

Technical Report

Information technology for learning, education and training — Learning analytics interoperability

Part 1: Reference model



SA/SNZ TR ISO/IEC 20748.1:2020

This Joint Australian/New Zealand Technical Report was prepared by Joint Technical Committee IT-019, Information and Documentation, Information Technology — Learning, Education, Training and Research. It was approved on behalf of the Council of Standards Australia on 10 February 2020 and by the New Zealand Standards Executive on 11 February 2020.

This Technical Report was published on 28 February 2020.

The following are represented on Committee IT-019:

Australian Computer Society
Australian Library and Information Association
Council of Australian University Librarians
CSIRO
Education Services Australia
Flinders University
Macquarie University
National Library of New Zealand
Northern Territory Library
NSW Department of Education
Professional Scientists Australia
University of Southern Queensland
University of Waikato

This Technical Report was issued in draft form for comment as DR SA/SNZ TR ISO/IEC 20748.1:2019.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

www.standards.govt.nz

ISBN 978 1 76072 741 3

Technical Report

Information technology for learning, education and training — Learning analytics interoperability

Part 1: Reference model

First published as SA/SNZ TR ISO/IEC 20748.1:2020.

COPYRIGHT

© ISO/IEC 2020 — All rights reserved

© Standards Australia Limited/the Crown in right of New Zealand, administered by the New Zealand Standards Executive 2020

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth) or the Copyright Act 1994 (New Zealand).

Preface

This Technical Report was prepared by the Joint Standards Australia/Standards New Zealand Committee IT-019, Information and Documentation, Information Technology — Learning, Education, Training and Research.

The objective of this Technical Report is to specify a reference model that identifies the diverse IT system requirements of learning analytics interoperability. The reference model identifies relevant terminology, user requirements, workflow and a reference architecture for learning analytics.

This Technical Report is identical with, and has been reproduced from, ISO/IEC TR 20748-1:2016, *Information technology for learning, education and training — Learning analytics interoperability — Part 1: Reference model*.

As this document has been reproduced from an International Technical Report, a full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

Contents

Preface	ii
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	3
5 Use cases and practices	3
5.1 General	3
5.2 Learning analytics	4
5.3 Assessment	4
5.4 Data flow and data exchange	4
5.5 Accessibility preferences	5
6 Reference model for learning analytics interoperability	5
6.1 General	5
6.2 Workflow for general data analytics	5
6.3 Reference architecture derived from workflow and use cases	6
6.3.1 General	6
6.3.2 Learning and teaching activity process	7
6.3.3 Data collection process	8
6.3.4 Data storing and processing process	9
6.3.5 Analysing process	10
6.3.6 Visualization process	11
6.3.7 Feedback process	12
Annex A (informative) Use cases and practices	14
Bibliography	30

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-