

CGMS-XXIX
PRC-WP-07
Prepared by CMA
Agenda Item: WG II/7

NSMC PRODUCTS ON-LINE

Summary and purpose of paper

This paper introduces the web service being developed at NSMC in conjunction with the implementation of Virtual Laboratory Concept. Brief demonstration of the on-line service can be presented for the CGMS XXIX if requested.

NSMC Products On-line

Introduction

A work is being done at NSMC to develop a system that enables on line access to data and product service of NSMC. In conjunction with implementation of the concept of Virtual Laboratory, the development of the system is also aimed at providing a way for students to acquire training courses in satellite meteorology, and for meteorological specialists to exchange views and ideas in an interactive method. The ultimate goal of the system is to become a platform distributing the meteorological satellite information and products, as well as an on-line training center.

Constitution of the System

To fulfill the above objective, advanced network technology is needed in designing this online system for product and information service. The overall constitution of the system is shown as follows.

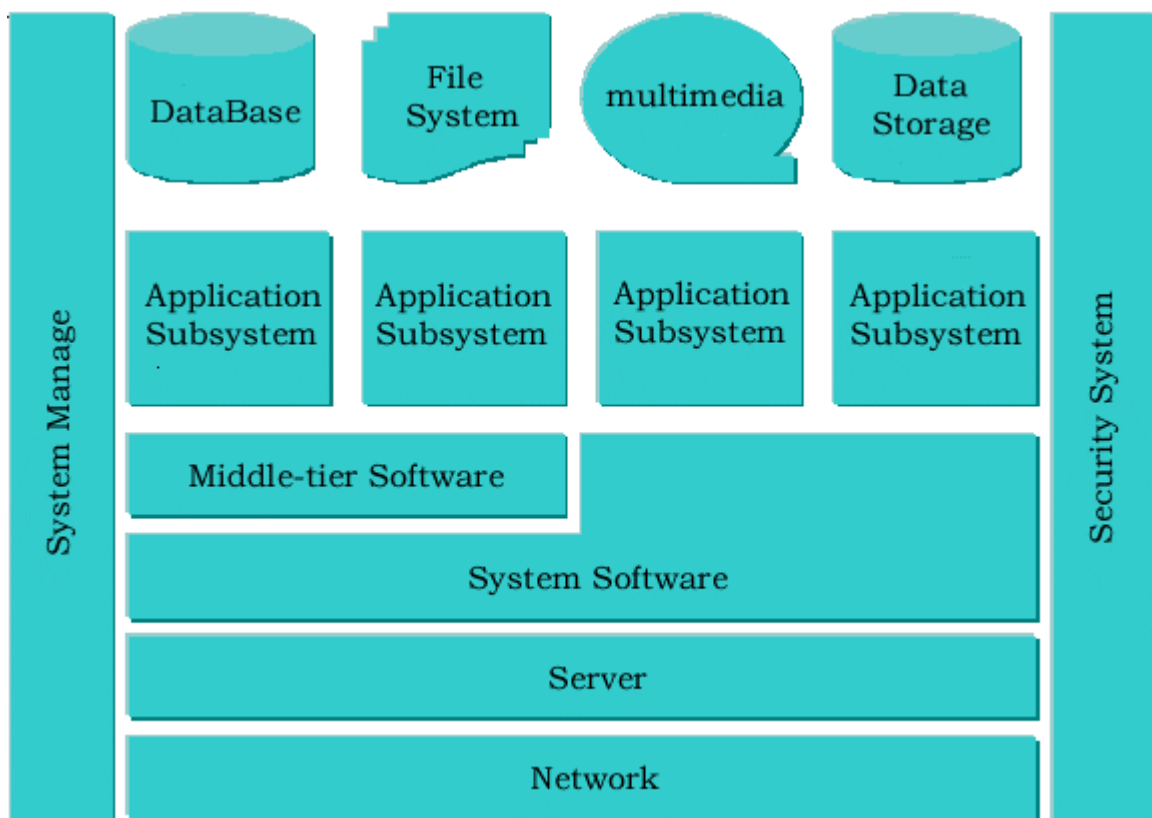


Fig. Constitution of the System

Major components of the system include the network platform, server-platform, system management, security system, database, system software, middle tier software

and application software.

Service Accessible

- Application products:
Images for monitoring typhoon, fire, flood, dust wind, drought, snow, and cloud-tracked wind, rainfall estimation; new products being developed at NSMC, for instance, the application of EOS/MODIS data and TOVS data, monitoring of fog, micro-wave data application and so on.

- Open discussions:
Posters introducing methodology, algorithms and invite views and comments and open discussion. Provision for users with news and information about development of satellite meteorology.

- Training course:
Interactive communications between specialists and students to enable exchange of views on carefully selected training courses and multimedia programs.

- Report of weather analysis:
Case study of severe weather and analysis of environment monitoring.

- Satellite data:
Three forms of data service to allow visitors to down load real-time satellite data, to look up archived data, and to order special products for mail or other means of delivery.

Status of the Project

Design and development of the database has been finished in the middle of 2001. Special end-user software was made to allow input of real-time application products into the database.

The Internet/Intranet Information Service System is being developed. Currently the visitor can get imagery products of weather and environment monitoring, and reports analyzing the development of natural hazards.

For details please see the demonstration.