JOINT COOPERATION PROGRAMME

Component D1:

Droughts Early Warning System

Document D1.6

Material BMKG Administrator training *FEWS-DEWS*

Jakarta

5-7 June 2012

Project: 1201430.000

Client: Water Mondiaal
Partners for Water
Royal Netherlands Embassy in Jakarta

Period: January 2011 – March 2013

TENTATIVE AGENDA
ADMINISTRATOR TRAINING FOR FLOOD AND DROUGHT EARLY WARNING SYSTEM
JAKARTA, 5 – 7 June 2012

Time	Subject	Speaker
Day 1, 5 June 2012		
09.00 – 10.15	Operator Client (Overview and use from a system administrators point of view)	Deltares
10.15 - 10.30	**Coffee Break**	
10.30 – 12.00	Admin Interface (Overview and daily use)	Deltares
12.00 – 13.00	**Launch Break**	
13.00 – 15.00	System Overview (Architectural explanation of FEWS and it's supporting applications)	Deltares
15.00 – 15.30	**Coffee Break**	
15.30 - 17.00	Continue: System Overview (Architectural explanation of FEWS and it's supporting applications)	Deltares
Day 2, 6 June 2012		
09.00 – 10.15	Troubleshooting (How to troubleshoot the FEWS supporting applications, operator client issues and forecasting shell server issues)	Deltares
10.15 - 10.30	**Coffee Break**	
10.30 – 12.00	Continue: Troubleshooting (How to troubleshoot the FEWS supporting applications, operator client issues and forecasting shell server issues)	Deltares
12.00 – 13.00	**Launch Break**	
13.00 – 15.00	Monitoring and maintenance (Monitoring of FEWS, and how to maintain FEWS)	Deltares
15.00 – 15.30	**Coffee Break**	
15.30 - 17.00	Continue: Monitoring and maintenance (Monitoring of FEWS, and how to maintain FEWS)	Deltares
Day 3, 7 June 2012		
09.00 – 10.15	Deep system exploration (A deeper look into the technical side of FEWS. Central database structure, configuration files structure of MC, FSS and MCProxy)	Deltares
10.15 - 10.30	**Coffee Break**	
10.30 – 12.00	Continue: Deep system exploration (A deeper look into the technical side of FEWS. Central database structure, configuration files structure of MC, FSS and MCProxy)	Deltares
12.00 – 13.00	**Launch Break**	
13.00 – 15.00	Common problems and solutions (What are common problems and how to solve these)	Deltares
15.00 – 15.30	**Coffee Break**	
15.30 - 17.00	Continue: Common problems and solutions (What are common problems and how to solve these)	Deltares

Deltares
Enabling Delta Life

Delft FEWS

System Management Course

Functional overview

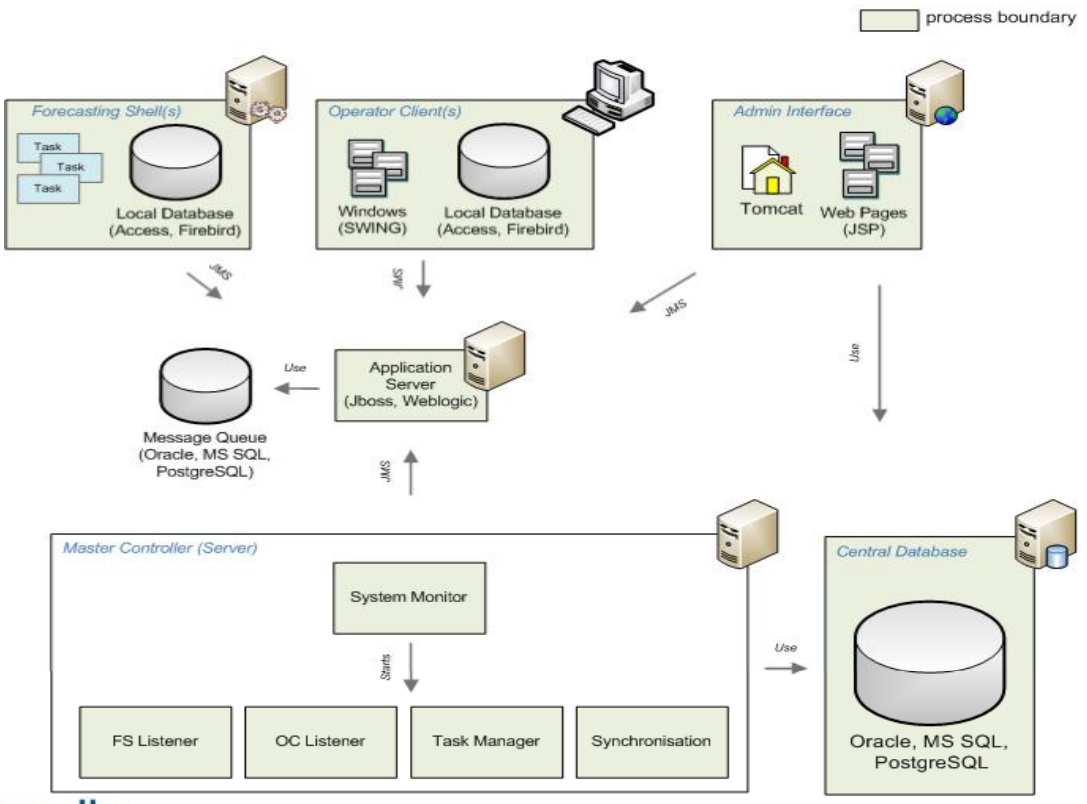
Tessella
Technology & Consulting

Deltares
Enabling Delta Life

FEWS - Functional components

Tessella
Technology & Consulting

FEWS Functional Overview



FEWS – Functional Overview

Forecasting Shell Servers (FSSs)

Physical FSS – server

- Windows (or Linux)
- Sun Java JRE
- Models (Sobek, Hydris, etc.)

Logical FSS – consists of

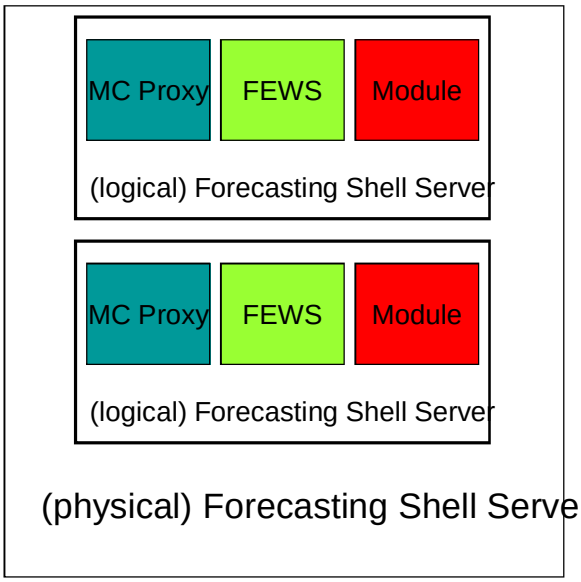
- A “listener” (MCProxy) running as a daemon
- FEWS components – configuration, jars, dlls etc.
- Local data store – Firebird (or Access) database.
- Modules – programs, supporting files etc.

Multiple logical FSSs per physical FSS

- Take advantage of multiple processors, large memory etc.

FEWS Functional Overview

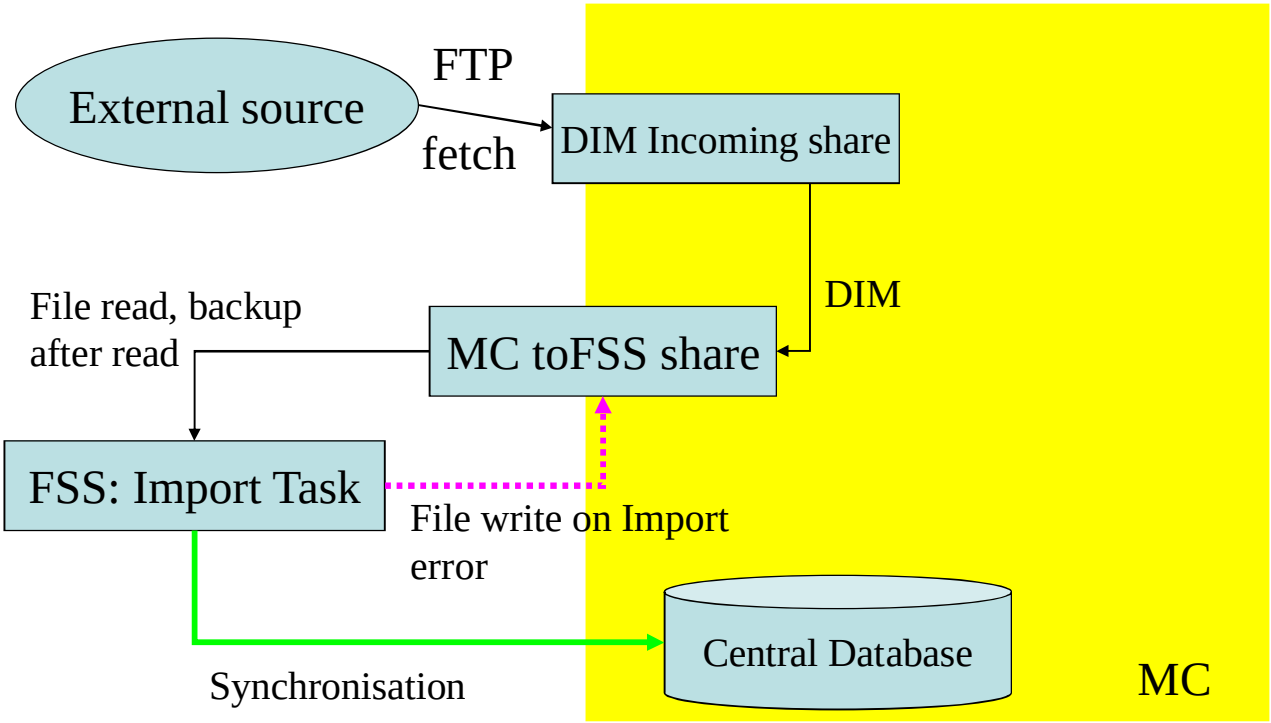
Forecasting Shell Server (FSS)



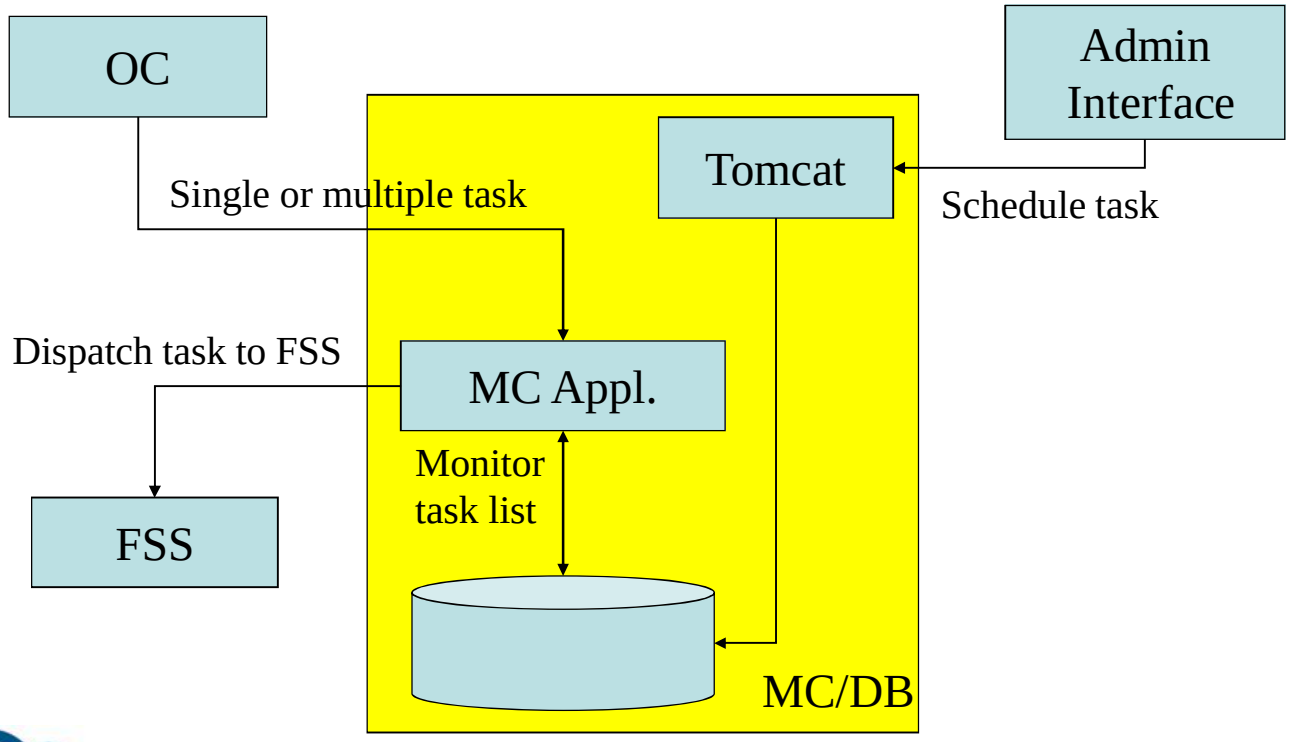
FEWS – Infrastructure Components

FEWS – How it works…

FEWS - How it works: Obtain External data

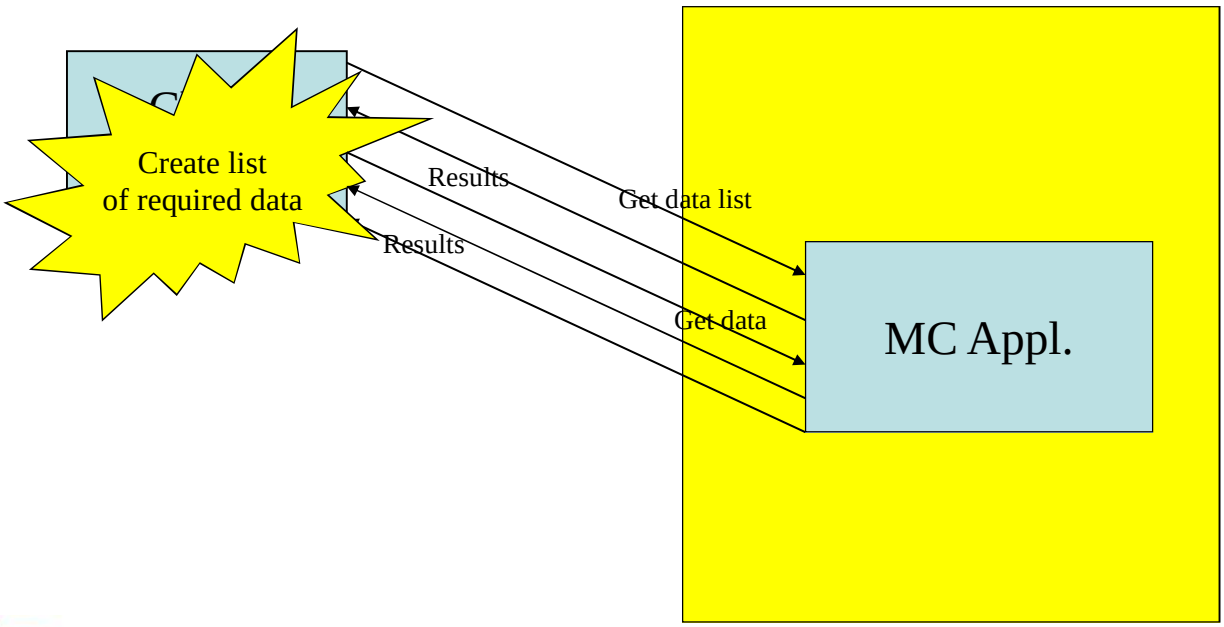
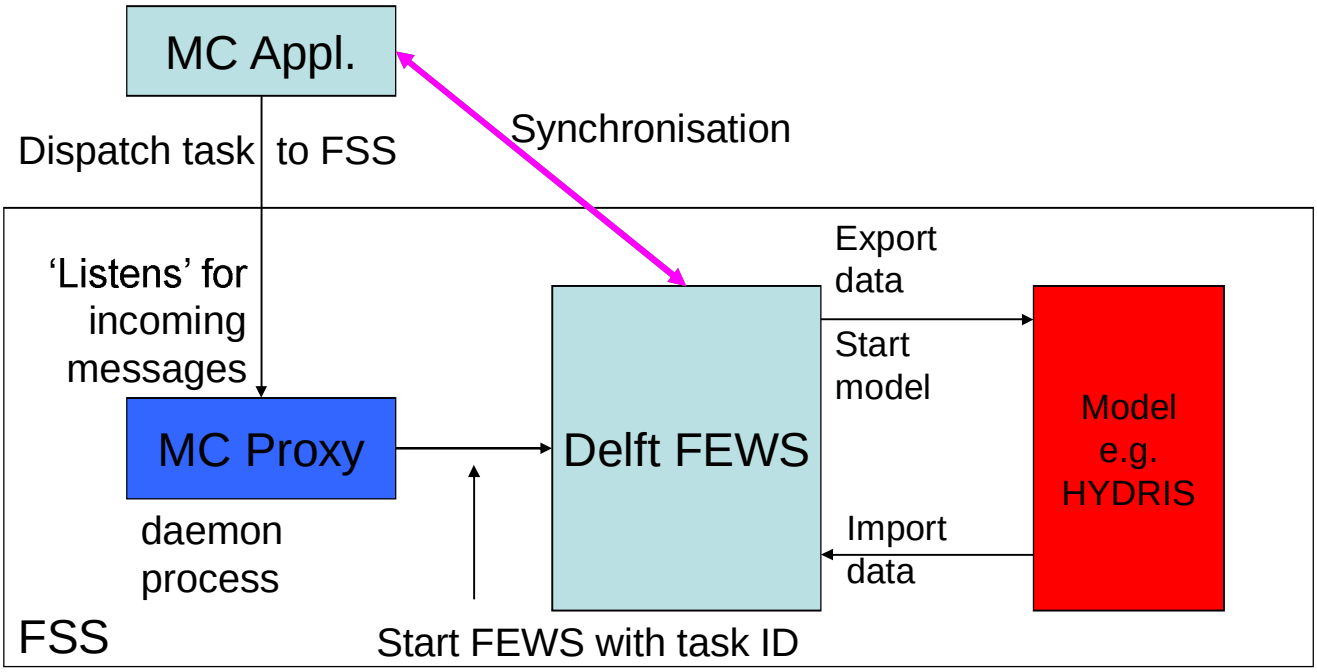


FEWS - How it works: Task submission & dispatch



FEWS - How it works: Data Synchronisation

JMS Messages used



FEWS - How it works: Task execution