



Certification Participants

SOLA Connection Test Cases

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Equities

Toronto Stock Exchange
TSX Venture Exchange
Equicom

Derivatives

Montréal Exchange
CDCC
Montréal Climate Exchange

Fixed Income

Shorcan

Energy

NGX

Data

TMX Datalinx
PC Bond

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Document History

Version.	Date	Change Description
1.0	2011-03-01	Initial Version

Document Notes

Date.	Description

Typographic Conventions

Convention	Meaning
Abbreviated menu commands	This document uses abbreviated menu. For example, “Click Display > Toolbars > Standard ” means that you should click the Display menu, point to Toolbars , and click the Standard entry.
Boldface type	Boldface type is used for commands, keywords, file names URLs, or other information that you must use literally. Name of windows, dialogs, and other controls also appear in boldface type.
Initial Capital Letters	The first letter of the names of menus, dialog boxes, dialog box elements, and commands are capitalized.
<Text in angle brackets>	Angle brackets are used for variables and values that you must provide.
Emphasized type	Emphasized type is used for words and phrases that need to be emphasized, as for new terms defined in the text. Italicized type is also used for foreign languages terms.
Monospace	Code and script examples appear in a monospace font.
Plus sign in text	Keyboard shortcuts are indicated by a plus sign separating key names. For example, Ctrl+F1 means that you must press the Ctrl and F1 keys at the same time.

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Chapter 1 Introduction

This document is to be used with any SAIL Certification Manual and includes the test cases needed to perform the SAIL Certification procedure.

All tests as part of the SOLA CONNECTION certification must be executed prior to the execution of test cases described in any SAIL Certification document.

Chapter 2 Certification Instruments

Instruments involved in the various certification test cases will be sent upon connection to the SOLA certification environment. Test cases may refer to any of these instruments.

Chapter 3 Terminology

Term	Definition
Client	Refers to a computer system able to interact with any SOLA front end.
Instrument	A specific tradable option or future on which a position can be reported.
Instrument group	Refers to all instruments with the same underlying product.

Chapter 4 Connection Test Cases

4.1 TEC – Technical

Type: Technical		ID #: TEC-01	Requirement: Mandatory
Description: Establishing a SAIL connection			
Comments: User Connection (Message Type TC).			
Prerequisites			
Existing credentials for client			
Step	Input Specifications	Expected Results SOLA Front-End Responses (SAIL)	
1	Client: Connects to SOLA. <i>Sends a TC message.</i> <i>[ProtocolVersion: A0]</i> <i>[ExchangeMessageID: "0"]</i>	Connection established. <i>Sends a TK message</i> <i>[User sequence ID: 0]</i> SOLA front end sends all messages from the beginning of day.	

Type: Technical		ID #: TEC-02	Requirement: Mandatory
Description: Terminating a SAIL session			
Comments: User Disconnection (Message Type TD)			
Prerequisites			
Execution of test case TEC-01			
Step	Input Specifications	Expected Results SOLA Front-End Responses (SAIL)	
1	Client: Disconnects from SOLA. <i>Sends a TD message</i>	Connection is terminated. <i>Sends a TL message</i>	

Type: Technical		ID #: TEC-03	Requirement: Mandatory
Description: Establishing a SAIL connection – Retransmission from next message			
Comments: User Connection (Message Type TC).			
Prerequisites			
Execution of test cases TEC-01 and TEC-02			
Step	Input Specifications	Expected Results SOLA Front-End Responses (SAIL)	
1	Client: Connects to SOLA. <i>Sends a TC message.</i> [ProtocolVersion: A0] [ExchangeMessageID: " "]	Connection established. <i>Sends a TK message</i> [User sequence ID: 0] SOLA Front end sends the next available messages.	

Type: Technical		ID #: TEC-04	Requirement: Mandatory
Description: Establishing a SAIL connection – Retransmission from specific message			
Comments: User Connection (Message Type TC).			
Prerequisites			
Execution of test cases TEC-01 and TEC-02			
Step	Input Specifications	Expected Results SOLA Front-End Responses (SAIL)	
1	Client: Connects to SOLA. <i>Sends a TC message.</i> [ProtocolVersion: A0] [ExchangeMessageID: "xxxxxx "]	Connection established. <i>Sends a TK message</i> [User sequence ID: 0] SOLA Front end sends the next messages following the specific one mentioned by client.	

Type: Technical		ID #: TEC-05	Requirement: Mandatory
Description: Re-synchronisation from out of sequence situation.			
Comments: User Connection (Message Type TC).			
Prerequisites			
Execution of test cases TEC-01 and TEC-02			
Step	Input Specifications	Expected Results SOLA Front-End Responses (SAIL)	
1	Client: Connects to SOLA. <i>Sends a TC message.</i> [ProtocolVersion: A0] [ExchangeMessageID: "0"]	Connection established. <i>Sends a TK message</i> [User sequence ID: n] SOLA front end sends all messages from the beginning of day.	
2	Client: Sends a valid account entry message with a wrong user sequence id <i>Sends an AN message</i> [User sequence ID: n+1 < m < n+1]	Message is out of sequence. Client is disconnected. Client must reconnect <i>Sends a TO message</i> [Received User sequence ID: m] [Expected User sequence ID: n+1]	
3	Client: Reconnects to SOLA. <i>Sends a TC message.</i>	Connection established. <i>Sends a TK message</i> [User sequence ID: n]	
4	Client: Sends a valid entry message with a correct user sequence id <i>Sends an AN message</i> [User sequence ID: n+1]	Entry is acknowledged	

Type: Technical		ID #: TEC-06	Requirement: Mandatory
Description: End of Transmission			
Comments: End of day message			
Prerequisites			
Execution of test case TEC-01			
Step	Input Specifications	Expected Results SOLA Front-End Responses (SAIL)	
1	Regulation Center: sends an End of Transmission message at the end of the day. Restart SAIL Front End <i>Sends a TT message</i>	Connection is terminated.	



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