Manual

July 2020

Version 3.0



Contents

1	Revision History	duction 5 Scope 5 References 6
2	Introduction	5
	2.1 Scope2.2 References	-
3	Turquoise	6
	3.1 Turquoise Order Books	7

3.2	Turquoise Block Discovery™	9
3.3	Event Model	9

4 MARKET INFORMATION AND TRADING 12

- 4.1 Price Info
- 4.2 Order entry and Block Indication (BI) submission

12

13

5 TRADING MANAGER WINDOW 18

July, 2020

1 Revision History

Date	Version	Description	Author
15 th October 2014	1.0	First release	Borsa Italiana
12 th May 2015	1.1	Second release	Borsa Italiana
28 th April 2016	1.2	Minor updates and replace of BTS with BTS [®] registered trademark	Borsa Italiana
5 th July 2016	1.3	Screenshot replacement due to Order Type field introduction	Borsa Italiana
January 2018	2.0	MIFID II adaptations	Borsa Italiana
July 2020	3.0	NYLON order book	Borsa Italiana

July, 2020

2 Introduction

BTS[®] is a multi market client application that works as a trading and information front-end for equities and derivatives markets.

Both broker and market maker functionality is supported, as well as additional functions to help activity control, supervision and post trading activities.

Algorithmic trading capabilities are also provided to enforce sophisticated trading and quoting strategies.

The following markets are currently supported:

- Turquoise
- London Stock Exchange Cash Markets
- CurveGlobal Market
- Borsa Italiana Cash Markets
- Borsa Italiana Derivatives Markets
- EuroTLX

2.1 Scope

This document provides basic information to use BTS[®] specifically in respect to Turquoise MTF. General information about BTS[®] functionality can be found in <u>BTS Reference guide.</u>

Further information about specific functions (e.g. authorization) can be found in dedicated manuals available on the BTS[®] page (<u>http://www.borsaitaliana.it/borsaitaliana/gestione-mercati/bts-bittradingstation/bts.en.htm</u>).

July, 2020

2.2 References

- BTS Quick Reference Guide
- <u>Authorization Service Guide</u>

3 Turquoise

Turquoise operates a Multilateral Trading Facility (MTF) with a discrete trading platform for cash equities. Members of Turquoise can access the equity platform providing they have the appropriate post-trade arrangements in place.

The Turquoise Equity platform offers the secondary trading of Pan-European and US equities, Exchange Traded Funds, Global Depositary Receipts, American Depositary Receipts, Exchange Traded Currency funds and Exchange Traded Commodity funds. Turquoise Equities comprises of the Turquoise Integrated Order Book and Turquoise Dark Midpoint Order Book, each covering some 4,200 securities (including 175 liquid US equities, ETFs, GDRs and ADRs) over 19 countries, including all major European markets, Czech, Hungary and the United States. Turquoise supports member-choice of central clearer under an interoperable CCP model.

Turquoise also supports unique features which differentiate it from other similar markets, such as **Turquoise Uncross**[™].

Turquoise also operates as an investment firm which is used for the provision of **Turquoise Block Discovery**[™].

In the following a high level summary is provided as a short reference for a better understanding of Turquoise functionality in the current BTS[®] implementation.

July, 2020

Disclaimer: The content of this chapter is provided for information purposes only. In case of discrepancies with official Turquoise documentation provided in http://www.lseg.com/markets-products-and-services/our-

<u>markets/turquoise/information-centre/document-library</u>, the official source provided by Turquoise via their website should be used and can be accessed for reference in the link provided.

3.1 Turquoise Order Books

Turquoise operates two discrete Order Books:

- The Turquoise Lit[™] Order Book which is transparent on a pre-trade and post-trade basis
- The **Turquoise Plato™** Order Book which is non-displayed pre-trade and transparent on a post-trade basis only
- The **Turquoise Plato Lit Auctions** ™ Order Book which is transparent on a pre-trade and post-trade basis
- The **Turquoise NYLON™** Cash Order Book which is non-displayed pre-trade and transparent on a post-trade basis only

Most of the securities are available for trading in both books, however some are available only in the Integrated Order Book.

The **Turquoise Lit**[™] Order Book supports continuous trading and executes persistent Orders on a Price, Display type, Time priority basis.

The **Turquoise Lit**[™] Order Book is transparent pre-trade and post-trade, and a full depth-ofbook feed including all displayed persistent orders and all trades are published to Participants and market data vendors.

Supported persistent Order types are Limit Orders (displayed), Iceberg Orders (partly displayed), LIS Hidden Orders (non-displayed). Supported non-persistent Order types, all of which are nondisplayed, are IOC/FAK Orders, FOK Orders and Market Orders. Minimum Accepted Quantity (MAQ) is supported on non-persistent Order types only.

July, 2020

The **Turquoise Plato**[™] Order Book is a `non-displayed' price-referencing Order Book.

At the start of the trading day, Trades take place at a Financial Instrument's Primary market Midpoint Price (PMP) until the Primary market's closing auction commences, then in the 'Trade At Last' (TAL) matching phase, Trades take place at the Primary market Closing Price (PCP) once received, until the end of the trading day.

Turquoise Plato[™] it is transparent post-trade but not pre-trade, and hence only trades are published. All Orders are non-displayed.

The Dark Midpoint Order Book operates with two matching modes:

- Continuous allowing the submission and matching of both persistent and nonpersistent Order types
- Turquoise Plato Uncross[™] allowing the submission and matching of persistent Order types only during Turquoise Plato Uncross[™] events, which occur repeatedly intraday

The **Turquoise Plato Lit Auctions**[™] Order Book facilitates the trading of non-displayed Limit Orders and/or Pegged Orders to the PMP (with or without a Limit Price, where when an Order cannot execute at the PMP due to its Limit Price, it will be treated as a Limit Order), by seeking and identifying matching opportunities. When matching opportunities are identified, an indicative auction price and volume is published.

The **Turquoise NYLON™** Cash Order Book is a non-displayed price-referencing Order Book which executes persistent Orders only during scheduled auction events (independent from all other Turquoise Order Books), with participation via Qualifying Orders and Non-Qualifying Orders, as subsequently defined.

July, 2020

3.2 Turquoise Block Discovery™

3.2.1 Introduction to Turquoise Block Discovery™

Turquoise Block Discovery[™] facilitates the trading of larger "Parent" or "Block" Orders by seeking and identifying block matching opportunities, between Block Indications (BI) (with a quantity above or equal to the Minimum Indication Size (MIS) threshold) and Block Discovery Notification (BDN). Where matches are identified, Participants are required to convert their BIs by submitting firm Qualifying Block Orders (QBO), designated as eligible for existing Turquoise Uncross[™] events that already exist as part of the MTF Dark Midpoint Order Book to trade at the Midpoint of the Primary Best Bid and Offer (PBBO).

The conversion of BIs into firm QBOs is monitored by a system of "**Reputational Scoring**" and surveillance which will immediately exclude Participants who do not meet the **Reputational Score Threshold**. Participants that do not meet the Reputational Score Threshold but want to be re-included must contact Turquoise Client Support and meet set criteria.

It is possible for a customer to access both the existing Turquoise Plato[™] Order Book and **Turquoise Block Discovery[™]** for a single Order, but this is not be the default behaviour. For Orders sent to Turquoise Dark Midpoint Order Book that are not explicitly flagged for participation in **Turquoise Block Discovery[™]**, the characteristics of the current Turquoise Plato[™] Order Book (including matching logic, priority, etc.) do not change.

3.3 Event Model

Turquoise Block Discovery[™] follows the following event flow:

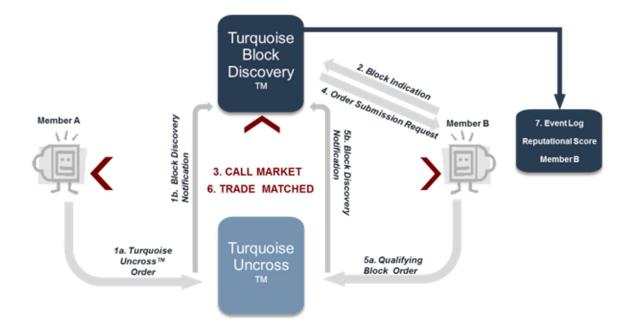
1. Participant's submission of BIs and BDNs¹.

¹ A BDN is an order sub type and corresponds to a live order submitted to the dark book and is eligible for participation in **Turquoise Block Discovery**[™].

July, 2020

- 2. Ahead of a **Turquoise Uncross**[™] in the MTF, matching of BIs and BDNs to identify possible block trading opportunities.
- 3. Where potential matches are identified, request Participants to submit firm QBOs to Turquoise MTF via Order Submission Requests (OSR).
- 4. Short window for Participant's submission of firm QBOs to the Turquoise MTF.
- 5. Matching of orders by Turquoise MTF in the **Turquoise Uncross**TM.
- 6. Composite Reputational score is updated with Event Reputational Score.

In the following a short description about the steps to be followed is provided, along with a reference to BTS[®] input elements; a more detailed description about BTS[®] usage is given later on in the next main chapters.



July, 2020

1 – **Order+BDN/BI submission**: Orders/BIs are entered into BTS[®] via Order Entry/new BI window. Order entry window allows users to send an order + BDN (regular order + BDN sub type, see picture on left side '1a' and '1b'), whilst the new BI window allows users to send a BI (see picture on right side '2'). No BDN or BI information is sent to any other Participant.

2 – **BI/BDN matching ahead of a Turquoise Uncross™ event**: On receipt of a Call Market, **Turquoise Block Discovery™** identifies potential matches where the Minimum Execution Size of the Participant's BI has been met. The counterparty matching opportunity could either be a BDN (corresponding to a firm order), or a BI subject to immediate firming-up upon demand.

3 – **OSR issued to matching BI owners**: If a potential match is identified involving a BI, the Participant is sent an OSR requesting they firm up (submit) their QBO to Turquoise MTF. If the counterparty matching opportunity is also a BI, then the counterparty will also receive an OSR and their matched BI will be expired automatically.

No details regarding nature of counterparty order+BDN/BI is provided, no information is sent to any other Participant. OSRs messages are received and managed automatically by BTS[®] servers.

4 – **QBO submission to Turquoise** : OSR recipients have up to 450ms (being the Order Submission Interval 500ms (+/- 1ms), less a 50ms delay) to submit a firm QBO to the MTF: <u>BTS[®]</u> handles this phase transparently and automatically for the user.

5 – **Orders matching**: When the **Turquoise Uncross**TM takes place executions are confirmed, and un-matched residuals of Orders submitted for the single **Turquoise Uncross**TM only are expired. Participants receive execution reports which can be seen in BTS[®] Trading Manager.

6 - **Composite Reputational Scores update**: Composite Reputational Scores are updated for each Participant receiving an OSR. Participants are advised of their Composite Reputational Score on the next OSR that they receive, BTS[®] reports the Score in the Trading Manager window.

July, 2020

4 MARKET INFORMATION AND TRADING

4.1 Price Info

		Market Turquoise		Currency	-1	erlying		xpiry	Issuer		dd	Clear	ļnstru	ment	Selec	tor
Watcher		Turquoise			<u> </u>							Clear				
g A	Curr	ISIN	Instr	Phase		BSize	Bid	Ask	ASize	LastTrdPrc	LastTrdSize	LastTrdTime	High	Low	CumSize	NumTrade
	EUR	AT0000908504	VIENNA INSURANCE GROUP	Regular	rading	498,334	38.11	39.675	488,334	38.11	5,000	09:40:44.025	39.675	38.11	20,000	
	EUR	BE0003470755	SOLVAY	Regular	rad 2	0 : 84	0.11	120.55	162,084	115.70	1,500	09:41:26.646	120.55	115.70	4,500	
	CHF	CH0038863350	NESTLE N	Regular	rading	373,202	62.40	65.05	370,307	62.40	605	09:42:13.322	65.05	62.40	18,105	
	CZK	CS0008418869	PHILIP MORRIS(CZ)	Regular	Trading	13,047	11259.00	11720.00	17,047	11259.00	3,500	09:42:22.370	11259.00	11259.00	4,000	
	EUR	DE0005493092	BORUSSIA DORTMUND	Regular	Trading	989,200	3.007	3.132	1,000,000	3.007	5,400	09:42:36.722	3.007	3.007	10,800	
	DKK	DK0060228559	TDC A/S	Regular	Trading	1,000,000	41.65	43.38	679,600	43.38	320,400	09:32:05.116	43.38	43.38	320,400	
	USD	US29843U2024	EURASIA S	Regular	Trading	657,636	37.82	37.86	638,241	37.86	10,000	10:00:32.659	37.86	37.82	20,605	
	EUR	ES0113900J37	BANCO SANTANDER	Regular	Trading	937,000	5.913	6.156	1,000,000	5.913	9,000	09:43:21.338	5.913	5.913	63,000	
	EUR	FI0009014716	TALVIVAARA	Regular	Trading	999,900	1.001	1.044	999,800	1.044	200	09:49:46.666	1.044	1.001	300	
	EUR	FR0000120073	AIR LIQUIDE	Regular		203,581	94.03	97.88	198,570	97.88	5,000	09:51:26.759	97.88	94.03	6.011	
	GBX	GB0008847096	TESCO	Regular	Contractor of Contractor	999,500	360,45	360.70	985,000	360,70	5,000	10:01:01.863	360.70	360,45	15,500	
	HUE	HU0000089867	PANNERGY PLC	Regular	Trading	1,000,000	404.00	423.00	989,800	423.00	2,100	09:44:06.393	423.00	423.00	10,200	
	EUR	IE0002588105	PADDY POWER PLC	Regular		316,344	59.96	62.43	319,744	59.96	1.500	09:44:22.306	59.96	59.96	3,500	
	EUR	IT0001137345	AUTOGRILL	Regular		1.000.000	9.25	9.64	500.000	9.64	500.000			9.25	506,000	
	EUR	NL0000008977	HEINEKEN HOLDING	Regular		434.147	43.665	45.46	439,367	43.665		09:44:42.772		43,665	7.830	
	NOK	BMG0451H1097	ARCHER	Regular		1.000.000	6,44	6,715	864,400	6,715	5,200			6,715	135,600	
		PTBCP0AM0007	B.COM.PORTUGUES	Regular		1,000,000	0.10	0.107	998,200	0.107		09:45:10.727	0.107	0.107	1,800	
	SEK	GB00B635TG28	ENQUEST PLC	Regular		1.000.000	12.82	13.37	980,000	13.37	5.000			13.37	20,000	
	TRY	TRAARCLK91H5		Regular		220,000	12.75	12.95	340,000	12.95		09:48:28.353		12.95	10.000	
		US09247X1019	BLACKROCK INC	Regular		91,636	231,755	241,216	85,636	231.755		09:48:45.013		231,755	33,000	
	030	0303247 1013	DEACHNOCHTING	regular	induling	31,030	2.5 1.1 55	24 162 19		251.755	3,000	05,40,45,015	241.210	2010 00	33,000	
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1 1	,000,0	00 360.250	360.900 3,000,000 3	-	350,000	360.35	50 360	.900	1,000,000	TESCO	360.	7 5,000 1	0:01:01.863	1,803,500	Regular	Trade
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				1	,000,000	360.1			1,000,000	RIO TI			0:00:57.874	735,600.0		Trade
							361	.000	1,000,000	SPAR			0:00:57.044	4,802,000		

The **Price Info** window displays real-time market data for a set of financial instruments selected by the user and allows order entry as well. The **Price Info** window can be opened by selecting the corresponding command in the Market Information menu. The window is made up by six four sections/areas: **Instrument Selector**, the **Watcher** panes, two **Market** (Prices and Orders) **Depth** panes, the embedded **Ticker**, and the **Orders Entry** pane.

Detailed information about the Price Info window can be found in the <u>BTS Reference guide</u>. In the following specific information relevant to Turquoise market is provided.

July, 2020

4.2 Order entry and Block Indication (BI) submission

It is possible to use pre-defined keys for quickly activating the Order Entry window as a separate window. Specifically, the available shortcuts for Turquoise instruments are the following:

Action	Shortcuts
Buy Order	F5
Sell Order	F9
New (Buy and Sell)	F7
New Trigger Order	Shift F7
Buy Trigger Order	Shift F5
Sell Trigger Order	Shift F9
Turquoise Block Discovery [™] - New BI	Alt F7
Turquoise Block Discovery [™] - Buy BI	Alt F5
Turquoise Block Discovery [™] - Sell BI	Alt F9

The Order Entry window can be also activated from the pop-up displayed when selecting the 'Orders' button (see side picture).

Type		Market Turquoise	k. New Buy Sell	F7 F6 F9	Und	erlying
📁 Watcher	1 _ ×		🕼 New TO	Shift-F7		
Seg 🛆	Curr	ISIN	Buy TO	Shift-F5		BSize
AT	EUR	AT000090850	The second se		Trading	498,334
BE	EUR	BE00034707	🚳 Sell TO	Shift-F9	Trading	163,584
CH	CHF	CH00388633	Turquoise Block Discovery	e 🕨	Ne	W BI Alt F7
CZ	CZK	CS000841886	PHILIP MORRIS(C2)	Regular	1 d. B.	WBI Alt-F5
DE	EUR	DE0005493092	BORUSSIA DORTMUND	Regular	T	BI AILFO
DK	DKK	DK006022855	TDC A/S	Regular	TL St	AIGE AIGES
	Contraction of the					

July, 2020

Upon selection a window appears where it is possible to enter Order Data and trigger an order event:

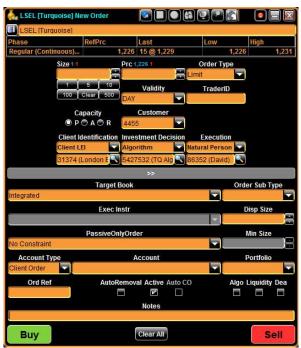
Some fields are related specifically to Turquoise orders, in the following some information is provided to enable the user to relate the field as displayed in the Order Entry window with the Turquoise Trading Service Description documentation.

For more detailed information please refer to Turquoise documentation :

routing

http://www.lseg.com/markets-products-and-services/our-markets/turquoise/informationcentre/document-library

- Target Book: each instrument is represented on two distinct books, and in addition
 - Dark Lit Sweep instruction:
 - o Integrated
 - Turquoise Plato ™Dark Midpoint
 - o Dark Lit Sweep
 - Turquoise Lit Auctions™
 - o Turquoise NYLON ™
- Exec Instruction: (Dark Midpoint only) states the trading phase(s) the order will participate, by default this field is



blank that is accepted as *Continuous* + *Turquoise Uncross*[™] by the Market:

Continuous only: Orders submitted will be open to immediate execution against contra persistent Orders during Continuous Trading;

July, 2020

- *Turquoise Plato Uncross*[™] *only*: Can be selected by Participants on Order entry whereby its Order will only be open to matching against contra-side Orders resting in the Dark Midpoint Order Book during the randomised **Turquoise Uncross**[™] events.
- *Turquoise Uncross™ only* can also be used by Participants on BI (or BDN) entry whereby its BI (or BDN) will only be open to matching against resting contra-side BIs/BDNs in **Turquoise Block Discovery™** events.
- Continuous and Turquoise Plato Uncross[™]: Orders submitted will be open to immediate execution against contra persistent orders during Continuous Trading and any unexecuted volume, and will rest on the book, open to Continuous matching and to matching occurring during the randomised Turquoise Plato Uncross[™] events.
- Turquoise Plato Uncross[™] then Continuous: Orders will not participate during Continuous trading and will wait to take part in the next Turquoise Plato Uncross[™]. Any remainder will be expired after the Turquoise Plato Uncross[™].

The Execution Instruction attribute is only applicable to Day, GTC, GTT and GTD Orders (Validity field).

- Order Sub Type: two different "Types of Order" can be specified, by default this field is blank and not considered:
 - Order + BDN (Dark Midpoint book only): A normal order and a BDN are simultaneously generated;
 - *Random Peak Size* (Integrated Book only): for Iceberg Orders the reload size is random, being its peak value given in the Disp Size field.
- **Passive Only Order**: orders will be accepted only if specific conditions are met, otherwise they are cancelled:
 - No constraint (provided as default value);
 - No match with visible contra order,
 - Setting/joining BBO;
 - Setting new visible BBO;

July, 2020

• Within 1 visible price-point,

- Within 2 visible price-points.
- Min Size (Minimum Acceptable Quantity (MAQ) Lit Book and Minimum Execution Size (MES) Dark Midpoint): The Order's MAQ or MES that is to be matched as a minimum during Continuous Trading or matched during *Turquoise Plato Uncross*[™] events.
- **Disp Size** (Integrated Book only): for Iceberg orders it states the size to be displayed on the book.
- Validity:
 - GFA Good for Auction (Dark Midpoint only): GFA Orders only take part in the Turquoise Uncross[™]. They are expired either after attempting to match during the Turquoise Uncross[™] it is scheduled to participate in or at the time of the scheduled Turquoise Uncross[™] if the Turquoise Uncross[™] fails to happen due to a WFMC failure for example;
 - **GTT Good Till Time:** An Order with an Expiry Time which will rest passively until executed or until the expiry time (or end of trading day) has been reached;
 - GTD Good Till Date + Expiry Time: A GTD Order with Expiry Time will be treated as a Day Order, expiring at the time specified that day or the close of the normal trading day on the day on which it was entered;
 - **Day:** A Day Order is valid until close of the normal trading day on the day on which it was entered (Default value).

July, 2020

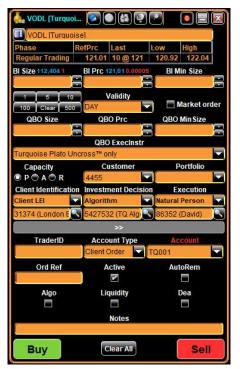
The 'New BI' order entry window is slightly different, due to the different parameters required

0

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to characterize **Turquoise Block Discovery**[™] Block Orders.

In this window User can enter the details of BI and QBO. QBO details will be stored by BTS[®] server and automatically sent in response to an Order Submission Request (OSR) received from **Turquoise Block Discovery**[™] (converting the BI into a firm QBO).

BI Details :	
BI Size : Size specified for BI;	
BI Prc : Price specified for BI;	
BI MinSize : MAQ specified for BI.	
QBO Details :	
QBO Size : Size specified for QBO;	

- *QBO Prc*: Price specified for QBO ;
- *QBO MinSize* : MAQ specified for QBO.
- O QBO ExecInstr : Turquoise Uncross™ only or Continuous and Turquoise Plato Uncross™

July, 2020

5 TRADING MANAGER WINDOW

The **Trading Manager** window allows to perform all trading operations. It shows orders and trades for a single market, which can be selected via the **Markets** option in the **Configuration** menu. Several **Trading Manager** windows can be opened for one or more markets.

Depending on the functionality level set for the group the user belongs to the **Trading Manager** window displays only the orders and trades related to the user (functionality level: operator) or all the orders and trades of all users belonging to the same member (functionality level: member). The **Trading Manager** is made out of three sections: **Orders** (upper), **Trades** (middle) and **Position Keeping** (lower).

rs = ×																	-						
ders - Filter OFF - 701	AL ORD	ERS: 1	69 - VISIB.	LE ORDERS:	169										rders								
it Instr	Side	Type	Prc	Size	WrkSize	Valid	ExpDate	OrdType	MktDate	TargetBook	RepScore E	xeSt	t St	LastEvnt	Qmin	quisp	EXCELLO	aexe	Qexe	NTrades Q	BO Prc	QBO Qmin	QBO Size
AUTOGRILL	В	OBO	8.5	3,000,000	0	GFA		Limit	2015/05/08 10:56:17.362	Dark Midpoint	-	TF	CL	Trade executed	2,000,000		6.94	100	3,000,000	1			
AUTOGRILL	В	BI		2,000,000		DAY		Market	2015/05/08 10:56:02.448	Dark Midpoint		NF	A	Creation accepted			0	0	0	0		2,000,000	3,000,00
NESTLE N	В	Bl	63.75		6	DAY		Limit	2015.05.08 10:38:38.936	Dark Midpoint		NF	А	Creation accepted	15,000		0	8	0	0	63.8	20,000	25,00
BLACKROCK INC	В		231.755				08/05/2015		2015/05/08 10:20:27.643	Integrated		NF		Creation accepted			0	0	0				
AUTOGRILL	В	BI		2,000,000		DAY		Limit	2015/05/08 10:56:15.610	Dark Midpoint		NF		Removed by marke							8.5	2,000,000	3,000,0
AUTOGRILL	В	0	9.45	2,500,000		DAY		Limit	2015/05/08 10:15:30.574	Dark Midpoint		PF		Trade executed			6.94	12	300,000				
AIRLIQUIDE	В	0		200,000		DAY		Market	2015/05/08 10:13:51.419	Integrated		TF		Trade executed			97.882	100	200,000				
TESCO	В					DAY		Limit	2015/05/08 10:13:32.629	Integrated		NF		Removal accepted									
ARCHER	S	0		1,200,000				Limit	2015/05/08 10:12:54.848	Integrated		PF		Trade executed			6.44		1,000,000				
PADDY POWER	B	10	59.67					Limit	2015/05/08 10:25:08.888	Integrated		NF		Modification accep	tea	50,000	0	0	0				
BORUSSIA DO	B	0	59.97	350,000		DAY		Limit	2015 05 00 10 11 00 001	Integrated		NF		Creation rejected			0	0	0				
BORUSSIA DO	B	0	3.131					Limit	2015/05/08 10:11:36.094 2015/05/08 10:11:18.435	Integrated Integrated		NIF NIF		Creation accepted Creation accepted			0	0	U 				
TESCO	B	0			1.000.000			Limit	2015/05/08 10:01118.435	Integrated		NF		Creation accepted			0	0	0				
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Detailed information about the Trading Manager window can be found in the <u>BTS Reference</u> guide.

Specific Turquoise information has been added, which is reflected into newly introduced columns, the Column Naming reflects the field name in the Order Entry window, in addition information taken from market answers is reported.

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