工程与应用

客运专线运营调度系统总体架构设计

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摘要　客运专线运营调度系统建设是当前我国铁路在建的一项复杂信息系统工程。总体架构设计对于客专运调系统的后续设计与研发工作具有重要的指导意义。针对客专运调系统特点，运用SOA架构设计理念提出了"实平台、虚应用"的总体架构，并从业务架构、数据架构、应用架构及技术架构对客运专线运营调度系统逐层进行了剖析，说明了基于SOA的客专运调系统总体架构的优点，并指明了进一步研究的方向。
关键词　客运专线　运营调度系统　服务导向架构　架构设计
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Architectural design about operation and dispatching system of railway passenger dedicated line

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Abstract

Constructing operation and dispatching system of railway passenger dedicated line is a complex system project in the field of railway now.The architectural design has the important directive meaning for the following design and development.Based on the system's characteristic，the paper provides the architecture named after "true platform，virtual application"，and analyzes the system from business architecture，data architecture，application architecture to technology architecture.The advantage is clearly showed about the architecture based on SOA，and the further direction of the research is indicated.

Key words　dedicated passenger railway line　operation and dispatching system　Service-Oriented Architecture（SOA）　architecture design

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