The Common Alerting Protocol (CAP) adaption in National Early Warning Alerting Systems of China

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The Common Alerting Protocol (CAP) [1] is an XML-based data format for exchanging public warnings and emergencies between alerting technologies.

In China, from local communities to entire nations, there was a patchwork of specialized hazard public alerting systems. And each system was often designed just for certain emergency situations and for certain communications media. Application took place in the NEWAS (National Early Warning Alerting Systems) [2]project where CAP serves as central message to integrate all kind of hazard situations, including the natural calamity, accident disaster, public health emergency , social safety etc. Officially operated on May 2015, NEWAS now has completed docking work with 14 departments including civil administration, safety supervision, forestry, land, water conservancy, earthquake, traffic, meteorology, agriculture, tourism, food and drug supervision, public security and oceanic administration. Thus, several items in CAP has been modified, redefined and extended according to the various grading standards and publishing strategies, as well as the characteristics of Chinese Geocoding. NEWAS successfully delivers information to end users through 4 levels (i.e. State, province, prefecture and county) structure and by various means.

[1] CAP, http://www.oasis-emergency.org/cap
[2] http://www.12379.cn/