

INBOUND MESSAGING PROJECT -  
Guidelines for eBACCa  
Electronic Data Interchange Partnership  
Testing



Version 1.1.0

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# Deliverable Acceptance

This sign-on sheet acknowledges the signatories acceptance of this document and their agreement that this document records the test plan, scope and test procedures for the eBACCa electronic data interchange partnership testing.

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## Document Control

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### Version history

Release Date	Author of version	Version	Changes
30/06/08	Johanne Marnane	0.1	Draft – document created
09/07/08	Johanne Marnane	0.2	Draft – used for FedEx testing
21/07/08	Tim Pardy	1.0	Final
07/08/08	Johanne Marnane	1.1	Updated the Test Approach to be more explicit

## Related Documents

The table below lists the possible documentation required as inputs to, and produced by testing:

Input Documents	Repository / Comments
Business Requirements	Inbound Messaging User Requirements 1.0.doc <a href="http://fcs.maf.govt.nz/webtop/drl/objectId/090101b3802ad274/format/msw8">http://fcs.maf.govt.nz/webtop/drl/objectId/090101b3802ad274/format/msw8</a>
Output documents	Repository / Comments
Test Plan	<a href="http://fcs.maf.govt.nz/webtop/drl/objectId/090101b380346314">http://fcs.maf.govt.nz/webtop/drl/objectId/090101b380346314</a>

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# 1 Introduction

## 1.1 Project Background

MAF staff need to view a wide range and large volume of documentation to provide Biosecurity clearance for imported cargo. Up to 200,000 Biosecurity Authority/Clearance Certificate (BACC) import clearance Applications are currently sent to MAF each year, predominantly through fax. The faxes are then manually sorted and processed with much of the information manually re-entered into the QuanCargo system.

Until today MAF's business process for the clearance of imported cargo has relied on submission of hard copy faxed based documentation for data entry, risk analysis, processing, and clearance. Recently the import industry has lobbied MAF to modernise its cargo clearance process, thus highlighting that an opportunity exists for MAF to; (i) update its faxed based system, (ii) leverage the import entry information provided to New Zealand Custom Service (NZCS) and the existing ECN hub, (iii) increase the efficiency of our business, and (iv) provide a higher quality service to our customers.

The Inbound Messaging Electronic BACC Applications project is introducing a number of electronic processes for receiving and managing electronic BACC Applications (eBACCa's). Software applications used by Brokers/Importers to submit eBACCa messages to MAF via the ECN Gateway, will first be required to undergo testing in the ECN UAT environment before production data can be sent to MAF. For the purpose of simplicity of this document, the sender of the eBACCa messages will be referred to as the "Importer".

## 1.2 Document Purpose

The purpose of this document is to outline MAFBNZ's approach for eBACCa Electronic Data Interchange (EDI) Partnership testing. This test plan contains information about the purpose, goals, scope, resources and schedule for partnership testing. The objective of this document is to present the intent of the testing activities for this phase of the project, i.e. when Importers begin to transact eBACCa messages with MAF

This test plan supports the following objectives:

- Identify existing project information and software and other system components to be tested
- List requirements, including features to be tested
- Describe the testing approach(s) to be employed
- Forecast the required resources and testing schedule
- List the deliverable elements of the testing covered by this plan

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## 1.3 Test Objectives

The main objective of the eBACCa Electronic Data Interchange (EDI) Partnership testing phase of the project is verification of the functions being implemented by the Inbound Messaging project between MAF, ECN and the Importer providing the electronic BACC applications. This will ensure that the business rules, functionality and other changes stated in the source documents are implemented correctly and to a high level of quality. The eBACCa EDI Partnership testing component aims to evidence quality by:

- Testing the integration of systems used by Importers to send eBACCa's via ECN and those of MAF to receive these messages
- Testing the integration of systems used by MAF for sending receipt acknowledgements via ECN and those of the Importers to receive these messages
- Testing the integration of systems used by MAF to initiate and send other message formats via ECN and those of the Importers to receive these other messages

## 1.4 Test Approach

The eBACCa EDI Partnership testing will be performed as required, as new Importers (or software providers) come on board to the Inbound Messaging project. The testing itself will be undertaken in an iterative approach, with each round taking place after any necessary development work. At the end of each round the test results will be evaluated/reviewed and documented. The high level process is tabulated below:

STEP	INBOUND MESSAGING
1.	When the Importer/Software Provider is ready to start Partnership testing, they will approach ECN.
2.	ECN will engage with MAFBNZ to plan the testing (i.e. organise a date and time for testing and allocate the appropriate resources and contact details) and will communicate this to the Importer/Software Provider.
3.	Undertake testing as per plan and test cases provided
4.	Evaluate and document test results
5.	Pass to production, or develop a new iteration; ⇒ Begin test process again (if required)

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## 2 Scope of eBACCa EDI Partnership Testing

### 2.1 What will be tested (In Scope)

This section summarises what will be tested. These test requirements will be the basis for designing, developing and organising tests and for reporting test coverage.

#### 2.1.1 FUNCTIONAL PARTNERSHIP TESTING

THE TABLE BELOW OUTLINES THE FUNCTIONAL TESTS THAT WILL BE UNDERTAKEN BY REPRESENTATIVES FROM MAFIM, ECN AND THE IMPORTER. ALL TESTERS WILL BE PROVIDED WITH A SET OF TEST SCRIPTS FOR EACH TEST CASE AS DESIGNATED IN THE TABLE.

AREA	WHAT WILL BE TESTED:	TEST CASES
New eBACCa message	<ul style="list-style-type: none"><li>▪ Importer's ability to send an eBACCa</li><li>▪ ECN Gateway's ability to receive and pass on an eBACCa</li><li>▪ MAF's ability to receive a new eBACCa</li></ul>	<ul style="list-style-type: none"><li>▪ edi01</li></ul>
eBACCa Receipt Acknowledgement	<ul style="list-style-type: none"><li>▪ MAF's ability to send a receipt acknowledgement on receipt of an eBACCa message</li><li>▪ ECN Gateway's ability to receive and pass on a receipt acknowledgement</li><li>▪ Importer's ability to receive a receipt acknowledgement</li></ul>	<ul style="list-style-type: none"><li>▪ edi02</li></ul>
Updated eBACCa message	<ul style="list-style-type: none"><li>▪ Importer's ability to send an updated eBACCa</li><li>▪ ECN Gateway's ability to receive and pass on an updated eBACCa</li><li>▪ MAF's ability to receive an updated eBACCa</li></ul>	<ul style="list-style-type: none"><li>▪ edi03</li></ul>
Request More Information	<ul style="list-style-type: none"><li>▪ MAF's ability to send a request for more information for a particular application</li><li>▪ ECN Gateway's ability to receive and pass on a request for more information</li><li>▪ Importer's ability to receive a request for more information for a particular application</li></ul>	<ul style="list-style-type: none"><li>▪ edi04</li></ul>
Notification of Consignment Reference Number (CRN)	<ul style="list-style-type: none"><li>▪ MAF's ability to send a Notification of CRN for a particular application</li><li>▪ ECN Gateway's ability to receive and pass on a Notification of CRN</li><li>▪ Importer's ability to receive a Notification of CRN for a particular application</li></ul>	<ul style="list-style-type: none"><li>▪ edi05</li></ul>
Cancellation of an Application	<ul style="list-style-type: none"><li>▪ MAF's ability to send a cancellation for a particular application</li><li>▪ ECN Gateway's ability to receive and pass on a cancellation</li><li>▪ Importer's ability to receive a cancellation for a particular application</li></ul>	<ul style="list-style-type: none"><li>▪ edi06</li></ul>

Error found in Application	<ul style="list-style-type: none"> <li>▪ MAF's ability to send an error message for a particular application</li> <li>▪ ECN Gateway's ability to receive and pass on an error message</li> <li>▪ Importer's ability to receive an error message for a particular application</li> </ul>	<ul style="list-style-type: none"> <li>▪ edi07</li> </ul>
SOAP Error from an eBACCa	<ul style="list-style-type: none"> <li>▪ MAF's ability to send a SOAP error for a particular application</li> <li>▪ ECN Gateway's ability to receive and pass on a SOAP error</li> <li>▪ Importer's ability to receive an error message for a particular application</li> </ul>	<ul style="list-style-type: none"> <li>▪ edi08</li> </ul>
Issued BACC	<ul style="list-style-type: none"> <li>▪ MAF's ability to send an issued BACC for a particular application</li> <li>▪ ECN Gateway's ability to receive and pass on an issued BACC</li> <li>▪ Importer's ability to receive an issued BACC for a particular application</li> </ul>	<ul style="list-style-type: none"> <li>▪ edi09</li> <li>▪ edi10</li> </ul>

## 2.2 What will not be tested (Out of Scope)

- The development of any system external to MAF (beyond partnership and integration testing)
- Processes carried out by external parties within their businesses

## 2.3 Testing Tools/Methodology

All tests will be run manually and assessed by the MAFIM, ECN and Importer representatives. They will be run from hardcopy UAT test scripts/cases. There will be no automated Testing Tools used in this part of the testing phase.

## 2.4 Defect Process

MAF will maintain a Defect Register to record faults encountered by MAF testers within the MAF software and it is expected that the other parties will create and maintain their own defect register(s) as required.

At the close of each round of eBACCa EDI Partnership testing, there will be a Test Evaluation session undertaken by the MAFIM, ECN and Importer representatives to discuss the results.

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## 3 Resources

This section presents the testing resources required for this type of testing

### 3.1 Roles and Responsibilities

This table outlines the eBACCa EDI Partnership testing staffing assumptions for the project at this stage *(to be completed at time of testing)*:

Role	Name	Specific Responsibilities/Comments
MAFBNZ Test Representative	<i>Names are to allocated at the beginning of each round of partnership testing</i>	<ul style="list-style-type: none"><li>▪ <i>These are to determined on the beginning of each round of partnership testing</i></li></ul>
ECN Test Representative		<ul style="list-style-type: none"><li>▪</li></ul>
Importer Test Representative		<ul style="list-style-type: none"><li>▪</li></ul>

### 3.2 Test Environment

The testing will be undertaken within the MAF UAT environment.

### 3.3 Test Data

All application data provided for eBACCa EDI Partnership testing purposes will replicate live data and reflect expected business activity as closely as possible.

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## **4 Assumptions and Dependencies**

### **4.1 Assumptions**

In writing this document the following assumptions have been made:

- The solution will have already passed User Acceptance Testing
- Development and maintenance activities are tied to releases. This includes table changes.
- Adequate time will be available to conduct each type of testing
- Adequate time for testing is built into the estimating process
- A user manual and/or additional training material is available to the test team to inform/guide how the system is expected to be used by the business

### **4.2 Dependencies**

- Availability of development and/or technical resources for defect repairs
- Availability of technical resources for environment support issues
- Availability of business resources to 'process' test messages

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## Appendix 1. Test Scripts

### 1.1. EDI01 – New eBACCa Message

Step No.	Initiator	Actions	Data to be Entered	Tested	Comments
1	Importer	Send eBACCa to ECN			
2	ECN	Receive eBACCa from Importer			
3	ECN	Send eBACCa to MAF			
4	MAF	Receive eBACCa from ECN			
<b>Expected Result: eBACCa is received by MAF</b>				<b>Pass/Fail</b>	

Tester: \_\_\_\_\_ Date Tested: \_\_\_\_\_

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## 1.2. EDI02 –eBACCa Receipt Acknowledgement Message

*This Test Case depends on the successful completion of edi01 or edi03*

Step No.	Initiator	Actions	Data to be Entered	Tested	Comments
1	MAF	Send eBACCa MessagingResponse message (including receipt number) to ECN			
2	ECN	Receive eBACCa MessagingResponse message (including receipt number) from MAF			
3	ECN	Send eBACCa MessagingResponse message (including receipt number) to Importer			
4	Importer	Receive eBACCa MessagingResponse message (including receipt number) from ECN			
<b>Expected Result:</b> eBACCa MessagingResponse message (including receipt number) is received by Importer				<b>Pass/Fail</b>	

**Tester:** \_\_\_\_\_ **Date Tested:** \_\_\_\_\_

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### 1.3. EDI03 – Updated eBACCa Message

*This Test Case depends on the successful completion of edi01 and may occur following edi04*

Step No.	Initiator	Actions	Data to be Entered	Tested	Comments
1	Importer	Send updated eBACCa to ECN			
2	ECN	Receive updated eBACCa from Importer			
3	ECN	Send updated eBACCa to MAF			
4	MAF	Receive updated eBACCa from ECN			
<b>Expected Result: eBACCa is received by MAF</b>				<b>Pass/Fail</b>	

Tester: \_\_\_\_\_ Date Tested: \_\_\_\_\_

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#### 1.4. EDI04 – Request More Information Message

*This Test Case depends on the successful completion of edi02*

Step No.	Initiator	Actions	Data to be Entered	Tested	Comments
1	MAF	Send Request More Information eBACCa Notification message to ECN			
2	ECN	Receive Request More Information eBACCa Notification message from MAF			
3	ECN	Send Request More Information eBACCa Notification message to Importer			
4	Importer	Receive Request More Information eBACCa Notification message from ECN			
<b>Expected Result:</b> Request More Information eBACCa Notification message is received by Importer				<b>Pass/Fail</b>	

Tester: \_\_\_\_\_ Date Tested: \_\_\_\_\_

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### 1.5. EDI05 – Cancellation of an eBACCa Message

*This Test Case depends on the successful completion of edi02*

Step No.	Initiator	Actions	Data to be Entered	Tested	Comments
1	MAF	Send Cancellation eBACCa Notification message to ECN			
2	ECN	Receive Cancellation eBACCa Notification message from MAF			
3	ECN	Send Cancellation eBACCa Notification message to Importer			
4	Importer	Receive Cancellation eBACCa Notification message from ECN			
<b>Expected Result:</b> Cancellation eBACCa Notification message is received by Importer				<b>Pass/Fail</b>	

Tester: \_\_\_\_\_ Date Tested: \_\_\_\_\_

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## 1.6. EDI06 – Notification of Consignment Reference Number (CRN) Message

*This Test Case depends on the successful completion of edi02*

Step No.	Initiator	Actions	Data to be Entered	Tested	Comments
1	MAF	Send Notification of CRN eBACCa Notification message to ECN			
2	ECN	Receive Notification of CRN eBACCa Notification message from MAF			
3	ECN	Send Notification of CRN eBACCa Notification message to Importer			
4	Importer	Receive Notification of CRN eBACCa Notification message from ECN			
<b>Expected Result:</b> Notification of CRN eBACCa Notification message is received by Importer				<b>Pass/Fail</b>	

Tester: \_\_\_\_\_ Date Tested: \_\_\_\_\_

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### 1.7. EDI07 – Error found in eBACCa Message

*This Test Case depends on the successful completion of edi02*

Step No.	Initiator	Actions	Data to be Entered	Tested	Comments
1	MAF	Send Error eBACCa Notification message to ECN			
2	ECN	Receive Error eBACCa Notification message from MAF			
3	ECN	Send Error eBACCa Notification message to Importer			
4	Importer	Receive Error eBACCa Notification message from ECN			
<b>Expected Result:</b> Error eBACCa Notification message is received by Importer				<b>Pass/Fail</b>	

Tester: \_\_\_\_\_ Date Tested: \_\_\_\_\_

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### 1.8. EDI08 – SOAP Error found in eBACCa

*This Test Case depends on the successful completion of edi01*

Step No.	Initiator	Actions	Data to be Entered	Tested	Comments
1	MAF	Send SOAP Error to ECN			
2	ECN	Receive SOAP Error from MAF			
3	ECN	Send SOAP Error to Importer			
4	Importer	Receive SOAP Error from ECN			
<b>Expected Result:</b> SOAP Error is received by Importer				<b>Pass/Fail</b>	

**Tester:** \_\_\_\_\_ **Date Tested:** \_\_\_\_\_

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### 1.9. EDI09 – Issued BACC Message (via ECN)

*This Test Case depends on the successful completion of edi05*

Step No.	Initiator	Actions	Data to be Entered	Tested	Comments
1	MAF	Send Issued BACC message to ECN			
2	ECN	Receive Issued BACC message from MAF			
3	ECN	Send Issued BACC message to Importer			
4	Importer	Receive Issued BACC message from ECN			
<b>Expected Result:</b> Issued BACC message is received by Importer				<b>Pass/Fail</b>	

**Tester:** \_\_\_\_\_ **Date Tested:** \_\_\_\_\_

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### 1.10. EDI10 – Issued BACC Message (Direct)

*This Test Case depends on the successful completion of edi05*

Step No.	Initiator	Actions	Data to be Entered	Tested	Comments
1	MAF	Send Issued BACC message to Importer			
4	Importer	Importer receives Issued BACC message direct from MAF			
<b>Expected Result:</b> Issued BACC message is received by Importer				<b>Pass/Fail</b>	

**Tester:** \_\_\_\_\_ **Date Tested:** \_\_\_\_\_