Cruz Roja Colombiana

COLOMBIAN RED CROSS

Telematics

Socorro Nacional

LEGAL FRAMEWORK

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Socorro Nacional

Act 49 of 1948

Through which is created the National Relief of the Colombian Red Cross in case of Public Calamity.

LEGAL FRAMEWORK

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Through resolution No. 003555 December 30, 1999 the MINTIC formalized the Colombian Red Cross Society with the use of the radio-electric spectrum to deliver the auxiliary aid service till December of 2004.

LEGAL FRAMEWORK

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Through resolution 000652 April 12, 2005 the grant of using the radio-electric spectrum was extended to deliver the auxiliary aid service till December 31, 2015.

HISTORY OF DISASTER COMMUNICATION IN COLOMBIA

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- April 9, 1948 – “El Bogotazo”.
- 1980 The taking of the Dominican Republic Embassy.
- 1983 – Fire at Puente Aranda.
- 1983 – Popayan’s earthquake.
- 1985 – The taking of the Justice Court.
- 1985 – Armero’s avalanche.
- 1994 – Paez River avalanche.

HISTORY OF DISASTER COMMUNICATION IN COLOMBIA

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•1999 – Coffee region earthquake.

•1998 - 2001 – Détente area

•2004 – 2010 – Ashes emission and eruption of Galeras volcano.

• 2010 – 2011 – “La Niña’s” phenomenom winter season operations.

Currently attending changes of state of Nevado del Ruiz volcano, Tolima department.

USE OF ICT IN THE HUMANITARIAN LABOUR

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Vulnerable and exposed population to natural risks and Climate Change impacts.

Affected population by emergencie, disasters and the armed conflict.

Population in process of relocation, displacement and adaptation after the disaster (natural or complex).

ICT's USE

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Updated and reliable information is a vital resource in disaster management and the humanitarian assistance work.

For this reason we rely on the 7 connection layers established at the institutional level.

NETWORK STRUCTURE

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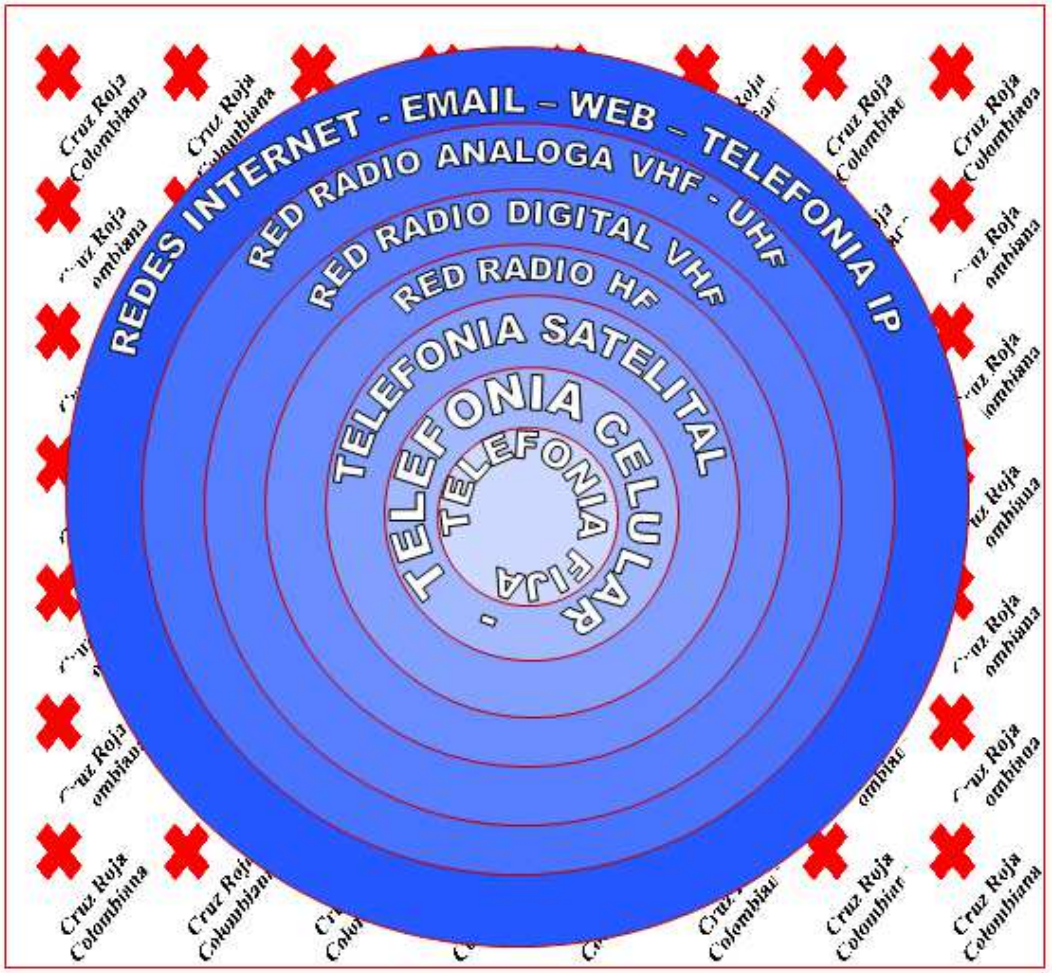

NETWORK STRUCTURE
INTERNET NETWORKS

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Computer systems networks and connection that allows to hold video and audio conferences with our branches during emergencies. For this reason we activate the crisis room.

NETWORK STRUCTURE
VHF RADIO NETWORK

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Throughout the country we have:

- 88 VHF frequencies in 37 networks.
- 29 VHF frequencies from local point to point in 14 networks.
- Total installed repeaters: 53 in VHF

NETWORK STRUCTURE UHF RADIO NETWORKS

Cruz Roja Colombiana

Socorro Nacional

Throughout the country we have:

- 5 UHF frequencies in 5 networks.

- 1 UHF installed repeater.

NETWORK STRUCTURE
HF RADIO NETWORK

Cruz Roja Colombiana

Socorro Nacional

Throughout the country we have:

- 12 HF frequencies in 3 networks.

Total of stations in HF:

- 42 based-stations.
- 10 mobile-stations.

NETWORK STRUCTURE SATELITE TELEPHONY

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We have:

- Iridium telephones for field communicatio.
- Bgan units to send data and audio.

NETWORK STRUCTURE MOBILE TELEPHONY

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- the use of SMS in field operations.

- massive system of phone allerts (chain call) is a solution in situations were is required a rapid response.

VOLUNTEERS TRAINING

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For the effective use ICT it is not enough to have all the appropriate equipments, the staff training that will operate the communication systems must be included.

TRAINED PERSONNEL

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GENERAL :
430 volunteers of 32 branches trained in telecommunications basics.

National Intervention Team - NIT
There are 30 NITs in Telecommunication

TECHNICS:
There are 10 technics at the national level that support the technical area.

FIELD SUPPORT

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MOBILE TELECOMMUNICATIONS UNIT

It connects communications in field with other operational institutions.

FIELD SUPPORT

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Socorro Nacional

DATABASE

We register data for the humanitarian assistance delivery and for the Damage and Needs Assessment data.

It can be trasmitted in real time if there is monile phone coverage in the area.

FIELD SUPPORT

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DATABASE

Information to be registered at the terminal.

FIELD SUPPORT

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DATA BASE

Data verifying of missing people, the RFL team is activated.

STRENGTHENING COMMUNITIES WITH EARLY WARNING SYSTEMS

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We are working in the installed early warning systems:

- Machin volcano, Tolima department.
- Affected municipalities by the Nevado del Ruiz volcano, Tolima department.
- Paez River basin, Huila's Nevado volcano, Huila department.
- Cauca department, avalanche.
- Tumaco municipality, Tsunamis.

STRENGTHENING COMMUNITIES WITH EARLY WARNING SYSTEMS

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- Purace municipality, Cauca department because of slides.
- Hurricaines, Guajira department.
- Villa Restrepo Tolima, Combeima canyon because of avalanches.

The installed systems may be sirens, communication networks, mud flows monitoring. These equipments and devices help in the actions of prevention and evacuations, when needed.

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Thank you…