

Basic Concept

- Shared space application: **ingrate**
- Target
 - basic: train, campus, etc. - people in shared space
 - application: regardless of wide area geographical position, the application targets those close to each other on a network
- Advantages of IPv6 Use
 - fixed, assigned IPv6 address allows ID discrimination (certification) and grouping
 - freely combined group space creation offers the possibility to create of a unique environment (an expansion of knowledge)
- Functions
 - targeting individuals within a short relative distance (network distance, physical distance), grouping individuals based on the rules provided by individual user terminals, required information can be obtained, creating an ubiquitous environment

Functions (1)

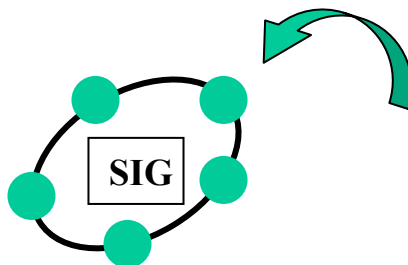
- cramming for exams -

As a student studying for exams, you remember wishing you had access to notes from past tests/exams.

Data can be obtained instantly from groups within or outside your campus – without boundaries

.. Test is coming up soon .. Need a way to get notes ..

Connect to a group existing within a certain class (SIG: Special Interest Group) and search info.



Got them!!



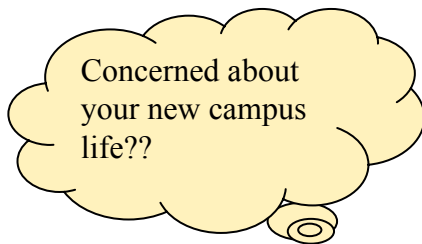
Advantages

- required info can be obtained anywhere at anytime
- can include faculty and public institution support members
- saves time and effort

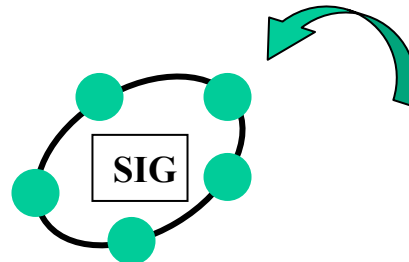
Functions (2)

- School Life of a Freshman -

New on campus? Pick up that detailed info that will make your new life more enjoyable.
Available anytime, anywhere.



join a SIG



Advantages

- pick up info while walking on campus
- pick up on campus announcements
- pick up discount coupons etc.
- pick up local info from locals without searching the web

Functions (3)

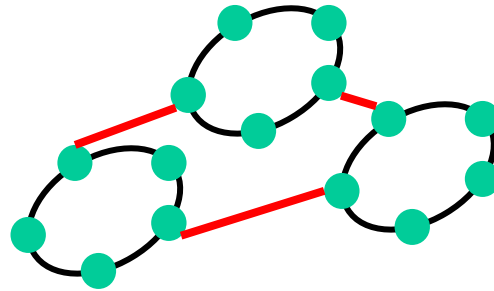
- Widening a circle of friends -

Based on expanded networked members, a widening possibility of exchange and friendship building environment is created.

I'd like to meet a person who is interested in ...

Based on a search condition, a SIG creates an additional network further spreading information.

I'd like to meet a person who is interested in...



Advantage

- anywhere, anytime access to info

Conclusion

- Features

- text base
 - low communication cost
 - coupons/tickets/maps etc. allowed as small size, packed data
 - simple implementation
 - multicast technology for group administration and P2P communication base
- benefits of info provision provided to all -> low risk, merits easily understood
- mutual, native connectivity is ideal however, the application does not require a special server etc. or provision of a service base
 - simple to provide on campus
- advertising etc. provides business opportunities
 - university co-op stores, laboratory business etc.
- anytime, anywhere, anyone -> ubiquitous service provision
- IPv6 address use allows user specification and marking
- the specification of target space allows the sharing of real info
- restriction of space in use allows for strong toleration of attack

- Implementation target

- cell phone and PDA
 - * Depending on the availability of an IPv6 stack for handheld devices, notebook use

- Cost of use

- PDA+connectivity