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Health informatics — Terminological resources

Part 3: Terminology implementation maturity model (TIMM)

National foreword

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Health informatics — Terminological resources —

Part 3: Terminology implementation maturity model (TIMM)

*Informatique de santé — Ressources terminologiques —
Partie 3: Modèle de maturité pour la mise en œuvre de la
terminologie*

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Foreword

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Introduction

This document identifies a model for evaluation of the maturity of terminology implementation in healthcare systems and identifies a maturity module for terminology implementation for use in electronic health records (EHRs) and healthcare systems in general.

This document supports common activities of healthcare including:

- identification of the relationship between each terminology resource capability to the safety and effectiveness of system use in healthcare;
- support healthcare software vendors and organizations to;
 - compare software terminological resource capabilities and organizational requirements for those resources;
 - plan improvements, i.e. align requirements and capabilities, as needed;
- improve the safety and utility of healthcare information systems and the data in them, and the use of terminological resources in applications such as clinical decision support systems;
- improve information sharing (semantic interoperability) between organizations and systems;
- support short and long-term analytics within the organization and more broadly to enable knowledge acquisition.

The impact of tooling (including computer-assisted coding, speech recognition, template development) on the capability of the terminological resources is not covered in detail in this document.

This document provides a model against which conformity can be measured and improvements made to products and implementations with a positive impact both on efficiency and patient safety. This assists implementation, reduces inappropriate spending, manages expectations more effectively and encourages software vendors and decision makers at all levels to progress their products into higher functional capacity. This document is also produced to encourage the development of the skills required to safely and efficiently implement and use terminologies in healthcare systems.

The users of this document include:

- health care organisation, to assess product capabilities and plan future directions and purchases;
- vendors (including cloud services and conventional software products), to:
 - support implementation of terminological resources in their products;
 - enable semantic interoperability across different systems;
 - assess product conformance requirements influencing future directions for software development;
- government and other decision makers;
- educators and educational organizations;
- terminological resource developers.

