

#### **DENIC ENUM tag**

# **Dutch Cable SIP Exchange the benefits**

Sikko de Graaf - CAIW Diensten, The Netherlands

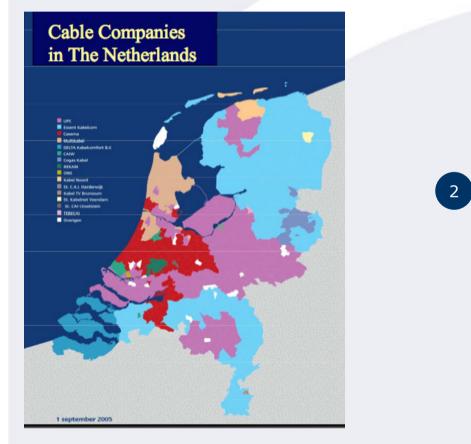
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#### **Subscribers per cable company x 1000**

UPC	2.286
Essent	1.672
Casema	1.344
Multikabel	315
CAIW	135
Others	439
Total	6.191 (app 90% of all households)

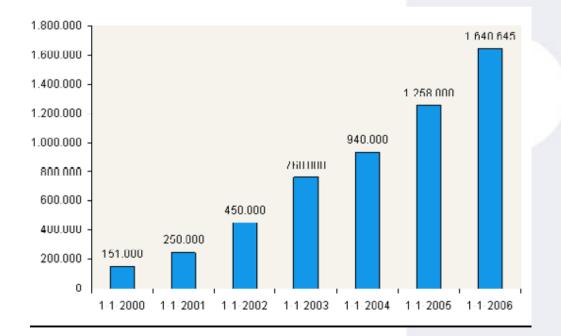




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#### Cable Broadband customers 1.700.000

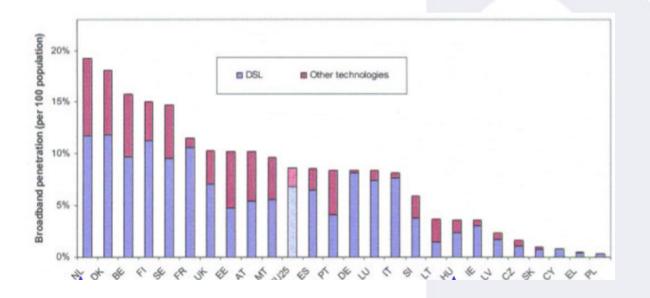




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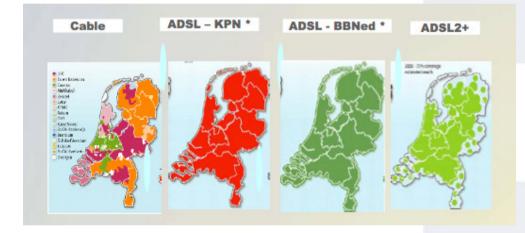
- Broadband market very competitive
- Highest penetration broadband
- Tough but innovative environment







#### **Existing Broadband infrastructures each covering the Netherlands**







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**Digital Telephony Dutch Cable industry. (Voip)** 

- Fast growing market
- Growth 2005 from 200.000 to 435.000 subs
- Estimated growth 2006 with +500.000
- End 2006 1.000.000 subs digital telephony
- 5 Cable companies vs Dutch Telecom (KPN)
- UPC/Essent/Casema/Multikabel/CAIW



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## 2005 initial phase & trends

- SIP is becoming the standard
  - Hardware/software
- Flat fee calling trends
- On-net calling for free between Cable operators
- First publications carrier Enum
- JCC , dutch joint cable initiative
- Q3 2005 start of project







- **o** Taskforce Joint Cable
- Research
- Technical specifications
- **o** Request For Information





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#### **Specifications**

- Carrier Enum for number translation
- SIP as standard, support for most common codec's
- Multi operator environment, with automatic provisioning
- De-centralised traffic of codecs data
- Support for roaming and/or peering
- Secure and redundant service
- Scalability > 1.000.000 subs
- Cable industry standards; packet cable multi media
- QoS support







## Sipexchange

#### Research

- What's on the market?
- AMS-IX, dutch regulators (COIN/FIST), Dutch internet domain registration.
- **Consultation European SIP specialists**
- Multi operator environment, with automatic provisioning
- **De-centralised traffic of codec's data**
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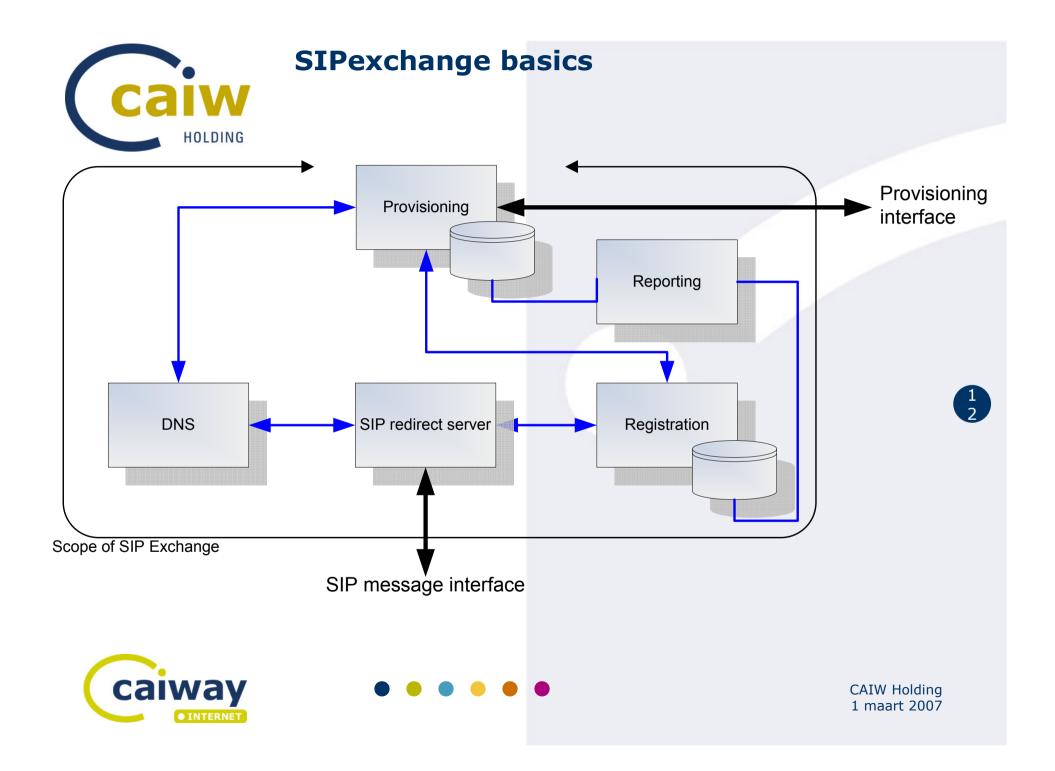


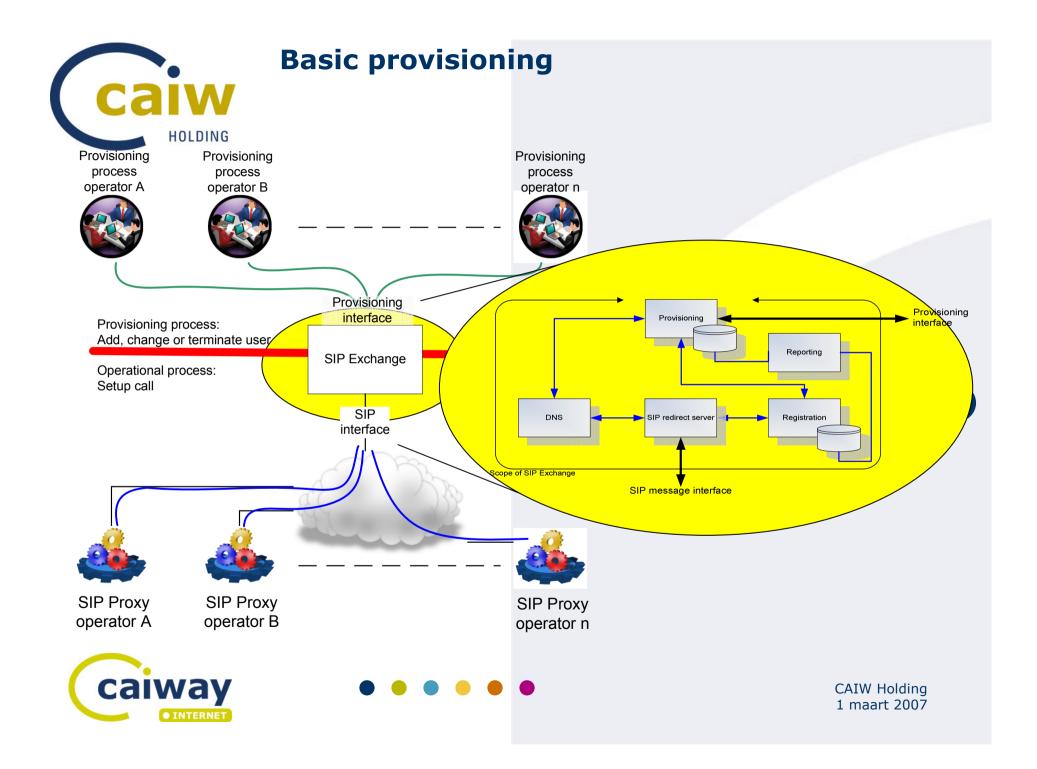
- Research results: no turn key solution available
- Looking for partners
- **o** AMS-IX location of exchange
- **RFI** 
  - > Xconnect / Kayote networks

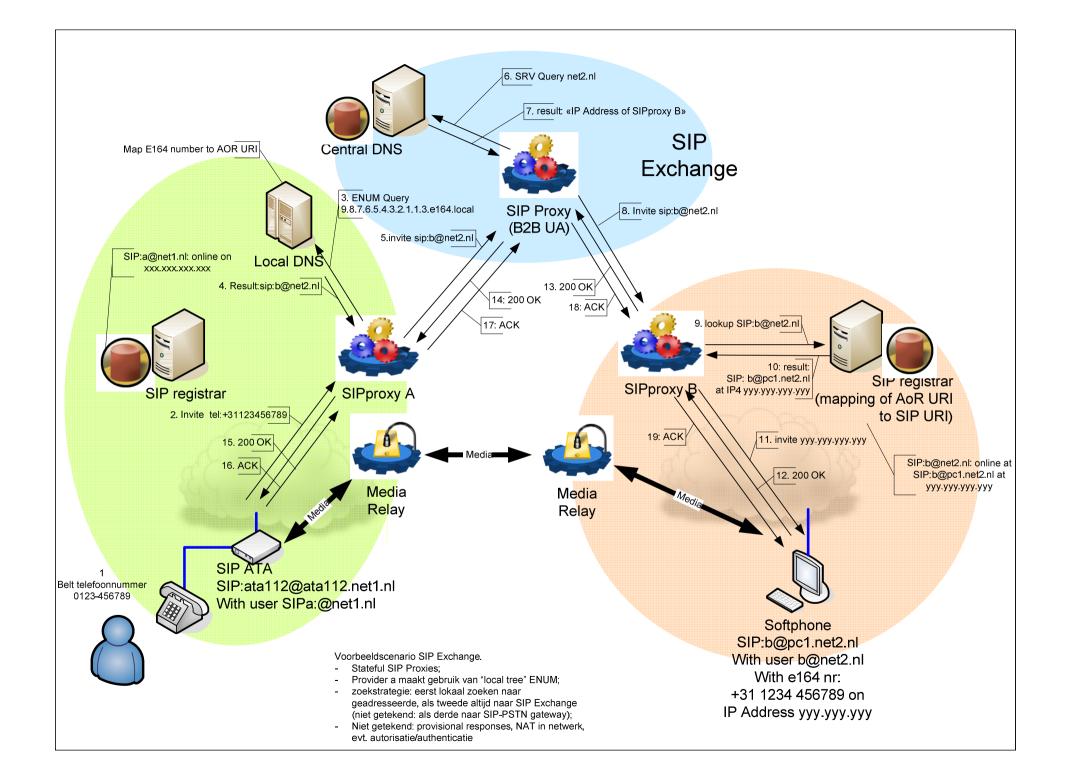


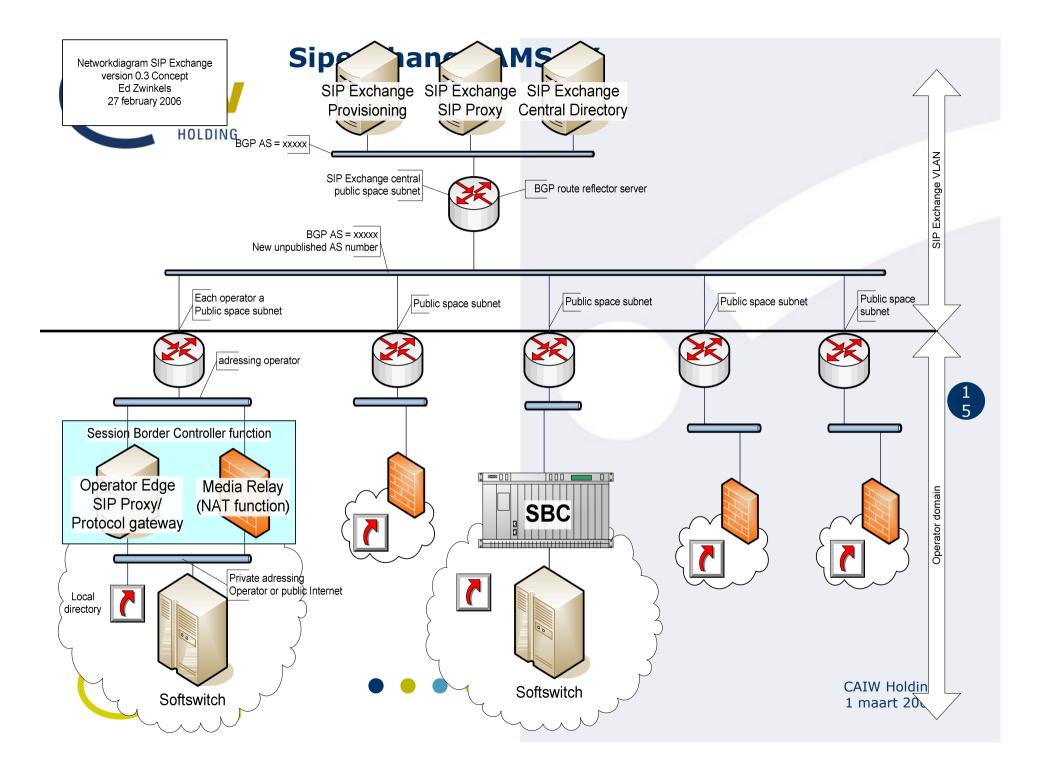


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### SIPexchange problems

#### • Succes of digital telephony

- $\circ$  >50.000 subs a month
- Project team resources

#### • Mixed SIP solutions at operators

- SER / Siemens / Nortel
  - SIEMENS / Nortel SIP for cable solutions 2006/2007 work arounds
  - SIEMENS no ENUM, alternatives (SIP redirect)





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# Sipexchange actual status 2007

- SIPexchange central servers installed on AMS-IX
- Proof of concept positive
  - System has been accepted

#### • Preparation next steps and launch

- Legal issues
- Reporting for peering/roaming services
- Video and Multimedia codec's testing
- Network architecture, SBC's , local provisioning
- CAPEX / OPEX issue's











# Sipexchange 2007

#### • Full launch for Dutch cable operators

- On-net calling between cable operators
- New extended SIP services for cable customers.
- All (S)IP solutions TV/Internet/Telephony









## **Sipexchange Benefits**

- Full Codec support
- Full SIP RFI support
- Multiple SIP sessions
- All IP strategie
- New Customer services
  - Buddy list / Do not Disturb / Presence and much more
  - Fixed Mobile convergence
    - > SIP services on mobile hardware
  - Nomadic telephony services
    - Soft phones
    - > Micro devices / Stick telephone
  - Video telephony
    - > Special Interest Groups (elderly, Service Centre)
    - > Integrated SIP device DVB setop boxes, sip client on TV





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