

User access & media independence

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What do we want to do?

Example scenarios



- Have the latest ANSA documents read out to me on my mobile phone
- View my voice-mail on my desktop computer
- Dictate email from my desk phone
- Receive faxes on my PDA
- Have my favourite comedy programme faxed to me



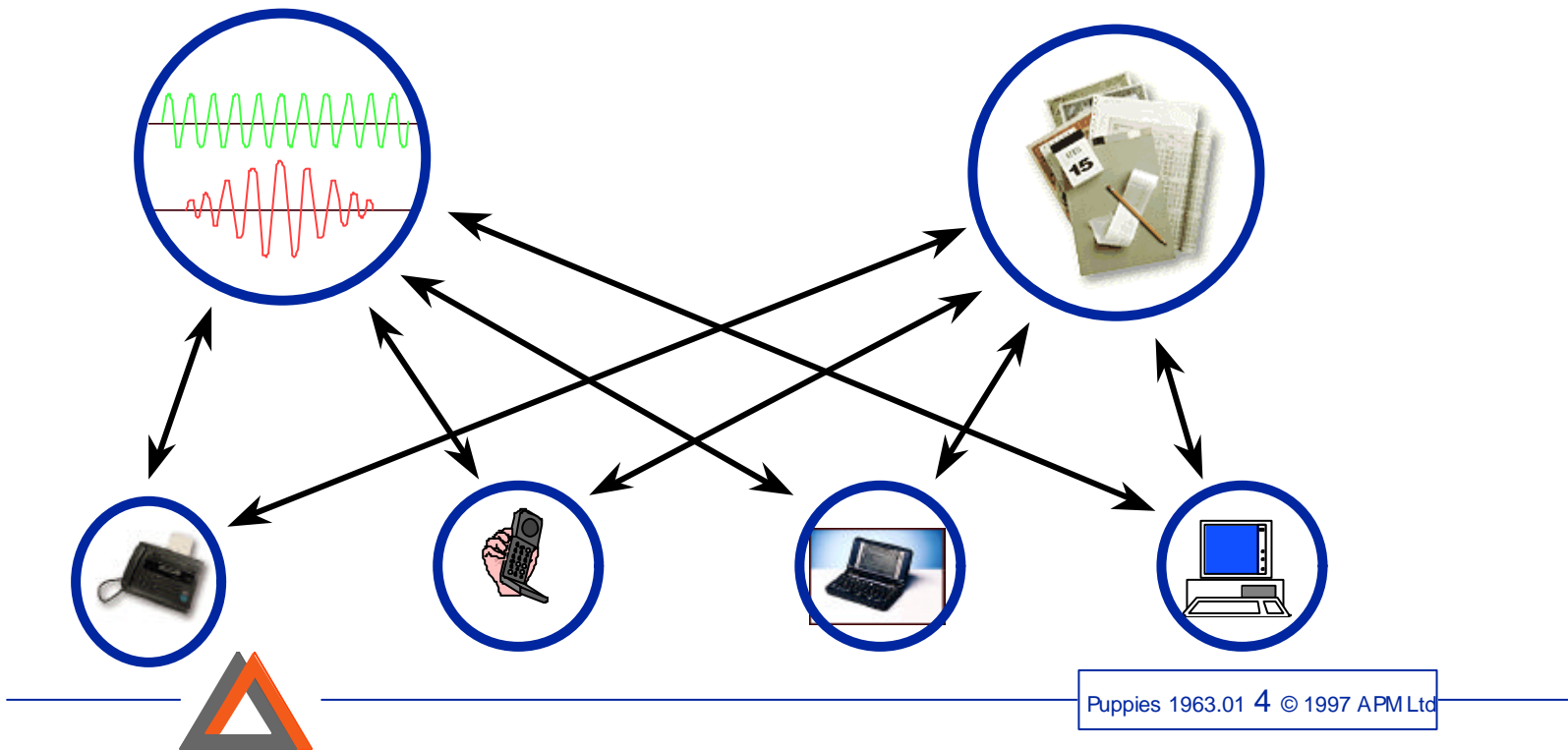
Current state of play

- Devices typically able to access very few media
- Access to other media typically proprietary



Changing the picture

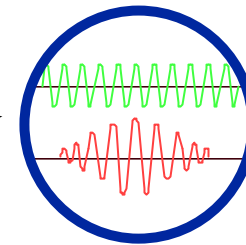
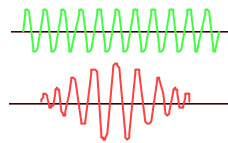
- Moving to medium-independent information
 - Object model of information
- Accessing that information from different devices



Research areas

- Wrapping information as objects

- preventing content degradation
- QoS



- Devices

- building interfaces for the information objects
- optimising HCI
- “profound simplicity of user interaction”



Example scenario

- Billy is in Brussels, waiting for a proposal
- The proposal is in Word 7
- Billy only has a GSM phone
- Billy *really* needs to know what the document says....!



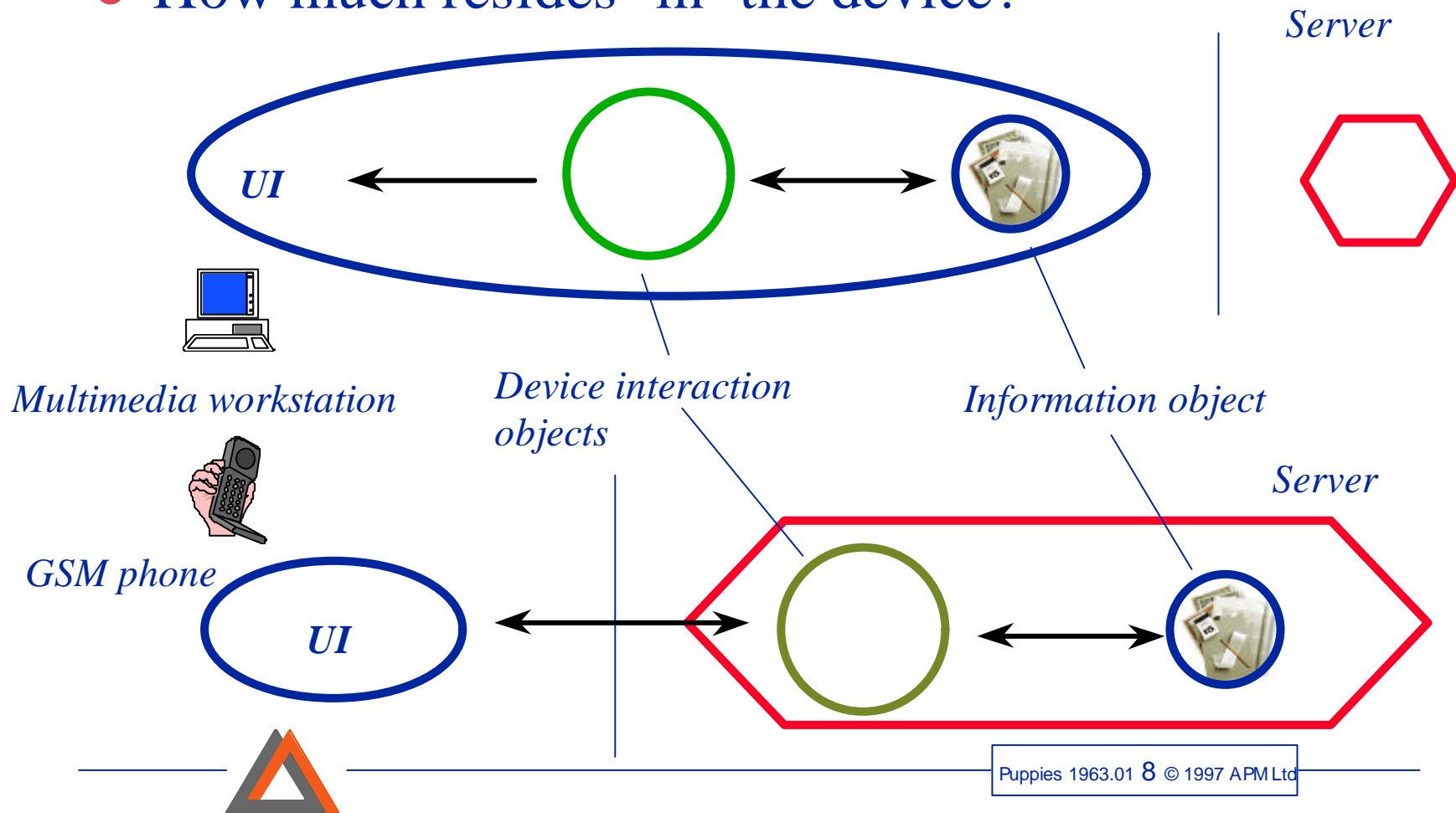
Steps

- Billy's Pup notices that the document has arrived in his filespace
- Pup notices that Billy can only use his GSM phone, checks relevant preferences
- Pup sends Billy an SMS message of major headings
- Billy sends SMS to Pup, requesting Introduction and a summary of 150 words
- Pup summaries document - e.g. via Office '97
- Pup rings Billy, reads out Introduction and summary
- In the evening, Billy accesses document from hotel set-top box



Devices

- How much resides 'in' the device?



Technologies

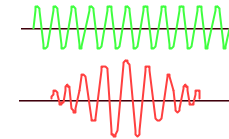
- Platform independence aided by Java
 - use Java where possible
 - native methods will be needed
- Architecture independent infrastructure
 - start off with NT as base platform for device interaction development
 - good market penetration
 - provides easy access to device interaction



Some possible devices - 1

- Speech recognition

- SRAPI 2.0 to include support for Java
- cross-industry committee, led by Novell
- positive reaction from Novell to possible use



- PDAs

- Corel are reported to be working on Java PDA
- HP OmniGo
- Nokia 9000



Some possible devices - 2

- Java phone
 - work reportedly underway on this
- Faxing
- SMS interface for GSM phones
 - Paknet
- Java stations
- Network computers
- Desktop PCs!



Questions to be answered

- What media should we tackle?
- What devices should we integrate?
- Sources of information
- Contacts with sponsors
- Joint programme

