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Information technology - Cyberspace map

信息技术 网络空间地图

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Introduction

As the fifth territory of mankind after the sea, land, air and space, cyberspace has become a new space that carries politics, military, economy and culture.

This document aims to establish the cyberspace coordinate system and basic principles for the drawing of cyberspace maps for information technology cyberspace.

It provides guidance for the accurate perception and overall presentation of various scenarios such as space asset management, performance monitoring, situational awareness, and network security.

Information Technology Cyberspace Map

1 Scope

This document defines a cyberspace coordinate system and a cyberspace map.

This document applies to activities such as measuring and mapping cyberspace.

2 Normative references

This document has no normative references.

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 cyberspace

The interconnected digital environment consisting of the networks, services, systems,

people, processes, organizations, and things that reside in or traverse the digital environment.

Note. Cyberspace mainly relies on information and communication technology infrastructure carriers such as the Internet, telecommunications networks, and various control systems and equipment.

[Source. ISO /IEC TS27100 2020, 3.5, modified]

3.2 cyberspaceresource

In cyberspace (3.1), targets that can be detected and sensed using network measurement methods.

Examples. infrastructure, application services, data resources, etc.

3.3 [Source. GB/T 30170-2013, 4.10, modified]

A set of mathematical rules for assigning coordinates to elements of cyberspace resources (3.2).

Note. This refers to the positioning reference system for cyberspace resource elements.

3.4 cyberspacemap

Based on the cyberspace coordinate system (3.3), according to certain drawing rules, use mapping methods to express the location of cyberspace resources (3.2) tools to store and display information about the device and its attributes.

3.5 cyberspacemapscalecyberspacemapscale

The granularity of the cyberspace object represented by the cartographic object.

4 Abbreviations

The following abbreviations apply to this document. AS Autonomous System