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CCS L78

YD

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

YD/T 6912.5-2026

**Technical requirements for Bit Index Explicit Replication (BIER)
control plane - Part 5: Extension for Path Computation Element
Protocol (PCEP)**

位索引显式复制（BIER）控制面技术要求 第5部分：路径计算单元协议（PCEP）扩展

(English Translation)

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Foreword

YD/T 6912.5-2026 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 1 June 2026, with effect from 1 September 2026.

It is administered by the China Communications Standards Association.

Classification: ICS 33.040.40; CCS L78.

1 Scope

The document sets out the technical requirements for the extension of the Path Computation Element Protocol (PCEP) in the control plane of Bit Index Explicit Replication (BIER) networks. It covers the BIER information that is advertised and the corresponding PCEP encapsulation format.

It applies to scenarios where BIER-capable network devices use PCEP to exchange BIER information, and also to the technical research, development and testing of BIER-capable network devices. Equipment manufacturers, controller developers and test laboratories are typical users. The /T in the code means it is a voluntary standard. The Ministry of Industry and Information Technology approved it; it was issued on 1 June 2026 and takes effect on 1 September 2026. It is a new standard and does not replace an earlier edition. It is the fifth part of the BIER control plane series.