

ICS 33.040.40
CCS L78

YD

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YD/T 6685-2026

**Technical specification for BGP intent-aware routing - BGP
color-aware route**

基于边界网关协议（BGP）的端到端感知意图路由技术要求 颜色感知的BGP路由
(English Translation)

Issued on: March 11, 2026

Implemented on: June 1, 2026

Issued by: Ministry of Industry and Information Technology

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

Foreword

YD/T 6685-2026 is a recommended industry standard of the People's Republic of China in the Telecom sector, approved and issued by the Ministry of Industry and Information Technology on 11 March 2026, with effect from 1 June 2026.

It is administered by the China Communications Standards Association.

Classification: ICS 33.040.40; CCS L78.

1 Scope

YD/T 6685-2026 gives technical requirements for intent-aware paths based on the Border Gateway Protocol (BGP). It covers the technical content of color-aware BGP routes and the protocol extensions needed to carry them.

The document applies to scenarios in which color-aware BGP routes are used to establish intent-aware paths, and to network devices and systems that support color-aware BGP route technology. Router and switch manufacturers, network software developers, operators and test laboratories can use it. It is a voluntary standard approved by the Ministry of Industry and Information Technology. It was issued on 11 March 2026 and comes into force on 1 June 2026. It is a new standard.