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Space data and information transfer systems — Spacecraft onboard interface services — Device virtualization service

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INTERNATIONAL STANDARD

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Space data and information transfer systems — Spacecraft onboard interface services — Device virtualization service

Systèmes de transfert des informations et données spatiales — Services d'interfaces à bord des véhicules spatiaux — Service de virtualisation des périphériques

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The Consultative Committee for Space Data Systems

Recommendation for Space Data System Practices

SPACECRAFT ONBOARD INTERFACE SERVICES—DEVICE VIRTUALIZATION SERVICE

RECOMMENDED PRACTICE

CCSDS 871.2-M-1

MAGENTA BOOK

March 2014

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This document has been approved for publication by the Management Council of the Consultative Committee for Space Data Systems (CCSDS) and represents the consensus technical agreement of the participating CCSDS Member Agencies. The procedure for review and authorization of CCSDS documents is detailed in *Organization and Processes for the Consultative Committee for Space Data Systems*, and the record of Agency participation in the authorization of this document can be obtained from the CCSDS Secretariat at the address below.

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FOREWORD

This document is a technical Recommended Practice for use in developing flight and ground systems for space missions and has been prepared by the Consultative Committee for Space Data Systems (CCSDS). The Device Virtualisation Service described herein is intended for missions that are cross-supported between Agencies of the CCSDS, in the framework of the Spacecraft Onboard Interface Services (SOIS) CCSDS area.

This Recommended Practice specifies a set of related services to be used by space missions to access and manage files and packets within a spacecraft subnetwork. The Device Virtualisation Service provides a common service interface regardless of the particular type of data link or protocol being used for communication.

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