

Glazed Lists: ListEventPublisher Fails With EventThreadProxy

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Since the EventThreadProxy is not an EventList itself, its dependencies are not managed by the ListEventPublisher. The 'managed' dependencies are shown in red, whereas the unmanaged dependencies are shown in blue.

Since the blue dependencies are unmanaged, the ListEventPublisher fails to guarantee that the selected artists list is updated before the list of records filtered by artist. So when the records, filtered by artist list is updated, it checks its selected artists dependency. This dependency has not yet been updated and is in an inconsistent state.

The resolution to this problem is to replace the EventThreadProxy with a proper EventList that maintains a complete copy of its source EventList. This EventList will always be in a consistent state, even though that consistent state may be out-of-date while the Swing thread is waiting for notification. This out-of-date period will last only a few milliseconds.

