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Date: 17 January 2024

Origin: International

Latest date for receipt of comments: 6 March 2024

Project No. 2024/00114

Responsible committee: IOT/1 Internet of Things and Digital Twin

Interested committees:

Title: BS ISO/IEC 30186 Digital twin - Maturity model and guidance for a maturity assessment

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- iii) requires additional national guidance or information

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



JTC1-SC41/400/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER:

ISO/IEC 30186 ED1

DATE OF CIRCULATION:

2024-01-12

CLOSING DATE FOR COMMENTS:

2024-04-05

SUPERSEDES DOCUMENTS:

JTC1-SC41/298/NP, JTC1-SC41/318A/RVN

IEC ISO/IEC JTC 1/SC 41 : INTERNET OF THINGS AND DIGITAL TWIN

SECRETARIAT:

Korea, Republic of

SECRETARY:

Ms Jooran Lee

OF INTEREST TO THE FOLLOWING COMMITTEES:

TC 65, SyC SM, SyC Smart Cities

PROPOSED HORIZONTAL STANDARD:



Other TC/SCs are requested to indicate their interest, if any, in this CD to the secretary.

FUNCTIONS CONCERNED:

☐ EMC

☐ ENVIRONMENT

☐ QUALITY ASSURANCE

☐ SAFETY

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TITLE:

Digital twin – Maturity model and guidance for a maturity assessment

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DIGITAL TWIN – MATURITY MODEL AND GUIDANCE FOR A MATURITY ASSESSMENT

FOREWORD

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Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this **International Standard** is **English**.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

90 A digital twin comprises a number of technologies that are existing, under development or upcoming in
91 the near future. Like other technologies, digital twins evolve in levels, from simple to complex, from
92 standalone to federated, from human intervention to autonomous and so on. Each level provides
93 different functionalities from simple to very sophisticated.

94 Digital twins deployed in various application domains are likely requested to cooperate with other digital
95 twins for coping with complex problems raised across the application domains. However, different levels
96 of features such as convergence, capabilities and integrated view prevent digital twin applications from
97 cooperating with other digital twin applications.

98 In this situation, the digital twin maturity model is helpful to understand the features that should be
99 supported by a digital twin from a low level to a higher level. The digital twin maturity model is an
100 assessment tool of a digital twin for improvement towards a higher level. Its purpose is to support an
101 organisations assessment of and advancement of its level of maturity in the technological capability of
102 its digital twin. It does not provide guidance on enhancing the maturity and capability of users, or the
103 outcomes digital twin can help deliver.