

## Design and Implementation of Flood Control and Satellite Mobile Communication System in Guangdong Province

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**Abstract:** This project is aimed to design and establish a mobile satellite communication system for flood control and emergency command of Guangdong Province through the combination of satellite communication and 3G/4G cellular mobile communication. This system consists of live video phone, 3G/4G cellular mobile communication, satellite BGAN network and a terminal in command center for automatically receiving and broadcasting video. With the system applied to the flood control and emergency command of Guangdong Province, field staff can get access to Water Resources Information Network System of Guangdong Province through high-speed 3G/4G mobile communication and satellite communication, and therefore consultation and command as well as transmission of live videos are made possible whenever and wherever needed, which promotes the efficiency of consultation on three anti-emergency, decision-making and scheduling of Guangdong Province.

**Key words:** satellite; mobile communications; flood prevention; emergency dispatch; command and dispatch; emergency communications

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## Water Resources Information Sharing Platform based on Meta-Data and Model-Driven Tarim River Basin

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**Abstract:** With the intensifying of water resources informatization construction, it is urgent to build water conservancy information sharing platform for supporting the integration of data resources and data center building. According to the requirement of "five unification", this paper proposes the platform construction scheme based on meta-data and model-driven, describes the architecture and function of platform adopting SOA, emphatically introduces the model system of water conservancy business system based on meta-data and the construction technology of water conservancy business system based on model-driven. The application of the platform improves the speed and quality of development for water conservancy business system, and reduces the costs of development and maintenance.

**Key words:** water resources information; meta-data; model-driven; SOA; information sharing; sharing platform

• 简讯 •

### 长江防御洪水方案获国务院批复

2015 年 8 月国务院批复了国家防汛抗旱总指挥部组织制定的《长江防御洪水方案》。

与 1985 年国务院批转的《黄河、长江、淮河、永定河防御特大洪水方案》相比, 本方案增加了流域洪水特性、防御洪水原则、洪水资源利用、有关地方和部门责任权限及工作任务等内容, 同时根据防洪现状和流域规划对防洪工程体系和防御洪水安排作了相应修改完善。在防御洪水安排方面的主要变化有: 增加了上游防御洪水安排, 体现了流域防洪的整体性; 修订了中下游防御洪水的安排。

国务院要求, 国家防汛抗旱总指挥部和云南、四川、重庆、湖北、湖南、江西、安徽、江苏、上海、贵州、陕西省(直辖市)人民政府及国务院有关部门, 按照方案确定的各项任务 and 措施, 认真抓好落实, 确保防洪安全。

《水利信息化》编辑部