

ISO/IEC 30189-1:2025-03 (E)

Internet of Things (IoT) - IoT-based management of tangible cultural heritage assets - Part 1: Framework

Contents	Page
FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	6
4 Symbols and abbreviated terms	7
5 General	7
5.1 Cultural heritage management.....	7
5.2 Management of stand-alone cultural heritage assets	8
5.3 Considerations for IoT-based management of cultural heritage assets.....	9
5.3.1 General	9
5.3.2 Device	9
5.3.3 Platform.....	10
5.3.4 Application or service	11
6 Functional entities	11
6.1 General.....	11
6.2 Device	13
6.3 Network	13
6.4 Platform	13
6.5 Application or service	15
6.6 User	16
7 Information flows	16
7.1 General.....	16
7.2 Status monitoring operation.....	16
7.3 Location tracking operation	18
Annex A (informative) Examples of IoT-based CHM services	19
A.1 Status monitoring	19
A.2 Movement detection and location tracking.....	20
Bibliography	21
Figure 1 – Examples of cultural heritage assets.....	7
Figure 2 – Management for conservation of tangible cultural heritage assets.....	8
Figure 3 – System model for IoT-based management of cultural heritage	12
Figure 4 – Platform functions for IoT-based CHM	14
Figure 5 – Information flows for status monitoring operation.....	17
Figure 6 – Information flows for location tracking operation.....	18
Figure A.1 – Status monitoring service	19
Figure A.2 – Location tracking service	20
Table 1 – Examples of IoT-based CHM services	15