FIX Repository Introduction

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Overview

- What is the Repository

- Current use cases

- Motivation for creating Repository

- Future directions

What is the FIX Repository

- The Repository contains meta-information about the FIX Protocol in machine readable format (XML)

  - <Fields>
    <Tag>**6**</Tag>
    <FieldName>**AvgPx**</FieldName>
    <Type>**Price**</Type>
    <Desc>**Calculated average price of all fills on this order. For Fixed Income trades AvgPx is always expressed as percent-of-par, regardless of the PriceType (423) of LastPx (31). I.e., AvgPx will contain an average of percent-of-par values (see LastParPx (669)) for issues traded in Yield, Spread or Discount.**</Desc>
    <AbbrName>**AvgPx**</AbbrName>
    <NotReqXML>**0**</NotReqXML>
    </Fields>

Repository Uses

- Today
  - FIX Specification
  - FIXimate
  - FIX Wiki

- Future
  - Binary (HFT, ASN.1) protocol translation
  - Test Automation
  - Multi language specifications
  - Other embedded applications

Who can use it

- It can be used by any FPL member

Why was Repository Created

- Business Problem
  - Too expensive to maintain FIX documentation
    - until FIX 4.4 the specification was maintained manually
    - error prone, especially in message definition tables
- Solution
  - Store definitions in external machine readable format

Evolution

- Originally a single solution for FIX specification generation

- Basis for online tools such as FIXimate and FIXwiki

- Proprietary usage by FPL members

- Currently contains all versions of FIX 4.0+ with extension packs

Current Initiatives

- Rich Text
  - Move more text out of MS Word, into Repository
  - Become multi-lingual
- Protocol Encodings
  - Support ASN.1, HFT, Google protobufs
- Scenarios
  - Machine readable message flows for testing

Q&A