International Telecommunication Union

ITU-T

TELECOMMUNICATION
STANDARDIZATION SECTOR
OF ITU

F.749.14

(06/2021)

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Requirements of coordination for civilian unmanned aerial vehicles

Recommendation ITU-T F.749.14

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Requirements of coordination for civilian unmanned aerial vehicles

Summary

Civilian unmanned aerial vehicle (CUAV) coordination refers to utilizing the coordination of multiple CUAVs to accomplish specific tasks through network communication. To enable CUAVs to cooperate well and accomplish tasks successfully, three important parts need to be fulfilled. First, a stable and reliable network connection is required to be established among CUAVs to ensure that every CUAV can connect to the others; second, efficient and reliable data transmission among CUAVs is required so as to ensure that the perception information, control information, coordination information and other required information is exchanged among CUAVs; finally, a CUAV collaborative task execution strategy is required to be reasonably worked out during the coordination process in order to improve the efficiency and quality of collaborative task execution. Recommendation ITU-T F.749.14 specifies the requirements of CUAV coordination, including the requirements of network connection among CUAVs, the requirements of data transmission among CUAVs, and the requirements of CUAV collaborative task execution.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T F.749.14	2021-06-13	16	11.1002/1000/14685

Keywords

Civilian unmanned aerial vehicle, coordination, CUAV.

* 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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