

eResults messaging service

External code requirements



© Commonwealth of Australia 2016

Ownership of intellectual property rights

Unless otherwise noted, copyright (and any other intellectual property rights, if any) in this publication is owned by the Commonwealth of Australia (referred to as the Commonwealth).

Creative Commons licence

All material in this publication is licensed under a Creative Commons Attribution 3.0 Australia Licence, save for content supplied by third parties, logos and the Commonwealth Coat of Arms.



Creative Commons Attribution 3.0 Australia Licence is a standard form licence agreement that allows you to copy, distribute, transmit and adapt this publication provided you attribute the work. A summary of the licence terms is available from creativecommons.org/licenses/by/3.0/au/deed.en. The full licence terms are available from creativecommons.org/licenses/by/3.0/au/legalcode.

Inquiries about the licence and any use of this document should be sent to copyright@agriculture.gov.au.

This publication is available at agriculture.gov.au/publications.

Department of Agriculture and Water Resources
Postal address GPO Box 858 Canberra ACT 2601
Telephone 1800 900 090
Web agriculture.gov.au

The Australian Government acting through the Department of Agriculture and Water Resources has exercised due care and skill in preparing and compiling the information and data in this publication. Notwithstanding, the Department of Agriculture and Water Resources, its employees and advisers disclaim all liability, including liability for negligence and for any loss, damage, injury, expense or cost incurred by any person as a result of accessing, using or relying upon any of the information or data in this publication to the maximum extent permitted by law.

Contents

1. Introduction	4
1.1 Purpose.....	4
1.2 Scope.....	4
1.3 Audience	4
1.4 Configuration management	4
1.5 References	4
2. Code set definitions and values	5
2.1 Actual Inspection Category Code	5
2.2 Department of Agriculture office code	5
2.3 eError Code.....	6
2.4 eMessage Type	7
2.5 Laboratory identifier	7
2.6 Test code	7
2.7 Referred inspection category code	11
2.8 Sample arrival condition code	11
2.9 Sample inspection condition code.....	11

1. Introduction

1.1 Purpose

The purpose of this document is to detail code sets defined to support the eResults messaging service.

1.2 Scope

This document defines the code sets designed to support the eResults messaging service. These code sets are shared between laboratory systems and the Department of Agriculture and Water Resources (the department) systems that implement the eResults interface.

The shared code sets include:

- Codes that are required to be interpreted by laboratories as instructions (eg. ordering a specific test).
- Codes that are required to understand the success of request letters sent by the laboratory system, via interpreting a response letter.
- Codes that form information that notifies the department of a service being completed.

Please refer to Section 6.1: Maintaining code sets synchronisation in the eResults external system interface specification for the operational requirements for code synchronisation between the department and laboratory systems.

1.3 Audience

This document should be read by anyone intending to review or implement eResults within the department and laboratories.

1.4 Configuration management

Due to the small number of trading partners and code sets, the method for synchronising codes will be achieved by the department manually issuing emails with updates to laboratories.

This document will be used for the initial system implementation, and will not be maintained after the initial implementation. However, facilities will be available to extract the master code lists from the department's systems upon request.

1.5 References

This specification should be read in conjunction with the following documents:

- [eResults External Domain Dictionary](#)
- [eResults External System Interface Requirements](#)

2. Code set definitions and values

This section defines the code sets and the code values required to support the implementation of the eResults interface between laboratory systems and the department's systems.

2.1 Actual inspection category code

This code set also meets the requirements for the Referred inspection category code.

Table 1 Field definition

Type	Definition
Code	Char (5)
Description	Varchar (254)
Active	Char (1)

Table 2 Code values

Code	Description	Active
IH	Imported Food High risk	Y
IR	Imported Food Random Surveillance	Y
IA	Imported Food Active Surveillance	N

2.2 Department of Agriculture office code

Table 3 Field definition

Type	Definition
Code	Char (10)
Department office name	Varchar (50)
Active	Char (1)

Table 4 Code values

Code	Department office name	Active
DWN	Darwin	Y
SYD	Sydney	Y
BRIS	Brisbane	Y
CAIRNS	Cairns	Y
HOBS	Hobart South	Y
HOBN	Hobart North—Burnie	Y
HOBN2	Hobart North—Bell Bay	Y
MELB	Melbourne	Y
PERTH	Perth	Y
ADEL	Adelaide	Y
CANB	Canberra	Y

2.3 eError code

Table 5 Field definitions

Type	Definition
Code	Char (5)
Description	Varchar (254)
Active	Char (1)

Table 6 Code values

Code	Description	Active
E0001	The mail article subject must be valid.	Y
E0002	The mail article must contain only one attachment.	Y
E0003	The XML must be well-formed.	Y
E0004	The XML must conform to the relevant XML schema.	Y
E0005	The mail article subject checksum must match the checksum calculated by the recipient.	Y
E0006	Created timestamp must be no later than the time of reception of the message.	Y
E0007	The combination of sender id, message type id and message type version must be supported by the recipient.	Y
E0008	Mail article discarded.	Y
E0009	Data dependencies require that this group of fields all be populated.	Y
E0010	The mail article subject sender id and recipient id must be supported by the recipient.	Y
E0011	The mail article address label must match the mail article subject.	Y
E0012	Errors must be specified if response outcome is fail.	Y
E0013	The mail article type must be either 'envelope' or 'acknowledgement'.	Y
E0100	The reference code specified must be a valid reference value.	Y
E0101	Dates and timestamps must be in chronological order.	Y
E0102	Test results sent to the department must correspond with tests ordered by the department.	Y
E0103	Client job id in message must exist in AIMS.	Y
E0104	Client job id must not be finalised to receive data.	Y
E0105	Line must not be food finalised to receive data.	Y
E0106	Client job id and client sample id combination in message must exist in AIMS.	Y
E0107	Client job id, client sample id and test code combination in message must exist in AIMS.	Y
E0108	The sending laboratory must match the laboratory assigned to the sample (in AIMS).	Y
E0109	The result name must be the ordered test code for single result test types.	Y
E0110	Response letters must contain a complete and exact copy of the	Y

Code	Description	Active
	corresponding request letter.	
E0111	The business letter message type id must be the same as the message type id in the envelope address label.	Y
E0112	The combination of message type id and message type version must be supported by the recipient.	Y
E0113	A single result type test must only have one result of analysis.	Y
E0114	Each object must be uniquely identifiable within the object's scope.	Y
E0115	Data mismatch occurred in registration – LabReceipt Date	Y

2.4 eMessage type

Table 7 Field definition

Type	Definition
Message type id	Char (5)
Message type version	Varchar (10)
Description	Varchar (254)
Active	Char (1)

Table 8 Code values

Message Type Id	Message Type Version	Description	Active
F0003	1.0	Sample Registration Request Letter	Y
F0004	1.0	Sample Registration Response Letter	Y
F0005	1.0	Sample Result Request Letter	Y
F0006	1.0	Sample Result Response Letter	Y
R0002	1.0	Acknowledgement	Y

2.5 Laboratory identifier

Laboratory identifiers will be allocated upon enrolment to the eResults messaging system.

2.6 Test code

Table 9 Field definition

Type	Definition
Code	Char (8)
Name	Varchar (254)
Valid	Char (1)

Table 10 Code values

Code	Name	Valid
13-DCP	1 3 DICHLOROPROPANOL	Y
3-MCPD	3 MONOCHLOROPROPANE 1,2 DIOL	Y
ACEP	ACESULFAME POTASSIUM	N
ACID	ACID CONTENT	N
ADULT	ADULTERATION	N
AFLAT	AFLATOXIN	Y
ALCOHOL	ALCOHOL CONTENT	N
ALPHA	ALPHA AMYLASE	N
ALUM	ALUM	N
ARSEN	ARSENIC	N
ASPART	ASPARTAME	N
ASWEET	ARTIFICIAL SWEETENERS	Y
BCERE	B CEREUS	Y
BENZOIC	BENZOIC ACID	Y
BHA	BHA	N
BHT	BUTYLATED HYDROXY TOLUENE	N
BLACK	BLACK COLOUR	N
BLUE	BLUE COLOUR	N
BROWN	BROWN COLOUR	N
BSECERT	BSE CERT CHECK	Y
CAFFE	CAFFEINE	N
CALCIUM	CALCIUM HYDROXIDE	N
CANIT	CAN SEAM ANALYSIS	N
CAE134	CAESIUM 134	Y
CAE137	CAESIUM 137	Y
CBZ	CARBENDAZIM	Y
CAP	CHLORAMPHENICOL	Y
CAPT	CAPTAN	N
CARBA	CARBADOX	N
CBOT	CLOSTRIDIUM BOTULINUM	N
CD	CADMIUM	Y
CFORM	COLIFORMS	N
CHECKADD	CHECK LABEL FOR ADDITIVE (NO TEST)	N
CHLOROP	CHLOROPROPANOLS	N
CHROM	CHROMIUM	N
		N
COLOU	COLOUR SCREEN	Y

Code	Name	Valid
COMPO	COMPOSITION	Y
COMST	COMMERCIAL STERILITY	N
CTOX	CIGUATOXIN	N
CU	COPPER	N
DICOF	DICOFOL	N
DIOXIN	DIOXIN	N
DITHIO	DITHIOCARBAMATE	N
DOMOIC	DOMOIC ACID	Y
DWEIG	DRAIN WEIGHT	N
ECOLI	E COLI	Y
EDTA	CALCIUM DISODIUM EDTA	N
ENDOSUL	ENDOSULPHAN	N
ERGOT	ERGOT	N
ERUCIC	ERUCIC ACID	Y
ETHAN	ETHANOL	N
ETHIO	ETHION	N
ETHYCHL	ETHYLENE CHLOROHYDRIN	Y
ETHYL	ETHYLENE OXIDE	N
FGLUC	FERROUS GLUCONATE	N
FLURO	FLUROQUINOLONES	Y
FLUORID	FLURIODE	N
FORMIC	FORMIC ACID	N
GREEN	GREEN - COLOUR	N
H/O TEST	H/O TEST	N
HCN	HYDROCYANIC ACID	Y
HISTA	HISTAMINES	Y
HM	HEAVY METALS	N
HOWARD	HOWARD MOULD COUNT	N
INORG	INORGANIC ARSENIC	Y
IODINE	IODINE	Y
IRON	IRON	N
KSORB	POTASSIUM SORBATE	N
LABEL	LABELLING	Y
LEAD	LEAD	Y
LIST	LISTERIA MONOCYTOGENES	Y
M1	MICROBIOLOGICAL 1	N
M2	MICROBIOLOGICAL 2	N
M3	MICROBIOLOGICAL 3	N
M4	MICRO MARINARA	Y
M5	MICRO OYSTER	Y
MALAG	MALACHITE GREEN	Y

Code	Name	Valid
MER	MERCURY	N
METHAN	METHANOL	N
METHYL	METHYL BROMIDE	N
MGROW	MICROBIAL GROWTH	N
MICRCRST	MICRO CRUSTACEA	Y
MICRCHS	MICRO CHEESE	Y
MICROCH	MICRO CHICKEN	Y
MICROPK	MICRO PORK	Y
MICRPRW	MICRO PRAWN	Y
MOULD	MOULDS	N
MSG	MONO SODIUM GLUTEMATE	N
NITRO	NITROSAMINE	N
NITROFU	NITROFURANS	Y
O-ASSIGN	OFFICER TO ASSIGN TEST	Y
OC	ORGANOCHLORINE	N
OP	ORGANOPHOSPHATE	N
OXYTE	OXYTETRACYCLINE	N
PATUL	PATULIN	N
PCB	POLYCHLORINATED BIPHENOLS	N
PCILL	PENICILLIN	N
PESTICID	PESTICIDES	Y
PH	pH	Y
PHPHATE	PHOSPHATES	N
POTASSIU	POTASSIUM METABISULFITE	N
PREST	PRESSURE TEST	N
PROFEN	PROFENOFOS	N
PSEUD	PSEUDOMONAS AEROGINOSA	N
PSP	PSP TOXIN	Y
PTASE	PHOSPHATASE	N
PV	PEROXIDE VALUE	N
QINO	QUINOLONES	N
RADIA	RADIATION	N
RED	RED COLOUR	N
SACCHAR	SACCHARIN	N
SACID	SORBIC ACID	N
SALM	SALMONELLA	Y
SBENZ	SODIUM BENZOATE	N
SCYGLAM	SODIUM CYCLAMATE	N
SE	SELENIUM	N
SMETAB	SODIUM METABISULPHATE	N
SNITRITE	SODIUM NITRITE	N

Code	Name	Valid
SO2	SULPHUR DIOXIDE	Y
SPC	STANDARD PLATE COUNT	Y
STAPE	STAPH ENTEROTOXIN	Y
STAPH	STAPHYLOCOCCI	Y
STLB	STILBENES	N
STREP	STREPTOMYCIN	Y
SUBST	SUBSTITUTION	N
SULPHA	SULPHAMIDES	Y
TETRACY	TETRACYCLINES	Y
THERAPEU	IS THIS A THERAPEUTIC?	N
TIN	TIN	N
TITANIUM	TITANIUM DIOXIDE	N
VCHOL	VIBRIO CHOLERAЕ	Y
		N
VIBRI	VIBRIO PARAHAEMOLYTICUS	Y
VISUA	VISUAL	Y
VITAM	VITAMINS	N
WAX-C	WAX COLOURS	N
WHITE	WHITE COLOUR	N
YEAST	YEASTS	N
YELLOW	YELLOW COLOUR	N

2.7 Referred inspection category code

The code definition and values for the referred inspection category code are identical to that of the actual inspection category code.

2.8 Sample arrival condition code

The code definition and values for the sample arrival condition code are identical to that of the sample inspection condition code.

2.9 Sample inspection condition code

This code set also meets the requirements for the sample arrival condition code.

Table 11 Field definition

Type	Definition
Code	Char (5)
Description	Varchar (254)
Active	Char (1)

Table 12 Code values

Code	Description	Active
C	Chilled	Y
D	Dried	Y
F	Frozen	Y
P	Putrid	Y
RTNSS	Room Temp (Not Shelf Stable)	Y
RTSS	Room Temp (Shelf Stable)	Y
TA	Thawed – Ambient	Y
TC	Thawed – Cool	Y
U	Unknown	Y