

Global Technical Committee Update –

Thursday 9th March 2023

Hanno Klein

FIX Technical Director
GTC EMEA Co-Chair

Senior Standards Advisor, FIXdom

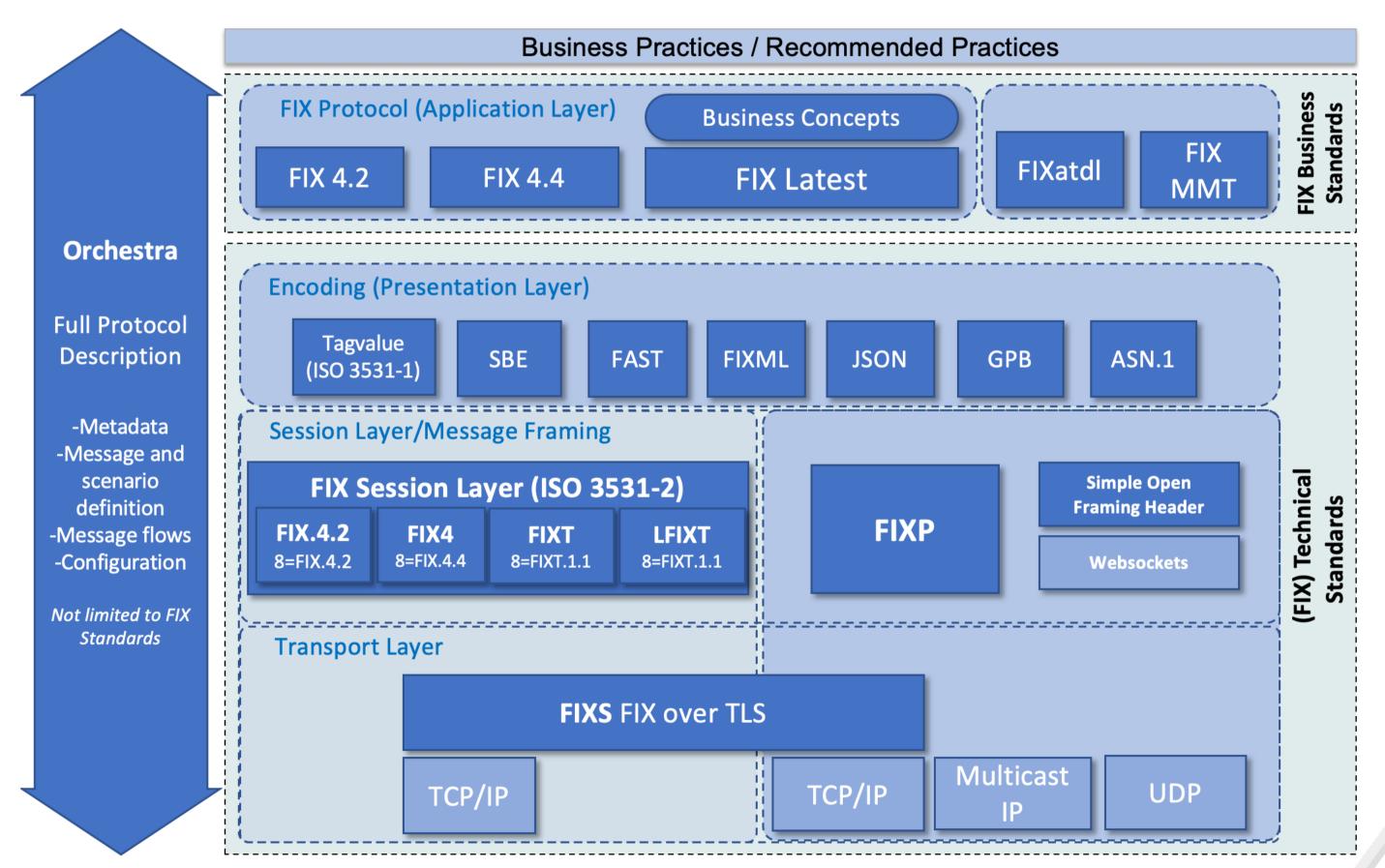


Agenda

- GTC Strategy
 - GTC collaboration
 - New GTC Organisation
- FIX Business Standards
 - Digital Asset Trading
 - Regulatory trade identifiers (UTI/USI)
 - Miscellaneous
- FIX Technical Standards
 - Orchestra v1.1
- FIX Tools
 - Orchestra Server
 - Playlist v1.1



FIX Standards





GTC Update 2023 GTC Strategy

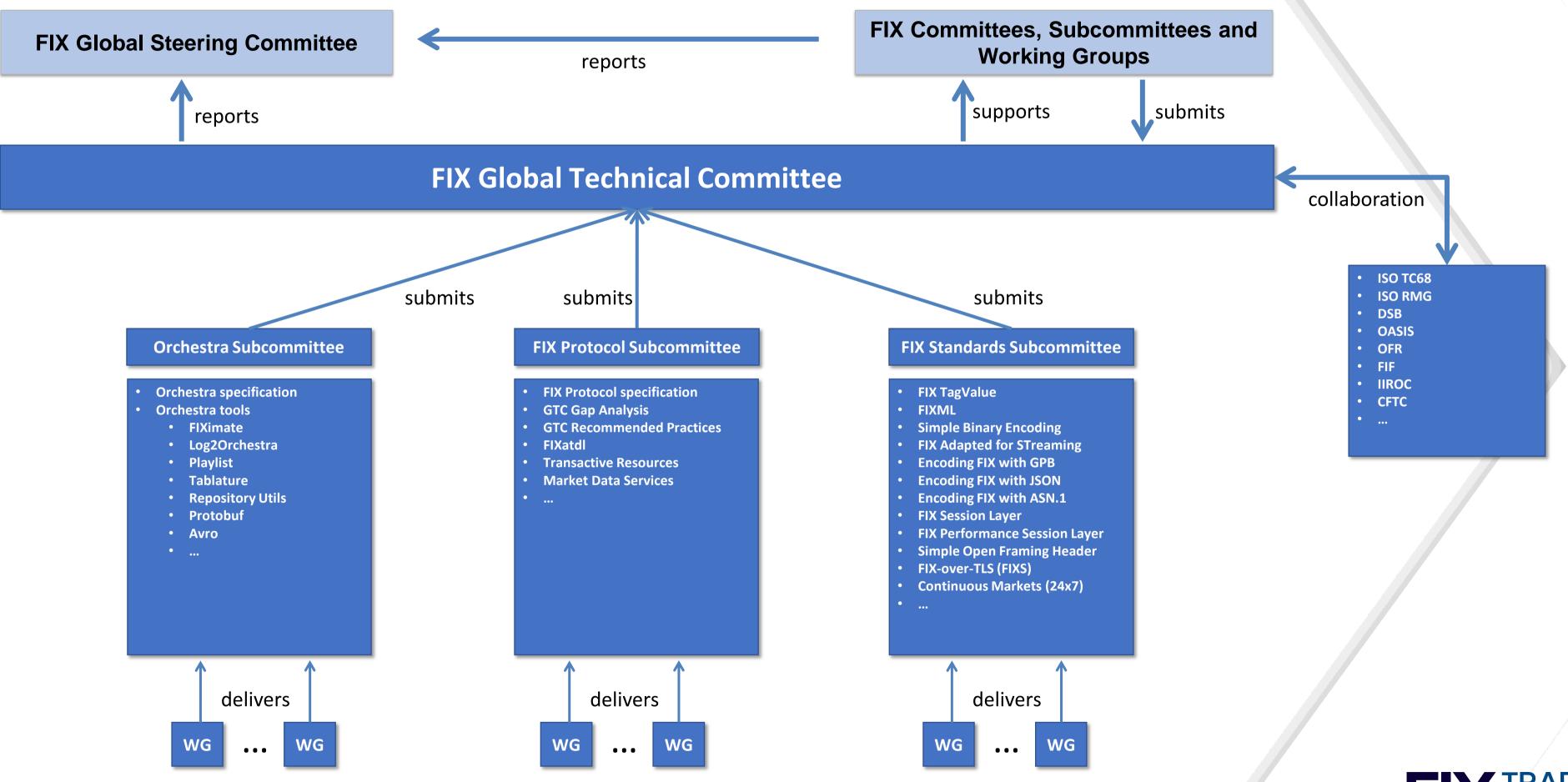


GTC Collaboration

- FIX has contacts to a number of (standards) organizations
 - ISO TC68 Financial Services (chaired by FIX Director Jim Northey https://www.iso.org/committee/49650.html)
 - ISO RMG (Registration Management Group, https://www.iso20022.org/registration-management-group)
 - ASC X9 (Accredited Standards Committee, https://x9.org)
 - DSB (Derivatives Services Bureau, https://www.anna-dsb.com)
 - OFR (Office of Financial Research, https://www.financialresearch.gov)
 - OMG (Object Management Group, https://www.omg.org/)
- Industry collaboration activities
 - FIX is a Liaison A organization to ISO TC68/SC8 and SC9 and participates in multiple working groups
 - FIX participates in selected ISO RMG (Sub)SEGs (Standards Evaluation Groups) and is the secretary
 of the ISO RMG Derivatives SubSEG
 - FIX is a Category A member of ASC X9
 - FIX participates in the DSB Products Committee and is a member of the Technical Advisory Committee
 - FIX has provided reference data as Orchestra XML files to the FIRD (Financial Instrument Reference Data)
 database published by OFR



New GTC Organisation



TRADING COMMUNITY INDUSTRY-DRIVEN - INDEPENDENT - NEUTRAL

New GTC Organisation

- Permanent subcommittees for key areas
 - 3 subcommittees: Orchestra, FIX Protocol, FIX Standards
 - A subcommittee has one or two co-chairs and one associated GTC co-chair
 - Subcommitees maintain (temporary) working groups to produce specific deliverables for GTC submission, supported by GTC resources
- Working Groups for the extension of FIX Standards
 - Created with the objective of a specific deliverable for a new version of a FIX Technical Standard or for a related recommended practice document.
 - Report into a GTC subcommittee on a regular basis
 - Only need to exist until the deliverable has been published



GTC Update 2023
FIX Business Standards



FIX Business Standards

- Digital Asset Trading (EP273)
 - Standardisation for trading of digital assets (cryptocurrencies like Bitcoin and any kind of digital tokens).
 - Support for two different trading styles:
 - FX-style currency pairs (e.g. BTC/USD, BTC/ETH) of fiat and/or digital currencies
 - Securities-style for trading any digital asset, priced and/or settling in either a fiat or digital currency
 - Security identifiers for digital assets
 - New SecurityIDSource(22)=Y (Digital Token Identifier ISO 24165)
 - Use of SecAltIDGrp to identify the currencies for FX-style trading (new field SymbolPositionNumber(2957) to reference the first or second currency or digital asset in Symbol(55))
 - Currency source schemes
 - Addition of ISO 24165 to currency datatype (previously only ISO 4217)
 - New fields, e.g. CurrencyCodeSource(2897), to identify class or source of currency



FIX Business Standards

- Regulatory Trade Identifiers (EP275)
 - Update to the CFTC Parts 43 and 45 reporting technical specification requirements, where both the Unique Swap Identifier (USI) and Unique Transaction Identifier (UTI) can be used for reporting purposes to the CFTC.
 - Support for UTI (ISO 23897)
 - New value 1=UTI for RegulatoryTradeIDSource(1905) to explicitly indicate that RegulatoryTradeID(1903) contains a UTI
 - Continued support for USI (CFTC standard)
 - RegulatoryTradeID(1903) for the USI transaction identifier
 - RegulatoryTradeIDSource(1905) for the namespace of the entity creating the USI



FIX Business Standards

Miscellaneous

- Recommended Practices for Digital Asset Trading
 - https://www.fixtrading.org/packages/recommended-practices-for-digital-asset-trading/
 - Contains a PDF document and a machine-readable version (Orchestra XML file)
- EP274 Anonymous Trade Indicator
 - New field AnonymousTradeIndicator(2961) to support CFTC regulatory requirement for trade reporting of swaps into a Swaps Data Repository (SDR)
- EP276 Securities Reference Data Supplement
 - New field SecurityReferenceDataSupplement(2962) to support the unique identification of derivative instruments where the security identifier and core reference data attributes are not sufficient
- EP2xx MMT v4.0 Support (work in progress)
 - Support changes required after ESMA review of RTS 1 and RTS 2 (e.g. post-trade flags)
- See https://www.fixtrading.org/extension-packs/ for EP details
- Market Model Typology Version 4.0 (see separate session)



GTC Update 2023 FIX Technical Standards



FIX Technical Standards

- Orchestra v1.1 under development
 - Orchestra is a meta-data <u>standard</u> and v1.0 was published in Feb 2021
 - FIX Latest published as XML file compliant with Orchestra v1.0 since EP255
 - Comprehensive set of features provided with Orchestra v1.0
 - Messages, groups, components, fields, code sets, code values, datatypes
 - Scenarios for messages all the way down to code sets
 - Conditional rules for field presence
 - Actors, workflows and state machines
 - Enhancements for Orchestra v1.1
 - Scenarios for datatypes, e.g. "int" with scenarios for short and long integers
 - Centralize declarations of scenarios as 1st level elements with unique IDs
 - Base field to identify a related field (e.g. non-encoded field related to encoded field)
 - Annotations for top-level elements, e.g. categories and sections
 - See GitHub (<u>https://github.com/donmendelson/fix-orchestra</u>) for details

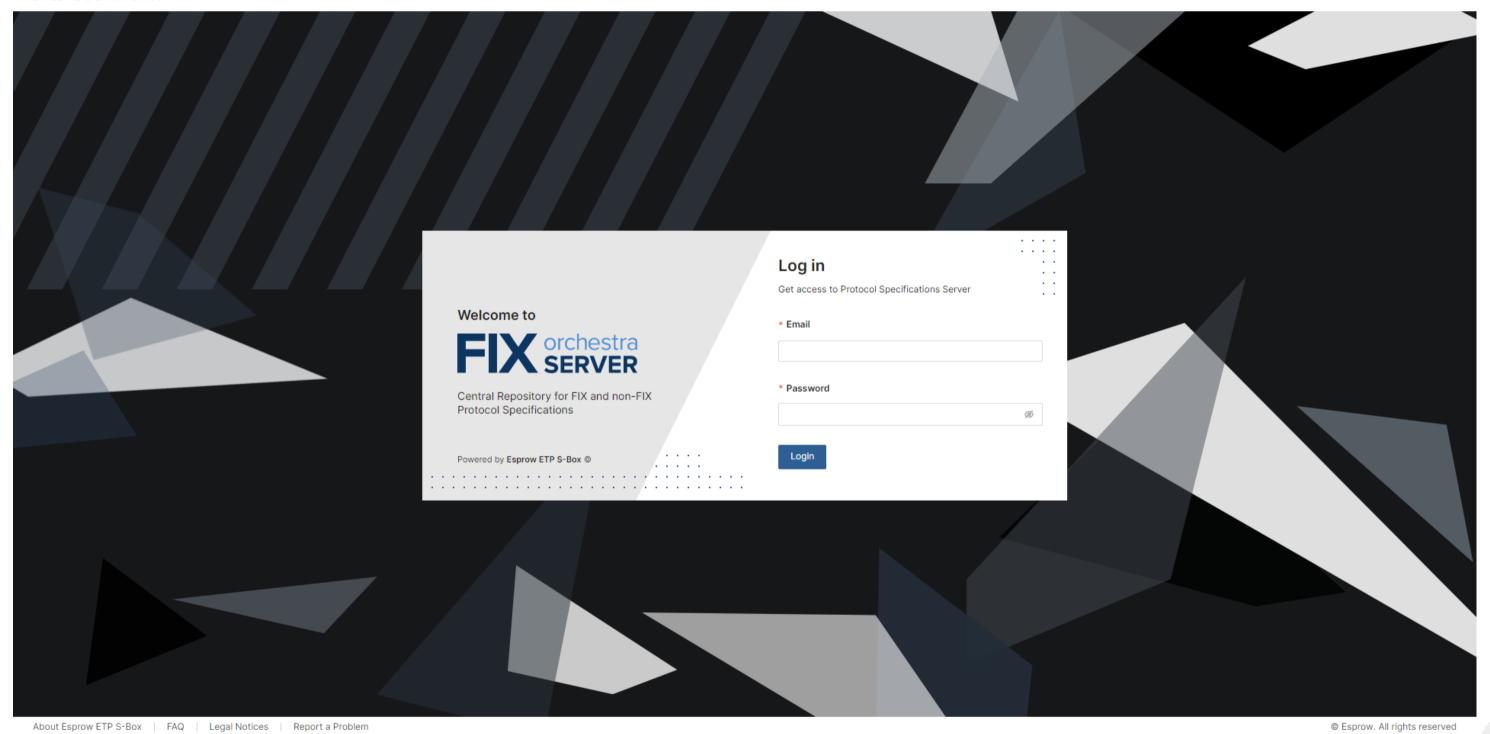


GTC Update 2023 FIX Tools



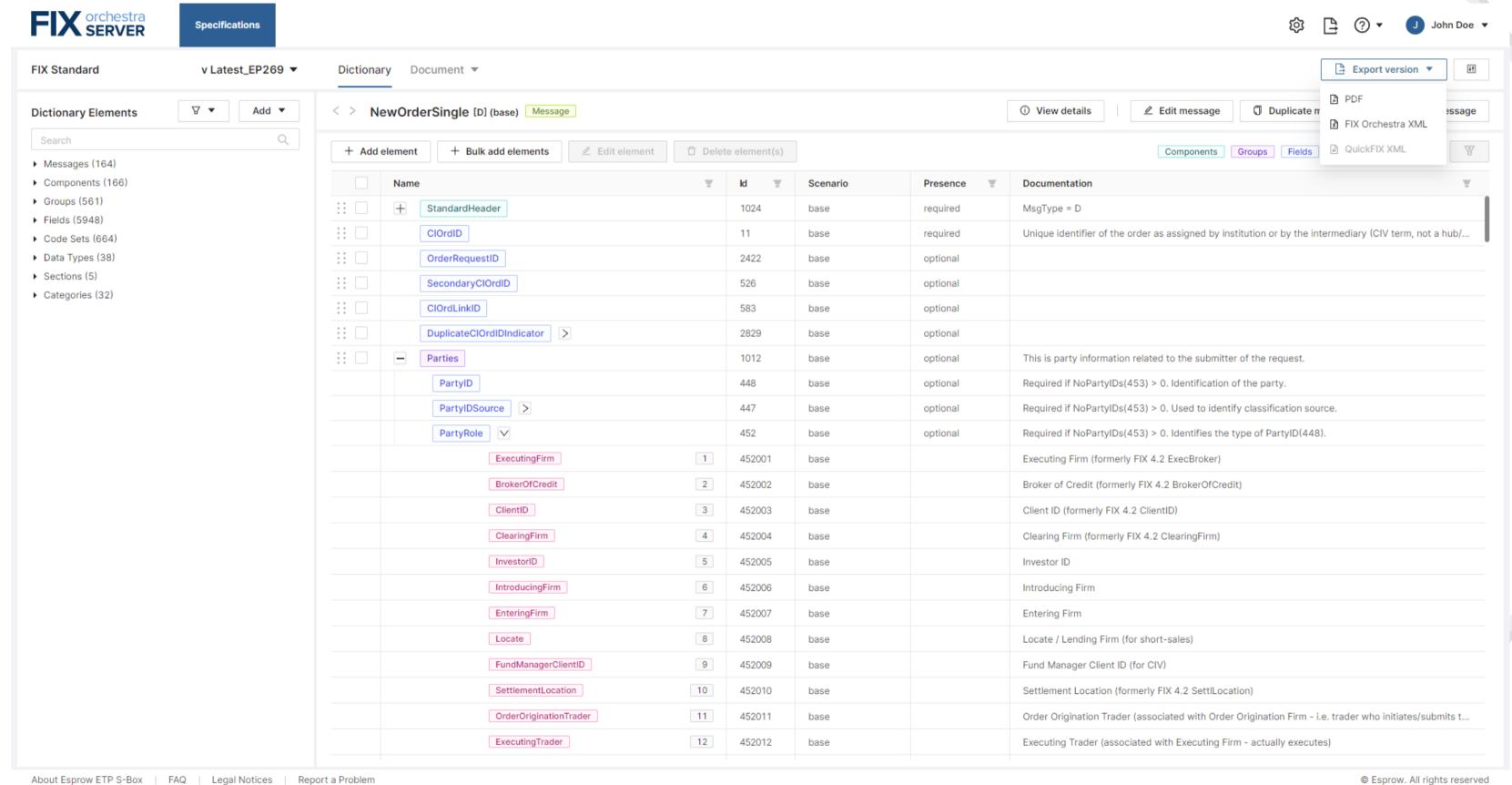
FIX Tools - Orchestra Server

FIX TRADING COMMUNITY"





FIX Tools - Orchestra Server



INDUSTRY-DRIVEN • INDEPENDENT • NEUTRAL

FIX Tools - Orchestra Server

- Orchestra Server creates rules of engagement documentation (PDF) together with its Orchestra representation (XML)
 - Visualisation and maintenance of Orchestra XML files
 - Comprehensive interactive capabilities to easily define and annotate messages, repeating groups, components, fields, and values.
 - Use FIX Latest or your own Orchestra files as starting point
 - Add your user-defined elements
 - Included in the FIX membership
 - Based on the ETP S-Box service from Esprow

See https://www.fixtrading.org/packages/orchestra-factsheet/ for details.



FIX Tools - Playlist v1.1

FIX Playlist

Creates a subset of an Orchestra file



Input

Source Orchestra file



brag me to read e

Choose File

FIX Standard

OrchestraFIXLatest.xml

Use Selector File

Clear Input File

Select Your Content

(All elements sorted alphabetically. Greyed out items are deprecated)

+ MESSAGES	
+ GROUPS	
+ COMPONENTS	
- FIELDS	
+ Tags 1-999	
+ Tags 1000-1999	
+ Tags 2000-2999	
+ Tags 40000-49999	
+ CODESETS	
+ DATATYPES	

Output

Create Orchestra file

User Guide

Terms of Service

BookingUnit(590) - Type BookingUnitCodeSet CancellationRights(480) - Type CancellationRightsCodeSet CashMargin(544) - Type CashMarginCodeSet ✓ ClOrdID(11) - Type String ClOrdLinkID(583) - Type String ClearingAccountType(1816) - Type ClearingAccountTypeCodeSet ClearingFeeIndicator(635) - Type ClearingFeeIndicatorCodeSet CommissionData - Component CommissionDataGrp - Group ComplianceID(376) - Type String ComplianceText(2404) - Type String ContraOrderOrigination(2882) - Type OrderOriginationCodeSet ContraRoutingArrangmentIndicator(2884) - Type RoutingArrangmentIndicatorCodeSet CopyMsgIndicator(797) - Type Boolean CoveredOrUncovered(203) - Type CoveredOrUncoveredCodeSet ✓ Currency(15) - Type Currency Select FIX Standard File FIX44Session.xml FIXTSession.xml OrchestraFIX42.xml OrchestraFIX44.xml OrchestraFIXLatest.xml CANCEL

- NewOrderSingle(35=D)

Account(1) - Type String

AllocID(70) - Type String

AccountType(581) - Type AccountTypeCodeSet

AuctionAllocationPct(1804) - Type Percentage

AuctionType(1803) - Type AuctionTypeCodeSet

BookingType(775) - Type BookingTypeCodeSet

AuctionInstruction(1805) - Type AuctionInstructionCodeSet

AcctIDSource(660) - Type AcctIDSourceCodeSet AffiliatedFirmsTradeIndicator(2525) - Type Boolean



FIX Tools – Playlist

- Second release of Playlist (FIX members only)
 - Generates a base Orchestra XML file from an input Orchestra reference file loaded into your local browser
 - Web-based visualisation of input file with check boxes for selections of messages, groups, components, their fields and values of these fields
 - New version 1.1 published November 2022
 - Direct access to standard FIX Orchestra XML files from GitHub (e.g. FIX Latest)
 - Optional selector file to preselect check boxes of reference file
 - Use case: minor extensions of an existing Orchestra XML file
 - Possibility to load multiple selector files (create superset of subsets)

