

FIX Global Technical Committee

Extensions for CAT – Update

September 17, 2020

Revision 0.2

Proposal Status: Public Review

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# Document History

| **Revision** | **Date** | **Author** | **Revision Comments** |
| --- | --- | --- | --- |
| 0.1 | Sep 10, 2020 | GTC, Hanno Klein | Initial Draft |
| 0.2 | Sep 17, 2020 | GTC, Hanno Klein | Updates after GTC call   * Add field usage text for ExecID(17) and ExecRefID(19) to clarify source of information. * Enhance elaborations of TrdRegPublicationType(2669) to reference regulatory context (CAT) |
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The above document history section, including date, author, and comments, is required to track editing changes to the document. List revisions in **ascending order**. Please insert additional rows in the table as needed.

Template version information:

r2: 2010-11-13 Revised to support abbreviations, inlined component references

r3: 2011-12-02 Revised to add additional usage clarification

r3.1: 2013-01-04 Revised Copyright year, changed template to Office 2013 .docx version, updated font to Calibri for cleaner look. Added additional template usage clarification.

R3.2 2016-05-23 – revised the copyright date, corrected document references and replaced the FIX logo with the most current graphic.

2016-09-14 – Removed blue highlighting from hidden text content, removed ICR column from 5.1 and 6.1 tables and added “FIX Spec” to the Comments column header of table 6.1 and revised notation of optional elaboration for fields and enums in the data dictionary.

# Introduction

Provide an introduction to the content, purpose, or impetus of the proposal; the business need / problem being solved; and the scope. Include and label any references, supporting documentation, and related proposals. If the proposal is based on existing implementations, describe them here in the appropriate subsections. It is recommended that a "Summary of Proposed Changes" sub-section be provided within this section.

This gap analysis proposal is a follow up to Extension Pack EP253 *Extensions for CAT/FIX Mapping*. Some of the extensions proposed by the CAT/FIX mapping (<https://www.fixtrading.org/packages/mapping-cat-fix-phase-2a_equities/>) were not included in EP253 and are covered with this proposal.

## Summary of changes

The following changes are made by this proposal.

**Message NewOrderSingle(35=D)**

* Add the component TrdRegPublicationGrp.
* Add the fields TradeReportingIndicator(2524), AffiliatedFirmsIndicator (2525).

**Message ExecutionReport(35=8)**

* Add the fields AffiliatedFirmsIndicator (2525).

**Message TradeCaptureReport(35=AE)**

* Add the fields TradeReportingIndicator(2524), ManualOrderIndicator(1028), ExecRefID(19).

**Field DeskType(1033)**

* Add the value “FB”

**Field TrdRegPublicationType (2669)**

* Amendments to the elaborations of the values added by Extension Pack EP253.

# Business Requirements

Describe the business problem, requirements or workflow that is the source for the proposed changes to the FIX Protocol. The descriptions should help the Global Technical Committee understand the business areas, business requirements that resulted in the proposal and context for the proposal. The descriptions should use business or layman's terms. Business flow diagrams may also be helpful.

## Trade Reporting Indicator

The field TradeReportingIndicator(2524) allows a broker/dealer to instruct if the CAT event should be reported on their OEMS. Retail systems will need this where they have an OEMS to OEMS workflow and have to dictate which OEMS will be reponsible for reporting specific CAT event.

TradeReportingIndicator(2524) is currently only available on the ExecutionReport(35=8) message. The following FIX message types are required for CAT Phase 2A and it is proposed to add this field to them to support the stated CAT event(s).

* **NewOrderSingle(35=D)**, CAT events MECO and MEOR
* **TradeCaptureReport(35=AE)**, CAT events MEOT(S), MEOF, MEFA

## Affiliated Firm Indicator

The field AffiliatedFirmsIndicator(2525) allows to indicate if the CAT routing party is an affiliate of the receiving CAT Industry Member when routing between two IMIDs of the same legal entity, i.e. belonging to the same broker-dealer.

AffiliatedFirmsIndicator (2525) is currently only available on the TradeCaptureReport(35=AE) message. The following FIX message types are required for CAT Phase 2A and it is proposed to add this field to them to support the stated CAT event(s).

* **NewOrderSingle(35=D)**, CAT event MEOR
* **ExecutionReport(35=8)**, CAT events MENO, MEOA

## Manual Order Indicator

The field ManualOrderIndicator(1028) allows to indicate that a CAT event (e.g. order route) did not occur due to an electronic message being sent.

ManualOrderIndicator(1028) is currently not available on the **TradeCaptureReport(35=AE)** message and has previously only been used in the context of orders but not for trades. This is required for CAT Phase 2A and it is proposed to add this field to support the CAT events MEOT, MEOF, and MEFA.

## Receiving Desk Types

The field DeskType(1033) allows to indicate the type of desk or department within the firm that received the order. It is proposed to add the following value required by CAT Phase 2A:

* **FB = Floor Broker**

## Fulfillment Identifiers

Trades that do not require public dissemination, e.g. if the beneficial owner does not change, are defined as *order* *fulfillment events* in CAT as opposed to *trade events*. Identifiers for fulfillments may be amended but then require reporting of the prior fulfillment identifier.

FIX provides the field ExecRefID(19) for this use case but it is currently not available on the **TradeCaptureReport(35=AE)** message. This is required for CAT Phase 2A and it is proposed to add this field to support the CAT event MEFA.

## ATS Display Indicator

CAT requires some additional reporting by alternative trading systems (ATSs). The display indicator allows to indicate if the order is displayed outside of the ATS to subscribers only, or via publicly disseminated quotation data.

FIX provides the repeating group TrdRegPublicationGrp for this use case but it currently not available on the **NewOrderSingle(35=D)** message. This is required for CAT Phase 2A and it is proposed to add this field to support the CAT event MECO.

# Issues and Discussion Points

The information in this section can be presented in table or numbered list format or sub-sections of descriptive text. Include issues and important discussion points that arose during the sub-committee or working group's effort to develop the gap analysis proposal. Also include resolutions of the issues and discussion points. The items will aid in understanding the thought process and tracks for the decisions made.

NONE

# Proposed Message Flow

Discuss the proposed FIX message flow to be used to support the business workflow. Identify existing and new message types at a message name level. Include flow or sequence diagrams to illustrate each flow, including normal, alternative, and exception flows. Create diagrams using either Visio or the drawing tools found in Word and/or PowerPoint, and import into the document in .png (or jpg or gif) format - native formats causes the file size to get very large. Include the native formatted diagram files, e.g. the vsd file for Visio diagrams, etc. in your final proposal submission to the Global Technical Committee.

NONE

# FIX Message Tables

## FIX NewOrderSingle(35=D)

|  |  |  |
| --- | --- | --- |
| To be completed at the time of the proposal – all information provided will be stored in the repository | | |
| Message Name | | NewOrderSingle |
| Message Abbreviated Name (for FIXML) | | Order |
| Category | | (no change) |
| Action | | \_\_New \_X\_Change |
| Message Synopsis | (no change) | |
| Message Elaboration | (no change) | |
| To be finalized by FPL Technical Office | | |
| (MsgType(tag 35) Enumeration | | D |
| Repository Component ID | | 14 |

| *Tag* | *Field Name* | *Req'd* | *Action* | *Mappings and Usage Comments* | *FIX Spec Comments* |
| --- | --- | --- | --- | --- | --- |
| ***Standard Header*** | | Y |  |  | MsgType=D |
| *(…truncated…)* | |  |  |  |  |
| 2882 | RoutingArrangementIndicator | N |  |  |  |
| 2883 | ContraRoutingArrangementIndicator | N |  |  |  |
| 2525 | AffiliatedFirmsIndicator | N | ADD | CAT: affiliateFlag |  |
| 522 | OwnerType | N |  |  |  |
| ***TrdRegTimestamps  component*** | | N |  |  |  |
| ***TrdRegPublicationGrp component*** | | N | ADD | CAT: atsDisplayInd |  |
| 2524 | TradeReportingIndicator | N | ADD |  |  |
| 1815 | TradingCapacity | N |  |  |  |
| *(…truncated…)* | |  |  |  |  |
| ***Standard Trailer*** | | Y |  |  |  |

## FIX Message ExecutionReport(35=8)

|  |  |  |
| --- | --- | --- |
| To be completed at the time of the proposal – all information provided will be stored in the repository | | |
| Message Name | | ExecutionReport |
| Message Abbreviated Name (for FIXML) | | ExecRpt |
| Category | | (no change) |
| Action | | \_\_New \_X\_Change |
| Message Synopsis | (no change) | |
| Message Elaboration | (no change) | |
| To be finalized by FPL Technical Office | | |
| (MsgType(tag 35) Enumeration | | 8 |
| Repository Component ID | | 9 |

| *Tag* | *Field Name* | *Req'd* | *Action* | *Mappings and Usage Comments* | *FIX Spec Comments* |
| --- | --- | --- | --- | --- | --- |
| ***Standard Header*** | | Y |  |  |  |
| *(…truncated…)* | |  |  |  |  |
| 2882 | RoutingArrangementIndicator | N |  |  |  |
| 2883 | ContraRoutingArrangementIndicator | N |  |  |  |
| 2525 | AffiliatedFirmsIndicator | N | ADD | CAT: affiliateFlag |  |
| 522 | OwnerType | N |  |  |  |
| *(…truncated…)* | |  |  |  |  |
| ***Standard Trailer*** | | Y |  |  |  |

## FIX Message TradeCaptureReport(35=AE)

|  |  |  |
| --- | --- | --- |
| To be completed at the time of the proposal – all information provided will be stored in the repository | | |
| Message Name | | TradeCaptureReport |
| Message Abbreviated Name (for FIXML) | | TrdCaptRpt |
| Category | | *(no change)* |
| Action | | \_\_New \_X\_Change |
| Message Synopsis  Required, short, one or two paragraph description of the message. | *(no change)* | |
| Message Elaboration  Optional longer description of the message usage | *(no change)* | |
| To be finalized by FPL Technical Office | | |
| (MsgType(tag 35) Enumeration | | AE |
| Repository Component ID | |  |

| *Tag* | *Field Name* | *Req'd* | *Action* | *Mappings and Usage Comments* | *FIX Spec Comments* |
| --- | --- | --- | --- | --- | --- |
| ***Standard Header*** | | Y |  |  | MsgType=AE |
| <…truncated…> | | | | | |
| 912 | LastRptRequested | N |  |  |  |
| 1028 | ManualOrderIndicator | N | ADD | CAT: manualFlag | May be used to indicate manual reporting of the trade |
| 325 | UnsolicitedIndicator | N |  |  |  |
| <…truncated…> | | | | | |
| 17 | ExecID | N | CHANGE |  | Market (exchange) assigned execution identifier as provided in the ExecutionReport(35=8) message.  Conditionally required if ExecRefID(19) is present and refers to the new execution identifer assigned by the market (exchange). |
| 19 | ExecRefID | N | ADD | CAT: priorFulFillmentID | Reference to an execution identifier previously assigned by the market (exchange).  If specified, ExecID(17) is required. |
| 527 | SecondaryExecID | N |  |  |  |
| <…truncated…> | | | | | |
| ***TrdRepIndicatorsGrp  component*** | | N |  |  |  |
| 2524 | TradeReportingIndicator | N | ADD |  |  |
| 1390 | TradePublishIndicator | N |  |  |  |
| <…truncated…> | | | | | |
| ***Standard Trailer*** | | Y |  |  |  |

# FIX Component Blocks

NONE

Copy and paste the following section for each component being modified or added by your proposal. Alternatively, you may contact the FPL Program Office, [fpl@fixprotocol.org](mailto:), to request that a pre-filled template be generated with message tables for existing messages you will be enhancing.

The following table is required for newly proposed components only; it is not required for components that are being modified by your proposal unless you are proposing new or updating component synopsis or elaboration. When proposing new or updating component synopsis or elaboration, only those fields should be used.

When proposing a new message type, describe the usage. If any usage is asset type specific, clearly indicate it.

* **Component Name** - The component or repository name (no embedded spaces or punctuation characters).
* **Component Abbreviated Name** (for FIXML) - The abbreviated name of the message using standard FIX abbreviations. If new terms require abbreviation, propose the abbreviation for the new term(s) in Appendix C. Submitter may propose the abbreviations for the component if the submitter is familiar with the abbreviation rules and convention. Proposed abbreviations are subject to review and change by the GTC.
* **Component Type** - The type of component. All repeating groups must be a component. A repeating group is a BlockRepeating component. If the component is not itself a repeating group (it can contain references to other components that are repeating groups), the component is a Block.
* **Category** - Assign each message to a Category. If a new category is required for the message, you must also complete the Category section.
* **Action** - Indicate whether the component table is for a new component being proposed, or a change to an existing component. Change to an existing component may include change to component synopsis or elaboration, addition of new or existing field(s), addition of new or existing component(s), etc.
* **Component Synopsis** - Required short description summarizing the purpose and function of the component.
* **Component Elaboration** - Optional detailed description of the message behavior.

# Category Changes

This chapter is used to add or modify FIX Categories. If your gap analysis proposal does not add or change categories, ignore this section during the initial proposal. If, during review, a change to an existing category or a new category is determined to be required, complete this section.

* **Category Name** - The category or repository name.
* **Section** - The section for the category. A message category can exist only in one section of the FIX Specification.
* **Category Synopsis** - Required short description summarizing the purpose and function of the component.
* **Category Elaboration** - Optional detailed description of the message behavior.

NONE

# Appendix A - Data Dictionary

The Data Dictionary table must be filled in for all new fields being proposed and all existing fields where changes are being proposed. Each row, representing a field, must identify the requested action of “new”, "add", "change", or "deprecate" for each field.

For new fields provide the data type for each field, the field definition, along with any enumerations related to the field. New fields will use "TBD" in the Tag column. For existing fields, document the proposed additions and changes and highlighting the change (e.g. to the description, new enumerations being added, etc.).

List new fields at the top of the table, followed by fields to be deprecated, and then fields to be changed.

* **Tag** - Order all new fields at the top of the table. The "Tag" column should be "TBD" for the new fields. For existing fields include the official tag number.
* **FieldName** – Field name – required for all fields including existing fields being changed and proposed.
* **Action** - indicates whether the field is to be added, changed, or deprecated in the data dictionary:

**NEW** - A new proposed field. Use "TBD" in Tag column. Identified in the "Add to/ Deprecate from Message type or Component block" column the message or component the new field is to be added to.

**ADD** - An existing field to be added to the component or message type identified in the "Add to/ Deprecate from Message type or Component block" column.

**DEPRECATE** - An existing field to be deprecated. If the deprecation is message specific (as oppose to deprecating the field from the entire specification), identify in the "Add to/ Deprecate from Message type or Component block" column the component or message from which the field is to be deprecated.

**CHANGE** - An existing field to be modified – modifications are limited to changing the Data Dictionary description or changing or adding new enumerations. A data type change requires strong business requirements justification to be documented as part of the proposal and will be reviewed in detail by the GTC.

* **Datatype** - The data type, e.g. int, Price, Boolean, etc. (See FIXimate for the complete list of FIX datatypes). Required for new fields; not required for existing fields, unless the proposal is to change the data type. See the list of data types in Volume 1 of the FIX Protocol specification.
* **Description -** A definition of the field. The description of the field should be sufficiently descriptive and meaningful but should be generic enough that the field can be reused. For specific message or component context based usage rules these should be described as field usage text within the message or component in which the field is included.

**Enumerations** - When a field requires enumerations, these are included within the **Description** column of the Data Dictionary table. When enumerations are to be defined for a new field, the field should be of *int* data type and the enumerated values be integers starting at 0 (zero). If the field is to have a default enumeration value that is implied by the omission of the field, the default value must be assigned the value 0 (zero). All enumerations must have a short description included that provides sufficient meaning for the enumeration value. A longer elaboration or description for the enumeration may also be included.

* **FIXML Abbreviation** - The abbreviation for the field when used in FIXML Schema. The submitter is not required to supply the abbreviation, but it will need to be entered in conjunction with the GTC before ratification of the proposal. If the submitter is familiar with the abbreviation rules or convention, the submitter is encouraged to supply a proposed FIXML abbreviation; however, this is subject to review and change by the GTC. If new terms require abbreviation, propose the abbreviation for the new term(s) in Appendix C.
* **Add to / Deprecate from Message type or Component block** - Identify the message types or component blocks in which to apply the Action for the field.

| **Tag** | **FieldName** | **Action** | **Datatype** | **Description** | **FIXML Abbreviation** | **Add to / Deprecate from Message type or Component block** |
| --- | --- | --- | --- | --- | --- | --- |
| 1033 | DeskType | CHANGE | String | Identifies the type of Trading Desk.  Conditionally required when InformationBarrierID(1727) is specified for OATS.  Values:  FB = Floor Broker | @DskTyp |  |
| 1028 | ManualOrderIndicator | CHANGE | Boolean | Indicates if ~~the~~ an order, quote or trade was initially received manually (as opposed to electronically) or if it was entered manually (as opposed to entered by automated trading software). | @ManOrdInd |  |
| 2669 | TrdRegPublicationType | CHANGE | Int | Specifies the type of regulatory trade publication.  Values:  3 = Order level publication to subscribers  [Elaboration: Individual orders are displayed outside of the execution venue but only to subscribers. In the context of US CAT this can be used by Alternative Trading Systems (ATSs) to provide additional information related to price distribution.]  4 = Price level publication to subscribers  [Elaboration: Aggregated orders are displayed outside of the execution venue but only to subscribers. In the context of US CAT this can be used by Alternative Trading Systems (ATSs) to provide additional information related to price distribution.]  5 = Order level publication to the public  [Elaboration: Individual orders are displayed outside of the execution venue via public quotation. In the context of US CAT this can be used by Alternative Trading Systems (ATSs) to provide additional information related to price distribution.]  6 = Publication internal to execution venue [Elaboration: Orders are not displayed outside of the execution venue. In the context of US CAT this can be used by Alternative Trading Systems (ATSs) to provide additional information related to price distribution.] | @Typ |  |

# Appendix B - Glossary Entries

This section, if included, should contain a table with terminology to be included in the FIX specification Glossary in Volume 1. These are usually business terms that are defined to help readers understand the relevant space for the proposal.

* **Term** - The business term.
* **Definition** - The definition of the term. If a term has different definitions in different contexts or for different asset types, include and identify fully these differing definitions. If the definition is copied or paraphrased from a source, identify the source in parentheses after the definition.
* **Field where used** - Identifies the FIX field name for the field where this term is used.

|  |  |  |
| --- | --- | --- |
| **Term** | **Definition** | **Field where used** |
|  |  |  |
|  |  |  |
|  |  |  |
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# Appendix C - Abbreviations

When new fields, components, and messages are added to the FIX Specification, an abbreviated name that is primarily used for FIXML (at this time) must be created for them. Abbreviations are standardized within the FIX Specification. A list of abbreviations is maintained in the FIX Repository. You can access the current list of abbreviations via FIXimate on the FPL website. If abbreviations do not exist, use this table to define additional abbreviations required for your proposal. New abbreviations are subject to final approval of and may be changed by the GTC.

If you are not comfortable proposing new abbreviations, the "Proposed Abbreviations" can be omitted and the GTC will assign new abbreviations.

|  |  |  |
| --- | --- | --- |
| **Term** | **Proposed Abbreviation** | **Proposed Messages, Components, Fields where used** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Appendix D - Usage Examples

This is an optional section where the sub-committee or working group can provide whole or fragments of example FIX messages with actual or dummy data. These examples are useful for illustrating usage or rules specific to the business domain covered in the proposal.

[Examples may be entered below this line]