MiFID II – Information for participants 02 *Update 5*

XONTRO
Interface adaptations

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## Introduction

- The aim of this document is to outline, in a tightly arranged format, those interface adaptations deemed necessary to be done within the MiFID II implementation framwork for XONTRO, to the banks and broker firms.

- The structure of the document is thematically oriented. This means that, after an introductory representation of the relevant MiFID II fields (gray), the respective interface implementation for SAKI-FIX (yellow), SAKI-SWIFT (red) and broker interface (SAM, blue) will be depicted.

- The interface format definitions have been coordinated between the XONTRO exchange trading venue operators, Bayerische Börse AG, Boerse Stuttgart GmbH, Deutsche Börse AG, and Tradegate AG. Apart from that, it may still have become necessary that, due to market model resp. underlying technical infrastructure grounds, the implementation of specific technical details was deemed to have beeen set up unequally.

- With regard to the FIX implementation, not all aspects have been finally harmonized with the relevant FIX committees yet. Due to this fact, further modifications may become necessary in the future yet.

## Introduction

- Important note for all SAKI SWIFT order routing users:

  A SAKI SWIFT order message adaptation according to the MiFID II regulatory demands will not be carried out.
  Therefore, the participants are urged to process their SWIFT order routing via the MiFID II compliant SAKI FIX interface, or via the 3270 dialog screen interface, beginning on January 1st, 2018.

  The order routing functions towards the funds settlement platform INVESTRO will not be affected by this measure, and thus will remain unchanged and ready for services in the future.

**XONTRO
Interface adaptations**

**MiFID II
SAKI-FIX - SAKI-SWIFT - SAM**

# MiFID II
XONTRO – Interface adaptations – MiFID II – Overview

## Relevant abbreviations of MiFID II Implementation

- CIC    =    Client Identification Code

- DEA    =    Direct Electronic Access

- EXWF    =    Execution Within Firm

- IDWF    =    Investment Decision Within Firm

- LEI    =    Legal Entity Identifier (ISO 17442)

- MIC    =    Market Identifier Code (ISO 10383)

- TVTIC    =    Trading Venue Transaction Identification Code

# MiFID II
XONTRO – Interface adaptations – MiFID II – Overview

## Relevant areas of MiFID II Implementation

- 1 – Order entry interfaces

- 2 – Order response interfaces

- 3 – Trade entry interfaces for Max-ONE

- 4 – Trade response interfaces

## 1 – Order entry interfaces (MiFID II)

**RTS 24**

| Field name | DEA | CIC-ID | CIC | IDWF-ID | IDWF | EXWF-ID | EXWF | Trading Capacity | Liquidity Provision Activity | Non Executing Broker | Opt-Out-Flag | Kill-Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Field number (RTS 24) | Field 02 | --- **update** | Field 03 | --- **update** | Field 04 | --- **update** | **Field 05 update** | Field 07 | Field 08 | **Field 06 update** | --- | --- |
| Field type | optional | conditional | conditional | conditional | conditional | ~~mandatory~~ conditional | ~~mandatory~~ conditional | optional | optional | optional | optional | optional |
| Field format (MiFID) | *ALPHANUM_5* | *(ALPHANUM_4)* | *ALPHANUM_50* | *(ALPHANUM_2)* | *ALPHANUM_50* | *(ALPHANUM_2)* | *ALPHANUM_50* | *ALPHANUM_4* | *ALPHANUM_3* | *ALPHANUM_20* | *(ALPHANUM_1)* | *(ALPHANUM_1)* |
| Field scope | Enter Modify | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter --- --- | Enter --- --- | Enter --- --- | Enter Modify --- | --- --- Delete |
| Field content (MiFID) | TRUE FALSE | --- | LEI-Code National-ID AGGR PNAL [blank] | --- | National-ID Algo [blank] | --- | National-ID Algo | MTCH DEAL AOTC | YES NO | LEI-Code | Ignore Price Validity Checks | 1 = Cancel by Kill-Function |
| Field content (XONTRO) | TRUE FALSE (default) | xx = SC-ID AGGR PNAL [blank] | ShortCode User-ID [blank] | xx = SC-ID zz = ALGO-ID [blank] | ALGO ShortCode User-ID [blank] | xx = SC-ID zz = ALGO-ID | ALGO ShortCode User-ID | MTCH DEAL AOTC (default) | YES NO (default) | Non Executing Broker (Link to LEI via CBF-Acct.-No.) | Ignore Price Validity Checks | 1 = Cancel by Kill-Function |

Note: The data fields listed here are generally considered relevant from a MiFID II perspective, according to the implementation of the requirements of the RTSs listed respectively. The actual implementation as seen for the relevant interfaces (SAKI-FIX, SAKI-SWIFT, and SAM) will be depicted on the detailed slides that follow thereafter.

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## 2 – Order response interfaces (MiFID II)

**RTS 22**

| Field name | Trading venue transaction identification code (TVTIC) | Trading date and time (trade contraction time enhancement) |
|---|---|---|
| Field number (RTS 22) | Field 03 | Field 28 |
| Field type | outbound | outbound |
| Field format (MiFID) | ALPHANUM_52 | Date and Time |
| Field content (MiFID) | --- | YYYY-MM-DDT hh:mm:ss.ddddddZ |
| Field content (XONTRO) | Segment MIC (4 digits) + ISIN (12 digits) + Trading day (8 digits) + Price confirmation time (12 digits) | 8 digits (1/100 sec) + 4 digits (extension) (microsecond) |

Note: The data fields listed here are generally considered relevant from a MiFID II perspective, according to the implementation of the requirements of the RTSs listed respectively. The actual implementation as seen for the relevant interfaces (SAKI-FIX, SAKI-SWIFT, and SAM) will be depicted on the detailed slides that follow thereafter.

## 3 – Trade entry interfaces (MiFID II für Max-ONE)

**RTS 22**

| Field name | Trading venue transaction identification code (TVTIC) | Buyer identification code | Seller identification code | Venue | OTC post-trade indicator | Trading date and time (trade contraction time) | Short Sell Indicator |
|---|---|---|---|---|---|---|---|
| Field number (RTS 22) | Field 03 | Field 07 | Field 16 | Field 36 | Field 63 | Field 28 | --- |
| Field type | mandatory | conditional | conditional | mandatory | conditional | mandatory | conditional |
| Field format (MiFID) | *ALPHANUM_52* | *ALPHANUM_50* | *ALPHANUM_50* | *ALPHANUM_4* | *n \* ALPHANUM_4* | Date and Time | *ALPHANUM_1* |
| Field content (MiFID) | --- | LEI-Code National-ID MIC-Code INTC- Internal | LEI-Code National-ID MIC-Code INTC- Internal | MIC-Code ISO 10383 - 4 digits Segment MIC; if SM does not exist, Operating MIC | … numerous ... ACTX CANC [blank] | YYYY-MM-DDT hh:mm:ss.ddddddZ | Short Sell Indicator |
| Field content (XONTRO) | Segment MIC (4 digits) + ISIN (12 digits) + Trading day (8 digits) + Price confirmation time (12 digits) | LEI-Code [blank] | LEI-Code [blank] | Segment-MIC der ISIN | ACTX CANC [blank] (default) | 8 digits (1/100 sec) + 4 digits (extension) (microsecond) | Short Sell Indicator |

<u>Note:</u> The data fields listed here are generally considered relevant from a MiFID II perspective, according to the implementation of the requirements of the RTSs listed respectively. The actual implementation as seen for the relevant interfaces (SAKI-FIX, SAKI-SWIFT, and SAM) will be depicted on the detailed slides that follow thereafter.

## 4 – Trade response interfaces (MiFID II)

RTS 22

| Field name | Trading venue transaction identification code (TVTIC) | Buyer identification code | Seller identification code | Venue | OTC post-trade indicator | Time of entry (Eingabezeit) | Trading date and time (Abschlusszeit) |
|---|---|---|---|---|---|---|---|
| Field number (RTS 22) | Field 03 | Field 07 | Field 16 | Field 36 | Field 63 | --- | Field 28 |
| Field type | outbound | outbound | outbound | outbound | outbound | outbound | outbound |
| Field format (MiFID) | ALPHANUM_52 | ALPHANUM_50 | ALPHANUM_50 | ALPHANUM_4 | n * ALPHANUM_4 | --- | Date and Time |
| Field content (MiFID) | TVTIC | LEI-Code National-ID MIC-Code INTC- Internal | LEI-Code National-ID MIC-Code INTC- Internal | MIC-Code ISO 10383 - 4 digits Segment MIC; if SM does not exist, Operating MIC | … viele … ACTX CANC [blank] | --- | YYYY-MM-DDT hh:mm:ss.ddddddZ |
| Field content (XONTRO) | Segment MIC (4 digits) + ISIN (12 digits) + Trading day (8 digits) + Price confirmation time (12 digits) | LEI-Code [blank] | LEI-Code [blank] | ISIN-Segment-MIC | ACTX CANC [blank] (default) | 6 digits (HHMMSS) | 12 digits (HHMMSS DDDDDD) |

Note: The data fields listed here are generally considered relevant from a MiFID II perspective, according to the implementation of the requirements of the RTSs listed respectively. The actual implementation as seen for the relevant interfaces (SAKI-FIX, SAKI-SWIFT, and SAM) will be depicted on the detailed slides that follow thereafter.

# MiFID II
XONTRO – Interface adaptations – Übersicht (SAKI-FIX)

## Relevant areas - SAKI-FIX

- 1 - Order entry interfaces

- 2 - Order reponse interfaces

- 3 - Trade entry interface

- 4 - Trade reponse interface

- 5 - Information concerning Pretrade Controls (update)

## 1 - Order entry interfaces (Fix 4.2)

| Relevant structures | | |
|---|---|---|
| | Request - New Order Single | Structural enhancement |
| | Request - Order Cancel Replace Request | Structural enhancement |
| | Request - Order Cancel Request | Structural enhancement |

**RTS 24** ... **RTS 7** **RTS 9**

| Field name | DEA | CIC-ID | CIC | IDWF-ID | IDWF | EXWF-ID | EXWF | Trading Capacity | Liquidity Provision Activity | Non Executing Broker | Opt-Out-Flag | Kill-Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Field number (RTS 24) | Field 02 | --- **update** | Field 03 | --- **update** | Field 04 | --- **update** | **Field 05 update** | Field 07 | Field 08 | **Field 06 update** | --- | --- |
| Field type | optional | conditional | conditional | conditional | conditional | ~~mandatory~~ conditional | ~~mandatory~~ conditional | optional | optional | optional | optional | optional |
| Field format (MiFID) | ALPHANUM_5 | (ALPHANUM_4) | ALPHANUM_50 | (ALPHANUM_2) | ALPHANUM_50 | (ALPHANUM_2) | ALPHANUM_50 | ALPHANUM_4 | ALPHANUM_3 | ALPHANUM_20 | (ALPHANUM_1) | (ALPHANUM_1) |
| Field scope | Enter Modify | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter --- --- | Enter --- --- | Enter --- --- | Enter Modify --- | --- --- Delete |

**Fix 4.2**

| Field action | XONTRO = new Max-ONE = new | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = existing MO = **???** | XO = new MO = new | XO = new MO = new |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FAGSE-Tag (XONTRO-Fix) | 1724 = 5 OrderOrigination | 21103 (optional) PartyIDClientID Qualifier<br><br>if filled:<br>23 = LEI<br>24 = Nat.Person<br><br>21303 (optional) PartyIDClientID Source<br><br>P = Shortcode | 20003 (optional) PartyIDClientID<br><br>if filled:<br>1 = AGGR<br>2 = PNAL<br>oder Shortcode<br><br>**alternative via AGGR**<br>2594 = 0 OrderAttributeType<br>2595 = Y OrderAttributeValue<br>**PNAL**<br>2594 = 1 OrderAttributeType<br>2595 = Y OrderAttributeValue | 21222 (optional) PartyIDInvestment DecisionMaker Qualifier<br><br>if filled:<br>22 = ALGO<br>24 = Nat.Person<br><br>21422 (optional) PartyIDInvestment DecisionMaker Source<br><br>P = Shortcode | 20122 (optional) PartyIDInvestment DecisionMaker<br><br>if filled:<br>Shortcode oder Algo | 21112 (optional) PartyIDExecuting TraderQualifier<br><br>if filledt:<br>22 = ALGO<br>24 = Nat.Person<br><br>21312 PartyIDExecuting TraderSource<br><br>P = Shortcode | 20012 (optional) PartyIDExecuting Trader<br><br>if filled:<br>~~3 = CLIENT~~<br>3 = **NORE** or Shortcode or Algo<br><br>**alternative via ~~CLIENT~~ NORE**<br>2594 = 6 OrderAttributeType<br>2595 = Y OrderAttributeValue | 1815 TradingCapacity<br><br>1 = Customer (AOTC)<br>5 = Principal (DEAL)<br>6 = Market maker (DEAL)<br>9 = Risklss prncpl (MTCH) | 2594 = 2 OrderAttributeType<br>2595 = Y OrderAttributeValue | 9318 MktMkerID | 1869 ValueCheckType<br>**1 = PriceCheck**<br><br>1870 ValueCheckAction<br>**0 = DoNotCheck**<br>1 = Check (default) | (6042) CxlReason<br>1 = Cancel by Kill-Function |

## 1 - Order entry interfaces (Fix 4.4)

| | Request - New Order Single | Structural enhancement |
|---|---|---|
| | Request - Order Cancel Replace Request | Structural enhancement |
| | Request - Order Cancel Request | Structural enhancement |

**RTS 24** ... **RTS 7** **RTS 9**

| Field name | DEA | CIC-ID | CIC | IDWF-ID | IDWF | EXWF-ID | EXWF | Trading Capacity | Liquidity Provision Activity | Non Executing Broker | Opt-Out-Flag | Kill-Flag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Field number (RTS 24) | Field 02 | --- **update** | Field 03 | --- **update** | Field 04 | --- **update** | **Field 05 update** | Field 07 | Field 08 | **Field 06 update** | --- | --- |
| Field type | optional | conditional | conditional | conditional | conditional | ~~mandatory~~ conditional | ~~mandatory~~ conditional | optional | optional | optional | optional | optional |
| Field format (MiFID) | ALPHANUM_5 | (ALPHANUM_4) | ALPHANUM_50 | (ALPHANUM_2) | ALPHANUM_50 | (ALPHANUM_2) | ALPHANUM_50 | ALPHANUM_4 | ALPHANUM_3 | ALPHANUM_20 | (ALPHANUM_1) | (ALPHANUM_1) |
| Field scope | Enter Modify | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter --- --- | Enter --- --- | Enter --- --- | Enter Modify --- | --- --- Delete |

**Fix 4.4**

| Field action | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = new MO = new | XO = existing MO = ??? | XO = new MO = new | XO = new MO = new |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FAGSE-Tag (XONTRO-Fix) | 1724 = 5 OrderOrigination | 452 - PartyRole = 3 (CIC) 447 - PartyIDSource = P (Shortcode) 2376 PartyRoleQualifier = 23 (LEI) = 24 (Nat.Person) AGGR 2594 = 0 OrderAttributeType 2595 = Y OrderAttributeValue PNAL 2594 = 1 OrderAttributeType 2595 = Y OrderAttributeValue | 448 - PartyID = if filled Shortcode possible: if filled: 1 = AGGR 2 = PNAL oder Shortcode | 452 - PartyRole = 122 (IDWF) 447 - PartyIDSource = P (Shortcode) 2376 PartyRoleQualifier = 24 (Nat.Person) in case of Algo: 2376 PartyRoleQualifier = 22 | 448 - PartyID = if filled Shortcode oder Algo | 452 - PartyRole = 12 (EXWF) 447 - PartyIDSource = P (Shortcode) 2376 PartyRoleQualifier = 24 (Nat.Person) in case of Algo: 2376 PartyRoleQualifier = 22 ~~CLIENT~~ NORE 2594 = 6 OrderAttributeType 2595 = Y OrderAttributeValue | 448 - PartyID = if filled Shortcode oder Algo possible: if filled: ~~3 = CLIENT~~ 3 = NORE or Shortcode or Algo | 1815 TradingCapacity 1 = Customer (AOTC) 5 = Principal (DEAL) 6 = Market maker (DEAL) 9 = Risklss prncpl (MTCH) | Liquidity Provision Activity 2594 = 2 OrderAttributeType 2595 = Y OrderAttributeValue | 452 - PartyRole = 66 (Marketmaker) 447 - PartyIDSource = D (Proprietary) | 1869 ValueCheckType 1 = PriceCheck 1870 ValueCheckAction 0 = DoNotCheck 1 = Check (default) | (6042) CxlReason 1 = Cancel by Kill-Function |

## 2 - Order reponse interfaces (MiFID II, Fix 4.2, Fix 4.4)

Relevant structures

| Broadcast - Execution Report | Structural enhancement |
|---|---|

**RTS 22**

| Field name | Trading venue transaction identification code (TVTIC) | Trading date and time (trade contraction time enhancement) |
|---|---|---|
| Field number (RTS 22) | Field 03 | Field 28 |
| Field type | outbound | outbound |
| Field format (MiFID) | ALPHANUM_52 | Date and Time |
| Field content (MiFID) | --- | YYYY-MM-DDT hh:mm:ss.dddddddZ |
| Field content (XONTRO) | Segment MIC (4 digits) + ISIN (12 digits) + Trading day (8 digits) + Price confirmation time (12 digits) | 8 digits (1/100 sec) + 4 digits (extension) (microsecond) |

**RTS 22**

| Field name | Trading venue transaction identification code (TVTIC) | Trading date and time (trade contraction time enhancement) |
|---|---|---|
| Field number (RTS 22) | Field 03 | Field 28 |
| Field type | outbound | outbound |

**Fix 4.2 and Fix 4.4**

| Field action | new | TS-extension (from 9 to 12 digits) |
|---|---|---|
| FAGSE-Tag (XONTRO-Fix) | 1903 = TVTIC RegulatoryTradeID 1906 = 5 RegulatoryTradeID Type 1907 = 1 NoRegulatoryTrade IDs | 60 TransactTime (UTC-TS-microsec) |

## 3 - Trade entry interface  (Fix 4.2, Fix 4.4)

Relevant structures

Request - TradeCaptureReport                              Structural modification

- Field extension „Tag 5179 - TradeTime" from 4 digits (HHMM)
  onto 6 digits (HHMMSS)

## **4 - Trade reponse interface** (Fix 4.2, Fix 4.4)

Relevant structures

Broadcast - Trade Capture Report SNO          Structural enhancement

**RTS 22**

| Field name | Trading venue transaction identification code (TVTIC) | Buyer identification code | Seller identification code | Venue | OTC post-trade indicator | Time of entry (Eingabezeit) | Trading date and time (Abschlusszeit) |
|---|---|---|---|---|---|---|---|
| Field number (RTS 22) | Field 03 | Field 07 | Field 16 | Field 36 | Field 63 | --- | Field 28 |
| Field type | outbound | outbound | outbound | outbound | outbound | outbound | outbound |
| Field format (MiFID) | ALPHANUM_52 | ALPHANUM_50 | ALPHANUM_50 | ALPHANUM_4 | n * ALPHANUM_4 | --- | Date and Time |

**Fix 4.2 and Fix 4.4**

| Field action | new | extension | --- (always the first 4 digits of TVTIC) | new *update* | extension *update* | extension *update* |
|---|---|---|---|---|---|---|
| FAGSE-Tag (XONTRO-Fix) | 1903 = TVTIC RegulatoryTradeID 1906 = 5 RegulatoryTradeID Type 1907 = 1 NoRegulatoryTrade IDs | 452 - PartyRole = 17 (= ContraFirm) 447 - PartyIDSource = D (= KVNR) 448 - PartyID = ContraFirm KVNR **and** 452 - PartyRole = 17 (= ContraFirm) 447 - PartyIDSource = N (= LEI) 448 - PartyID = ContraFirm LEI | --- | **ACTX** **CANC** 828 TrdType 9001 = ACTX 9002 = CANC 9101 = ACTX CANC | 769 = Eingabezeit (Bsp.: 20170526-11:55:30.000**000**) 770 = 2 TrdRegTimestamp Type | 769 = Abschlusszeit (Bsp.: 20170526-11:55:15.123**456**) 770 = 1 TrdRegTimestamp Type |

## 4 - Trade reponse interface (Fix 4.2, 4.4)

### Relevant structures

Broadcast - Trade Capture Report SNO　　　　　Structural enhancement

**RTS 22**

| | |
|---|---|
| Field name | Partial quantity or face value |
| Field number (RTS 22) | --- |
| Field type | outbound |
| Field format (MiFID) | --- |
| Field content (MiFID) | --- |
| Field content (XONTRO) | Partial quantity or face value |

**RTS 22**

| | |
|---|---|
| Field name | Partial quantity or face value |
| Field number (RTS 22) | --- |
| Field type | outbound |

**Fix 4.2 und 4.4**

| | |
|---|---|
| Field action | new |
| FAGSE-Tag (XONTRO-Fix) | 119 SettlCurrAmt |

**5 - Information concerning Pretrade Controls** (Fix 4.2, 4.4)

- RTS 7 of MiFID II / MiFIR outlines, amongst other things, that and how certain „Pretrade Control Plausibilities" are to be implemented resp. to be provided within the trading venues. By means of these measures, the impediment or failure of the „normal" trading functionality upon arrival of orders having certain (misleading) properties should be prevented.

- Within the XONTRO exchange trading venues, this aim is (among others) to be reached by implementing a rule that, in the future, only a certain maximum order size will be allowed per order and for a given trading venue. The volume of an order will hereby be expressed by the market value of the order; this will be calculated as „order volume multiplied by the limit included into the order" and this value must not overrun a certain pre-determined value expressed in EURO. These values (in EURO) will be pre-determined for the relevant XONTRO trading venues and there for all instruments and market segments consistently. The publication of these values for the respective trading venues will be done in the near future.

## 5 - Information concerning Pretrade Controls (Fix 4.2, 4.4)

▪ In case the value of the calculated market size of an order exceeds the maximum value allowed on that platform, the participant will receive the following ComplCod:

**„ComplCod 0002120900 PRICE FIXINGS TOTAL VALUE EXCEEDS MAXIMUM / OPT OUT FLAG"**

If desired, however, the participant may also pass over this Pretrade Control Plausibility by adding the so called „Opt Out Flag" to the order.

# MiFID II
XONTRO – Interface adaptations – Overview (SAKI-SWIFT)

## Relevant areas - SAKI-SWIFT

- 1 - Trade entry interface (MT511)

- 2 - Trade reponse interface (MT512, MT599)

- An important note for all SAKI-SWIFT order routing users:

  An SAKI SWIFT order message adaptation according to the MiFID II regulatory demands will not be carried out. Therefore, the participants are urged to process their SWIFT order routing via the MiFID II compliant SAKI FIX interface, or via the 3270 dialog screen interface, beginning on January 1st, 2018.

  The order routing functions towards the funds settlement platform INVESTRO will not be affected by this measure, and thus will remain unchanged and ready for services in the future.

## 1 - Trade entry interface (SWIFT – MT511)

Relevant structures

OTC entries          MT511 Direct (OTC) trade entries          Structural modification

- Field extension „31P – Abschlussuhrzeit (Trade contraction time)" from 4 digits (HHMM) onto 6 digits (HHMMSS)

## 2 - Trade reponse interface (SWIFT – MT512)

**Relevant structures**

| SNO-DT | *please see MT512 and MT599* | |
|---|---|---|
| RT-SNO | MT512 - Schlussnoten / Contract notes (SNO) | Structural enhancement |
| RT-SNO-OR | MT599 - SNO Orderreferenzen / SNO Orderreferences | Structural enhancement |

**RTS 22**

| Field name | Trading venue transaction identification code (TVTIC) | Buyer identification code | Seller identification code | Venue | OTC post-trade indicator | Time of entry (Eingabezeit) | Trading date and time (Abschlusszeit) |
|---|---|---|---|---|---|---|---|
| Field number (RTS 22) | Field 03 | Field 07 | Field 16 | Field 36 | Field 63 | --- | Field 28 |
| Field type | outbound | outbound | outbound | outbound | outbound | outbound | outbound |
| Field format (MiFID) | ALPHANUM_52 | ALPHANUM_50 | ALPHANUM_50 | ALPHANUM_4 | n * ALPHANUM_4 | --- | Date and Time |

**SWIFT (MT512)**

| Field action | new | new | new | new | extension +2 digits | extension +4 digits |
|---|---|---|---|---|---|---|
| Field name | 20F-TVTIC (optional) | 82D-LEI-KONT (optional) | 30-MIC-VENUE (optional) | 30-OTC-PT-ID (optional) | 30-UHRZEIT | 72-UHR |
| Field format | PIC X(52) | PIC X(20) | PIC X(04) | PIC X(3) | PIC 9(06) | PIC 9(12) |
| Field content | TVTIC | Corresponding counterpart-LEI | Segment MIC | OTC post-trade indicator<br>001 = ACTX<br>002 = CANC<br>101 = ACTX CANC | HHMMSS | HHMMSSDDDDDD |

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## 1 - Trade reponse interface (SWIFT – MT599)

| Relevant structures | SNO-DT | *please see MT512 and MT599* | |
|---|---|---|---|
| | RT-SNO | MT512 - Schlussnoten / Contract notes (SNO) | Structural enhancement |
| | RT-SNO-OR | MT599 - SNO Orderreferenzen / SNO Orderreferences | Structural enhancement |

**RTS 22**

| Field name | Partial quantity or face value |
|---|---|
| Field number (RTS 22) | --- |
| Field type | outbound |
| Field format (MiFID) | --- |
| Field content (MiFID) | --- |
| Field content (XONTRO) | Partial quantity or face value |

**RTS 22**

| Field name | Partial quantity or face value |
|---|---|
| Field number (RTS 22) | --- |
| Field type | outbound |

**SWIFT (MT599)**

| Field action | new |
|---|---|
| Field name | 79F-ABETRAG-NK4 |
| Field format | PIC (10,4) |
| Field content | Partial quantity or face value |

Note: At present, participante receive a maximum of 34 order references per MT 599; in the future this will be a maximum of 25 order references per MT599.

*Update 4*

**Relevant areas – System interface broker (SAM)**

- 1 - Order entry interfaces

- 2 - Order reponse interfaces

- 3 - Quote entries

- 4 - Price fixing function

- 5 - Trade entry interface (only Max-ONE Specialist)

- 6 - Trade reponse interfaces

- 7 - Aufgabe (broker trade) entries

- 8 - Master Data Transfer (tickSizeXontro)

- 9 - Information concerning Pretrade Controls (update)

# MiFID II
## XONTRO – Interface adaptations – Detailed description (SAM)

**BRAINTRADE**
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*Update 4 & 5*

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## 1 - Order entry interfaces

| Relevant structures | Request - Enter Order SKM | Structural enhancement | (bc_request_ent_ord_skmT) |
| --- | --- | --- | --- |
| | Request - Enter Order FM | Structural enhancement | (bc_request_ent_ordT) |
| | Request - Modify Order SKM | Structural enhancement | (bc_request_mod_ordT) |
| | Request - Modify Order FM | Structural enhancement | (bc_request_mod_ordT) |
| | Request - Delete Order SKM | Structural enhancement | (bc_request_del_ord_skmT) |
| | Request - Delete Order FM | Structural enhancement | (bc_request_del_ordT) |

**RTS 24**

| | | | | | | | | | | | RTS 7 | RTS 9 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field name | DEA | CIC-ID | CIC | IDWF-ID | IDWF | EXWF-ID | EXWF | Trading Capacity | Liquidity Provision Activity | Non Executing Broker | Opt-Out-Flag | Kill-Flag |
| Field number (RTS 24) | Field 02 | --- **update** | Field 03 | --- **update** | Field 04 | --- **update** | **Field 05 update** | Field 07 | Field 08 | **Field 06 update** | --- | --- |
| Field type | optional | conditional | conditional | conditional | conditional | ~~mandatory~~ conditional | ~~mandatory~~ conditional | optional | optional | optional | optional | optional |
| Field format (MiFID) | *ALPHANUM_5* | *(ALPHANUM_4)* | *ALPHANUM_50* | *(ALPHANUM_2)* | *ALPHANUM_50* | *(ALPHANUM_2)* | *ALPHANUM_50* | *ALPHANUM_4* | *ALPHANUM_3* | *ALPHANUM_20* | *(ALPHANUM_1)* | *(ALPHANUM_1)* |
| Field scope | Enter Modify | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter Modify Delete | Enter --- --- | Enter --- --- | Enter --- --- | Enter Modify --- | --- --- Delete |

**SAM**

| Field action | new | new | new | new | new | new | new | new | new | existing | new | new |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field name | deaFlag | clientInd | clientCod | investmentInd | investmentCod | executionInd | executionCod | tradCapacityCod | liquidityProvFlag | bkrNo | optOutFlag | killFlag |
| Field format | char[1] | char[1] | char[20] | char[1] | char[20] | char[1] | char[20] | char[1] | char[1] | num[4] | char[1] | char[1] |
| Field content | J [blank] (default) | 1 = Shortcode 4 = User-ID **L = LEI** A = AGGR P = PNAL [blank] | ShortCode User-ID [blank] | 1 = Shortcode 2 = Algo 4 = User-ID [blank] | ALGO ShortCode User-ID [blank] | 1 = Shortcode 2 = Algo ~~3 = CLIENT~~ **3 = NORE** 4 = User-ID | ALGO ShortCode User-ID | M = MTCH D = DEAL A = AOTC [blank] (default AOTC) | J [blank] (default) | Non Executing Broker (Link to LEI via CBF-Acct.-No.) | N [blank] (default) | J [blank] (default) |

**Omission of field: regulatoryID**

## 2 - Order reponse interfaces

Relevant structures

Broadcast - BCBE_EXECUTION_SKM          Structural enhancement          (bc_brd_exec_confT)
Broadcast - BCBE_EXECUTION_SKM_TO_FM     Structural enhancement          (bc_brd_exec_confT)

**RTS 22**

| Field name | Trading venue transaction identification code (TVTIC) | Trading date and time (trade contraction time enhancement) |
|---|---|---|
| Field number (RTS 22) | Field 03 | Field 28 |
| Field type | outbound | outbound |
| Field format (MiFID) | ALPHANUM_52 | Date and Time |
| Field content (MiFID) | --- | YYYY-MM-DDT hh:mm:ss.ddddddZ |
| Field content (XONTRO) | Segment MIC (4 digits) + ISIN (12 digits) + Trading day (8 digits) + Price confirmation time (12 digits) | 8 digits (1/100 sec) + 4 digits (extension) (microsecond) |

**RTS 22**

| Field name | Trading venue transaction identification code (TVTIC) | Trading date and time (trade contraction time enhancement) | Algo-Flag |
|---|---|---|---|
| Field number (RTS 22) | Field 03 | Field 28 | --- |
| Field type | outbound | outbound | outbound |

**SAM**

| Field action | new | new (extension field) | new |
|---|---|---|---|
| Field name | tvTic | tradMtchPrcTim Fraction | algoFlag |
| Field format | char[52] | num[4] | char[1] |
| Field content | TVTIC | dddd (millisecond) | J = Algo [blank] |

## 3 - Quote entries

Request - BC_ENTER_QUOTE_RID                Structural modification*            (bc_brd_ent_quote_feT)
Broadcast - BCFE_ENTER_QUOTE               Structural modification*            (bc_brd_deact_quote_feT)
Broadcast - BCFE_DEACTIVATE_QUOTE          Structural modification*            (bc_request_ent_quoteT)
Broadcast - BCBE_ENTER_QUOTE               Structural enhancement**           (bc_brd_deact_quoteT)
Broadcast - BCBE_DEACTIVATE_QUOTE          Structural enhancement**           (bc_brd_ent_quoteT)

*Structural modification - replaced - requestTimFE - with - quoteTimeStamp - num[12]

**Structural enhancement - new Field - quoteTimeStamp - num[12]

# MiFID II
XONTRO – Interface adaptations – Detailed description (SAM)

## 4 - Price fixing function

Broadcast - BCBE_ENTER_PRICE                         Structural enhancement*         (bc_brd_ent_priceT)
Broadcast - BCFE_ENTER_PRICE                         Structural enhancement*         (bc_brd_ent_priceT)
Broadcast - BCBE_ENTER_PRICE_TAB                     Structural enhancement*         (bc_brd_ent_priceT)
Broadcast - BCBE_ENTER_PRICE_MODIFICATION_TAB        Structural enhancement*         (bc_brd_ent_priceT)
Broadcast - BCFE_ENTER_PRICE_PLUS                    Structural enhancement*         (bc_brd_ent_price_plusT)
Broadcast - BCFE_ENTER_BLOCK_PRICE                   Structural enhancement*         (bc_brd_ent_block_priceT)

*Structural enhancement - new Fields - venueMic char[4] - tradMtchPrcTimFraction - num[4]

## XONTRO – Interface adaptations – Detailed description (SAM)

## 5 - **Trade entry interface** (SAM für Max-ONE)

<u>Relevant structures</u>

| Request - Enter Exchange Trade (Max-ONE) | Structural enhancement | (bc_request_enter_exchange_tradeT) |
|---|---|---|

**RTS 22**

| Field name | Trading venue transaction identification code (TVTIC) | Buyer identification code | Seller identification code | Venue | OTC post-trade indicator | Trading date and time (trade contraction time) | Short Sell Indicator |
|---|---|---|---|---|---|---|---|
| Field number (RTS 22) | Field 03 | Field 07 | Field 16 | Field 36 | Field 63 | Field 28 | --- |
| Field type | mandatory | conditional | conditional | mandatory | conditional | mandatory | conditional |
| Field format (MiFID) | ALPHANUM_52 | ALPHANUM_50 | ALPHANUM_50 | ALPHANUM_4 | n * ALPHANUM_4 | Date and Time | ALPHANUM_1 |

**SAM**

| Field action | new | The LEI-code will be determined within XONTRO and forwarded onto the participants | The LEI-code will be determined within XONTRO and forwarded onto the participants | The LEI-code will be determined within XONTRO and forwarded onto the participants | new | new (extension field) | new *update* |
|---|---|---|---|---|---|---|---|
| Field name | tvTic from Max-ONE | ctpyNoBid | ctpyNoAsk | --- | otcPostTradInd | tradContTim Fraction | shortSellCod |
| Field format | char[52] | num[4] | num[4] | --- | char[3] | num[4] | char[2] |
| Field content | MO-TVTIC | Buyer identification code | Seller identification code | --- | MO-OTC posttrade indicator | microseconds | KL = no short sell<br>KI = info not available<br>LM = short sell with Exemption<br>LO = short sell without Exemption |

## 6 - Trade reponse interface (Broker diary)

**Relevant structures**

Broadcast - BCBE_BROKER_DIARY      Structural enhancement      (bc_diaryT)
Inquire - BCBE_DIARY      Structural enhancement      (bc_diaryT)

**RTS 22**

| Field name | Trading venue transaction identification code (TVTIC) | Buyer identification code | Seller identification code | Venue | OTC post-trade indicator | Time of entry (Eingabezeit) | Trading date and time (Abschlusszeit) | Price fixing sequence number | Short Sell Indicator |
|---|---|---|---|---|---|---|---|---|---|
| Field number (RTS 22) | Field 03 | Field 07 | Field 16 | Field 36 | Field 63 | --- | Field 28 | --- | --- |
| Field type | outbound | outbound | outbound | outbound | outbound | outbound | outbound | outbound | outbound |
| Field format (MiFID) | ALPHANUM_52 | ALPHANUM_50 | ALPHANUM_50 | ALPHANUM_4 | n * ALPHANUM_4 | --- | Date and Time | --- | --- |

**SAM (Broker Diary - Broadcast and Inquire)**

| Field action | new | existing field & new | existing field & new | new | new | existing field | new (extension fields) | new | new *update* |
|---|---|---|---|---|---|---|---|---|---|
| Field name | tvTicAsk tvTicBid | ctpyNoBid ctpyLeiBid | ctpyNoAsk ctpyLeiAsk | venueMic | otcPostTradIndAsk otcPostTradIndBid | tradTim | tranContTimFractionAsk tranContTimFractionBid | tradMtchPrcNoAsk tradMtchPrcNoBid | shortSellCod |
| Field format | char[52] char[52] | num[4] char[20] | num[4] char[20] | char[4] | char[3] char[3] | num[8] | num[4] num[4] | num[5] num[5] | char[2] |
| Field content | TVTIC | Buyer identification code | Seller identification code | Segment-MIC | OTC post-trade indicator aus MO | Time of entry (Eingabezeit) | Microseconds | Price fixing sequence number | KL = no short sell KI = info not available LM = short sell with Exemption LO = short sell without Exemption |

**Omission of Broker Diary fields: tradMtchPrcNo; tradMtchPrcTim; tradMtchPrcDat**

# MiFID II
## XONTRO – Interface adaptations – Detailed description (SAM)

## 7 - Aufgabe (broker trade) entries

Request - BC_MODIFY_BROKER_TRADE_RID          New Structure*          (bc_request_mod_btradeT)

*New Structure - new Fields - btradeNo num[13] - isinCod char[12] - shortSellInd num[1]

Request - BC_ENTER_BROKER_TRADE_RID          Structural enhancement**          (bc_request_ent_btradeT)
Request - BC_ENTER_SINGLE_TRADE_RID          Structural enhancement**          (bc_request_enter_single_tradeT)
Broadcast - BCBE_MODIFY_BTRADE          Structural enhancement**          (bc_brd_mod_btradeT)

**Structural enhancement - new Field - shortSellInd - num[1]

Broadcast - BCBE_ENTER_BTRADE          Structural enhancement***          (bc_brd_ent_btradeT)
Broadcast - BCBE_ENTER_BTRADE_2          Structural enhancement***          (bc_brd_ent_btrade_2T)
Broadcast - BCFE_ENTER_BTRADE          Structural enhancement***          (bc_brd_ent_btrade_feT)
Broadcast - BCFE_ENTER_BTRADE_2          Structural enhancement***          (bc_brd_ent_btrade_fe_2T)
Inquire - BCBE_BTRADE          Structural enhancement***          (bc_btradeT)
Inquire - BCBE_BTRADE_2          Structural enhancement***          (bc_btrade_2T)

***Structural enhancement - new Fields - ctpyLei char[20] - venueMic char[4] - tvTic char[52] - tradContTimFraction num[4]
                                        - shortSellInd num[1] - otcPostTradInd char[3]

XONTRO – Interface adaptations – Detailed description (SAM)

## 8 - Master Data Transfer (tickSizeXontro)

Relevant structures

Inquire - XONTRO Inquire Skontro Data        (BC_INQUIRE_SKONTRO_DATA_RID)

- Within the course of the MiFID II implementation, the field values range of the field „tickSizeXontro" will also be extended. This field is used to mark up the tick size rules for the XONTRO exchange trading venues.

- In addition to the values of the WM Field XD 546 valid so far, the valid tick size key values provided by ESMA for equities will also be transmitted using this field in the future.

- The specific parameter values will be published within this document, as well as within the XONTRO SAM Values API, as soon as they will have been published by ESMA.

## 9 - Information concerning Pretrade Controls

- RTS 7 of MiFID II / MiFIR outlines, amongst other things, that and how certain „Pretrade Control Plausibilities" are to be implemented resp. to be provided within the trading venues. By means of these measures, the impediment or failure of the „normal" trading functionality upon arrival of orders having certain (misleading) properties should be prevented.

- Within the XONTRO exchange trading venues, this aim is (among others) to be reached by implementing a rule that, in the future, only a certain maximum order size will be allowed per order and for a given trading venue. The volume of an order will hereby be expressed by the market value of the order; this will be calculated as „order volume multiplied by the limit included into the order" and this value must not overrun a certain pre-determined value expressed in EURO. These values (in EURO) will be pre-determined for the relevant XONTRO trading venues and there for all instruments and market segments consistently. The publication of these values for the respective trading venues will be done in the near future.

## 9 - Information concerning Pretrade Controls

- In case the value of the calculated market size of an order exceeds the maximum value allowed on that platform, the participant will receive the following ComplCod:

  **„20900 Kurswert überschreitet zulässigen Grenzwert"** (Translation: „PRICE FIXINGS TOTAL VALUE EXCEEDS MAXIMUM")

  If desired, however, the participant may also pass over this Pretrade Control Plausibility by adding the so called „Opt Out Flag" to the order.

  The msg_dat will be extended by this error message.

**XONTRO
Interface adaptations**

**- Time formats -**

# MiFID II
## XONTRO – Interface adaptations – Time formats

**Time formats for the resp. interfaces used**

- SAKI-FIX (Order part) — UTC Time
  SAKI-FIX (Trade part) — UTC Time
  SAKI-FIX (Max-ONE) — UTC Time

- SAKI-SWIFT (Order part) — Local Time
  SAKI-SWIFT (Trade part) — Local Time
  SAKI-SWIFT (Max-ONE) — Local Time

- SAM (Order part) — Local Time
  SAM (Trade part) — Local Time
  SAM (Max-ONE) — Local Time

- 3270-Dialog (Order screens) — Local Time
  3270-Dialog (Trade screens) — Local Time
  3270-Dialog (Max-ONE) — Local Time

- Please consider the MiFID II demands with respect to the timing circuit components used by your system hardware.

**XONTRO
Interface adaptations**

**- 3270 dialog functionalities -**

# MiFID II
XONTRO – 3270 dialog functionalities

**Deactivation of XONTRO 3270 dialog functionalities**

- The following 3270 dialog functionalities will be abolished as per 5th of June, 2017:

    - BREB/EG    (KI – Order collective entry per instrument)
    - BREB/OL    (KI – Order block deletion per instrument)
    - BROF/GO    (Broker – Order entry)
    - BROF/UW    (Broker – Orders forwarded)

**Short code file**
**- Detailed description -**

# MiFID II
## XONTRO – Interface adaptations – Short code file

## Description Short code file

**RTS 24**

| Field name | CBF-Account-No. | valid from (Trading day) | ShortCode | LongCode-ID | LongCode |
|---|---|---|---|---|---|
| Field type | mandatory | mandatory | mandatory | mandatory | mandatory |
| Field format (XONTRO) | num[4] | date[jjjjmmtt] | num[18] | char[2] | char[50] |
| Field content (XONTRO) | CBF-Account-No. | Trading day of report | Shortcode | 22 = Algo<br>23 = LEI<br>24 = Nat. Person | Algo-ID<br>LEI<br>Nat.-ID |

**Note:** **Further details regarding the short code processing may be taken from the XONTRO MiFID II Newsletter 03 dated 2017-07-14.**
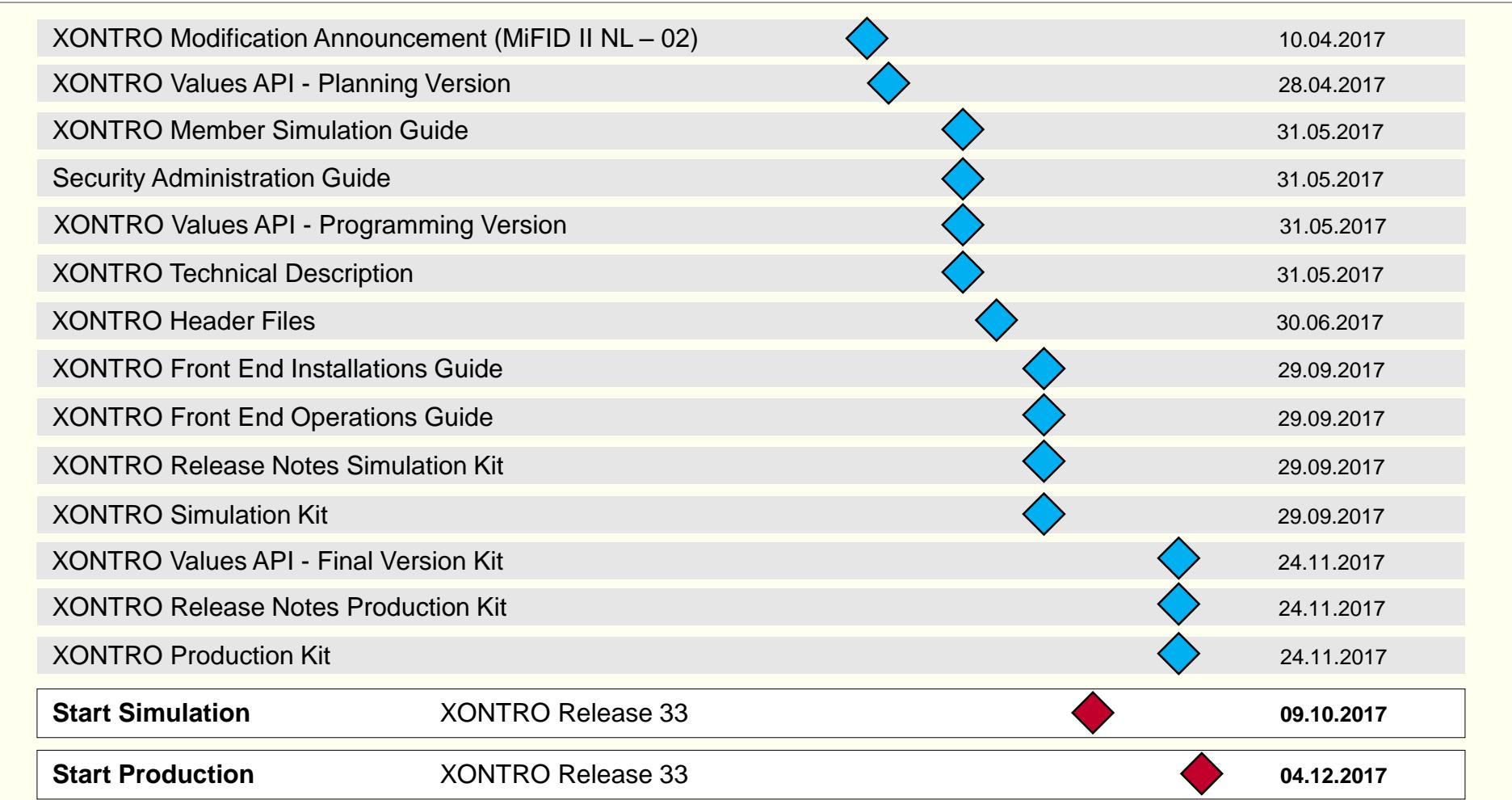
**Time line and
contact channels**

# MiFID II
## XONTRO – Interface adaptations – Timeline

*Timeline – SAKI SWIFT, SAKI Fix, SNO-DT, Dialog*

| | |
|---|---|
| Customer information (MiFID II NL – 02) ◆ | 28.03.2017 |
| ~~XONTRO SAKI Fix RoE – Planning Version~~ | ~~28.04.2017~~ |
| ~~XONTRO SAKI SWIFT SNO – Planning Version~~ | ~~28.04.2017~~ |
| XONTRO SAKI Fix RoE – Programming Version ◆ | 31.05.2017 |
| XONTRO SAKI SWIFT SNO – Programming Version ◆ | 31.05.2017 |
| New SWIFT Converter version delivery onto the SAKI members ◆ | 31.07.2017 (t.b.c.) |
| **Start member simulation**     XONTRO Release 33 ◆ | **09.10.2017** |
| **Start production**     XONTRO Release 33 ◆ | **04.12.2017** |

# MiFID II
## XONTRO – Interface adaptations – Timeline

*Timeline – SAM*

| | |
|---|---|
| XONTRO Modification Announcement (MiFID II NL – 02) | 10.04.2017 |
| XONTRO Values API - Planning Version | 28.04.2017 |
| XONTRO Member Simulation Guide | 31.05.2017 |
| Security Administration Guide | 31.05.2017 |
| XONTRO Values API - Programming Version | 31.05.2017 |
| XONTRO Technical Description | 31.05.2017 |
| XONTRO Header Files | 30.06.2017 |
| XONTRO Front End Installations Guide | 29.09.2017 |
| XONTRO Front End Operations Guide | 29.09.2017 |
| XONTRO Release Notes Simulation Kit | 29.09.2017 |
| XONTRO Simulation Kit | 29.09.2017 |
| XONTRO Values API - Final Version Kit | 24.11.2017 |
| XONTRO Release Notes Production Kit | 24.11.2017 |
| XONTRO Production Kit | 24.11.2017 |
| **Start Simulation**     XONTRO Release 33 | **09.10.2017** |
| **Start Production**     XONTRO Release 33 | **04.12.2017** |

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