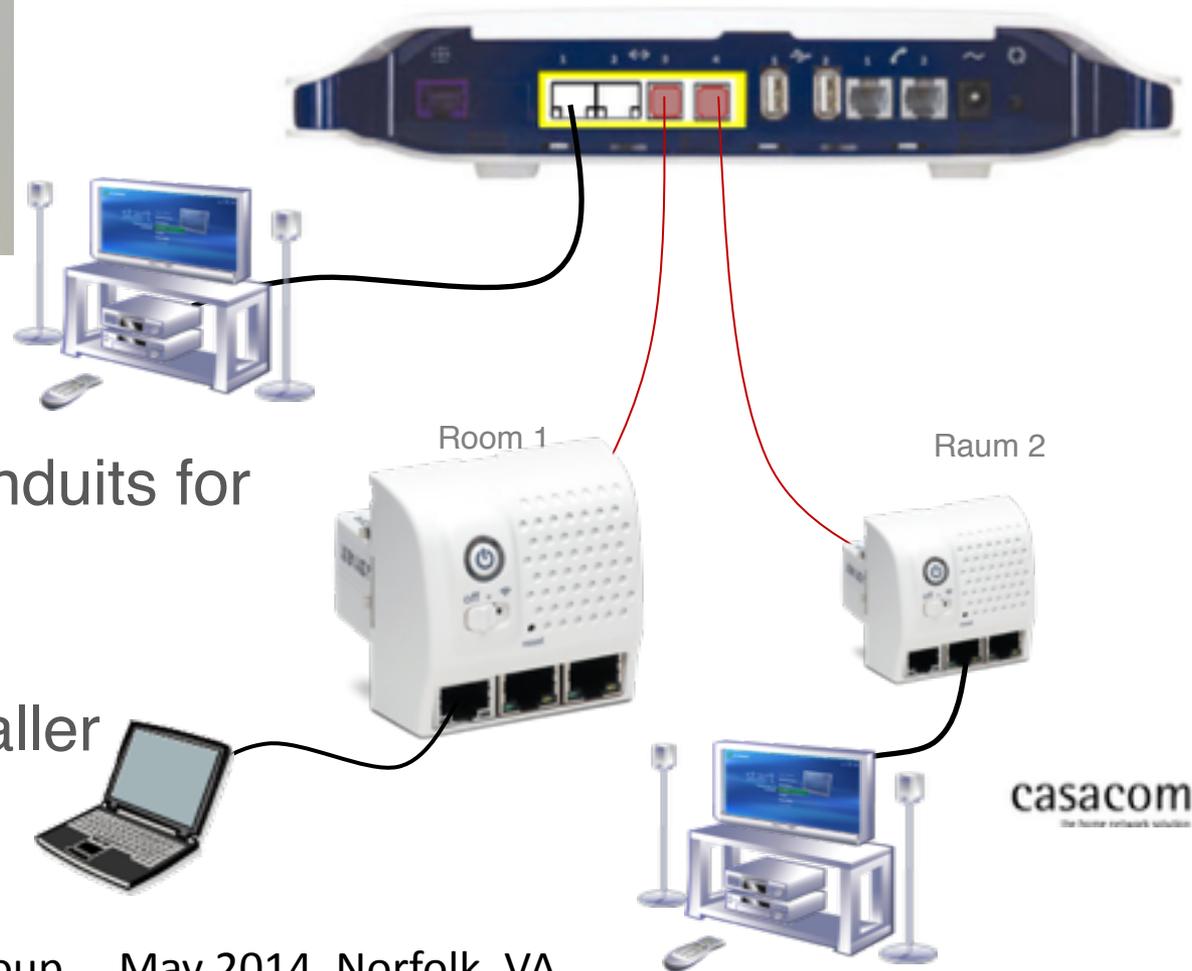# Gigabit POF Use Cases

IEEE 802.3 GEPOF Study Group
May 2014, Norfolk, VA
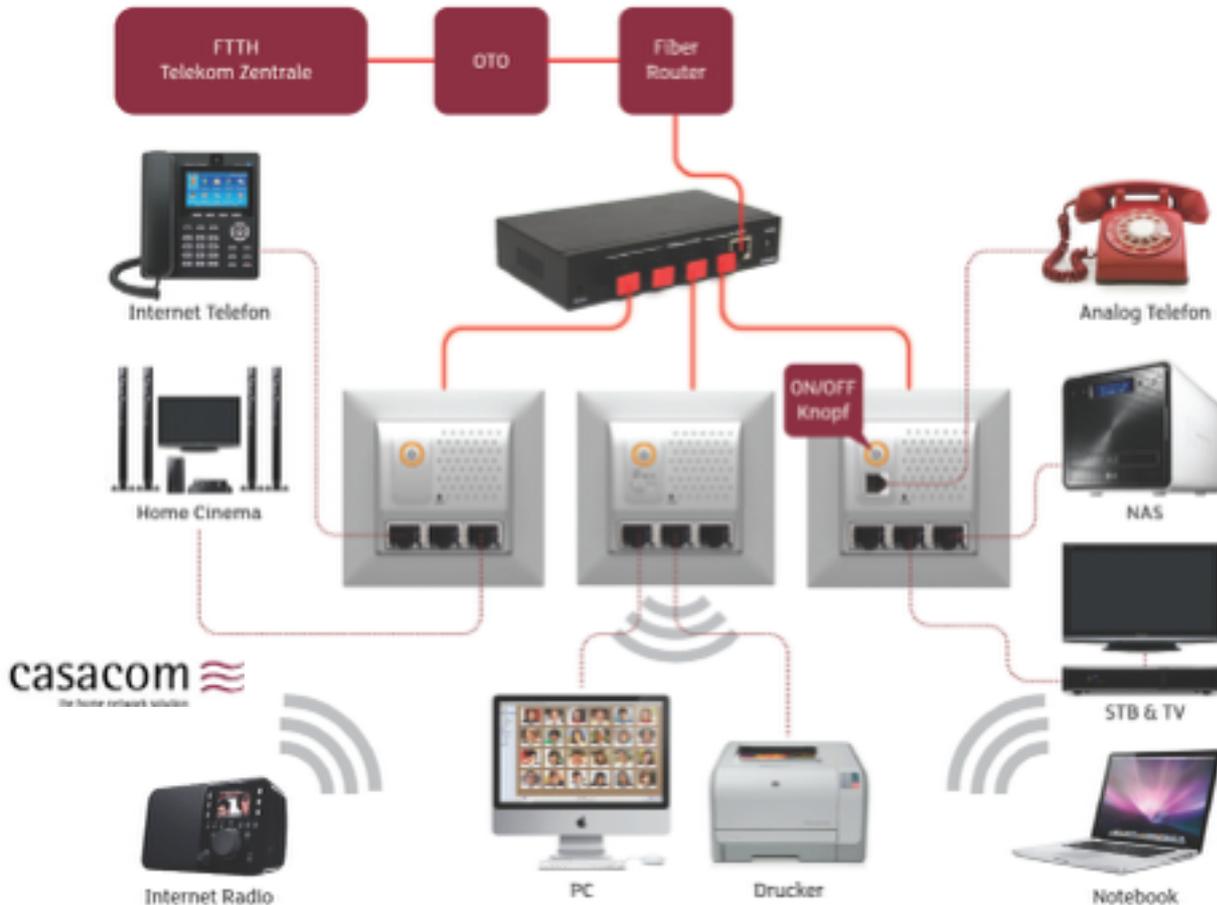
Carlos Pardo (KDPOF)
Josef Faller (Homefibre)
Oscar Rechou (Casacom)

POF Professional Installation:

- Reuse power conduits for POF distribution
- Installed by low qualification installer

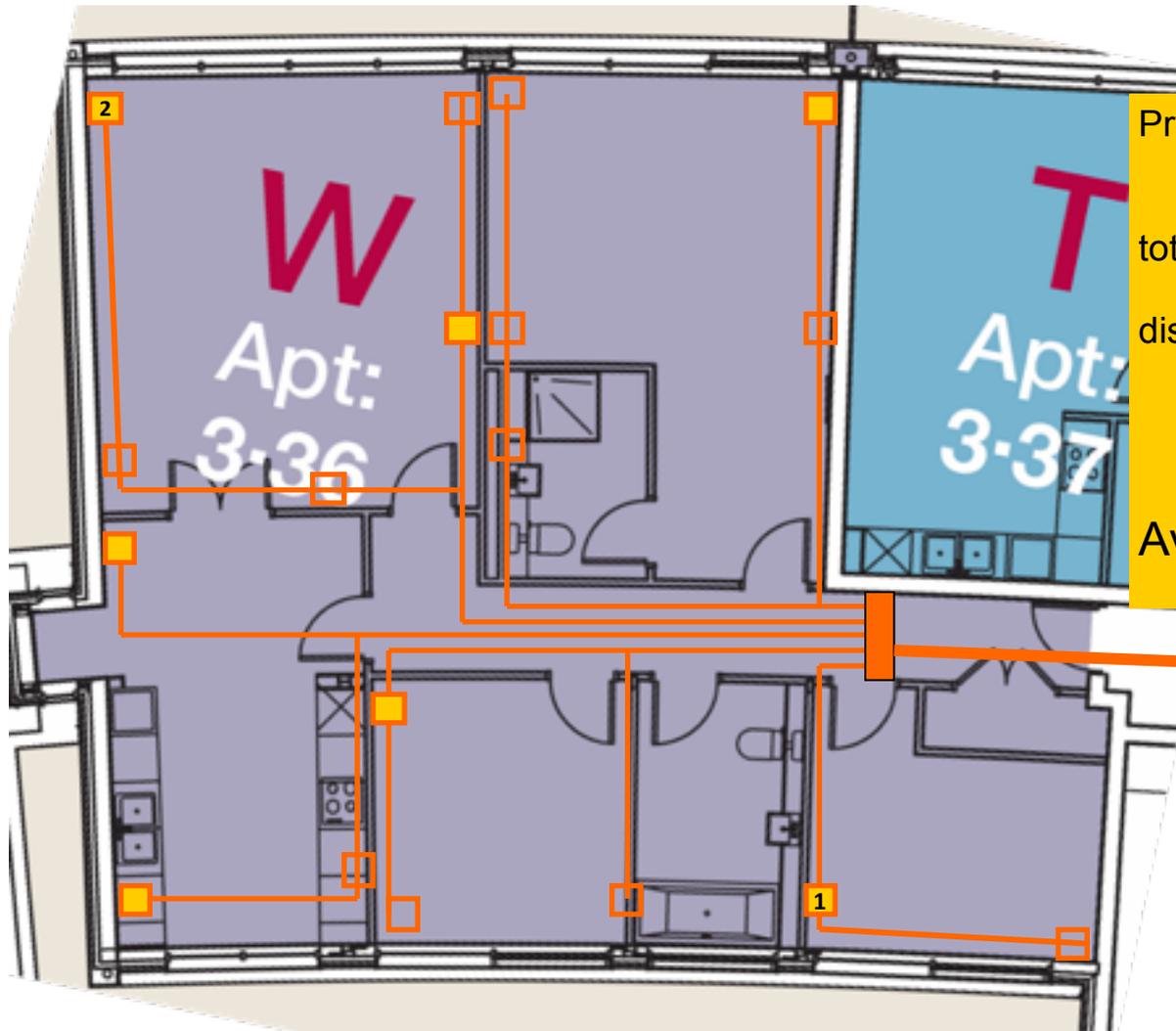Room 1

Raum 2

casacom ≋

Typical POF Infrastructure

- 3 Wall-Plugs per household
- 17m POF cable per LINK
- 50m POF cable per house
- 4h installation time per house.
- 6,4 POF Ports/ house
- 9 RJ45 Ports/ house

Figures from Switzerland (2013)

- Installation base: 5'000 homes
    - 20% old houses
    - 33% renovation
    - 47% new building
- Average 17m POF Link: from HomeGateway to remote POF device.
- ~50m POF Cable/house
- Average Installation 80min per Link
- Average Installation 3 Wall-Plugs per house
- 32'000 POF Ports
- 15'000 POF Plugs
    - 9'000 x 1POF (Star Topology)
    - 6'000 x 2POF (DasyChain)

casacom ≋
the home network solution
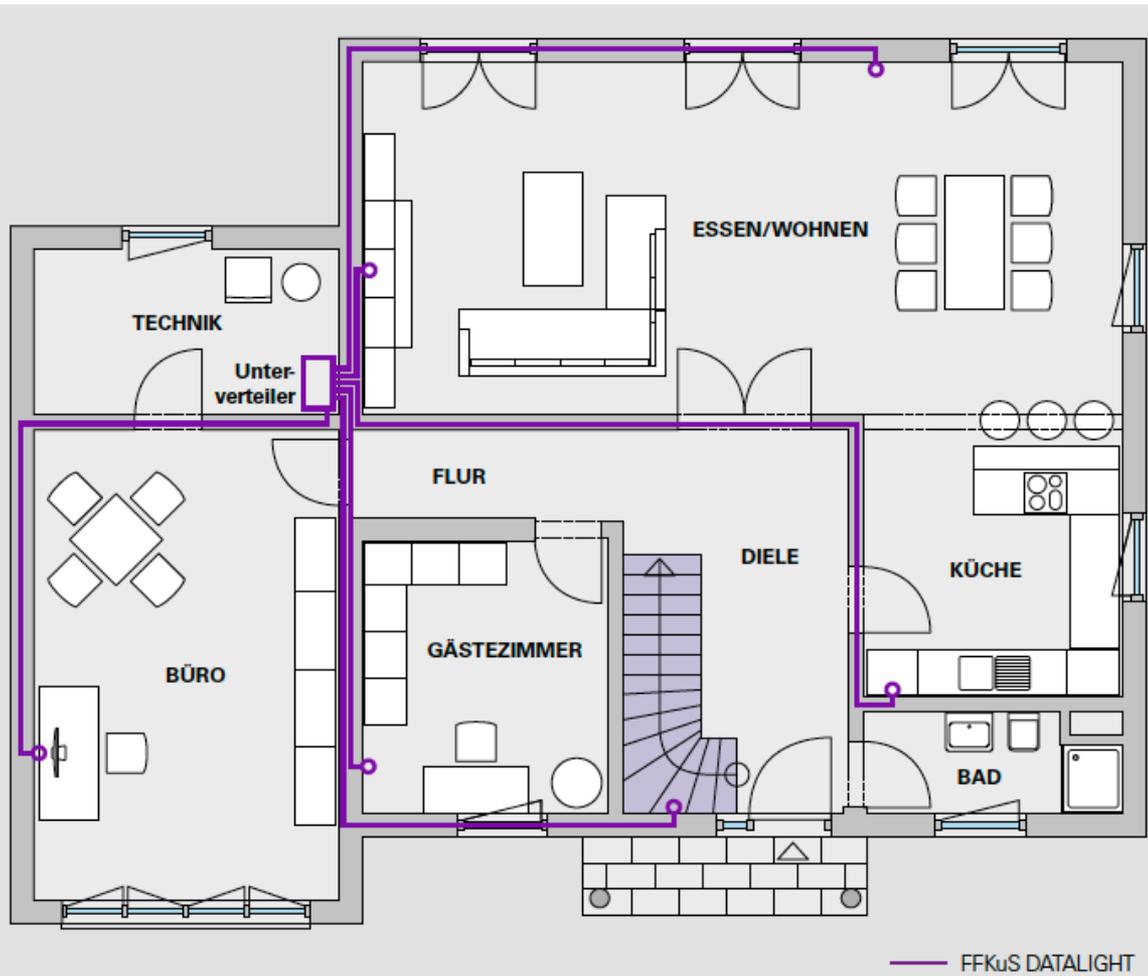
Multi Dwelling Apartment

Preinstalled:

    ca. 17 Outlets
total ca. 150 – 200m POF
    ca. 10 star branches
distance / link: min. 7m (1)
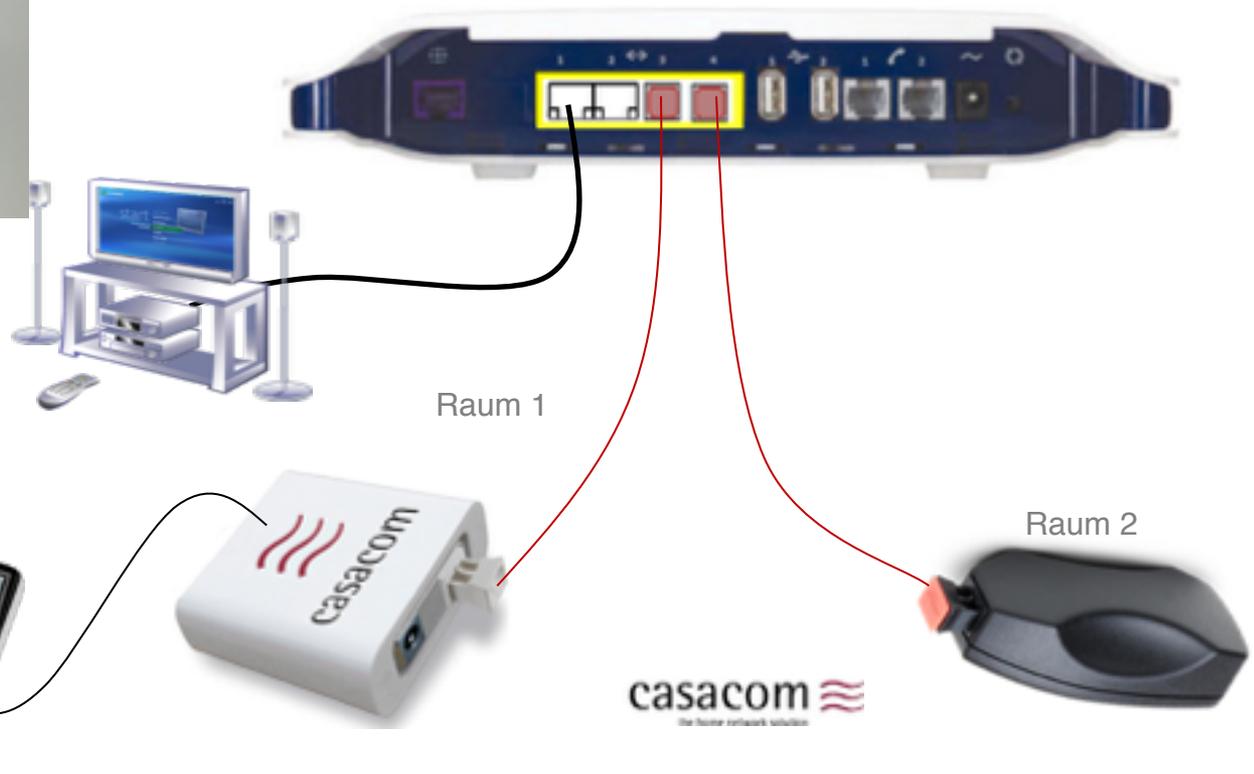   max. 18m (2)

Average link length: 15m

homefibre

DATALIGHT

Home Network:

Average distance
per link: 15m

DRAINAGE SYSTEME

ELEKTRO SYSTEME

HAUSTECHNIK

INDUSTRIEPRODUKTE

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POF Do-it-Yourself Installation;

- Installation done by customer

Raum 1

Raum 2

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