



Jabatan Pengairan dan Saliran (JPS) Forecast Data Centre

Overview

- Vertical / Sector: Government
- User Profile: Jabatan Pengairan dan Saliran (JPS) is an agency under the Ministry of Natural Resources and Environment

Problem Statement

Due to the Northeast Monsoon, the occurrence of extraordinary flood events have caused huge damages and loss of public property as well as human lives.

As such, an integrated system is required to manage, integrate, distribute and disseminate information related to flood forecasting and early warning to the respective authorities and the general public

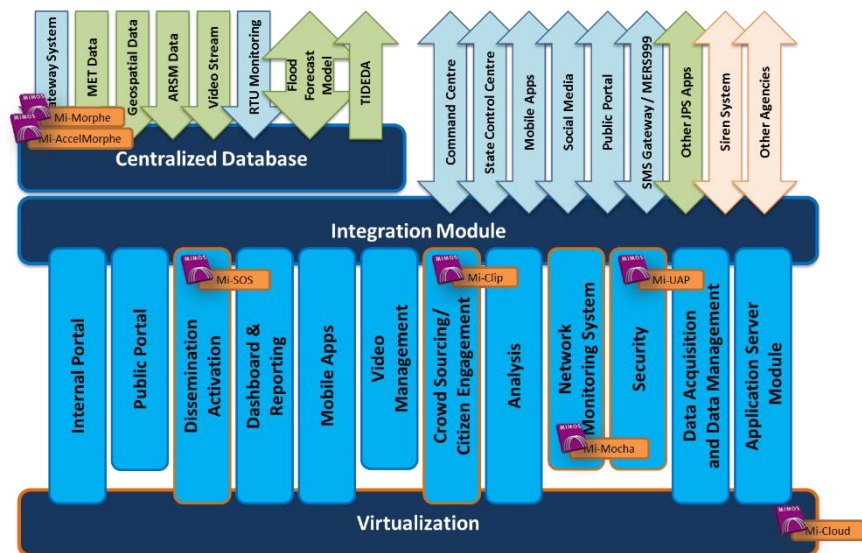
Technology platform

- Data Cleansing and Migration Tool
- Intelligent Web Clipper Platform
- Text Analytics Accelerator Tool
- Cloud Infrastructure Platform
- Cloud-based Monitoring System
- Alert Management and Dissemination System
- Single Sign On

Description

JPS Forecast Data Centre is an integrated system to support the detection, prediction and dissemination of information related to flood in three River Basins i.e. Kelantan, Pahang and Terengganu Rivers.

Application Architecture



Solution

Description

Improvement in the flood forecasting and early warning with the adoption of MIMOS technologies in the following modules:

- Gateway System
- Dissemination Module
- Crowd Sourcing Module
- Cloud Infrastructure
- Network Monitoring System
- Security (Single Sign On)
- Multi-Platform Mobile Application

Features

- Consolidated data input in various format
- Accelerated large data processing
- Accurate forecasting based on quality inputs
- Holistic approach of dissemination
- Real time updated notifications and alerts
- Unified Authentication
- Support multiple platform and mobile devices

Benefits

- Improve flood forecasting system, from 3 days to 7 days in advance, using weather data from the Meteorological Department;
- Improve flood warning systems, from 6 hours to 2 days in advance, to the population affected by the floods; and
- Improve the accuracy of flood forecasting by reducing the difference between the forecast and actual from 1 meter to 0.5 meter.



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