

Sahana Training Program

Module 000: Sahana Application Overview

Intended Audience: Decision makers

Pre-requisites:

- None

#	Description
	Introduction to the Sahana Disaster Management System and H-FOSS
	Sahana for Disaster Preparedness (+ Demo) – Linux - OR, CR, IMS, CS, VM, MSG
	Sahana for Disaster Response (+Demo) – Windows Portable App - MSG, SM, OR, CR, RMS, IMS, CS, VM, DVR, MPR, SYNC
	Sahana Deployment Case Studies

Module 100: Disaster Management Domain Concepts

This training module covers the disaster management domain concepts and best practices

Intended Audience: Sahana Administrators, Sahana Developers, Sahana Users

Pre-requisites:

- None

#	Description
101	Introduction to Disaster Management
102	Disaster Management Objectives
103	Risk Analysis
104	Traditional Emergency Management
105	Casualty Handling and Tracking
106	International Assistance
107	Communication in Disasters
108	Impact Assessment
109	Evacuation Planning
110	Disaster Response in Floods / Tsunamis
111	Disaster Response in Earthquakes
112	Disaster Response in Conflict
113	Disaster Response in Drought / Famine
114	Planning Exercise

Module 200: Sahana User Training

This training module covers the use of the Sahana system for coordination in the disaster management domain. It covers the objective and concepts of each module, the entities being handled, the workflow and exercises on using each module to get an in-depth grasp of how it can be utilized effectively to support the disaster coordination initiatives.

Intended Audience: Sahana Administrators, Sahana Developers, Sahana Users

Pre-requisites:

Central system with WLAN.. Access through their laptop.

- IT Literacy and familiarity with web application usage

Template for each exercise

- introduction to exercise modules
- overall scenario
- separate sheets for each group for role play (give info to get into character)
- preparation time for course of action using modules
- scenario gets executed (measures)
- review of scenarios

#	Description
	Introduction to Session
	Understanding of user requirements from audience
	Introduction to scenario and groups
	Registering, setting up and login in to a Sahana user account
	The Missing Person Registry (People Tracing) Module
	The Disaster Victim Registry (Displaced people) Module
	The Volunteer Management System
	Exercise with the Volunteer M., Missing People and Disaster Victim Registry Groups: A: Responders / Volunteers (NGOs) B: Gov Coordinators Helpdesk C: Concerned Family members D: Gov Field Reps
	The Organization Registry (Who is doing What, Where) Module
	The Shelter/Camp Registry Module
	Messaging Module
	The Situation Mapping Module
	Exercise on Situation Reporting with Organization R., Shelter R., and Situation Mapping Groups:

	A: Gov Coordinators Helpdesk B: Gov Field Reps in the camps C: NGOs who want to apply themselves D: Responders in the field (EM, NGO, spontaneous volunteers)
	Sahana Portability and Portable apps
	The synchronization module
	Exercise on Mobility with Sahana Portable apps in the Field Groups: A: Gov Coordinators Helpdesk B: NGO Sahana data to be synchronized C: Responders in the field capturing data on portable Sahana
	The Catalog System
	The Inventory Management System
	The Request Management System
	Exercise with Catalog S., Inventory M.S., Request M.S. Groups: A: Donors B: NGOs C: Gov Coordinators for aid dispersion D: Requesters in Camps

Module 300: Sahana Administrator Training

This training module covers the setup, configuration and continued administration of Sahana

Intended Audience: Sahana Administrators, Sahana Developers

Pre-requisites:

- Experience in Application Administration
- Windows, Linux, Apache, MySQL Administration skills
- Sahana Training Module 200, 100

* for advanced users, whilst the newbies catchup

#	Description
	Downloading and installing Sahana on Windows
	* Downloading and installing Sahana on Linux / Mac OS
	Introduction to the Sahana Packages and Directory Structure
	Configuration the Location Hierarchy, Disaster levels
	Configuring the GIS services in Sahana
	Configuring Sahana messaging and SMS subsystem
	Configuring Sahana Security, ACL, Data Classification
	Exercise on configuring Sahana Base System

	Configuring for different languages and locales
	Sahana config values and configuration values
	Configuring MPR, DVR and VM modules
	Configuring OR, CR, Situation Mapping modules
	Configuring CS, IMS, RMS modules
	Configuring Synchronization and Web Services
	Locking down Sahana Security and dependencies
	Configuring Reporting
	Horizontal Scaling of Sahana system
	Administration in a disaster environment and managing stakeholders
	How to report and getting help on technical issues

Module 400: Sahana Developer Training

This training module teaches how to customize and develop new modules for Sahana

Intended Audience: Sahana Developers

Pre-requisites:

- PHP, MySQL Development Skills
- Linux, Apache Administration Skills
- Familiarity with Free and Open Source concepts and development
- Sahana Training Module 300, 200, 100

#	Description	Duration
	Sahana Architecture	
	Setting up an IDE for Sahana Using eclipse	
	Checking out Sahana from the CVS (+ exercise)	
	Joining the development community	
	Submitting Bugs	
	Making and Submitting Patches (eclipse / cvs)	
	Coding conventions (PHP and HTML)	
	Changing the CSS Style Sheet	
	Database schema	
	Form Handlers	
	GIS subsystem and incorporating GIS in modules	
	Creating a skeleton Sahana module	
	Possible module overrides for the user interface	
	Module setup development (inc table creating) – setup.inc / dbcreate.sql	

	Module security definition	
	Module configuration and administration section creation	
	Module web services creation	
	Logging, error, warning and information messages	
	Exception and Error Handling	
	Stream handlers and libraries	
	Exercise in developing a new module	