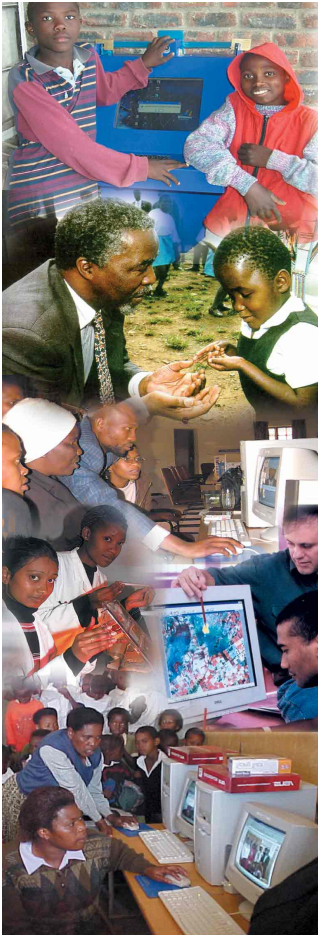




OpenPhone

OpenPhone Platform Overview



- Background and goals:
 - Telephone based-systems
 - Why OpenPhone?
- Architecture
 - Platform
 - Authoring tool: DialogPalette

Telephone-based systems

- Free and natural access to information
 - Overcome computer literacy barrier
 - Easily accessible
 - Various disabilities
- Information of local relevance
 - Local news, weather reports, training, etc
- Human Factors
 - Local languages, culturally appropriate interfaces

Why OpenPhone?

- Free, open, effective
 - Existing IVR solutions not satisfactory
- Empowering communities
 - Non-expert developers
 - Cost-efficient and scalable
 - Support for HLT required in developing-world context

How does it work?

Authoring tool

- An information provider can design an information dissemination application via the authoring tool.
- The prompts for the various phases can be recorded.
- The designer will be guided by the use of templates.

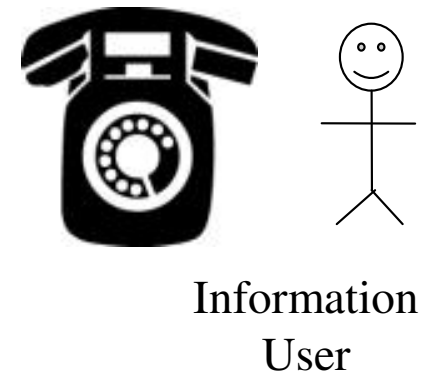


Application
Designer

How does it work?

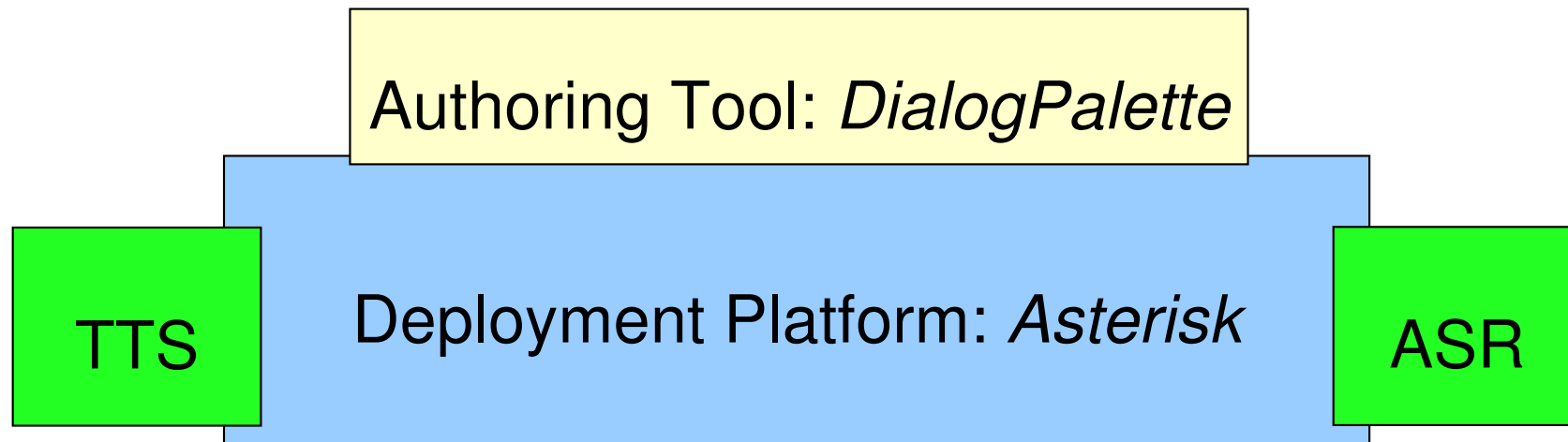
Telephone access

- Information users will access the application by phoning a number.
- Information users can listen to the voice prompts and interact with the system by entering requested key presses (DTMF/*Touchtone*)



Architectural Overview

- 2 Major components
 - Service designer (Authoring Tool)
 - Service deliverer (Deployment Platform)



Architecture: Platform

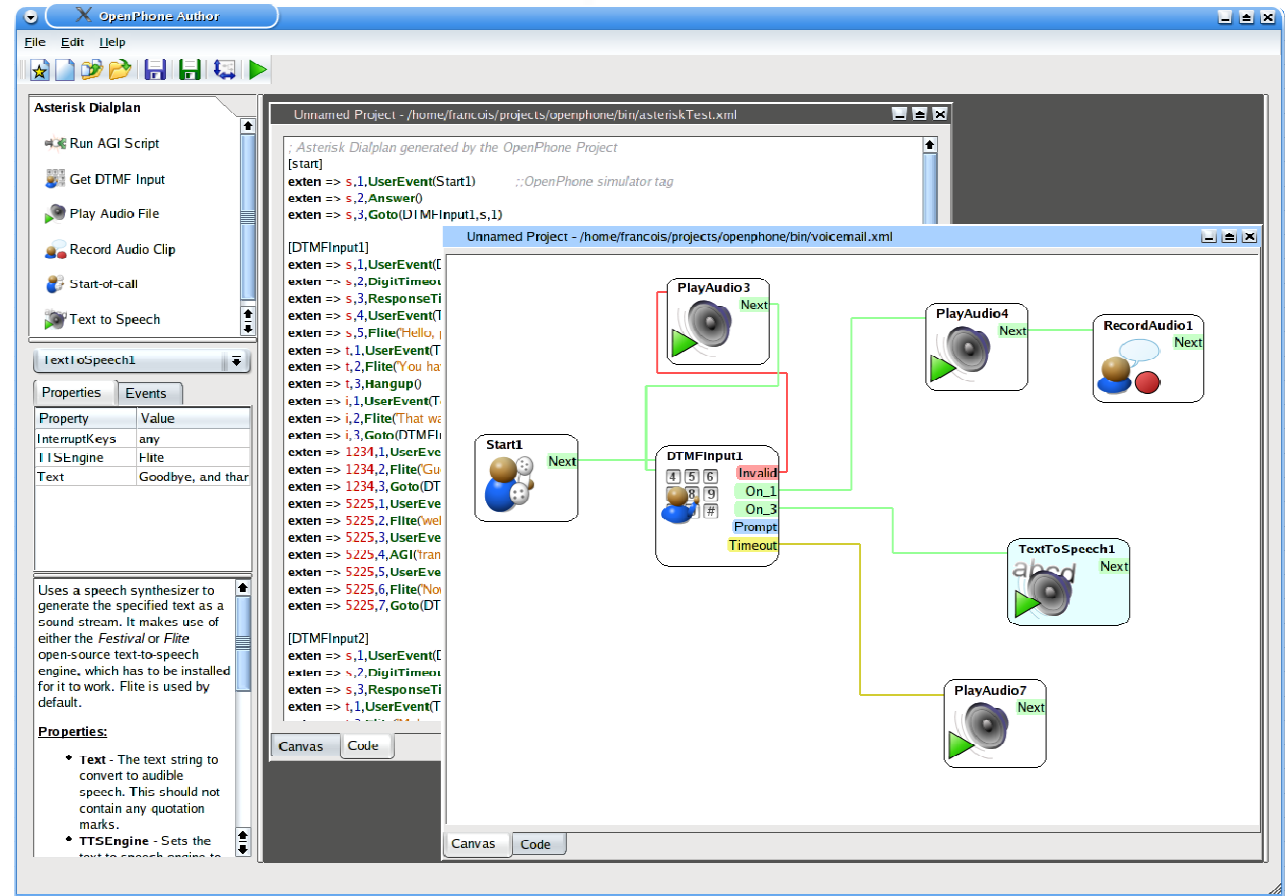
- Deployment platform
 - Link between telephony services and end-user
 - Cost-effective, flexible and reliable
 - Expandable to accommodate required HLT components
- Asterisk – The Open Source PBX
 - Middleware between Internet and PSTN
 - Support for VOIP and analog hardware interface cards
 - Modular, expandable structure
 - Non-intuitive configuration hampers IVR development

Architecture: DialogPalette (Authoring tool)

- Visual design environment
 - Hides user from Asterisk programming paradigm
 - Intuitive, mouse-driven interface
 - Focuses on logical intent rather than implementation detail
- Powerful code generator
 - Constructs Asterisk code in real-time
 - User expandable
- Tight Asterisk integration
 - Accurate application simulation

DialogPalette Overview

- Intuitive, easy-to-use interface
 - Event Nodes: graphical IVR building blocks
 - Call flow dictated by connecting nodes
 - Behaviour modified via object inspectors
 - Provides on-line help
 - Requires no programming knowledge



Questions