JBMS INFORMATION

Setting Up TSW Direct Connection and Validating WCO3 Messages Software

Background

This document pack provides an overview of how to set up to direct connect to Trade Single Window (TSW), and how to get WCO3 messages software validated by Customs and MPI for use in production. The intended audience is:

- Any client (such as an importer, exporter, broker, freight forwarder, express courier, airline or shipping line) that wants to direct connect to TSW.

- B2B service providers that do not want to continue to connect via B2BE NZ Pty Ltd. (A B2B service provider connects to TSW on behalf of its clients, and carries lodgements and responses between clients, and Customs/MPI).

- Clients that have in-house systems for sending craft and cargo reporting and/or clearance messages to Customs and the Ministry for Primary Industries (MPI), and will need to upgrade these messages to the new WCO3 versions.

- Providers of commercial customs and freight software who want to offer the new WCO3 versions of the craft and cargo reporting and clearance messages.

If you haven't already, we recommend you read the following fact sheets (included in this pack) before proceeding so you understand the terms used:

1. JBMS Fact Sheet - Overview of JBMS
2. JBMS Fact Sheet - Electronic Submission of Lodgements

Before you start

Direct connecting to TSW requires a reasonable level of information technology expertise to establish and maintain the connection, and meet communications security requirements. While Customs and MPI will provide as much support as possible for you to meet our requirements and general advice about B2B messaging, individual needs will vary depending on your technology. We cannot provide detailed support on what you need to do at your end, and you may need to buy this expertise in.

So while there may be cost savings in direct connecting to TSW, this will vary according to each client's message volumes and set up costs. These factors should be considered in deciding whether to direct connect.

Direct connect technical information

Current protocols and standards for direct connect to TSW

- For sending lodgements, TSW has exposed a web service interface (SOAP with attachments over HTTPS) where the lodgement (either EDIFACT or WCO 3 XML) is sent as an attachment. For WCO 3 XML, supporting documents can also be sent as additional attachments.

- For receiving responses, another web service is exposed to allow these, plus any attached documents such as delivery orders to be pulled down from the TSW system.

- Future options that may be considered over time if there is industry demand include AS2 and AS4.

Current digital certificates accepted

The only digital certificates currently acceptable are Verisign and Rapid SSL.

Trade Single Window B2B Messaging Guide

The B2B Messaging Guide outlines the interactions that occur for the processing of messages and provides details of the exposed web services, including the Web Services Description Language (WSDL) and schemas related to these web services. Due to the security-related information it contains, access to the Guide will be provided once you complete and sign a Deed of Confidentiality (see 'Next steps' below).
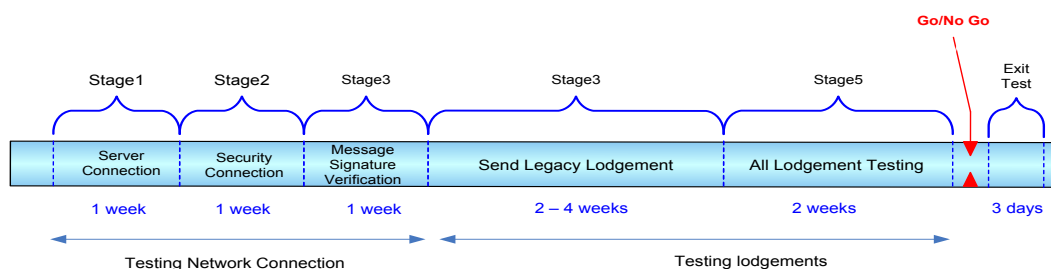
Set up timelines

You can direct connect to TSW to send the current ('legacy') EDIFACT messages used by Customs (CUSCAR and CUSDEC) and MPI (eBACCA), or the new WCO3 XML messages. Below is an outline of how long it generally takes to set up direct connect in each case.

WCO3 B2B set up timeline
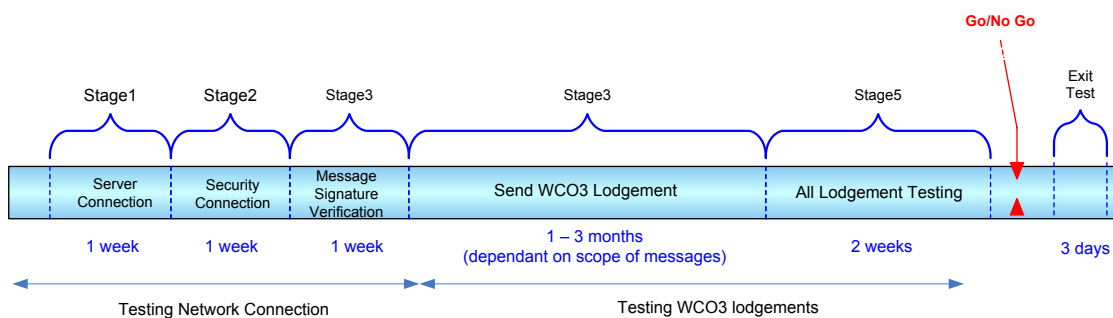
Legacy B2B set up timelines

Appendix 1 provides a summary of the direct connect on-boarding process.

Next Steps

What you need to do to set up and test direct connect and/or your WCO3 messages depends on:

- whether you are a client with an in-house system, or
- a commercial software provider, and if so, whether you are providing a B2B messaging service for your clients or not, and
- what range of WCO3 messages you want to send.

The following documents are included in this pack:

3. JBMS Fact Sheet - Overview of JBMS
4. JBMS Fact Sheet - Electronic Submission of Lodgements
5. Direct Connect Terms and Conditions *(not yet available – will be added soon)*
6. Deed of Confidentiality to access the B2B Messaging Guide
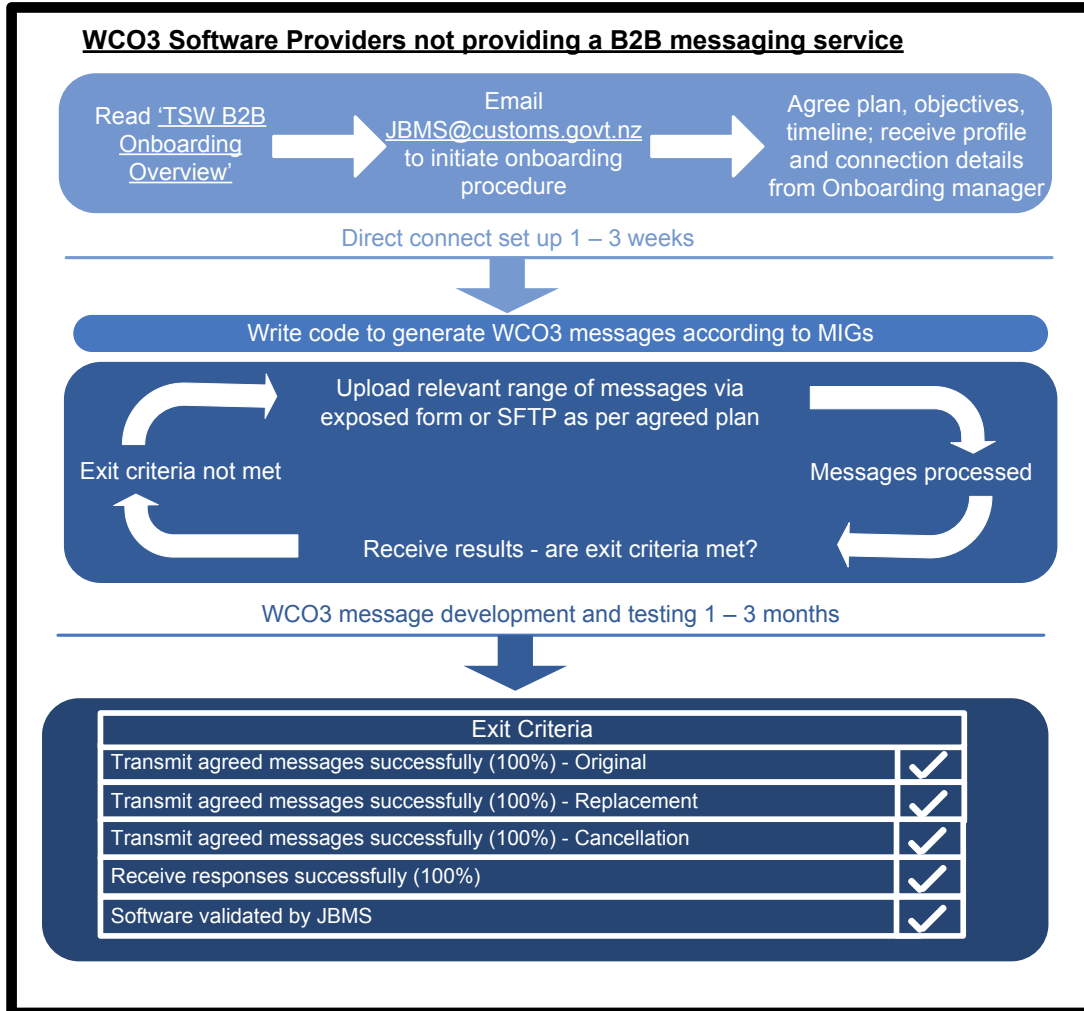7. WCO3 Software Validation overview

We recommend that you:

- Read documents 1 to 3.

- If you are keen to understand more about direct connection to TSW and/or developing WCO3 messages, complete document 4 (Deed of Confidentiality) and email it to jbms@customs.govt.nz. We will send you details of how to access the B2B Messaging Guide, which includes the Web Services Description Language (WSDL) for the Lodgement Submission and Receive Response Webservices.

- If you are keen to understand more about developing WCO3 messages, read document 5 (WCO3 Software Validation Overview) and the WCO3 XML Message Implementation Guidelines and WCO3 XML Schemas and Sample Messages.
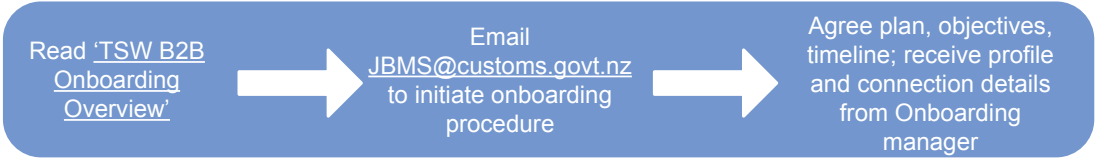
Then, if you want to start the set up for direct connect and/or WCO3 messages software validation, email jbms@customs.govt.nz . We will work with you to set up a plan to match what you want to do.

If you have any queries about direct connect, WCO3 messages validation, JBMS or TSW that we haven't covered, please email jbms@customs.govt.nz for advice.

Appendix 1 - Summary of software provider/direct connect process

WCO3 Software Providers not providing a B2B messaging service

Read 'TSW B2B Onboarding Overview' → Email JBMS@customs.govt.nz to initiate onboarding procedure → Agree plan, objectives, timeline; receive profile and connection details from Onboarding manager

Direct connect set up 1 – 3 weeks

Write code to generate WCO3 messages according to MIGs

Upload relevant range of messages via exposed form or SFTP as per agreed plan

Exit criteria not met

Messages processed

Receive results - are exit criteria met?

WCO3 message development and testing 1 – 3 months

Exit Criteria	
Transmit agreed messages successfully (100%) - Original	✓
Transmit agreed messages successfully (100%) - Replacement	✓
Transmit agreed messages successfully (100%) - Cancellation	✓
Receive responses successfully (100%)	✓
Software validated by JBMS	✓

WCO3 Direct Connect Client – In House System or B2B Messaging Provider

Read 'TSW B2B Onboarding Overview'	→	Email JBMS@customs.govt.nz to initiate onboarding procedure	→	Agree plan, objectives, timeline; receive profile and connection details from Onboarding manager

Direct connect set up 1 – 3 weeks

Develop direct connect transport layer	→	Network connection testing	→	Go / No Go?

Connection development and testing 3- 4 weeks

Write code to generate WCO3 messages according to MIGs
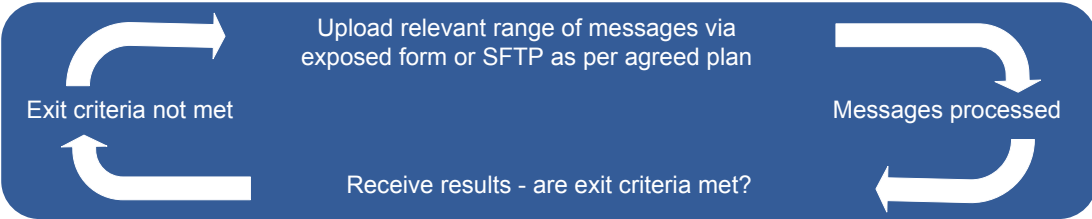
Upload relevant range of messages via exposed form or SFTP as per agreed plan

Exit criteria not met

Messages processed

Receive results - are exit criteria met?

WCO3 message development and testing 1 – 3 months
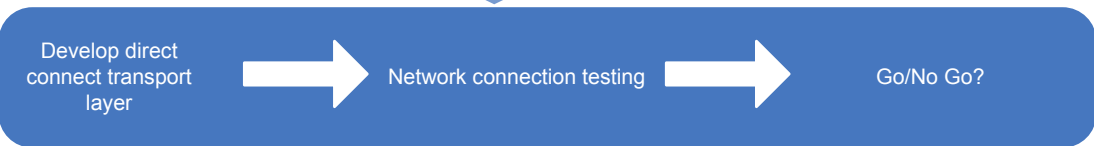
Exit Criteria

Transmit agreed messages successfully (100%) - Original	✓
Transmit agreed messages successfully (100%) - Replacement	✓
Transmit agreed messages successfully (100%) - Cancellation	✓
Receive responses successfully (100%)	✓
Supporting deliverables signed off	✓

Submit B2B WCO3 lodgements and receive responses
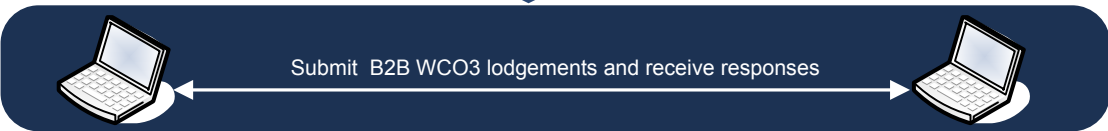
Legacy Direct Connect Client – In House System or B2B Messaging Provider

Read 'TSW B2B Onboarding Overview' → Email JBMS@customs.govt.nz to initiate onboarding procedure → Agree plan, objectives, timeline; receive profile and connection details from Onboarding manager

Direct connect set up 1 – 3 weeks

Develop direct connect transport layer → Network connection testing → Go/No Go?

Connection development and testing 3- 4 weeks

Upload relevant range of messages via exposed form or SFTP as per agreed plan

Exit criteria not met

Messages processed

Receive results - are exit criteria met?

Legacy message testing 2 – 4 weeks

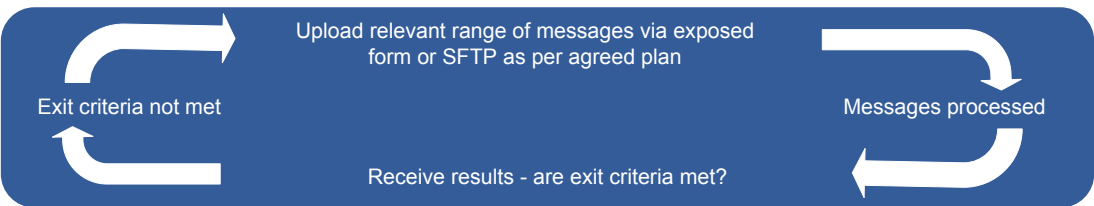| Exit Criteria	
Transmit agreed messages successfully (100%) - Original	✓
Transmit agreed messages successfully (100%) - Replacement	✓
Transmit agreed messages successfully (100%) - Cancellation	✓
Receive responses successfully (100%)	✓
Supporting deliverables signed off	✓

Submit B2B legacy lodgements and receive responses