Basic Functions and Features

- Voice Over IPv6 communication service

     -Peer to Peer direct contact

     - if connectivity is available - anywhere, any method [contact] is possible

     - regardless of hardware/OS/carrier/country/language

- low cost selection possible based on communication method

- extended communication methods possible

Tentative Names and Main Roles

Nail (tentative name) personal attribute storage media

SHIP (tentative name) An internet connectable information tool connected to or with Nail built-in (cellular/PC/PDA/car navi/fixed phone/public phone, etc)

  - Basic functions of SHIP

     - can connect to the Internet

     - can have Nail built in

     - common protocol

     - P to P communication ready

  - Features

     - geographical information distribution

     - communication speed/performance quality distribution

     - common protocol usage or built in encoding function for phone/TV phone

     - cost management selection features

- Z-server (tentative name) Stores services available to the IPv6 address of information stored in Nail and inserted into SHIP and responds to requests from callers
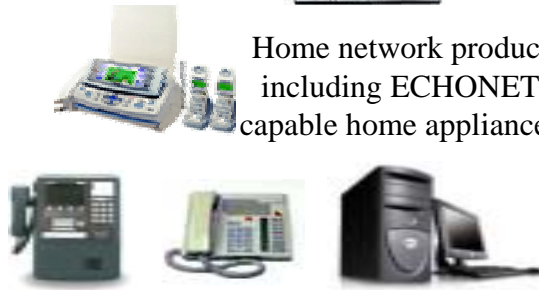
Image
Step 1 (register info)

Mobile end user devices

Air/ship/rail included

Home network product
including ECHONET
capable home appliances

Publicly available communication tools
(office/net café/pay phones etc.)

Insert Memory Card

**Memory card info
IPv6 address
Communication**

dedicated server

Recorded Info
- name
-Tel no. (or similar info)
-first language/other languages
-communication hours(Sleep-Wake Up)
-blocked sender list
- password configuration
- call record

Options
-credit card , emoney
- sub tel. no.
-Occupation
- ID number
- Social Insurance No.
- certificate record for secure use
- e-mail program (IMAP4 storage use)
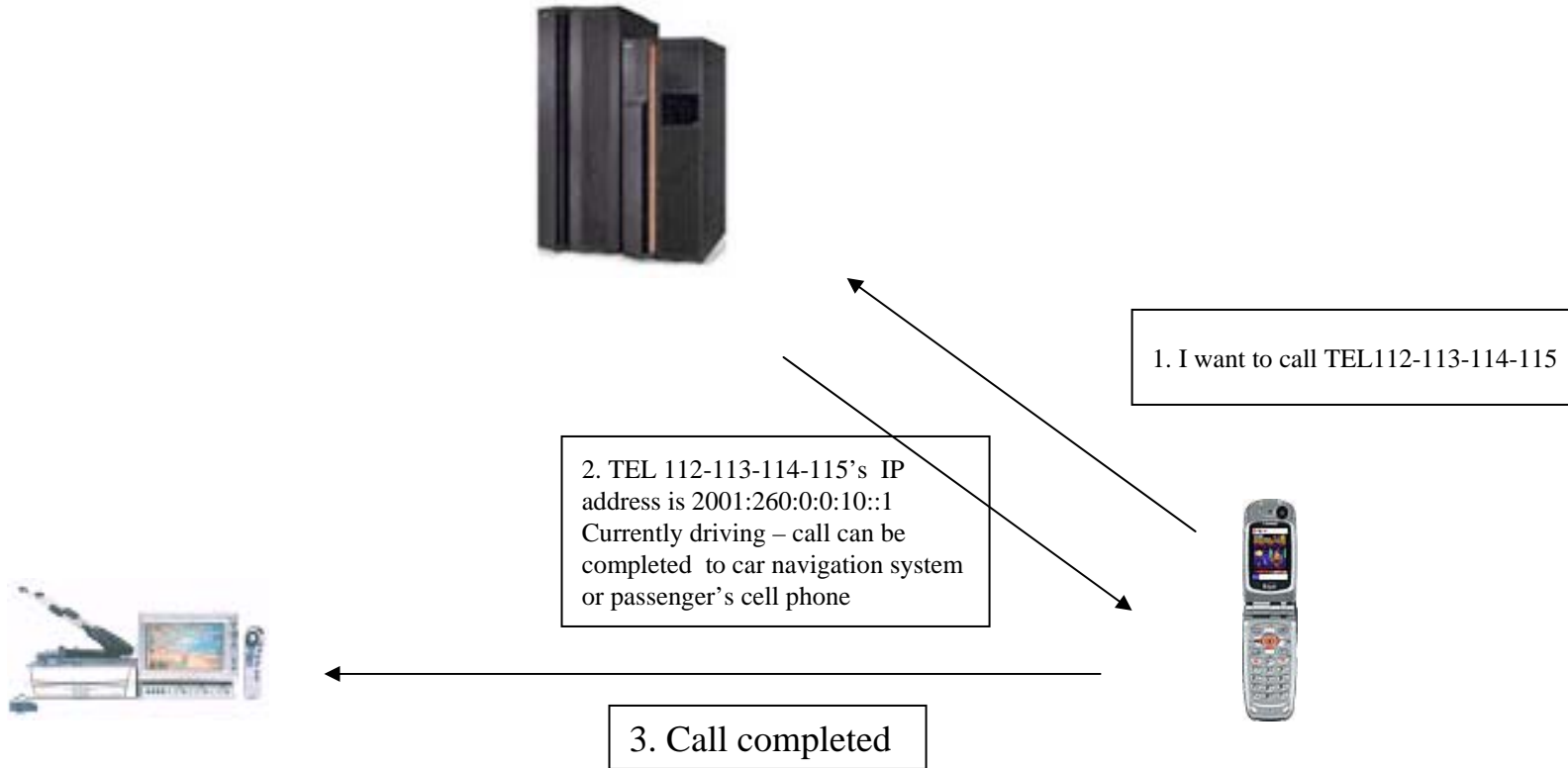- schedule

IPv6 Address Info
Device Info
- communication possible?not possible?
- image/video send/receive
- email send/receive
- E-mail language/character restrictions
- chat
- data file send/receive
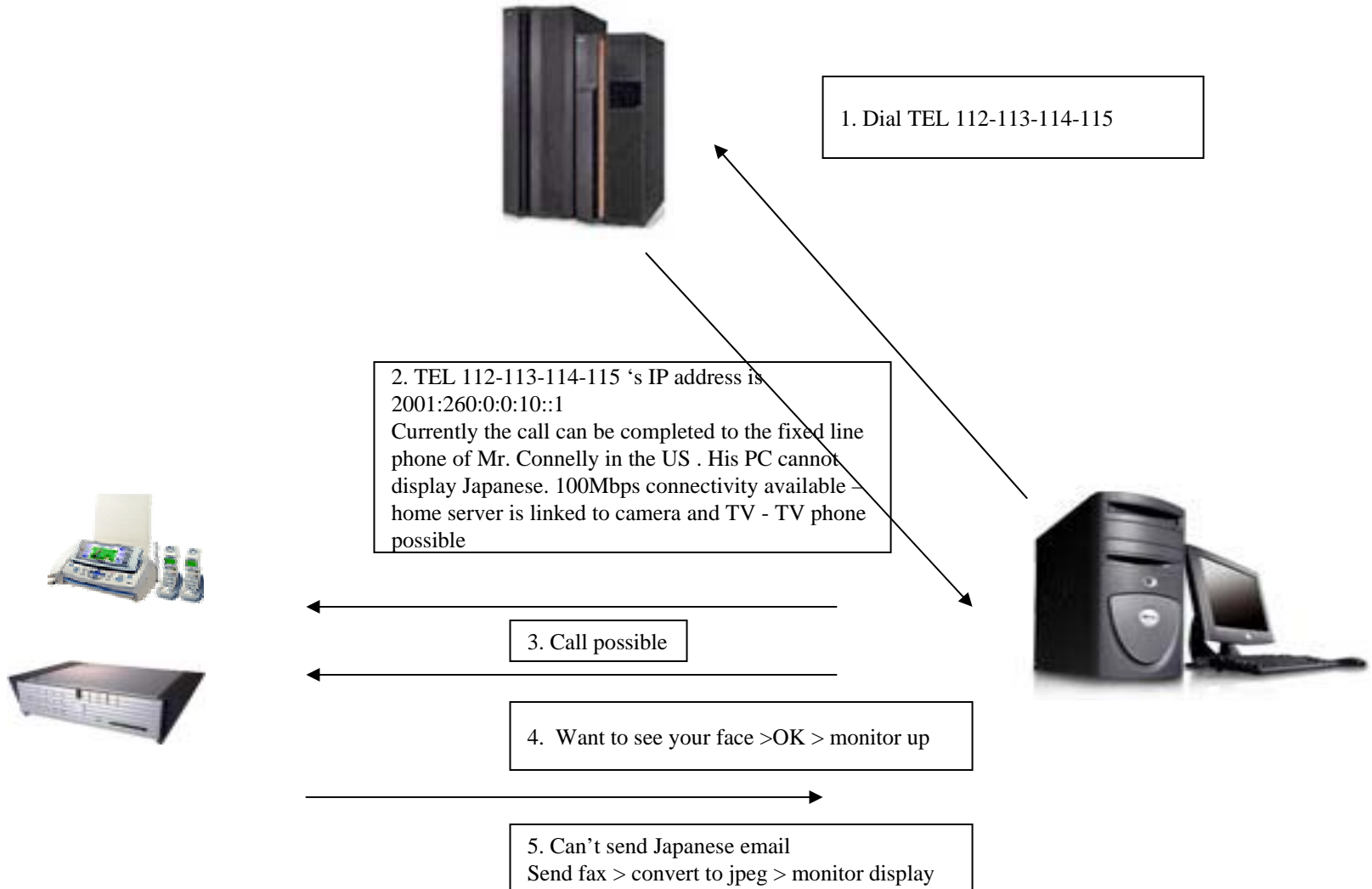- Bluetooth/USB/FireWire connection
Communication Speed Info

Info stored on memory card
IPv6 address
Device info
Communication speed
       to Database

Step 2 (Information reference and connection)

1. I want to call TEL112-113-114-115

2. TEL 112-113-114-115's IP address is 2001:260:0:0:10::1 Currently driving – call can be completed to car navigation system or passenger's cell phone

3. Call completed

Example 2

1. Dial TEL 112-113-114-115

2. TEL 112-113-114-115 's IP address is 2001:260:0:0:10::1
Currently the call can be completed to the fixed line phone of Mr. Connelly in the US . His PC cannot display Japanese. 100Mbps connectivity available – home server is linked to camera and TV - TV phone possible

3. Call possible

4. Want to see your face >OK > monitor up

5. Can't send Japanese email
Send fax > convert to jpeg > monitor display

Advantages and Features of Home Use

Advantages

- a fixed tel. No. is not necessary – number does not change in the event of a move etc.

Features

- Quality of experience increases as speed of connectivity increases. The rebound of local carriers now struggling against the spread of cell phone use might be expected.

Effective Uses – home appliances

- **home server**
- **Fixed line telephone**
- **FAX**
- **TV monitor/screen**
- **Video camera**
- **PC**

Differences to current service provision

- guests can use the service

- simple effective mobile communication at anytime, anywhere

- by inserting the Nail card of your family, your cell phone can become an extension of your fixed line phone at home

- even if mail can't be used fax send/receive is possible

Server Collaboration Options

E-mail

eMAP

Voice Mail

Group communication

emoney

Credit

Interpret/translation service

FAX-image conversion

Mail extensions (time designation) etc.