

FIX Antenna HFT Release Notes

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FIX Antenna HFT 1.0.13 - FA 2.9.51 Release Notes

FIX Antenna HFT 1.0.13 based on FIX Antenna 2.9.51.213 released on 3rd of April 2019

Breaking changes:

- Library for platform RHEL 6 using C++ 98 ABI is deprecated and will be removed from the package starting next release
- Restored FIX-Protocol compatibility when a session is terminated if re-transmitted [GapFill \(35=4\)](#) message does not have [PossDup flag \(43=Y\)](#). The previous behavior can be enabled with the following configuration set:

engine.properties

```
AllowMessageWithoutPossDupFlag = true
AllowGapFillWithoutPossDupFlag = true
```

- Rejected messages are not filtered out and replaced with gap-fill messages in resend request replies.

 The counterparty now is responsible for increment sequence numbers in case of rejecting invalid messages in order to prevent endless resending.

- Changed naming convention `libV12-gcc63-MD-x64.so` `libV12-gcc52-MD-x64.so`.

 The C++11 ABI is compatible with GCC 5.x and above so library can be used with any GGC newer 5.1.

The libraries `libV12-gcc48-MD-x64.so` and `libV12-gcc44-MD-x64.so` are considered as deprecated. Support C98 Standard and Red Hat 6 platform will be discontinued in one of the next releases.

- (SD4906754) [Engine::SessionsManager::onIncomingConnection](#) callback API has been extended with delivering the port number for accepted connection.

 The method signature was changed. User's application modification is required.

New Features and Improvements

- Added a new session property [AllowGapFillWithoutPossDupFlag](#) to support some exchanges that stepping aside from FIX protocol restrictions and sending [GapFill \(35=4\)](#) messages without [PossDup flag \(43=Y\)](#) and avoid such sessions termination.
- Add smart delay balancing logic to avoid wrong unsuccessful attempts of system calls to map cache of [persistentCached storage](#) type in case of very large log files being opened simultaneously.
- Speedup detection of corrupted storages
- (SD4906754) Added public API methods: [FAProperties::getListenPorts\(\)](#), [FixEngine::getListenPorts\(\)](#) which returning a list of ports for acceptors.
- (SD4906754) Added public API methods: [FAProperties::getNonAccelListenPorts\(\)](#), [FixEngine::getNonAccelListenPorts\(\)](#) which returning a list of ports for acceptors using non-accelerated dispatcher.

 The list of non-accelerated ports is used only when [OpenOnload accelerated dispatcher](#) is enabled so all ports are accelerated

Critical bugs and fixes:

- (SD4998782) Fixed a bug when the engine can try to close random file descriptors at destroying.
- Fixed a bug when the engine stops sending heartbeats to all sessions if one session is locked e.g. due to long processing of the resend request message.
- Fixed a bug when any resend requests processing takes too much time (several seconds) on the large FIX-messages storages (about 10 GB).

Logging improvements:

- (SD4906754) A log record about incoming connection event has been extended with ip and port that have accepted the connection

text has been changed:	
Previous message	<severity> <timestamp> <thread> [Engine] - New incoming connection was detected (from <target ip>:<target port>).
Current message	<severity> <timestamp> <thread> [Engine] - New incoming connection was detected (from <target ip>:<target port> to <local ip>:<local port>).

Known issues

- New Incoming connection event is raised on any small amount of received data (e.g. even 1 byte)
- [OpenOnload accelerated dispatcher](#) and standard dispatcher act differently if an incoming invalid message has sequence lower than expected. Standard dispatcher disconnects sessions according to FIX-protocol recommendations but OpenOnload accelerated dispatcher keeps the session alive.

FIX Antenna HFT 1.0.11 Release Notes

FIX Antenna HFT 1.0.11 released on 13 April 2018

New Features and Improvements:

- Search in the [FIX Antenna HFT Programmer's Guide](#) has been added

The following bugs have been fixed:

- Failures on flushing session log cache lead to FIX Engine termination
- Session picks up logs of previous year instead of the latest logs from the log directory
- EchoServer sample: engine.log contains messages without logging level and spaces

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New Features and Improvements

- Allowed to pause/resume session socket reading to prevent overload on the application side, see "Router" sample for more details.
- Introduced a new callback `Engine::Application::onSessionLevelRejectEvent` used for passing `FIXMessageProcessElem` flags to `LiteFixMessageRejects (35=3)`, see "Router" sample for more details.
- Added error message in the log file for the case when `PossDupFlag(43)` is required but absent in the incoming message.

Critical bugs and fixes

The following bugs have been fixed:

- Session onLogout callback is called twice in some cases
- Timer thread sometimes doesn't call `ThreadPool::Listener::onNewThreadCreated()` (callback that allows a user to setup thread affinity)
- `canThrottle` flag is always set to "false"

FIX Antenna HFT 1.0.8 Release Notes

FIX Antenna HFT 1.0.8 released on 28 July, 2017

New Features and Improvements

- OpenSSL symbols have been hidden to avoid compatibility issues

Critical bugs and fixes

The following bugs have been fixed:

- TCP reader stops reading in some cases on receiving new connection
- Milliseconds are truncated after serialization for fields with types `UTCTimestamp` and `UTCTimeOnly` when milliseconds value is 000

FIX Antenna HFT 1.0.7 Release Notes

FIX Antenna HFT 1.0.7 released on April 4, 2017

New Features and Improvements

- The "Router sample" has been added to the package
- Some [API functions/parameters](#) have been documented

Critical bugs and fixes

The following bugs have been fixed:

- Processing of garbled messages is incorrect
- Tag 122 in Sequence Reset (4) message should be same as tag 52 (including milliseconds)
- A session is hanging on receiving non-valid Logon message