

FIX Global Technical Committee

Related Orders Proposal

June 15, 2020

Revision 0.2

Proposal Status: Draft

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Table of Contents

Auto-generate the entire table of contents (press F9) here - or customize up to 3 levels deep.

[Document History 5](#_Toc43447021)

[1 Introduction 6](#_Toc43447022)

[2 Business Requirements 6](#_Toc43447023)

[2.1 Order Aggregation 6](#_Toc43447024)

[3 Issues and Discussion Points 6](#_Toc43447025)

[4 Proposed Message Flow 6](#_Toc43447026)

[5 FIX Message Tables 7](#_Toc43447027)

[5.1 FIX Message ExecutionReport(35=8) 7](#_Toc43447028)

[6 FIX Component Blocks 8](#_Toc43447029)

[6.1 Component OrderAggregationGrp 8](#_Toc43447030)

[6.2 Component RelatedOrderGrp 9](#_Toc43447031)

[6.3 Component TradeReportOrderDetail 10](#_Toc43447032)

[7 Category Changes 10](#_Toc43447033)

[Appendix A – Data Dictionary 11](#_Toc43447034)

[Appendix B - Glossary Entries 13](#_Toc43447035)

[Appendix C - Abbreviations 13](#_Toc43447036)

[Appendix D - Usage Examples 13](#_Toc43447037)

[Appendix E – Disposition of Public Comments 13](#_Toc43447038)

Table of Figures

A Table of Figures is not required. If used, use styles to tag the captions and auto-generate the list here. If not used, remove this section.

# Document History

| **Revision** | **Date** | **Author** | **Revision Comments** |
| --- | --- | --- | --- |
| 0.1 | May 20, 2020 | GTC, Hanno Klein | Initial Draft |
| 0.2 | June 15, 2020 | GTC, Hanno Klein | Resolved public review comments. |
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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*. One of the extensions proposed by EP253 was to add an enhanced version of an existing component to the ExecutionReport(35=8) message to convey the details of aggregated orders. This specific extension is being rescinded with this proposal and replaced with a new component that represents a more generic solution. The remainder of EP253 is left unchanged.

# 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.

## Order Aggregation

CAT requires the ability to attach a list of orders (reference and key attributes) to a new order aggregating them. Each instance of an order must be able to have a timestamp and identify a firm where the order originated. This firm could be different from the firm owning the aggregated order.

EP253 proposed to add the existing component OrderAggregationGrp to the ExecutionReport(35=8) message. This is not possible as the existing component contains fields that are already part of the ExecutionReport(35=8) message, e.g. OrderID(37). The original proposal to extend OrderAggregationGrp with new fields OrderTime(2836) and OrderOriginationFirmID(2835) is to be rescinded.

This document proposes a generic component RelatedOrderGrp (similar to the existing repeating groups RelatedTradeGrp and RelatedPositionGrp) that allows to link any number of related orders to the order of an ExecutionReport(35=8) message. It should contain the following information for each order:

* **Identifier**: RelatedOrderID(TBD)
* **Source of identifier**: RelatedOrderIDSource(TBD)
* **Timestamp of ID assignment**: RelatedOrderTime(2836)[[1]](#footnote-1)
* **Quantity**: RelatedOrderQty(TBD)
* **Relationship to order outside of component**: OrderRelationship(TBD)
* **Firm that originated the order**: OrderOriginationFirmID(2835)[[2]](#footnote-2)

# 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 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 |  |  |  |
| Component Block ***ApplicationSequenceControl*** |  |  |  |  |
| 37 | OrderID | Y |  |  |  |
| 2422 | OrderRequestID | N |  |  |  |
| *(…truncated…)* |  |  |  |  |
| 1080 | RefOrderID | N |  |  |  |
| 1081  | RefOrderIDSource | N |  |  |  |
| 1806 | RefClOrdID | N |  |  |  |
| Component Block ***RelatedOrderGrp*** | N | NEW | CAT: aggregatedOrders | May be used to provide a list of orders and their relationship to the order identified in this message. |
| 1803 | AuctionType | N |  |  |  |
| *(…truncated…)* |  |  |  |  |
| ***Standard Trailer*** | Y |  |  |  |

# FIX Component Blocks

## Component OrderAggregationGrp

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, 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.

|  |
| --- |
| To be completed at the time of the proposal – all information provided will be included in the repository |
| Component Name | OrderAggregationGrp |
| Component Abbreviated Name (for FIXML) | OrdAggrtn |
| Component Type | \_X\_\_ Block Repeating \_\_\_ Block |
| Category | (no change) |
| Action | \_\_New \_X\_Change |
| Component Synopsis | (no change) |
| Component Elaboration | (no change) |
| To be finalized by FPL Technical Office |
| Repository Component ID | 1078 |

|  |
| --- |
| Component FIXML Abbreviation: <*OrdAggrtn*> |
| *Tag* | *Field Name* | *Req'd* | *Action* | *Mappings and Usage Comments* | *Comments* |
| 73 | NoOrders | N |  |  |  |
| → | 11 | ClOrdID | N |  |  | Required if NoOrders(73) > 0. |
| → | 37 | OrderID | N |  |  |  |
| → | 38 | OrderQty | N |  |  | Required if NoOrders(73) > 0. |
| → | 799 | OrderAvgPx | N |  |  |  |
| → | ~~2836~~  | ~~OrderTime~~ | ~~N~~ | Remove |  |  |
| → | ~~2835~~  | ~~OrderOriginationFirmID~~ | ~~N~~ | Remove |  | ~~Can be used when aggregating orders that were originally submitted by different firms, e.g. due to a merger or acquisition.~~ |
| </*OrdAggrtn*> |

## Component RelatedOrderGrp

|  |
| --- |
| To be completed at the time of the proposal – all information provided will be included in the repository |
| Component Name | RelatedOrderGrp |
| Component Abbreviated Name (for FIXML) | ReltdOrd |
| Component Type | \_X\_\_ Block Repeating \_\_\_ Block |
| Category | (no change) |
| Action | \_X\_New \_\_Change |
| Component Synopsis | This component is used to identify orders that are related to the order identified outside of this component for a business purpose.For example, the bundling of multiple orders into a single order. This component should not be used in lieu of explicit FIX fields that denote specific semantic relationships, but rather should be used when no such fields exist. |
| Component Elaboration | (no change) |
| To be finalized by FPL Technical Office |
| Repository Component ID | 1078 |

|  |
| --- |
| Component FIXML Abbreviation: <*ReltdOrd*> |
| *Tag* | *Field Name* | *Req'd* | *Action* | *Mappings and Usage Comments* | *Comments* |
| 73 | NoOrders | N | ADD |  |  |
| → | TBD | RelatedOrderID | N | NEW | CAT: orderID | Required if NoOrders(73) > 0. |
| → | TBD | RelatedOrderIDSource | N | NEW | CAT: set to 0=OrderID(37) | The same value must be used for all orders having the same OrderRelationship(TBD) value. |
| → | 2836  | RelatedOrderTime | N | ADD | CAT: orderKeyDate |  |
| → | TBD | RelatedOrderQty | N | NEW | CAT: quantity |  |
| → | TBD | OrderRelationship | N | NEW |  | May be used to explicitly express the type of relationship or to provide orders having different relationships. |
| → | 2835  | OrderOriginationFirmID | N | ADD | CAT: originatingIMID | May be used when aggregating orders that were originally submitted by different firms, e.g. due to a merger or acquisition. |
| </*ReltdOrd*> |

## Component TradeReportOrderDetail

|  |
| --- |
| To be completed at the time of the proposal – all information provided will be included in the repository |
| Component Name | TradeReportOrderDetail |
| Component Abbreviated Name (for FIXML) | TrdRptOrdDetl |
| Component Type | \_\_\_ Block Repeating \_X\_\_ Block |
| Category | [enter the category name here] |
| Action | \_\_New \_X\_Change |
| Component SynopsisRequired, short, one or two paragraph description of the component. | (no change) |
| Component ElaborationOptional longer description of the component usage | (no change) |
| To be finalized by FPL Technical Office |
| Repository Component ID | 2143 |

|  |
| --- |
| Component FIXML Abbreviation: <*TrdRptOrdDetl*> |
| *Tag* | *Field Name* | *Req'd* | *Action* | *Mappings and Usage Comments* | *Comments* |
| 37 | OrderID | N |  |  |  |
| 198 | SecondaryOrderID | N |  |  |  |
| *(…truncated…)* |  |  |  |  |
| 1080 | RefOrderID | N |  |  |  |
| 1081 | RefOrderIDSource | N |  |  |  |
| 1431 | RefOrderIDReason | N |  |  |  |
| **Component RelatedOrderGrp** | N | NEW |  |  |
| *(…truncated…)* |  |  |  |  |
| </*TrdRptOrdDetl*> |

# 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** |
| --- | --- | --- | --- | --- | --- | --- |
| TBD | RelatedOrderID | NEW | String | Identifier of a related order. | @ID | Add to RelatedOrderGrp |
| TBD | RelatedOrderIDSource | NEW | int | Describes the source of the identifier that RelatedOrderID(TBD) represents.Valid values:0 = Non-FIX source1 = System order identifier – OrderID(37)2 = Client order identifier – ClOrdID(11)3 = Secondary client order identifier – SecondaryOrderID(198)4 = Secondary client order identifier – SecondaryClOrdID(526) | @Src | Add to RelatedOrderGrp |
| TBD | RelatedOrderQty | NEW | Qty | Quantity of the related order which can be less than its total quantity. For example, when only parts of an order contribute to an aggregated order. | @Qty | Add to RelatedOrderGrp |
| TBD | OrderRelationship | NEW | int | Describes the type of relationship between the order identified by RelatedOrderID(TBD) and the order outside of the RelatedOrderGrp component.Valid values:0 = Not specified1 = Order aggregation[Elaboration: Order has been subject to a bundling of multiple orders to a single new order identified outside of the component.]2 = Order split[Elaboration: Order has been created as a child order of the order identified outside of the component.] | @Rltnshp | Add to RelatedOrderGrp |
| 2835 | OrderOriginationFirmID | CHANGE (comp.) |  | Identifier for the original owner of an order as part of the OrderAggregationGrp component. Use the Parties component with PartyRole(452) = 13 (Order Origination Firm) to identify the original owner of an individual order outside of an aggregation. | @OrigntnFirmID | Remove from OrderAggregationGrpAdd to RelatedOrderGrp  |
| 2836  | RelatedOrderTime | CHANGE (name) | UTCTimestamp | Timestamp for the assignment of a (unique) identifier to an order. | @Tm | Remove from OrderAggregationGrpAdd to RelatedOrderGrp |
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# 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]

# Appendix E – Disposition of Public Comments

**xavierbruyet <company>**

**Public comment:** It would be a good idea to make RelatedOrderIDSource and RefOrderIDSource consistent by sharing the same code set (and move 1081=7-10 to a separate field).

**Resolution:** There are two distinct sets of use cases from a business perspective. An order can either relate to a single other order (e.g. in a hit&lift scenario) or it can relate to two or more other orders (e.g. in an aggregation scenario). Use cases requiring to convey multiple related quotes may come up in the future. Expressing a semantic relationship to a single order or quote will not be changed in order to maintain backward compatibility.

**Action:** None

**Public comment:** Ultimately I would suggest to get rid of RefOrderID/RefOrderIDSource and to only keep a repeating group NoRelatedOrders with tags:

* RelatedOrderID,
* RelatedOrderIDSource (ClOrdID, OrderID, SecondaryOrderID, etc),
* RelatedOrderIDType (aggregated order, parent order, previous order, etc).

**Resolution:** The fields RefOrderID(1080), RefOrderIDSource(1081) will not be removed since they represent an established concept in FIX since many years. The FIX standard always attempts to re-use existing messages, fields and values before proposing new ones to avoid breaking existing applications. A new field will be added inside the repeating group RelatedOrderGrp to express the type of relationship. It allows to express more than one relationship, e.g. an order that relates to two or more sets of other orders.

**Action:** Add new field OrderRelationship(TBD) to the RelatedOrderGrp component.

**ramjeepenta <company>**

**Public comment:** It might be a good idea to extend this new group to TradeCaptureReport (AE) as well.

**Resolution:** The TradeCaptureReport (AE) provides the TradeReportOrderDetail component for each side (TrdCapRptSideGrp), containing order level attributes that are not affected by the order execution. It already includes fields RefOrderID(1080) and RefOrderIDSource(1081) and will be extended with the capability to relate to multiple orders.

**Action:** Add new component RelatedOrderGrp to TradeReportOrderDetail component.

1. Tag number was already introduced with EP253 as OrderTime(2836). Change of field name proposed. [↑](#footnote-ref-1)
2. Field was already introduced with EP253. [↑](#footnote-ref-2)