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OLIS – Report Identification Guidance

OLIS Business Delivery
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Approval History

APPROVER(S)	TITLE/DEPARTMENT	APPROVED DATE
Victor Shcherban,	Business Lead – eHealth Ontario	2012-11-15
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Revision History

VERSION NO.	DATE	SUMMARY OF CHANGE	CHANGED BY
4.1	2017-09-12	Updated the list of result that will not appear in OLIS	Marcia Dobson
4.0	2017-08-09	Update guidance rules pertaining to Dynacare. Business name change, report ID format change	Marcia Dobson
3.0	2015-05-26	Updated to incorporate changes made to LifeLabs' interface	Marcia Bailey
2.0	2014-12-12	Updated information to aid with duplicate matching logic	Marcia Bailey
1.0	2012-11-15	added the list of result types that may not appear in OLIS	Marcia Bailey
v.5	2012-10-30	Created the first draft for signoff	Nivedita Bajaj

Document Sensitivity Level

Medium

Background and purpose

Today, EMRs receive laboratory results through one or more proprietary interfaces defined by community laboratories. Once OLIS data is available, the EMR will receive the same reports at different times through the two separate channels: the proprietary and OLIS interfaces. EMR products must only display one copy of the result report. This document provides guidance to EMR vendors on how to identify laboratory result IDs which will support the management of duplicate result reports through their EMR product(s) and the EMR Specification 4, Appendix E – EMR OLIS Interface.

This document is based on information provided by community laboratories that contribute reports to the Ontario laboratories information system (OLIS).

Disclaimer:

It is important to note that the information contained in this document is dynamic and may change over time. This document may not be updated to reflect changes and vendors are advised to validate the information that follows before it is used.

For further information:

Refer also OLIS FAQ item #11, which provides guidance regarding the management of matching reports arriving over both interfaces at different times.

All report IDs in OLIS are unique; however, the direct-interface report IDs from some labs are not guaranteed to be unique, and some labs may recycle report IDs after two or more years have passed.

The OLIS report ID (also referred as accession number by the labs) always appears in the ORC.4 *Placer Group Number* field, but the location of the report ID varies in different direct interfaces. To confirm the location of the report ID, please consult the direct interface specification documentation and the lab's technical support as needed.

The identity of the lab that submitted the report ID to OLIS can be determined by checking the assigning authority field of ORC.4.3 in the report as follows:

- The 2.16.840.1.113883.3.59.1 part means "Ontario laboratory"
- The four characters following the colon identify the lab (i.e. the performing lab license number). The values for the community labs are as follows:
    - 5407 Canadian Medical Laboratories (now merged with LifeLabs)
    - 5552 Gamma Dynacare
    - 5687 LifeLabs
    - 5254 Alpha Laboratories

This document references both community laboratory proprietary messaging and OLIS Interface messaging.

Identifying matching Canadian Medical Laboratories (CML) healthcare report IDs

1. The CML-direct and CML-OLIS report ID share a sequence of seven matching characters (highlighted in green in the example).
2. The CML-direct report ID is seven characters long.
3. The CML-OLIS report ID contains a five-character suffix that is not present in the CML-direct report ID.

Example:

CML-direct	AZ34567
CML-OLIS	AZ34567-0411

A match exists when all of the following conditions are true:

1. the patient identifier (e.g., Ontario Health Number) matches and
2. the last seven characters of the CML-direct report ID match the first seven characters of the CML-OLIS report ID and
3. the specimen collection dates match (if the specimen collection date is present in the direct interface report).

Compare only the date component (YYYYMMDD) of the specimen collection date time received from OLIS with the specimen collection date received from CML

Identifying LifeLabs Ontario report IDs:

1. The LifeLabs-direct and LifeLabs-OLIS report ID share a sequence of nine matching characters.
2. The LifeLabs-OLIS report ID contains a five-character prefix.
3. The LifeLabs-direct report ID does not contain a five-character prefix.

Example:

LifeLabs-direct	123456789
LifeLabs-OLIS	2008-123456789

A match exists when all of the following conditions are true:

1. the patient identifier (e.g., Ontario Health Number) matches and
2. the last nine characters of the LifeLabs-OLIS report ID match the nine characters of the LifeLabs-direct report ID and
3. the specimen collection dates match (if the specimen collection date is present in the direct interface report).

LifeLabs Accession number for microbiology reports

LifeLabs appends a –XX (i.e. 123456789-02) on Accession IDs for microbiology

Ensure during duplicate checking for LifeLabs reports, if one or more reports with the same Accession number is re-sent in the following format "Accession number – xx", this should be considered as a "matched" report to the master report sent with the same Accession number.

For example:

Report 1: 123456789 (Master report)

Report 2: 123456789-01

Report 3: 123456789-02

All of the 3 reports must be linked together while performing comparisons for the duplicate checking process.

Note

LifeLabs made a change to their LifeLabs - OLIS interface on May 11 2015. This change now means that LifeLabs will send an order message with a status of 'Specimen Collected' before sending in the results for the specific order. The duplicate checking logic applied in your interface needs to be able to handle this change, without causing duplicates in the Practitioner's inbox.

Identifying Dynacare (Dynacare) report IDs:

Dynacare maintains two kinds of formats for their direct reports with EMR's:

i. Fixed format

1. The fixed format Dynacare-direct report ID and OLIS report ID share a sequence of eight matching characters.
2. The Dynacare -OLIS report ID contains a total of fourteen characters. There is a six character prefix (four character prefix followed by another two character prefix) followed by the Dynacare direct report id.
3. The fixed format Dynacare -direct report ID does not contain the six-character prefix.

Example:

Dynacare -direct	34567890
Dynacare -OLIS	20071234567890

A match exists when both of the following conditions are true:

1. the patient identifier (e.g., Ontario Health Number) matches, and
2. the last eight characters of the Dynacare -direct report ID match the last eight characters of the OLIS report ID, and
3. the specimen collection dates match (if the specimen collection date is present in the direct interface report).

Compare only the date/time component (YYYYMMDDHHMM) of the specimen collection date time received from OLIS with the specimen collection date received from Gamma.

Temporary solution: Use the Reporting Laboratory identifier (ZBR.4) to identify if the report is from Gamma Labs. E.g. DYNACARE MEDICAL LABORATORIES^^^^^&2.16.840.1.113883.3.59.1:5687&ISO

ii. HL7 Format

1. The HL7 format Dynacare -direct report ID and OLIS report ID share a sequence of ten matching characters (omitting the hyphen in the Dynacare -direct report ID).
2. The Dynacare -OLIS report ID contains a total of fourteen characters. There is a four character prefix, which represents the year of the order, followed by the Dynacare direct report id (omitting the hyphen in the Dynacare -direct report ID).
3. The HL7 format Dynacare -direct report ID does not contain the four-character prefix, but does contain a hyphen in the third position.

Examples:

(a) Dynacare -direct 12-34567890
Dynacare -OLIS 20071234567890

(b) Dynacare -direct AA-456789
Dynacare -OLIS 2016AA00456789

A match exists when <u>all</u> of the following conditions are true:

1. The patient identifier (e.g., Ontario Health Number) matches, and
2. The last ten characters of the OLIS report ID matches the following data:

   - First two characters (before the dash) of the Dynacare direct report ID, appended with the OLIS report ID
   - All digits (after the dash) of the Dynacare direct report ID, formatted to 8 characters with leading zeroes (see (b) example above)

3. The specimen collection dates match (if the specimen collection date is present in the direct interface report).

Identifying matching Alpha Laboratories report IDs

1. the Alpha lab-direct and Alpha-OLIS report ID share a sequence of eight matching characters (highlighted in green in the example)
2. the Alpha-direct report ID is eight characters long
3. the Alpha-OLIS report ID contains a four-character prefix followed by a hyphen that is not present in the Alpha-direct report ID.

Example:

Alpha-direct	07654321
Alpha-OLIS	2012-07654321

A match exists when all of the following conditions are true:

1. the patient identifier (e.g., Ontario Health Number) matches and
2. the last eight characters of the Alpha-direct report ID match the last eight characters of the Alpha-OLIS report ID and
3. the specimen collection dates match (if the specimen collection date is present in the direct interface report).

Conclusion:

While this document does provide guidance to EMR vendors wishing to conform to EMR Specification 4 requirements, it is the responsibility of the EMR vendors to confirm this information before it is implemented into their EMR product.

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Some test results that may not appear in OLIS

- Tests performed for purposes other than the direct provision of care to a patient, including without limitation pre-employment and other employment related testing and clinical trials testing
- Referral outs
- Referral ins
- Partial test results
- Tests not performed by lab (e.g. broken test tubes)
- Expired Health Cards
- Out of province patients
- Out of province practitioners
- Orders from hospitals
- Pilot Sites – For example, reports from long term care facilities; hospitals without an on-site laboratory that refer their patients to an external laboratory and do not send these results directly to OLIS from the hospital
- Tests on non-insured patients where the necessary Ontario patient identification information is unavailable
- Non-insured tests where the necessary Ontario patient identification information is unavailable
- Non-insured patients where the necessary Ontario patient identification information is unavailable
- Out of province patients where the necessary Ontario patient identification information is unavailable
- Tests performed for purposes other than the direct provision of care to a patient, including without limitation pre-employment and other employment related testing and clinical trials testing