



Certificate of Communication Compliance with GPW WATS services

Certificate ID : GPW/20260618/Comarch/1

Applicant name : Comarch Spółka Akcyjna

Software name : Comarch Exchange Trading

Software version : 6

GPW WATS version : WATS_1.7

**The purpose of using
the software :**

✓	non algorithmic trading
✗	algorithmic trading

**Supports access to WSE
Services:**

✓	Order Gateway (FIX)
✗	Order Gateway (BIN)
✓	Drop Copy Gateway (FIX)
✗	Post Trade Gateway (FIX)
✓	Market Data Gateway

Giełda Papierów Wartościowych w Warszawie S.A. confirms that:

- *the certification process of the Applicant's solution has been conducted and was completed , success;*
- *no critical or blocking issues were identified during the tests, the tested certified solution meets the requirements for communication with GPW WATS System.*

This "Certificate of Communication Compliance with GPW WATS services" applies and remains valid solely to the GPW WATS System and tested scope, configuration and versions of the Applicant's solution.

I.	Session management functionalities of the software connected to Order Gateway	
	M - mandatory	✓ if confirmed; ✗ if not or not tested
	C01 Logon Management	
	(M) C01.1 Login failure due to invalid Token / RawData	✓
	(M) C01.2 Login successful due to valid login parameters	✓
	C02 Restart Management	
	(M) C02.1 Customer Application initiates reconnection - valid Login parameters	✓
	C03 Administrative Messages Management	
	(M) C03.1 Heartbeat handling by customer	✓
	C04 BCP SOFTWARE READINESS	
	(M) C04.1 Customer Application initiates switch from the primary Gateway to a secondary Gateway - valid Login parameters	✓
	C05 COD	
	C05.1 COD handling by customer	✗
II.	Trading management functionalities of the software connected to Order Gateway	✓ if confirmed; ✗ if not or not tested
	M – mandatory	
	T01 Incoming Messages Data Layout	
	(M) T01.1 Order Entry	✓
	T01.2 Order Modification - volume and price	✓
	(M) T01.3 Order Cancellation	✓
	T01.4 Order Global Cancellation / MassCancell	✗
	T02 Order Types & Modifications, Trades	
	T02.1 Entry of 'Market To Limit' order - partially or fully executed / trade	✓
	T02.2 Entry of 'Market Order' - partially or fully executed / trade	✓
	T02.3 Entry of 'Stop Loss' order	✓
	T02.4 Entry of 'Stop Limit' order	✓
	T02.5 Order entry with a price of 3 decimals	✓
	T02.6 Order entry with a price of 4 decimals	✓
	T02.7 Order Modification - Modification of price of order	✓
	T02.8 Order Modification - Modification of volume of order	✓
	T02.9 Order Cancellation - Cancel of order	✓
	T02.10 Trade cancellation by WSE	✓
	T03 Order Validity & Modifications	
	T03.1 GTD – not or partially executed	✓
	T03.2 IOC (Fill And Kill) – partially executed	✓
	T03.3 FOK (Fill Or Kill) - executed	✓
	T03.4 VFA (Valid for Auction) - non executed at auction	✓
	T03.5 VFC (Valid for Closing)	✓
	T03.6 GTT (Good Till Time) - expiration without execution	✓
	T03.7 GTC (Good Till Cancel) - executed	✓
	T04 Clearing Data	
	T04.1 Entry of a 'Agency' capacity order	✓
	T04.2 Entry of a 'House' account type order	✗
	T04.3 Entry of a Market Maker (Liquidity Provider) account type order	✗
	T04.4 Order entry with Client Account Number	✓
	T04.5 Order entry with ClientOrdrID Number	✓
	T04.6 Order entry with Clearing Firm	✗
	T05 Order Attributes	
	T05.1 Iceberg order (Reserve order) rejection	✓
	T05.2 Entry of 'Iceberg' order (Reserve order)	✓
	T05.3 Iceberg order modification (Reserve order)	✓
	T05.4 Order with excessive volume - no confirmation	✓
	T05.5 Order with excessive volume - confirmation	✓
	T06 Collar Logic	
	T06.1 "Static collars" order rejection	✓
	T06.2 "Dynamic collars" order entry	✓
	T07 BlockTrades/cross	
	T07.1 Single Sided Block Trading/ One Party Accepted	✓

T07.2 Single Sided Declaration expired	✓
T07.3 One Party declaration cancelled by initiator	✓
T07.4 Declaration refusal by customer	✗
T07.5 One Party declaration accepted by counterparty	✓
T07.6 Declaration Acceptation by customer	✓
T07.7 Standard Dual Sided Declaration	✗
T07.8 Block trade cancellation	✗
T07.9 Entry of cross order inside spread and collars	✗
T07.10 Entry of cross order outside spread - rejection	✗
T08 Other	
T08.1 Mass Quote Entry	✗
T08.2 Mass Quote Entry quotes modification	✗
T08.3 Mass Quote - cancellation or execution	✗
T08.4 Hybrid Buy Only	✗

III. Session management functionalities of the software connected to Drop Copy Gateway	
M – mandatory part	✓ if confirmed; ✗ if not or not tested
DC01 Logon Management	
(M) DC01.1 Login failure due to invalid Token / RawData	✓
(M) DC01.2 Login successful due to valid login parameters	✓
DC02 Restart Management	
(M) DC02.1 Customer Application initiates reconnection - valid Login parameters	✓
DC03 Administrative Messages Management	
(M) DC03.1 Heartbeat handling by customer	✓
DC04 BCP SOFTWARE READINESS	
(M) DC04.1 Customer Application initiates switch from the primary Gateway to a secondary Gateway - valid Login parameters	✓

IV. Session management and Market Data Functionalities of the software connected to Market Data Gateway	
M – mandatory part	✓ if confirmed; ✗ if not or not tested
D01 Market Data Receiving	
(M) D01.1 Join the Stream service for real time data Site A	✓
D01.2 Join the Stream service for real time data Site B	✓
D01.3 Supporting Stream arbitration – using Site A and B multicast Groups	✓
D01.4 Market data gaps detecting	✓
D01.5 Supporting Heartbeat mechanism	✓
D01.6 Supporting DDS encryption	✓
D02 Snapshot Session Management	
D02.1 Market data recovery using Snapshot service	✓
D02.2 Snapshot failed due to authorization failure - InvalidToken	✓
D03 Replay Session Management	
D03.1 Market data recovery using Replay service	✓

Signature of a WSE representative