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Information technology — Big data reference architecture

Part 1: Framework and application process

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National foreword

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Foreword

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This document was prepared by Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 42, *Artificial intelligence*.

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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.

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