



Home Automation Europe
technology made simple

CAT-iq and Home Automation Applications

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CAT-iq developers conference

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Agenda

- Background Home Automation Europe
- Examples of Home Automation applications and –services
- CAT-iq in its competitive RF-landscape
- Opportunities for integrating CAT-iq in Home Automation applications



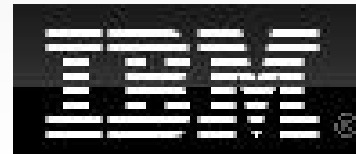
Background Home Automation Europe

- Background HAE
 - Since 2004 (5 years)
 - Focus on Research and Development of home (energy) management solutions
 - R&D investments > \$5 million
 - 26 people growing to 35 this year
 - Scalable software platform with global partners in own Eco system
 - Target customers are utility companies worldwide

Customers



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Alcatel·Lucent





Examples of Home Automation applications

The problem of *Myoxus glis*

A real-life example on a Home Automation application

Please meet Mr. (or Mrs.) *Myoxus Glis*



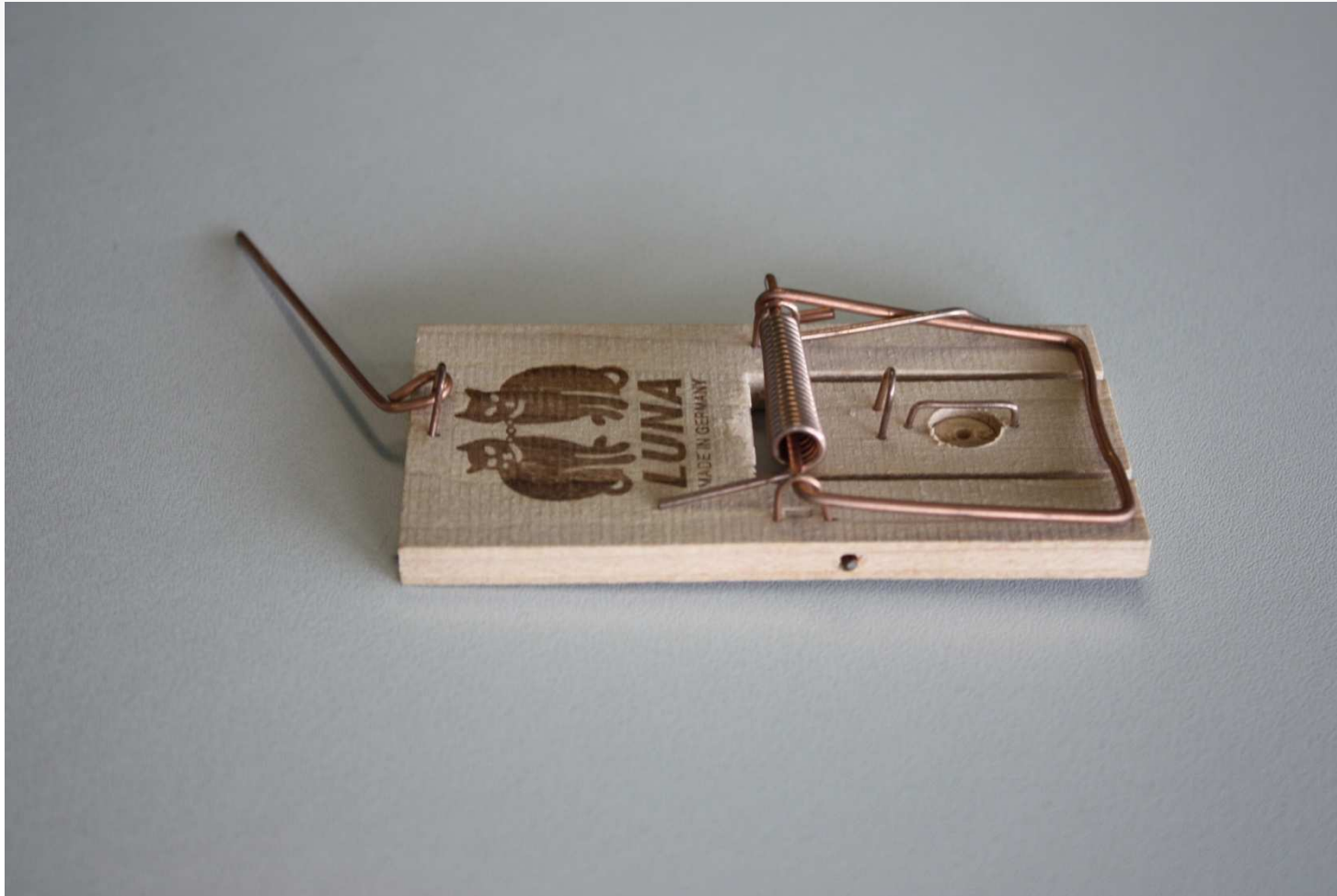


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a live (life?) demonstration

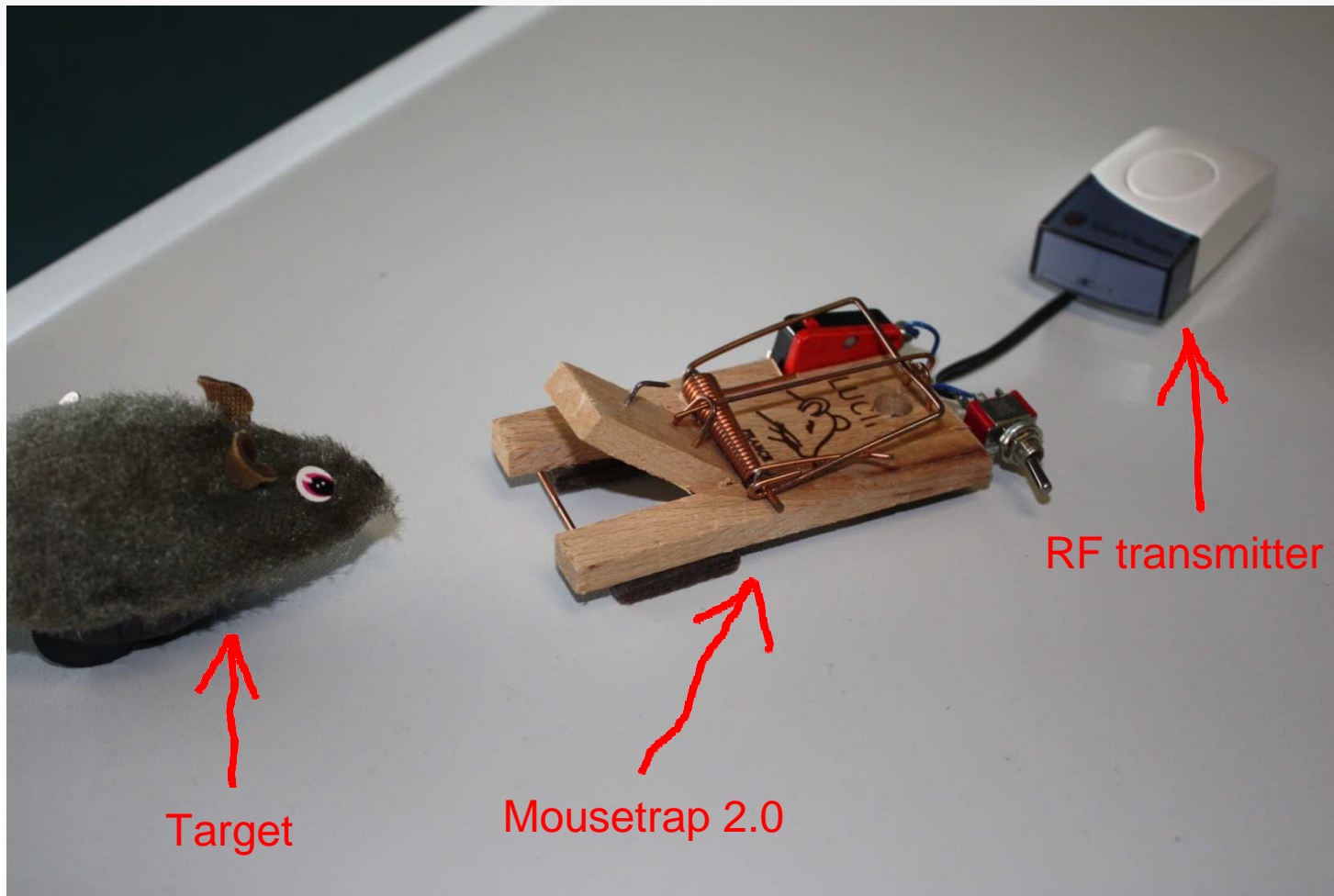


Pest control platform: traditional



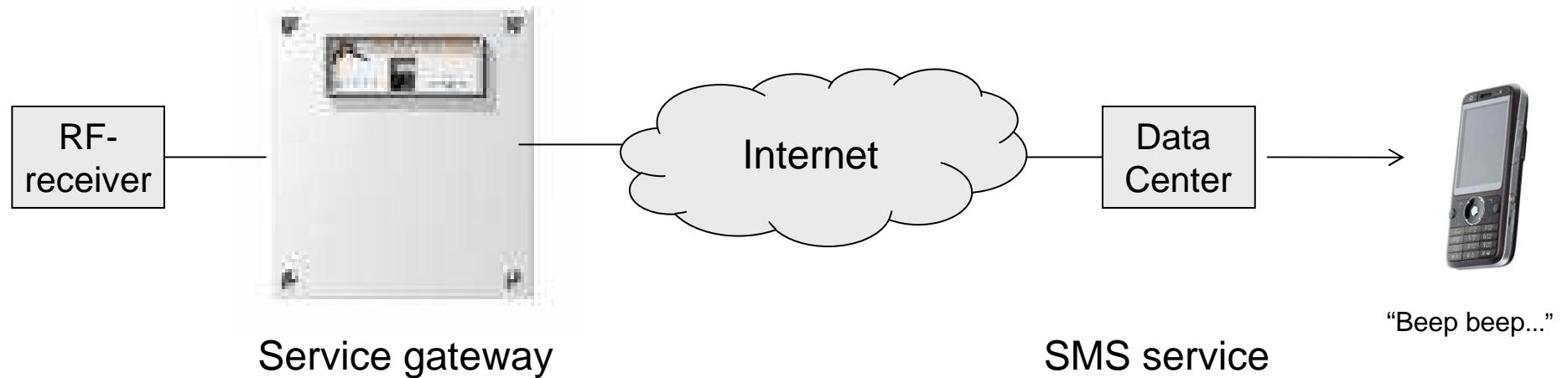


Pest control platform: "Automated"





Service platform





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Now for real ...

May I have a volunteer, please?





Another example on how to automate things





Home Automation applications

- Convenience
 - remote control for
 - light,
 - curtains,
 - windows,
 - garage doors
 - etc
 - remote and really remote
 - Telephone
 - SMS
 - For instance: holiday home
- Security
 - burglar
 - care
 - panic
- Energy management
 - smart metering
 - presentation
 - control
 - services



Main parts that constitute applications

- In-home components
 - sensors, actuators
 - wired, wireless
 - network
 - other subsystems
- Integration devices
 - gateway
- Service platform
 - Internet based
 - Portal
 - Mobile / SMS
 - 3rd party applications



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CAT-iq



First of all, why wireless is a good idea ...





Available technologies and protocols

- CAT-iq
- io home control
- KNX RF
- Zigbee
- Z-Wave
- EnOcean
- Various proprietary
 - e.g. “klik aan klik uit”





Product availability

The screenshot shows a Google search interface. At the top, there are navigation links: Web, Images, Videos, Maps, Books, Translate, Gmail, and more. The search bar contains the text "cat-iq products". Below the search bar, the results are displayed. The first result is "Cat-iq - Wikipedia, the free encyclopedia" with a snippet: "Advanced voice quality – With the mix of telephony and internet products, CAT-iq will have much better voice quality. CAT-iq will also support audio ...". Below this is a link to "en.wikipedia.org/wiki/Cat-iq - Cached - Similar". The second result is "VoIP is Coming to Cordless Digital Home Phones - VoIP News".

Search results for "cat-iq products":

- About 1,310,000 results (0.19 seconds)
- Cat-iq - Wikipedia, the free encyclopedia**
Advanced voice quality – With the mix of telephony and internet products, CAT-iq will have much better voice quality. CAT-iq will also support audio ...
en.wikipedia.org/wiki/Cat-iq - Cached - Similar
- VoIP is Coming to Cordless Digital Home Phones - VoIP News**

Filters on the left side of the search results:

- Everything (selected)
- More
- Show search tools
- Any time
- Past month
- Standard view

Additional search results below the main list:

- Zwave Products Inc.**
PRODUCTS. SOLUTIONS. CONTACT US. The Zwave Superstore. HOME | SITEMAP | CONTACTS. www.zwaveproducts.com. sales@zwaveproducts.com ...
[Wall switches](#) - [GE Zwave Products](#) - [Remotes](#) - [Zwave Thermostats](#)
www.zwaveproducts.com/ - Cached - Similar
- Z-Wave World**
Or, are you trying to find Z-Wave products that will operate in Europe? ... [Go to the product](#)

Motion detecto



Cat-iq: well positioned?

- How does CAT-iq compare against other technologies on ...
 - power consumption / battery life-time
 - signal reach / link-budget / meshing / spectrum availability / noise
 - size of networks
 - ease of installation (configuring components into network)
 - cost / BoM
 - availability of product
 - support by industry

But



Cat-iq: well positioned?

But ...

- Unknown in the home automation industry
- Vendors have to step out of their comfort zone
- Installed base / available products are limited



Conclusion

- CAT-iq is technically fit for purpose

- But ... hurry up!



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Thank you

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