


# Big Data International Standards in development

## All subject to change

Standard number	Standard title	Stage
<b>ISO/IEC 20546</b>	Big Data – Overview and Vocabulary	30.20
<b>ISO/IEC TR 20547-1</b>	Big Data Reference Architecture -- Part 1: Framework and Application process	20.20
<b>ISO/IEC TR 20547-2</b>	Big Data Reference Architecture -- Part 2: Use Cases and Derived Requirements	30.60
<b>ISO/IEC 20547-3</b>	Big Data Reference Architecture -- Part 3: Reference Architecture	20.20
<b>ISO/IEC 20547-4</b>	Big Data Reference Architecture -- Part 4: Security and Privacy Fabric	20.20
<b>ISO/IEC TR 20547-5</b>	Big Data Reference Architecture -- Part 5: Standards Roadmap	30.60

# Market research overview



Big Data and  
standards market research

January 2016

**Circle**research  
The I2S experts

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# Potential standards scopes

- Big Data. Guidance on terms and conditions (T&Cs) for obtaining and using data.
- Big Data. Specification for a data engaged organisation.
- Big Data. Guidance on Big Data project communications.
- Big Data. Code of practice for Big Data analytics project management.
- Big Data. Guidance on Big Data metadata management.
- Big Data. Code of practice for ethical usage of Data

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## BSI Big Data standards development workshop output

Date: 12<sup>th</sup> May 2017

### 1. Introduction

In 2016 BSI published a [Big Data and standards market research report](#). The main purpose of the research was to determine the requirements for standards development associated with Big Data, focused on the needs of the UK market. These findings were then developed into a series of potential 'scopes' for new standards. The scopes were then refined in three workshops that took place in March and May 2016 with 30 stakeholders from government, consumer groups, large corporates and SMEs.

Following discussions the approach was proposed to develop a new BSI committee (to be formed) and take the ideas forward as a series of British Standards (with the general intention to use these as 'base documents' for future international standards). In April 2017 BSI hosted a workshop to confirm this approach, verify the scopes/involvement and enable BSI to standard the process of developing these standards.

This document covers the revised draft scopes for these standards. Four of which are proposed to be developed as British Standards with staggered starts (to manage resources) and two of which will require further investigation within the committee.

Notes to take into account when reading the scopes:

- There was a discussion around the value or not of including "Big Data" in the title of the standards. The phenomenon of "Big Data" has accelerated the need for many of the best practice documents identified below, however 1) many of these 'issues' existed prior to the term Big Data and 2) there were concerns about the longevity of the term Big Data. For the near-term, "Big Data" has been retained in the titles, but this decision can be revisited closer to publication.
- Quorum. For all the ideas (including those in development) there is quorum of organisations interested in participating, however further organisations are sought.
- "Guidance on Big Data metadata management" – there has been subsequent discussion on the various other metadata standards that exist. As such this idea needs further investigation to ensure that it has a scope that complements other standards.
- "Code of practice for ethical usage of Personal Data" – the April 2017 workshop was the first time this idea had been discussed with the group. It was broadly supported, but needs further honing.

# Get involved / stay in touch...

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## Useful committee websites

*SDS/2 Smart and Sustainable Cities and Communities*

<https://standardsdevelopment.bsigroup.com/committees/50267187>

