
**Information technology — Big data
reference architecture —**

**Part 1:
Framework and application process**

*Technologies de l'information — Architecture de référence des
mégadonnées —*

Partie 1: Cadre méthodologique et processus d'application





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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Abbreviated terms	2
5 Document overview	3
6 Big data standardization: motivation and objectives	3
7 Conceptual foundations	5
7.1 General	5
7.2 Reference architecture concepts	5
7.3 Reference architecture structure	6
8 Big data reference architecture elements	7
8.1 Overview	7
8.2 Stakeholders	8
8.3 Concerns	9
8.4 Views	9
8.4.1 User view	10
8.4.2 Functional view	10
9 Big data reference architecture application process	10
9.1 Overview	10
9.2 Identify stakeholders and concerns	11
9.3 Map stakeholders and concerns to roles and subroles	11
9.4 Develop detailed activity descriptions and map to concerns	12
9.5 Define functional components to implement activities	13
9.6 Cross walk activities/functional components back to concerns	13
Bibliography	14

Foreword

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A list of all parts in the ISO/IEC 20547 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The big data paradigm is a rapidly changing field with rapidly changing technologies. This dynamic situation creates two significant issues for potential implementers of the technology. First, there is a lack of standard definitions for terms including the core concept of big data. The second issue is that there is no consistent approach to describe a big data architecture and implementation. The first issue is addressed by ISO/IEC 20546. The ISO/IEC 20547 series is targeted to the second issue and provides a framework and reference architecture which organizations can apply to their problem domain to effectively and consistently describe their architecture and its implementations with respect to the roles/actors and their concerns as well as the underlying technology. This document describes the reference architecture framework and provides a process for mapping a specific problem set/use case to the architecture and evaluating that mapping.

Information technology — Big data reference architecture —

Part 1: Framework and application process

1 Scope

This document describes the framework of the big data reference architecture and the process for how a user of the document can apply it to their particular problem domain.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC/IEEE 42010, *Systems and software engineering — Architecture description*