"Remote Access to the Home"

i-mode, etc.

The Internet

IPv6

personal server

mobile/nomadic access

always-on wired access
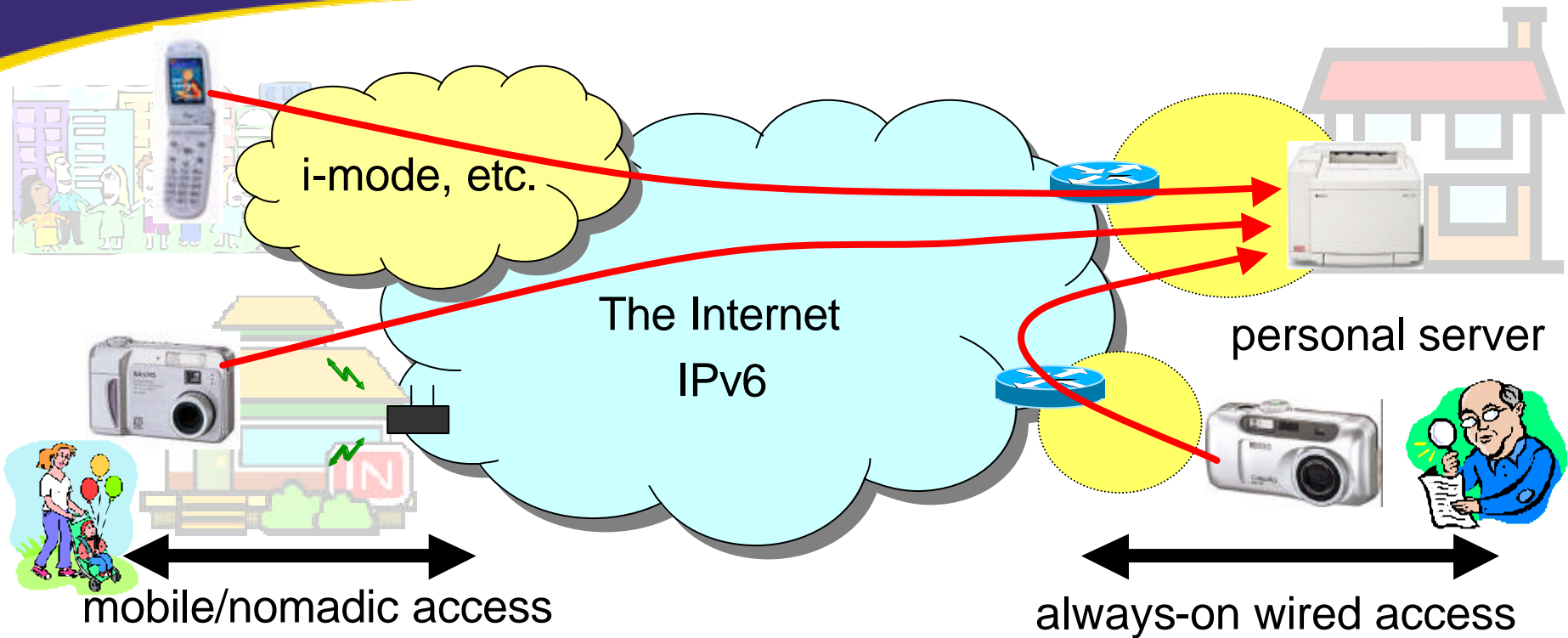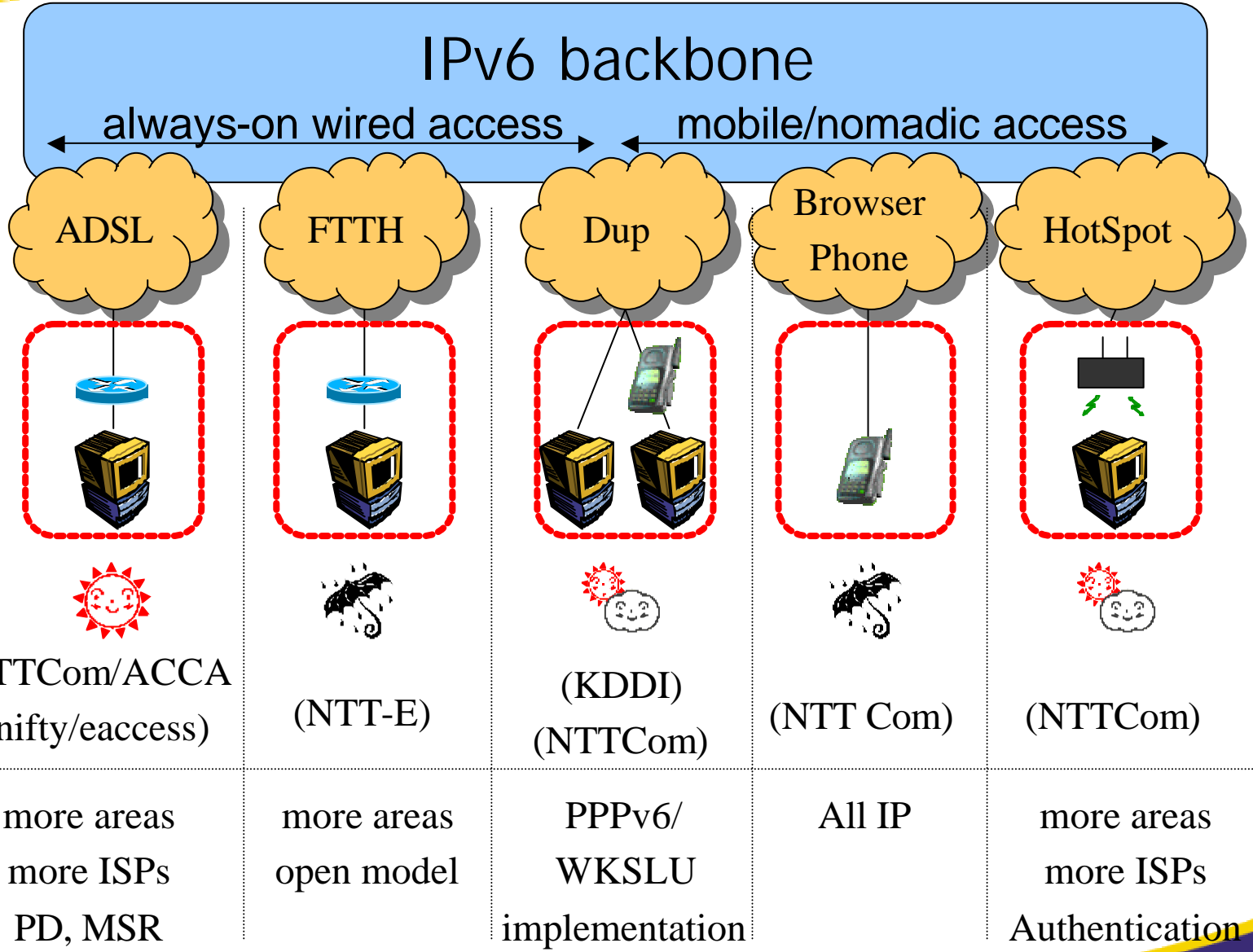
1. IPv6 access service

2. remote access model

3. node discovery, access authentication, access control

December 19th, 2002

1. IPv6 access service

IPv6 backbone

always-on wired access ⟷   mobile/nomadic access ⟷

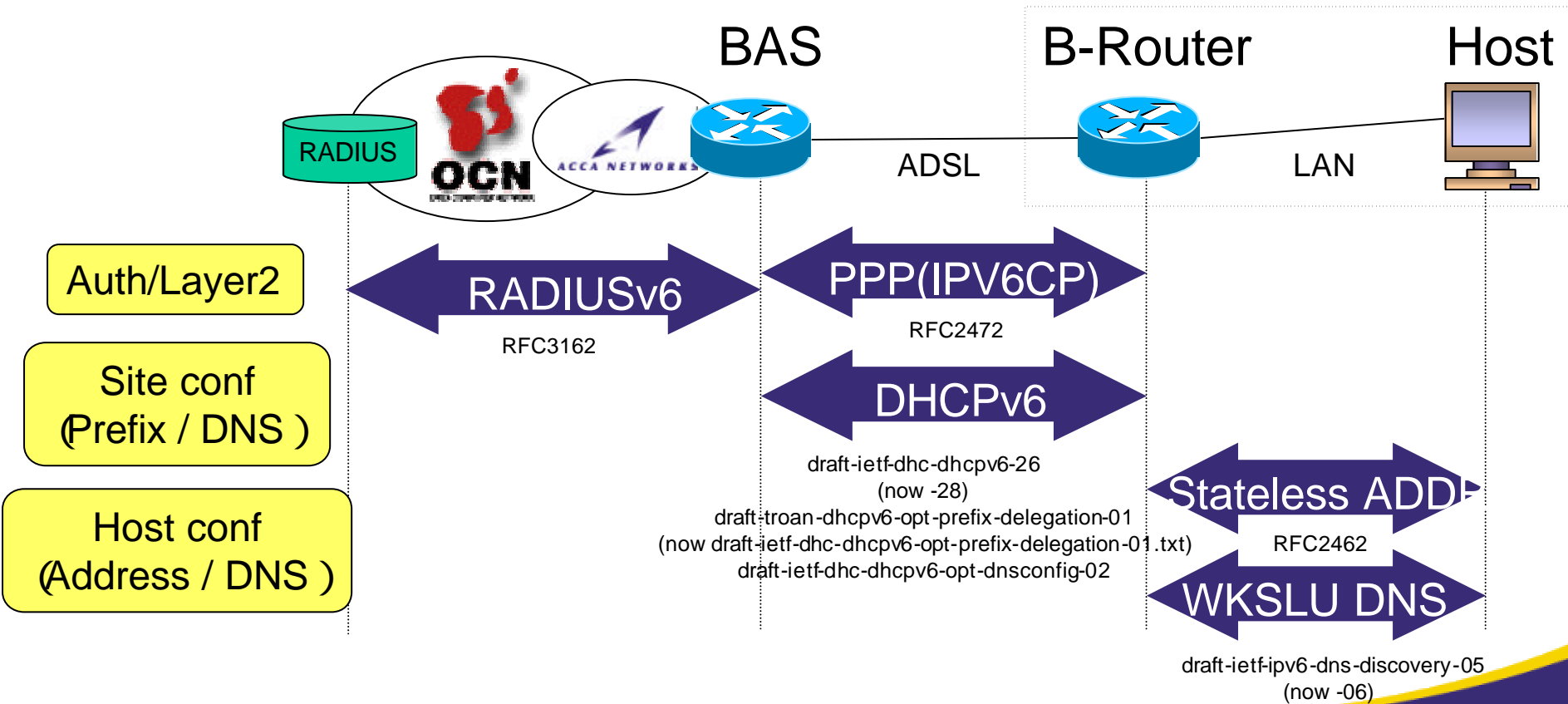| ADSL	FTTH	Dup	Browser Phone	HotSpot
Today NTTCom/ACCA (nifty/eaccess)	(NTT-E)	(KDDI) (NTTCom)	(NTT Com)	(NTTCom)
To-do more areas more ISPs PD, MSR	more areas open model	PPPv6/ WKSLU implementation	All IP	more areas more ISPs Authentication

OCN IPv6 Dual ADSL Service with PnP

Challenges:

1. Making all broadband technologies IPv6-ready
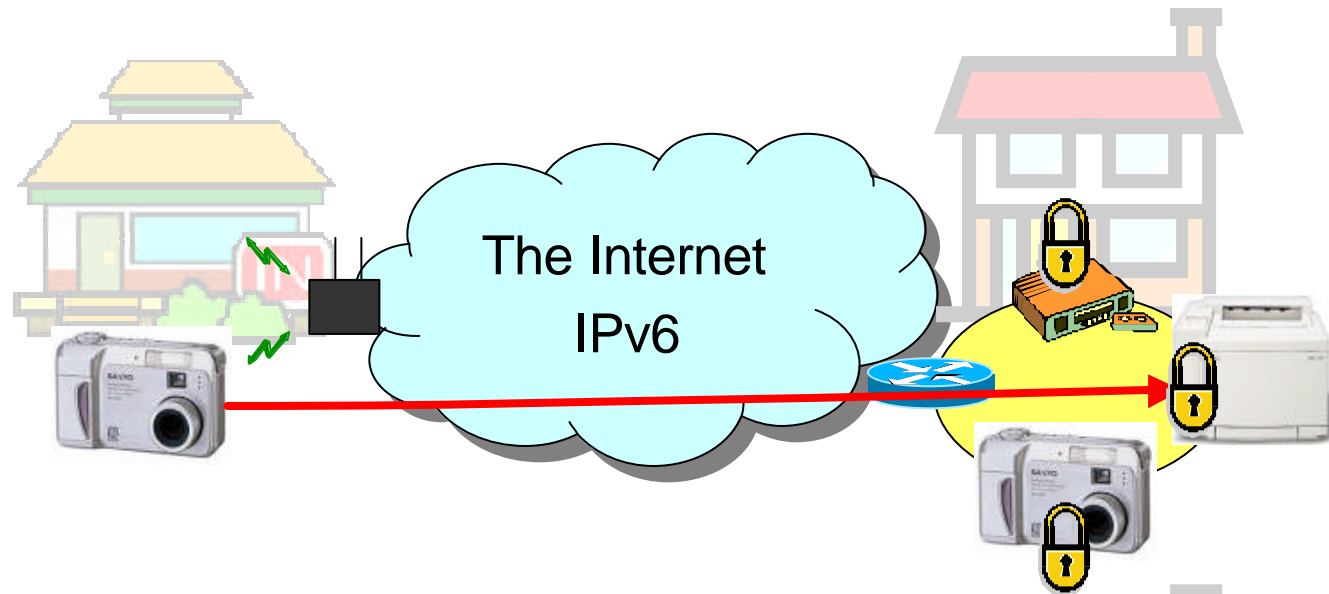
2. Plug and Play (site level auto-configuration)

BAS   B-Router   Host

RADIUS

OCN

ACCA NETWORKS

ADSL   LAN

Auth/Layer2

RADIUSv6

RFC3162

PPP(IPV6CP)

RFC2472

**Site conf
Prefix / DNS**

DHCPv6

draft-ietf-dhc-dhcpv6-26
(now -28)
draft-troan-dhcpv6-opt-prefix-delegation-01
(now draft-ietf-dhc-dhcpv6-opt-prefix-delegation-01.txt)
draft-ietf-dhc-dhcpv6-opt-dnsconfig-02

Stateless ADDR

RFC2462

**Host conf
Address / DNS**

WKSLU DNS

draft-ietf-ipv6-dns-discovery-05
(now -06)

3

December 19th, 2002

NTT Communications

Safety-box model
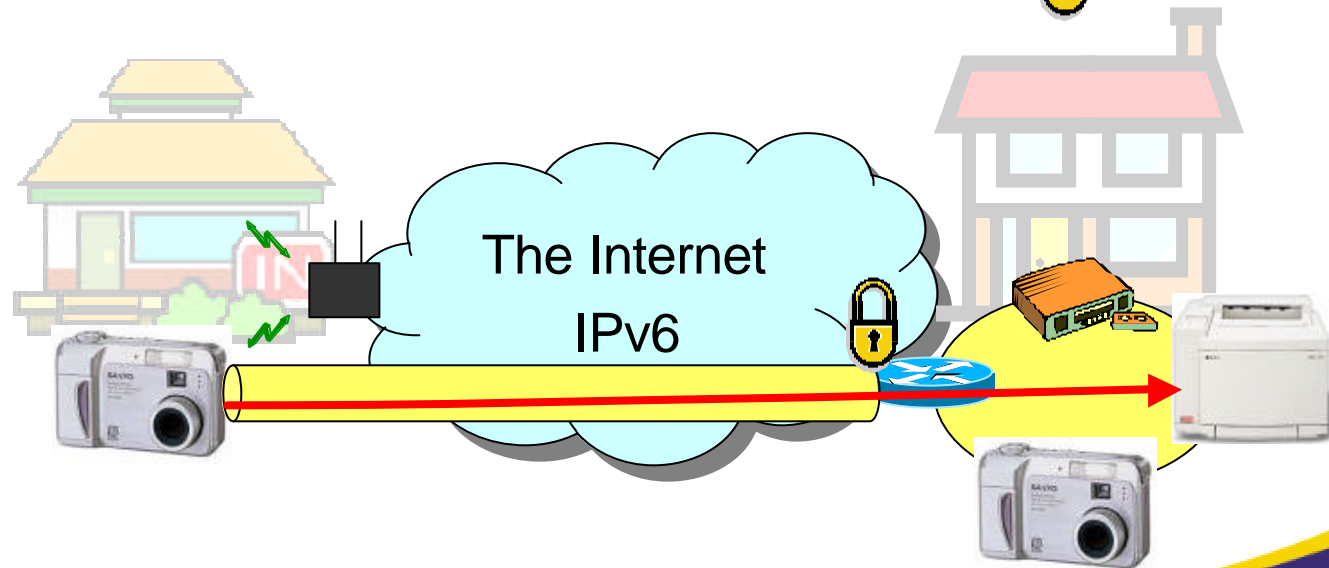
- security for every printer
- another name for the printer

Gate model

- security for the gate
- same name for the printer

The Internet IPv6

The Internet IPv6

4

December 19th, 2002

NTT Communications

TBD?

- Node discovery

    - "from ANY (ex. phone)" VS "from friends only (ex. camera)"

    - DNS, Yellow Page, Messenger or Paper?

- Authentication

    - "access anytime (ex. phone, VCR control)" VS "Temporally access (ex. digi-photo share)"

- Access control

    - IPsec, SSL/TSL

    - home telephone

December 19th, 2002