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Multimedia services

Requirements for change management in distributed ledger technology (DLT)-based decentralized applications

Recommendation ITU-T F.751.3

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Requirements for change management in distributed ledger technology (DLT)-based decentralized applications

Summary

The development of applications using distributed ledger technology (DLT) enables the creation of new business models in various sectors of the economy and it has the potential to tackle, on a large scale, important challenges for our society, due to its ability to increase trust in the relationship between stakeholders. Technical immutability is key to building trust between stakeholders. On the other hand, real life introduces practical needs to update applications with smart contracts. This document defines some recommendations to tackle changes in applications using smart contracts.

The discussion of whether DLT networks provide different levels of technical immutability is out of the scope of this Recommendation.

History

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

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