

# MIST SYSTEMS

## STAND-ALONE CLOUD INFRASTRUCTURE FOR ENVIRONMENTAL DISASTER RELIEF

### - PROBLEM -

In the event of an environmental disaster, coordinating relief efforts requires communication between hundreds of stakeholders, and mistakes can mean the difference between life and death.

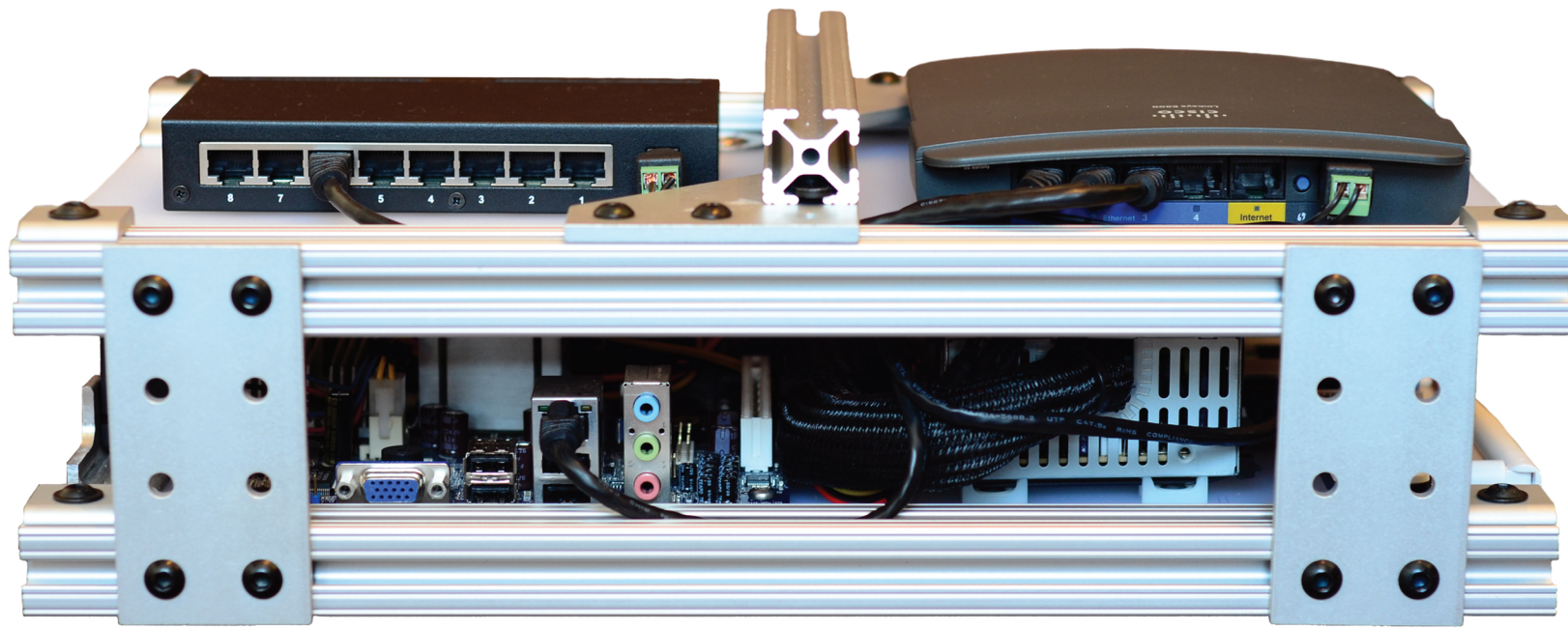
Infrastructure is often either incapacitated or unreliable, and relief workers are forced to use pen, paper, and limited radio frequencies to communicate.

This leads to a disjointed system where critical information is frequently outdated or isolated, resulting in unnecessary delays, confusion, and loss of life.

### - SOLUTION -

A Rugged Communication Hub, Giving Relief Workers a Centralized Platform to Collaborate and Share Information

#### MIST Central Hub



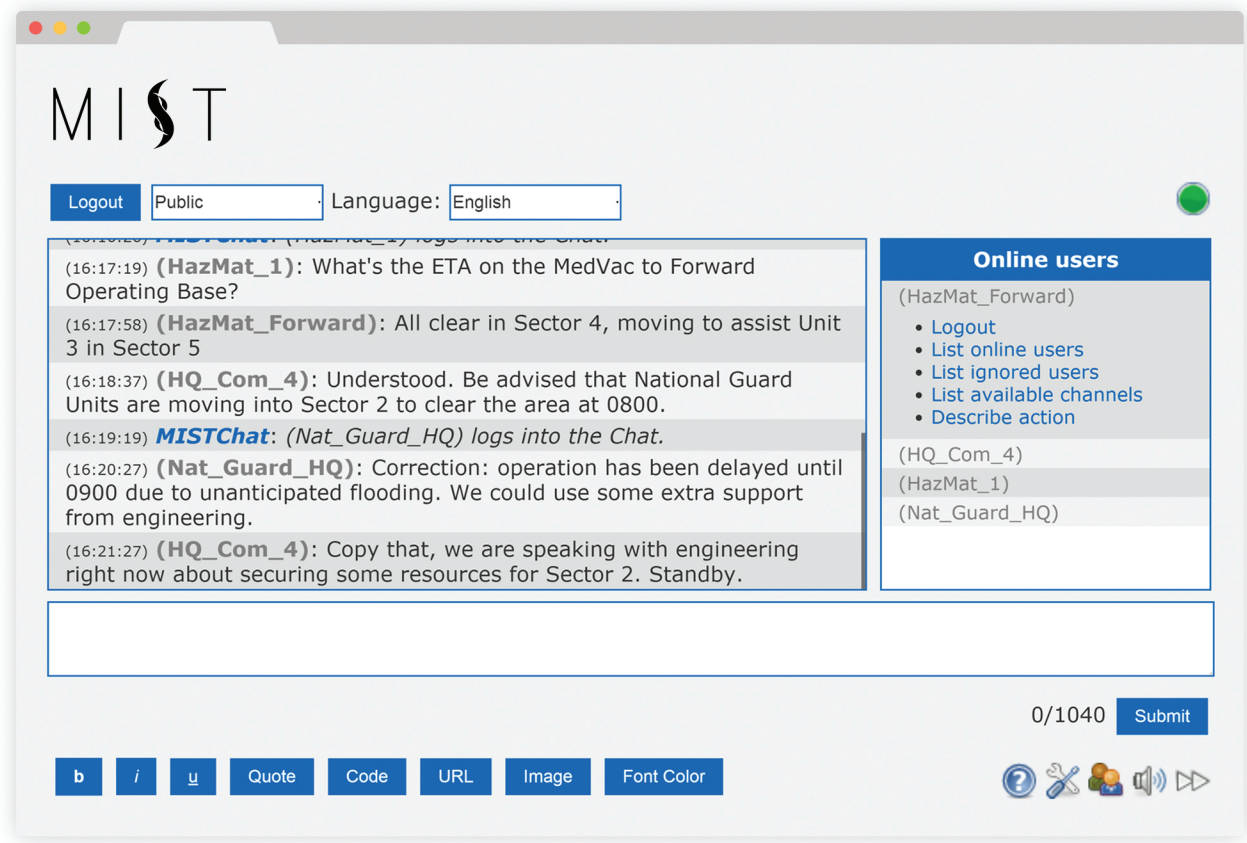
##### Features

- Field Medical Record Storage
- Secure Instant Messaging
- Centralized Printing
- File Sharing and Editors
- FEMA "X-Code" Archive

##### Technical Specifications

- Open Source Software Stack
- Impact Resistant to 250Gs
- Aircraft Grade Aluminum
- FAA Compliant Carry-On
- Accepts Worldwide Voltages

#### MIST Chat



- Scalable Communication
- Public or Private Conversation
- 2048bit RSA Encrypted

##### Chat Supports

~1000 Simultaneous Users



#### Zephyr - Android App



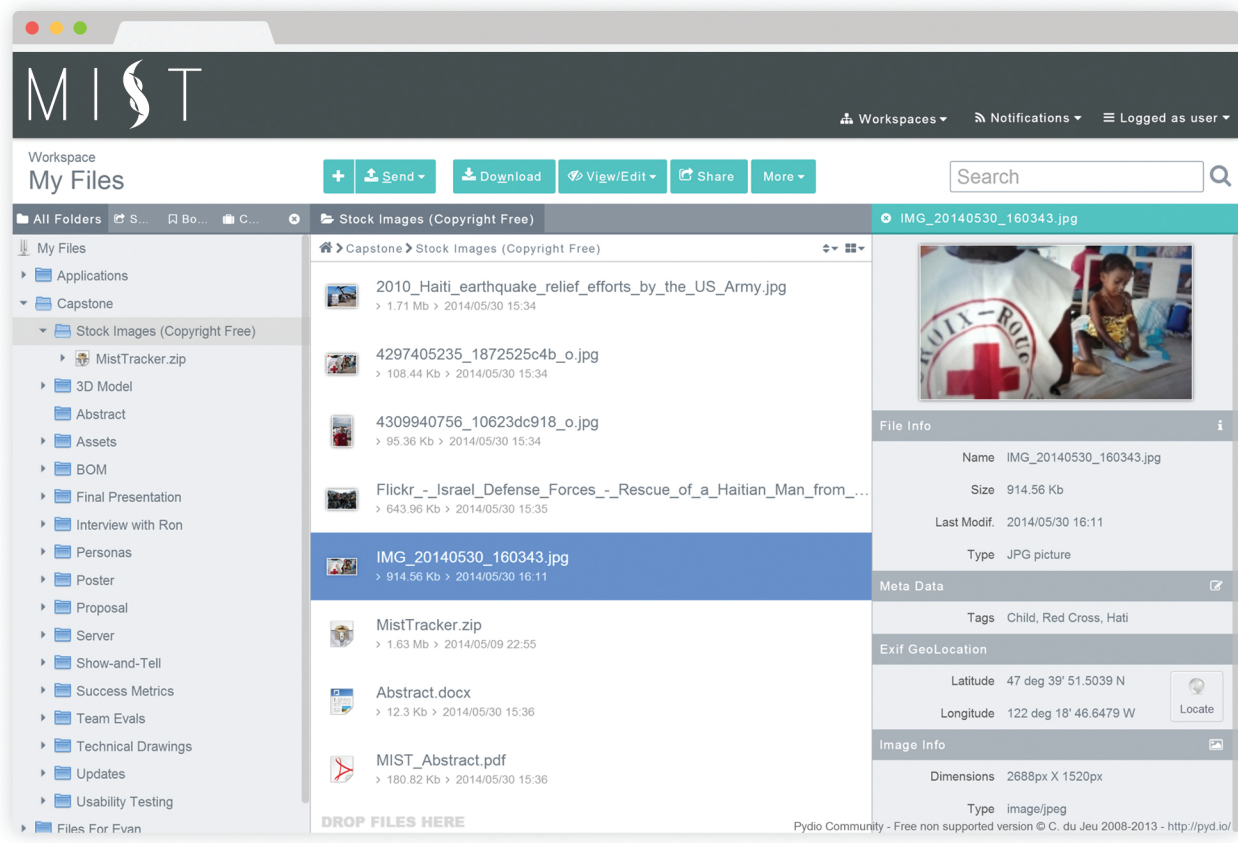
- Portable "X-Code" Archive
- Medical Data Storage
- Offline Storage on Phone
- Automatically Syncs with MIST

##### 15 out of 15 People

Learned Zephyr In Less Than 5 Min.



#### MIST Data



- Secure File Sharing
- Mobile and Desktop Support
- Document and Image Editor

##### MIST is Capable of Archiving

- 30 Days of HD Video
- 2,010,000 High-Res Photos
- 4,200,000 Audio Files
- 25,000,000 Documents



### - RESEARCH -



**\$143 Billion USD**  
Amount spent by the USA on Natural Disasters in 2012.



**268 Million People**  
Average impacted by Natural Disasters worldwide.



**80% Turnover**  
Rate faced by NGOs for field workers

An effective information and communication system (ICS) is a central component of successful humanitarian relief efforts.

- Mark Haselkorn  
Professor and Disaster Researcher, University of Washington

Everybody was walking around up and down Long Beach with clipboards. Everything was paper..Why can't first responders or FEMA or emergency responders have electronic devices where they go and they log in, 'This house is destroyed.'

- Bill Wahlig  
Executive Director, Long Island Forum For Technology

On 9/11, a lack of information probably resulted in more problems than all other factors combined.

- Ronald J Simon, M.D.  
Division Chief Trauma/Critical Care - NYU Medical Center

##### Why Not Satellite?

File Type	Size	Cost	Transfer Time
Document	250 KB	\$1.42	16 seconds
Audio	3 MB	\$32.07	3 minutes 21 seconds
Picture	8 MB	\$54.50	8 minutes 57 seconds
Video	200 MB	\$2,180	3 hours 44 minutes 9 seconds
HD Video	1 GB	\$10,900	18 hours 40 minutes 47 seconds

Estimates based on Iridium OpenPort Service: \$10.90/MB and 134 Kbps