Introduction

What have we done?

• A “stack” has been developed over which different web telephony applications can be developed

• Three applications have been developed
  – Content Delivery Service
  – X2Y Call Blast Service
  – Latest Alert Service

• These applications are running on the vKvK server

• An “appliance” has also been developed
Ordinary PC
Converted into a
Special Kind of
Communication
Server
H/W & S/W Components

- Sangoma Voice & Data Board
- FreeSWITCH
- Plivo
- Plivo Application
- Drupal CMS
H/W & S/W Components

- Sangoma Voice & Data Board
- FreeSWITCH
- Plivo
- Plivo Application
- Drupal CMS

PRI Line

Telephone (Mobile) N/W
H/W & S/W Components

- Sangoma Voice & Data Board
- FreeSWITCH
- Plivo
- Plivo Application
- Drupal CMS
- PRI Line
- Telephone (Mobile) N/W
- Internet (Web)
PRI Line:

PRI Line: 30 Channels, 64 Kbps each
Sangoma Voice and Data Board
FreeSWITCH

• An open source communications software written in C
FreeSWITCH

- An open source communications software written in C
- A telephony platform
  - designed to route and interconnect popular communication protocols (using audio, video, text or any other form of media)
  - on which telephony applications can be developed using a wide range of free tools.
Plivo

• An open source framework to prototype voice apps.
Plivo

- An open source framework to prototype voice apps.

- We can develop custom telephony applications by using Plivo APIs and Plivo XMLs tags.
Drupal CMS

• To design a website which can interact with the application
  – Service Administrator can maintain this website
  – Allows web based access to the server hosting web telephony applications
  – Content to be shared can be loaded
  – Users willing to avail the service can be registered
Interaction between H/W and S/W Components

User Application can be built on top of F/S using Plivo

TDM Channel Driver

Signalling Library

Sangoma TDM Abstraction Library

Sangoma H/W Kernel Drivers

PRI Line Connects with Sangoma H/W

MOOC on M4D 2013
H/W & S/W Components

- Sangoma Voice & Data Board
- FreeSWITCH
- Plivo
- Drupal CMS

Applicat\n on 2
Applicat\n on N
Thank you