

# 云数据中心在航天试验任务领域智能运维一体化解决方案

陈洪雁，齐宏为，尹 航

(北京跟踪与通信技术研究所，北京 100094)

**摘 要：**航天试验任务的 IT 系统必须是高性能、高稳定、高安全、可扩展的计算机网络体系结构，以便支持今后不断更新、升级和发展的需要，从而保证航天试验任务的顺利实施。本文针对航天试验任务系统云数据中心 IT 运维业务特点及技术要求，以国产自主可控软硬件为核心，采用子系统、层次化、模块化的系统架构设计理念，以全开放的、组件化的架构原型，将资源监控、自动化运维、运维流程管理融为一体，构建一套可靠的、可扩展的、高性能的一体化 IT 运维管理解决方案，为航天试验任务系统的稳定运行保驾护航。

**关键词：**航天试验；智能运维；一体化模式；自主可控；基础设施及服务；云数据中心

## The intelligent operation and maintenance integration solution for cloud data center in the aerospace test system

CHEN Hong-yan, QI Hong-wei, YIN Hang

(Beijing Institute of Tracking and Telecommunicaitons Technology, Beijing 100094, China)

**Abstract:** The IT system for space trial mission must be high-performance, high stability, high security and scalable computer network architecture, In order to support the need for continuous updating, upgrading and development in the future, and ensure the smooth implementation of the aerospace test task. According to Characteristics and technical requirements of IT operation and maintenance for cloud data center of Aerospace test system, With the domestic self controlled hardware and software as the core, Adopt subsystem, hierarchical, modular design concept of system architecture, Building an all open, component-based architecture prototype, Integration of resource monitoring, automation operation and maintenance, operation and maintenance process management, Build a reliable, scalable and high-performance solution for integrated IT operation and maintenance management. Escorting the stable operation of the space trial mission system.

**Key words:** aerospace test; intelligent operation and maintenance; integration model; independent controllable; infrastructure and services; cloud data center

**作者简介：**

陈洪雁 女，(1976-)，硕士，助理研究员.研究方向为信息化建设、网络安全.E-mail:807251256@qq.com.

齐宏为 男，(1966-)，硕士，副研究员.研究方向为信息化建设、网络管理.

尹 航 男，(1985-)，博士，助理研究员.研究方向为信息化建设、网络安全.