

# ITU-T

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

## F.740.2

(06/2021)

SERIES F: NON-TELEPHONE TELECOMMUNICATION  
SERVICES

Multimedia services

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### **Requirements and reference framework for digital representation of cultural relics and artworks using augmented reality**

Recommendation ITU-T F.740.2

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## Recommendation ITU-T F.740.2

### Requirements and reference framework for digital representation of cultural relics and artworks using augmented reality

#### Summary

Recommendation ITU-T F.740.2 describes the requirements, application scenarios and reference framework for the digital representation of cultural relics and artworks using augmented reality (AR), which is known as an augmented reality cultural service system (ARCSS). This Recommendation describes the AR digital presentation requirements, cultural connotation interpretation requirements, cultural venue tour guide requirements, platform management requirements and performance requirements for ARCSSs. This Recommendation describes a reference framework of an ARCSS with an AR cloud creation platform, AR cloud management platform and mobile devices. Procedures of augmented reality cultural service are provided in this Recommendation including an AR content creation procedure, AR service management procedure and AR content display procedure.

#### History

| Edition | Recommendation | Approval   | Study Group | Unique ID*                                                                   |
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#### Keywords

Artworks, augmented reality, cultural relics, cultural venue.

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\* To access the Recommendation, type the URL <http://handle.itu.int/> in the address field of your web browser, followed by the Recommendation's unique ID. For example, <http://handle.itu.int/11.1002/1000/11830-en>.

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