frame in the FIXEye.
- Float windows over or outside the FIXEye.
- Minimize tool windows along the edge of the FIXEye.



Customizing interface

Tool windows can be docked to one side of a frame in the FIXEye:

- Drag the window toward the middle of FIXEye window. Three arrows appear and point to the three edges of FIXEye window. The diamond only appears when you drag the window toward another tool window.
- When the window you are dragging reaches the location where you want to dock it, the designated area is shaded.
- To dock the window in the position indicated, release the mouse button.



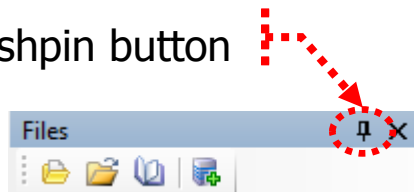
Customizing interface

Tool windows such as **Files** and **Sessions** support a feature named Auto-Hide. When a window is auto-hidden, its name and icon are displayed on a tab at the edge of the FIXEye.

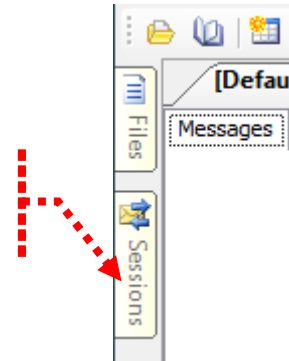
To turn on Auto-Hide:

- Click the tool window you want to hide.
- Click the pushpin icon on the title bar of the window.

Pushpin button



Window is auto-hidden



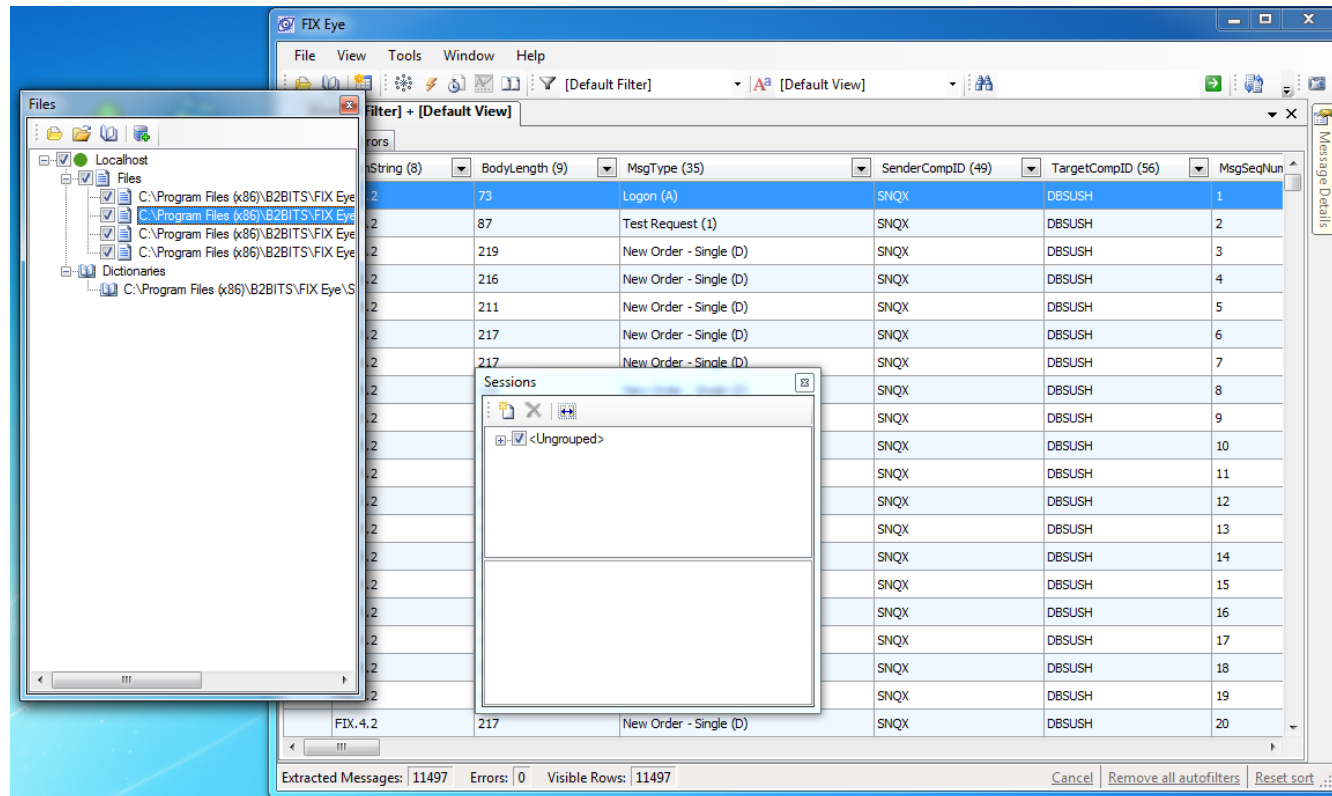
To Turn off Auto-Hide:

- Click the window you want to keep visible.
- Click the pushpin icon on the title bar of the window.

Customizing interface

Tool windows can be undocked from the FIXEye and moved anywhere on the desktop.

- Drag the tool window to the location you want.





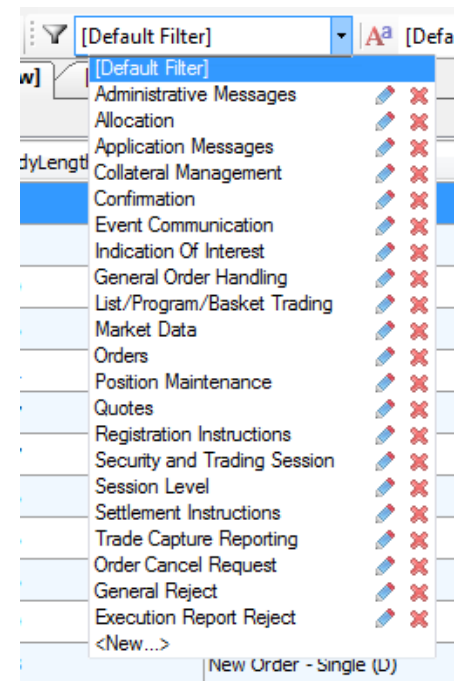
Data filter

You can use different filters to show specific messages only.

- In the **Filter** list, click a filter you want to apply.

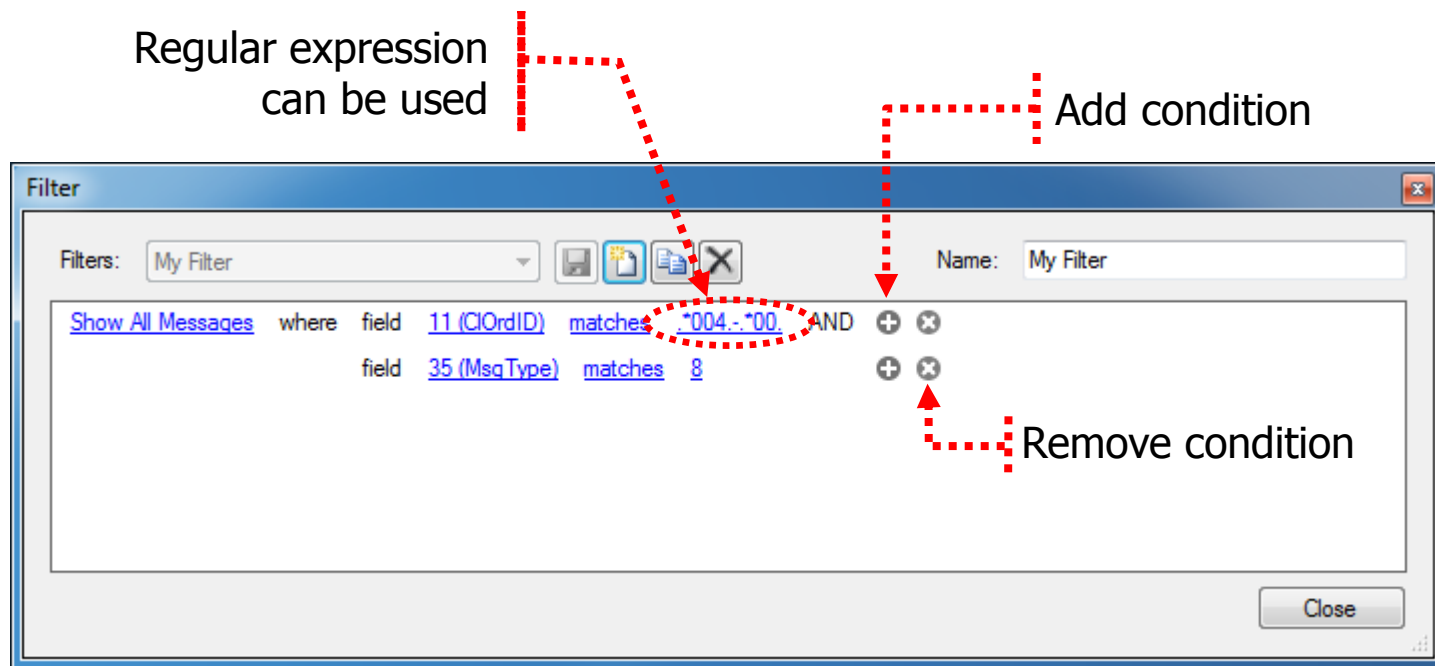
Do one of the following:

- To create a new filter, click **<New>**.
- To modify the selected filter, click .
- To remove the selected filter, click .
- To reset the current filter, click **[Default Filter]**.




Data filter

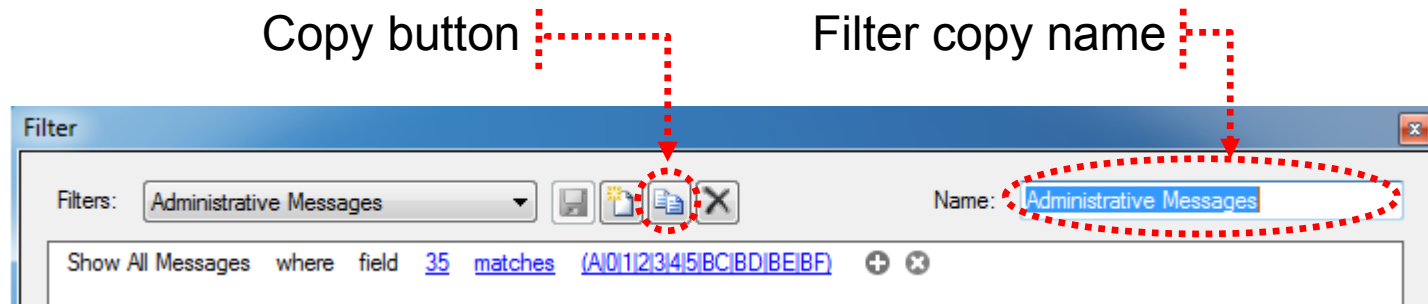
When you are creating a new filter, you may indicate one or more conditions.





Data filter

You can save a back copy of the current filter by clicking  button in the **Filter** window.

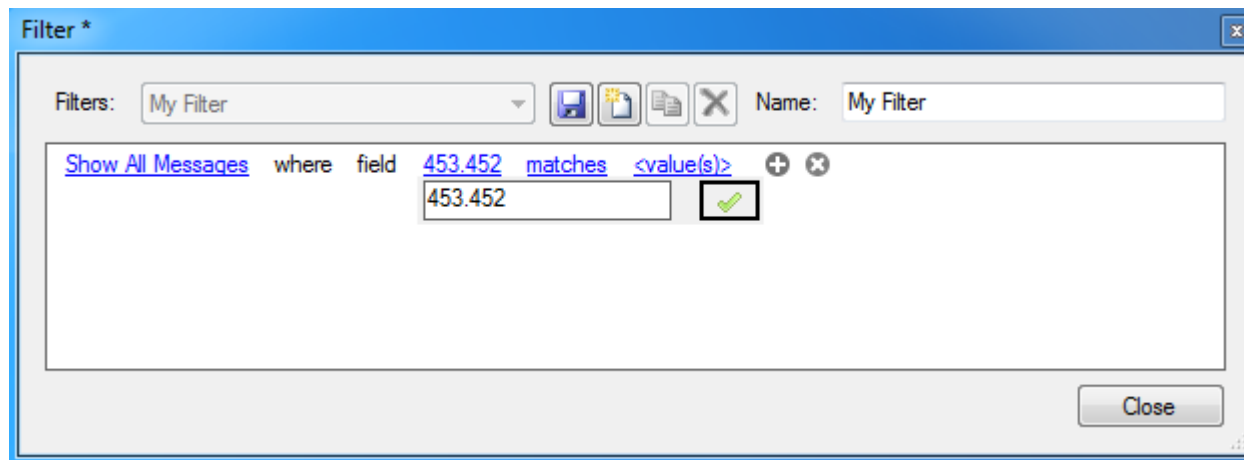




Data filter

You can address a field tag, which is a part of a repeating group while creating a new filter.

- Type a repeating group tag, then type a dot character ".", and a field tag. For example, 453.452 indicates that messages with a repeating group tag of 453 that includes tag of 452 will be filtered.





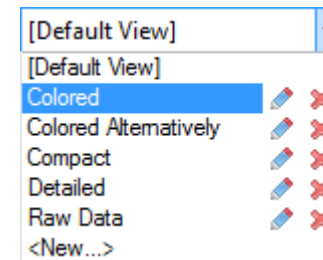
Custom view

You can customize a message view (a set of displayed columns) in the table.

- In the **View** list, click a view you want to apply.

Do one of the following:

- To create a new view, click **<New>**.
- To modify the selected view, click .
- To remove the selected view, click .
- To reset the current view, click **[Default View]**.



Custom view

The “Compact” preset view allows showing messages in a compact form, i.e. numbers for tags and values without description.

The “Detailed” preset view allows showing maximum information about messages. All tag names except service fields are displayed and all field values are described.

The “Raw Data” preset view allows displaying messages in their raw view, i.e. as a row of symbols.

| Raw FIX Message |
|--|
| 8=FIX.4.2 9=277 35=8 49=DBSUSH 56=SNQX 34=41 43=N 52=20080109-13:33:03 37=ONAN |
| 8=FIX.4.2 9=281 35=8 49=DBSUSH 56=SNQX 34=42 43=N 52=20080109-13:33:03 37=ONAN |
| 8=FIX.4.2 9=281 35=8 49=DBSUSH 56=SNQX 34=43 43=N 52=20080109-13:33:03 37=ONAN |

Custom view

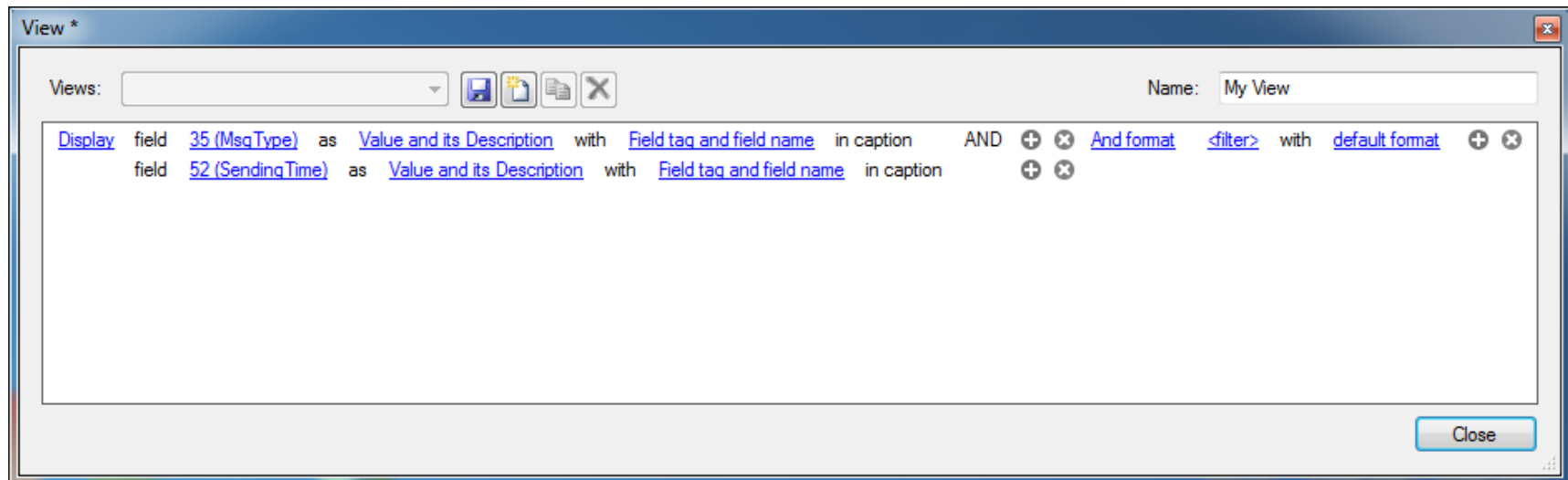


The “Colored” preset view allows displaying messages in different colors, i.e. a particular color is assigned to every message type, to facilitate visual perception of table data.

| Messages | Errors | | |
|-----------------|----------------|------------------------|----------|
| BeginString (8) | BodyLength (9) | MsgType (35) | SenderCo |
| FIX.4.2 | 73 | Logon (A) | SNQX |
| FIX.4.2 | 87 | Test Request (1) | SNQX |
| FIX.4.2 | 219 | New Order - Single (D) | SNQX |
| FIX.4.2 | 216 | New Order - Single (D) | SNQX |
| FIX.4.2 | 211 | New Order - Single (D) | SNQX |
| FIX.4.2 | 217 | New Order - Single (D) | SNQX |


Custom view

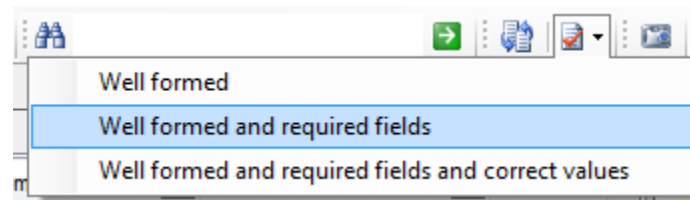
When you are creating a new view, you may indicate one or more conditions. Use **+** to add fields and formatting rules and **x** to delete them.



Message validation

You can validate messages in the table against FIX rules.

- Click  and choose the validation that you want.




There are 3 levels of validation:

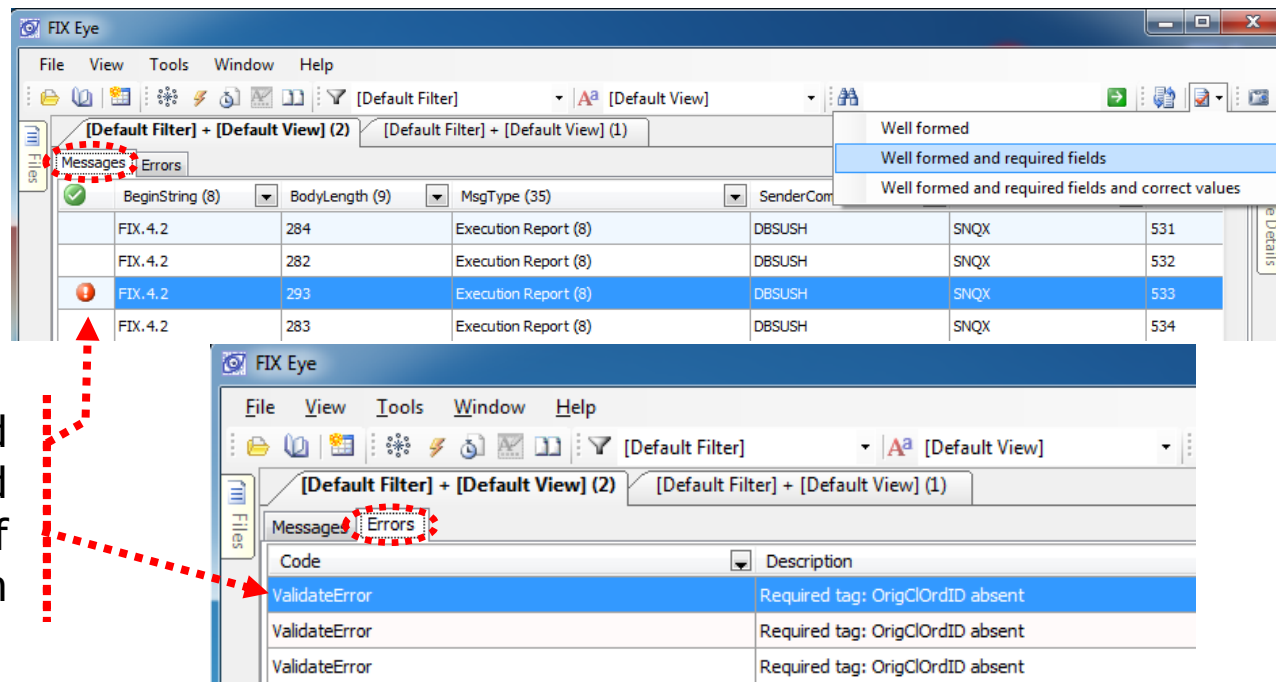
- Well formed – message length and checksum match the corresponding field values
- Well formed and required fields – the same as above and all mandatory fields are present in a message
- Well formed and required fields and correct values – the same as above, plus message fields have correct values (e.g. numeric field has a numeric value, date field has some sensible date etc)

Message validation

Invalid messages are marked in the table with  icon.

Related error descriptions are placed into Errors tab of this data window.

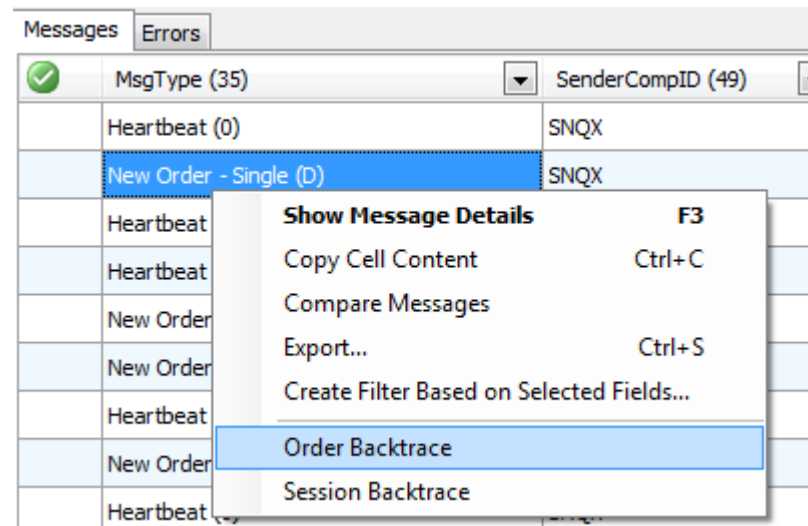
- Double-click the  icon to see the detailed description of an error.



Order backtrace

This feature shows a trade process as a chart of its states defined by related FIX-messages.

- Right-click on the selected message, and then click **Order Backtrace**.



Order backtrace

Click on a message or a state shape to see the related object details.

The diagram shows the following flow:

- SNQX** (Sender CompID) sends a message: "[New Order - Single] 01310-0166-6395-0-01092008 Sell 4 BA @ 0.55 (Limit)".
- The order state transitions to **Pending New 0 / 4 (0)**.
- DBSUSH** (Target CompID) sends a message: "[Execution Report] 001325 : New 0 / 4 @ 0, 0, ?".
- The order state transitions to **New 0 / 4 (4)**.
- SNQX** sends a message: "[Order Cancel/Replace Request] 01363-0166-6395-0-01092008 Sell 4 BA @ 0.5 (Limit)".
- The order state transitions to **New 0 / 4 (4)**.
- DBSUSH** sends a message: "[Execution Report] 001479 : Pending Replace (e.g. result of Order Cancel/Replace Request) 0 / 4 @ 0, 0, ?".
- The order state transitions to **Pending Replace (e.g. result of Order Cancel/Replace Request) 0 / 4 (4)**.
- DBSUSH** sends a message: "[Execution Report] 001480 : Replace 0 / 4 @ 0, 0, Chicago Board Options Exchange".

The **Message Details** pane on the right shows a list of messages with columns: Tag, FieldNo, FieldT, Value, ValueName, Rec. The selected message (Tag 41) is: "Orig... String 01310-...".

The **Order history** table at the bottom shows a list of messages with columns: BeginString (8), BodyLength (9), MsgType (35), SenderCompID (49), TargetCompID (56). The selected message (Tag 41) is: "FIX.4.2 238 Order Cancel/Replace Request (G) SNOX DBSUSH".

Labels and arrows on the left side of the diagram:

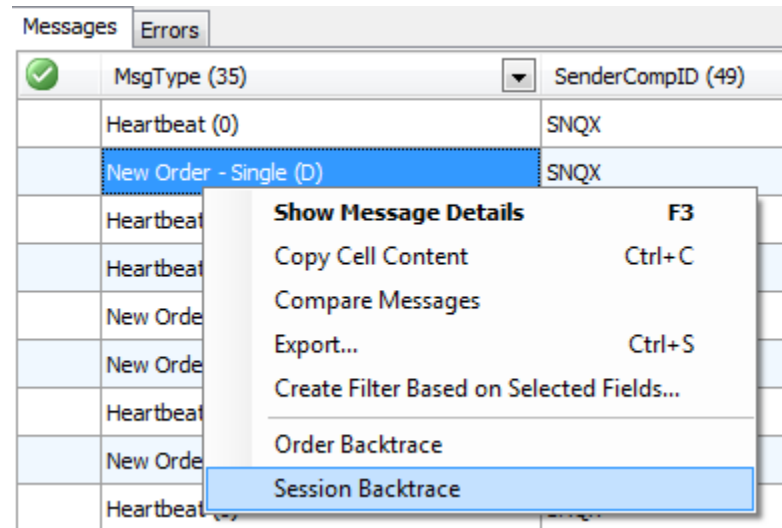
- CIOrdID**: Points to the top of the diagram.
- Sender CompID**: Points to the SNQX box.
- Sent messages**: Points to the messages sent from SNQX.
- Order history**: Points to the bottom table.
- State**: Points to the "Order State" column.
- Target CompID**: Points to the DBSUSH box.
- Message details**: Points to the "Message Details" pane.



Session backtrace

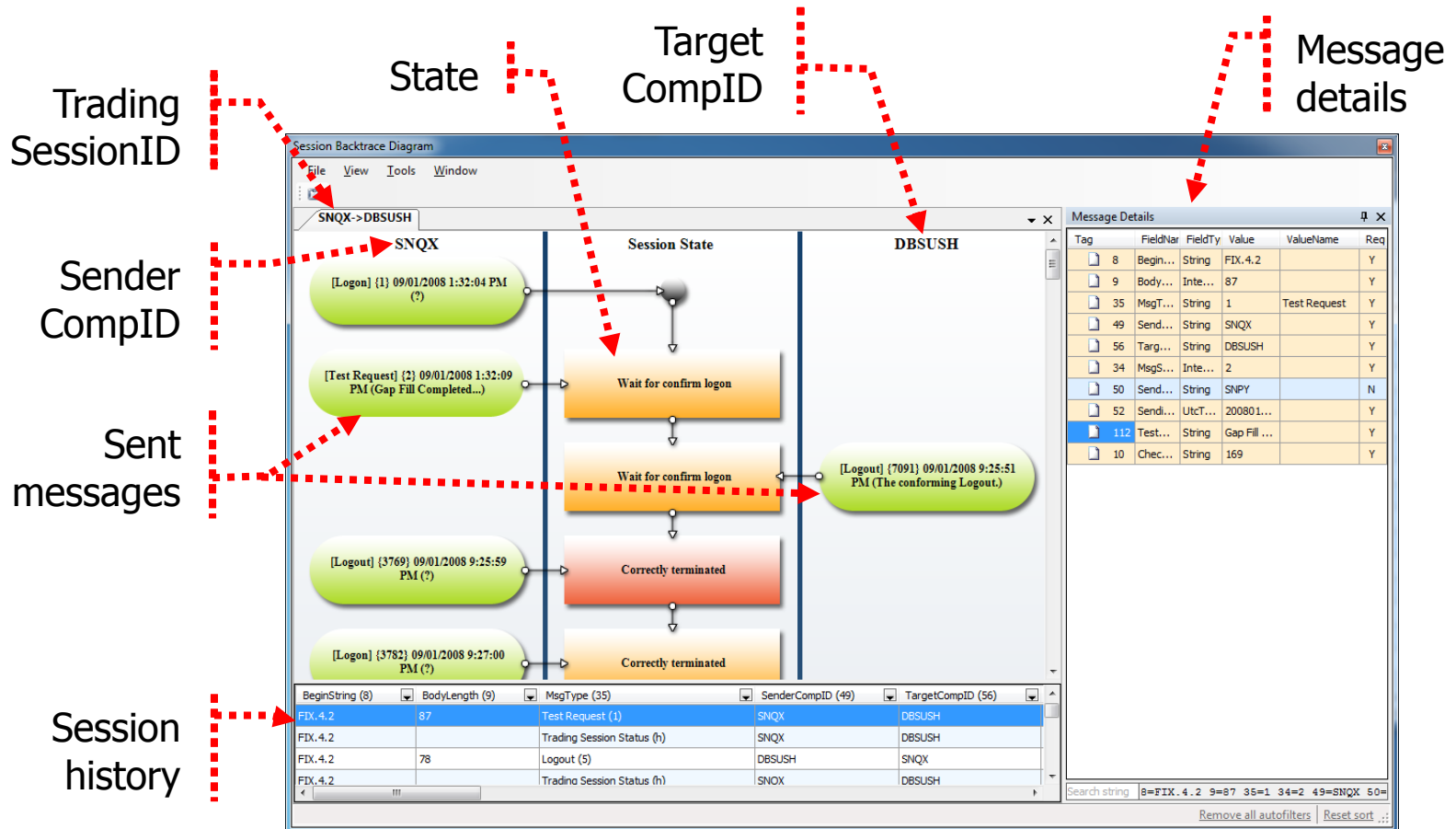
This feature shows a session process as a chart consisting of its states defined by related Logon and Logout messages and Test Requests.

- Right-click on the selected message, and then click **Session Backtrace**.



Session backtrace

Click on a message or a state shape to see the related object details.



Order / Session backtrace

You can customize text displayed in shapes.

- In the **Session Backtrace Diagram** window, on the **Tools** menu, click **Options**.
- In the **Order Backtrace Diagram** window, on the **Tools** menu, click **Options**.

It is possible to create a dedicated string for each message and state type. It is also possible to put a field value into the string.

Diagram Settings

| State Type | Pattern Text |
|------------|--------------------------|
| Order | %39% %14% / %38% (%151%) |
| Session | %58% |
| IOI | %39% %14% / %38% (%151%) |

| Message Type | Pattern Text |
|----------------------------------|---|
| Execution Report (8) | [%35%] %17% : %150% %14% / %38% @ %32%, %31%, ... |
| New Order - Single (D) | [%35%] %11% %54% %38% %55% @ %44% (%40%) |
| Order Cancel/Replace Request (G) | [%35%] %11% %54% %38% %55% @ %44% (%40%) |
| Order Cancel Request (F) | [%35%] %11% |
| Order Cancel Reject (9) | [%35%] for %434%, reason: %102% (%58%) |
| Logon (A) | [%35%] (%34%) %52% (%58%) |
| Logout (5) | [%35%] (%34%) %52% (%58%) |
| Test Request (1) | [%35%] (%34%) %52% (%112%) |
| * | |

field50271 (50271) [Insert] [OK] [Cancel]

List of FIX-message types

List of FIX-field types

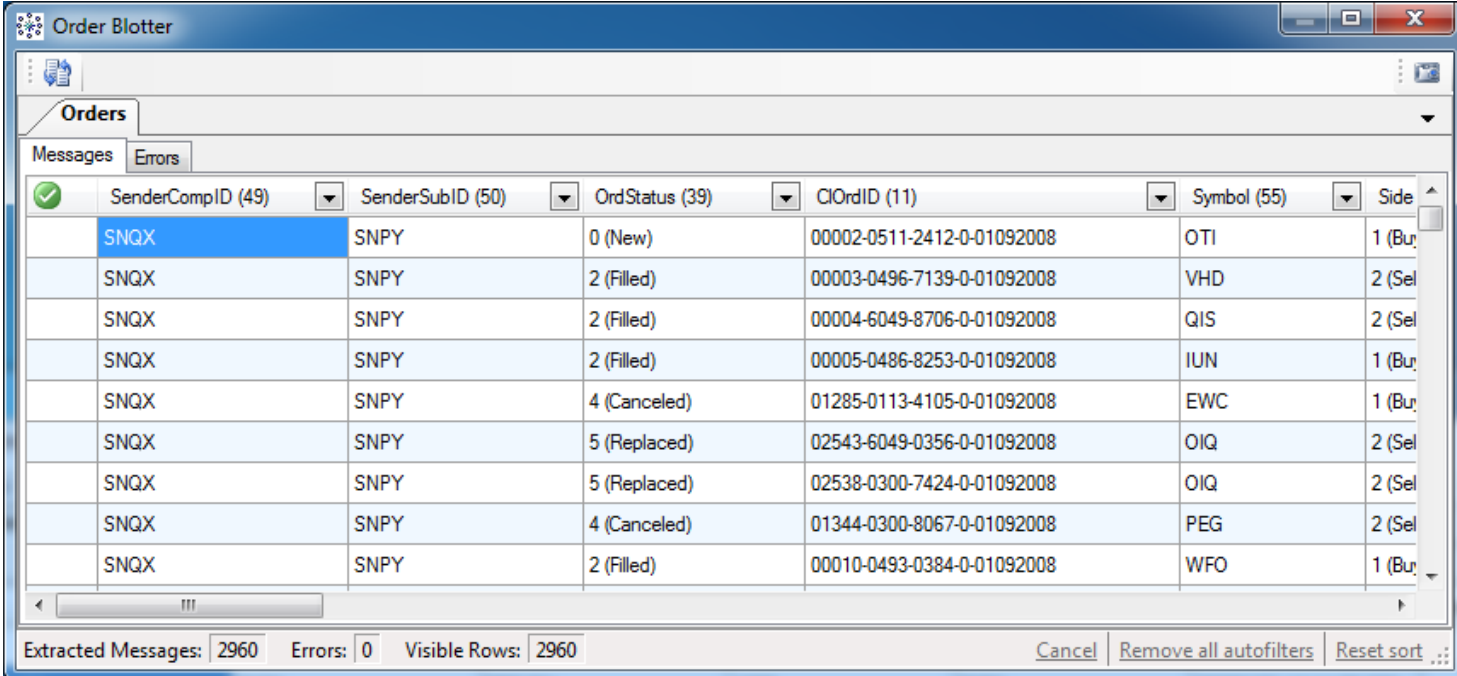
Use %<tag>% string to address a specific tag or select a tag from the drop-down list at the bottom of the dialog.

Insert selected field into message / state pattern

Order Blotter

You can check the recent status of orders from the loaded files using Order Blotter.

- On the **Tools** menu, click **Order Blotter**.
- Double-click the selected order to open **Order Backtrace Diagram** window.



The screenshot shows the Order Blotter window with a table of orders. The table has columns for SenderCompID (49), SenderSubID (50), OrdStatus (39), ClOrdID (11), Symbol (55), and Side. The first row is selected, showing an order for SNQX with status '0 (New)' and symbol OTI.

| SenderCompID (49) | SenderSubID (50) | OrdStatus (39) | ClOrdID (11) | Symbol (55) | Side |
|-------------------|------------------|----------------|----------------------------|-------------|----------|
| SNQX | SNPY | 0 (New) | 00002-0511-2412-0-01092008 | OTI | 1 (Buy) |
| SNQX | SNPY | 2 (Filled) | 00003-0496-7139-0-01092008 | VHD | 2 (Sell) |
| SNQX | SNPY | 2 (Filled) | 00004-6049-8706-0-01092008 | QIS | 2 (Sell) |
| SNQX | SNPY | 2 (Filled) | 00005-0486-8253-0-01092008 | IUN | 1 (Buy) |
| SNQX | SNPY | 4 (Canceled) | 01285-0113-4105-0-01092008 | EWC | 1 (Buy) |
| SNQX | SNPY | 5 (Replaced) | 02543-6049-0356-0-01092008 | OIQ | 2 (Sell) |
| SNQX | SNPY | 5 (Replaced) | 02538-0300-7424-0-01092008 | OIQ | 2 (Sell) |
| SNQX | SNPY | 4 (Canceled) | 01344-0300-8067-0-01092008 | PEG | 2 (Sell) |
| SNQX | SNPY | 2 (Filled) | 00010-0493-0384-0-01092008 | WFO | 1 (Buy) |

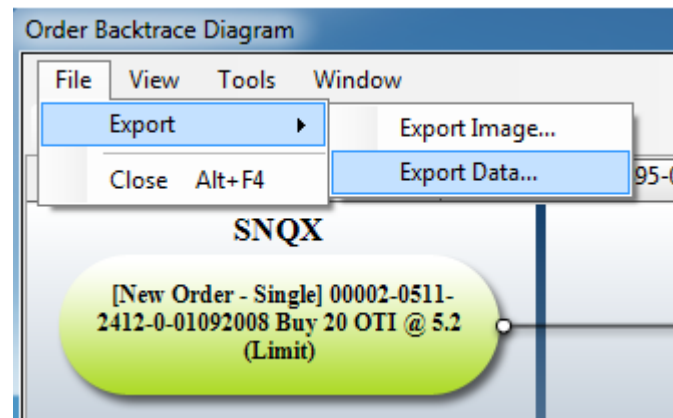
Extracted Messages: 2960 Errors: 0 Visible Rows: 2960 [Cancel](#) [Remove all autofilters](#) [Reset sort](#) ...



Exporting backtrace data

You can export data from Order and Session Backtrace diagrams as an image or a plain text.

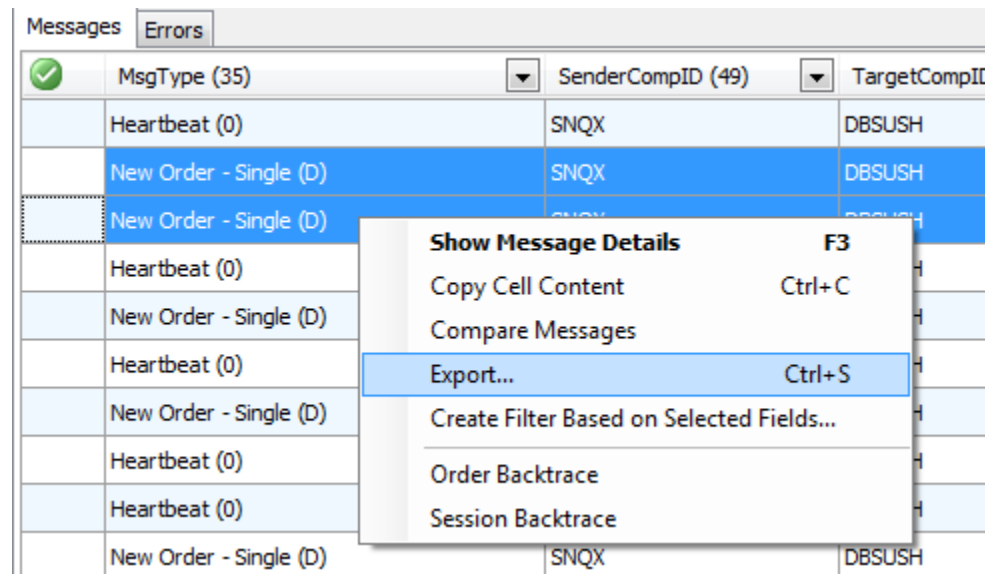
- In the **Order Backtrace Diagram** or **Session Backtrace Diagram** window, on the **File** menu, point to **Export**, and then click **Export Data** if you want to save messages in text format or click **Export Image** if you want to save a diagram.



Exporting table data

You can export table data to a separate text file (.csv or .fix)

- Select rows in the table.
- Right-click the selected rows, and then click **Export**.



FIXEye

Getting Started: The Guide

Further information on the product is available
at: www.b2bits.com
Contact manufacturer: sales@b2bits.com