



# Issues in Well Managed IP Multicasting Services

<draft-hayashi-maccnt-01.txt>

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## Outline

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- Introduce “well managed IP multicasting”
- Describe operator’s requirements for “well managed IP multicasting”
- Solicit active participation for the work on “well managed IP multicasting”

## IP multicasting – network operator's expectation

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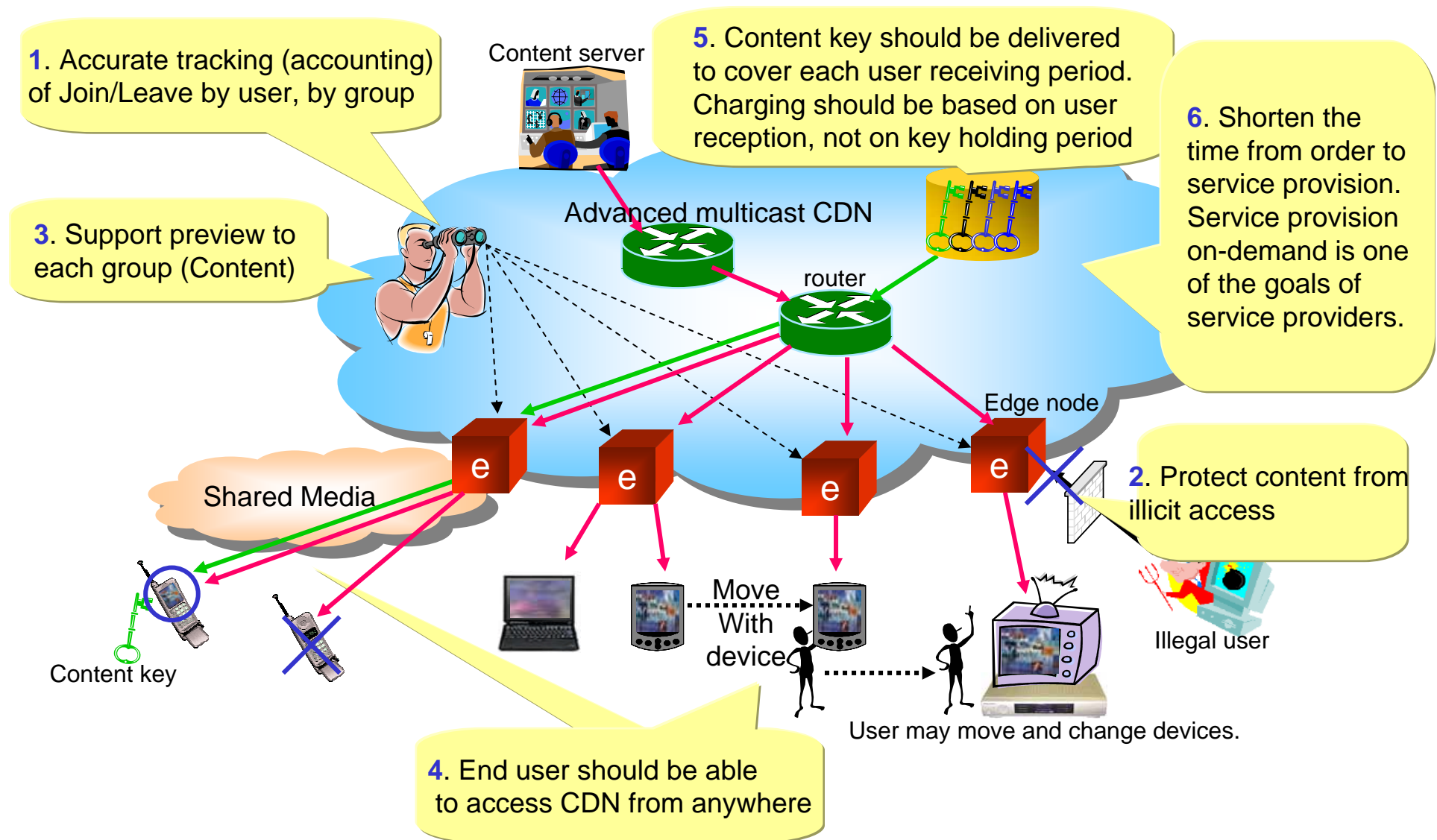
- Network operators want
  - to build efficient networks for information distributions services (e.g., CDN, video/audio streaming)
  - to create value added services for which they can charge
  - to build a manageable network on which they can grasp what is happening

## IP multicasting – current problems

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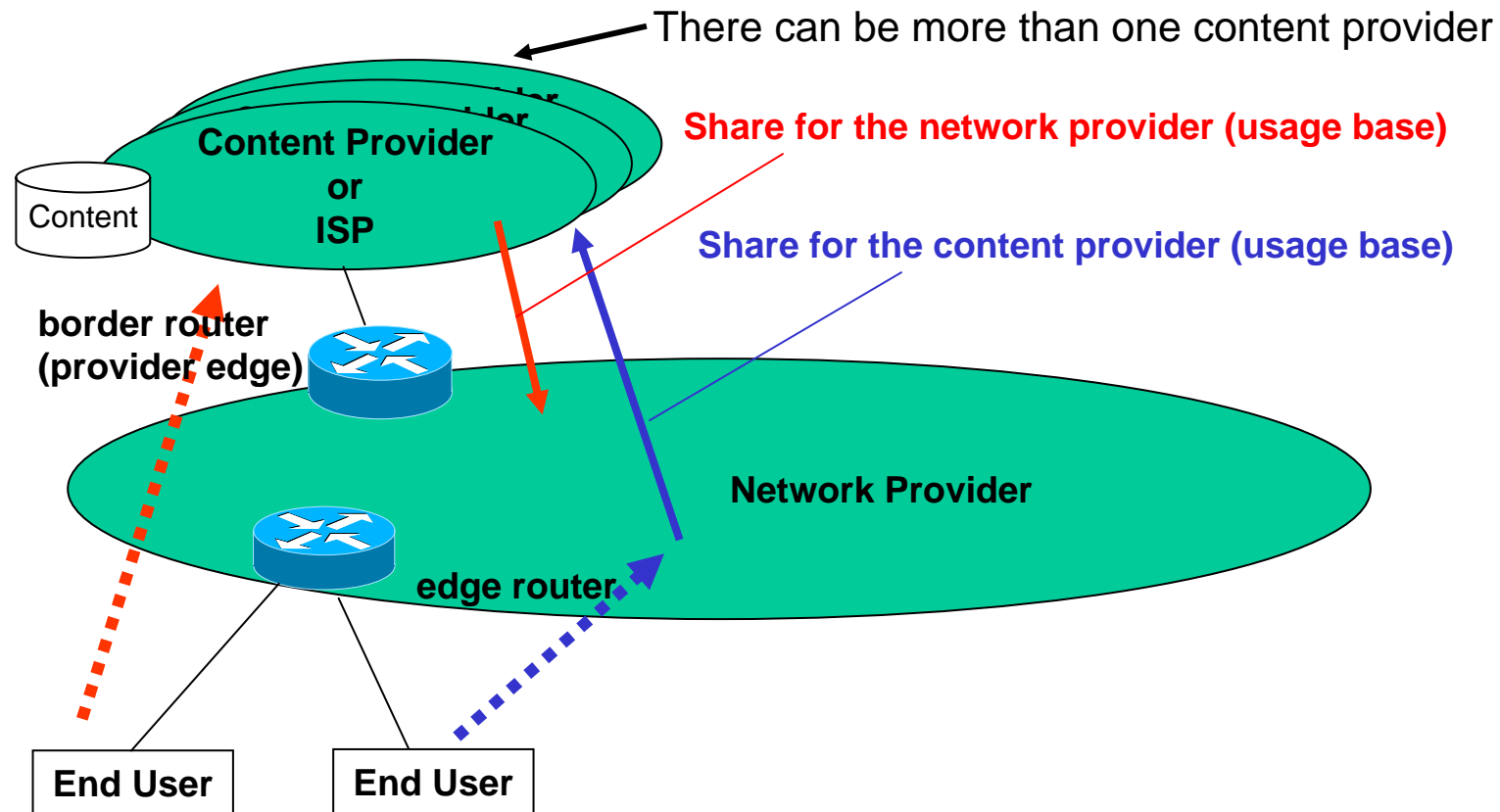
- No accounting capabilities are provided by the current standard (based on IGMP/MLD)
  - Network cannot identify receivers
  - Network cannot grasp user activities (when they joined and left)
  - Network cannot authenticate/authorize users
    - Any user can join without any eligibility check
- Not sufficient for carrier-class services (high-quality, premium/fee-based)

# Well managed IP multicasting



# Architecture example

- Network operator and content providers cooperate to provide a service.
- They need to share the content revenue



## General requirements for well managed multicasting

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- User identification
- Access control
- Appropriate admission control for join action
- Accounting and billing
- Accumulating logs
- Service and terminal portability
- Support of ASM and SSM
- Quick reaction
- Scalability

## Proposal

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- Clarify the possible network architectures and service scenarios.
- Clarify the requirements for well managed IP multicasting
- Find solutions which meet the requirements.



## Next Steps

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- Continue the work on “well managed multicasting”
- We are working on the draft and set up a dedicated mailing list for this issue.
  - Mailing list:  
`<mac-external@lyris.nortelnetworks.com>`
  - Archive:  
`http://standards.nortelnetworks.com/archives/mac-external.html`
- We solicit feedback and welcome active participation.