



# S.P. Korolev RSC Energia - ESA SpaceWire Hardware Joint Demonstration

David Jameux (ESA/ESTEC) - Alexey Khakhulin (RSC Energia)  
SpaceWire Working Group meeting #17, ESA/ESTEC

14/12/2011

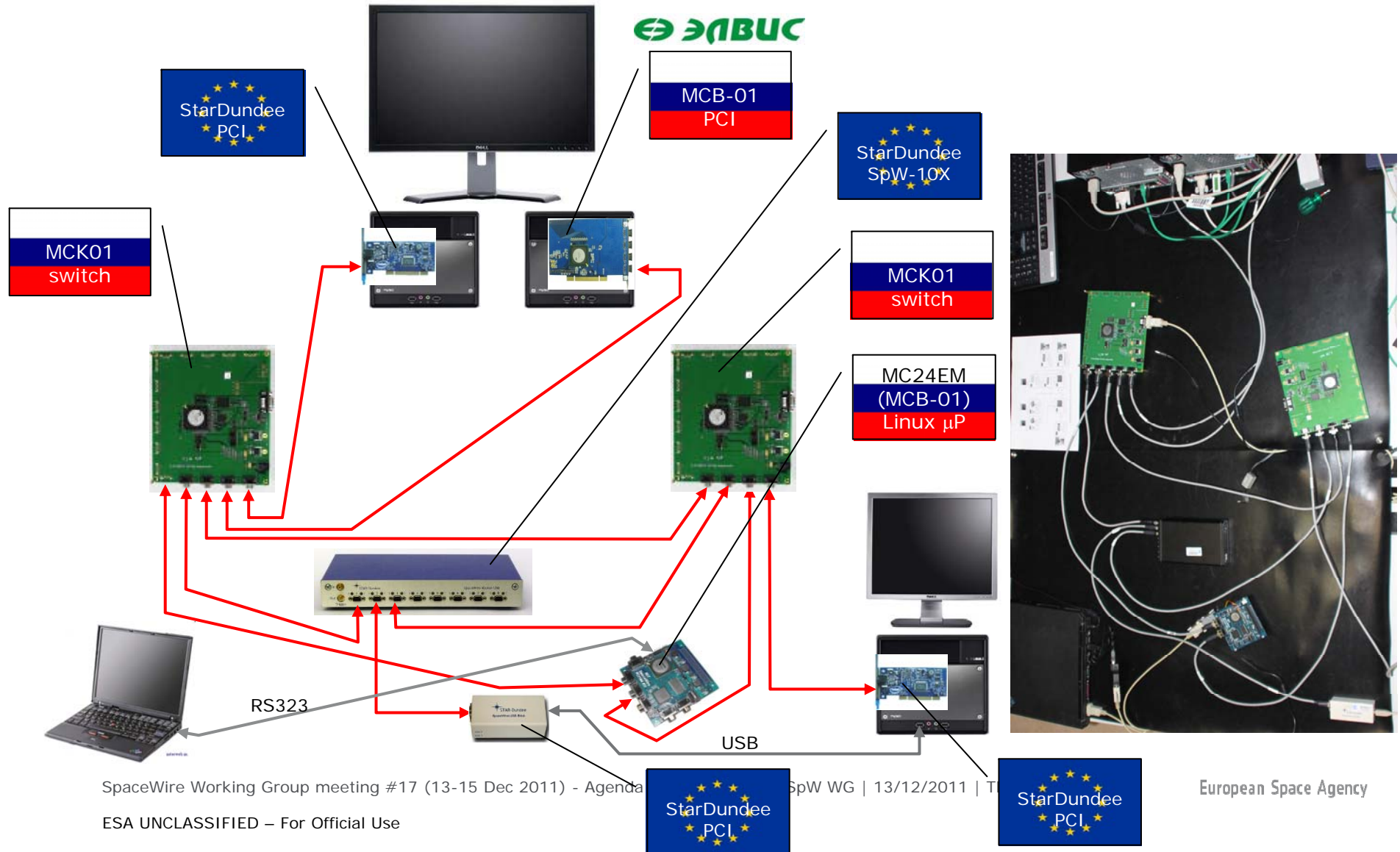


Trade Representation of the Russian Federation in the Netherlands

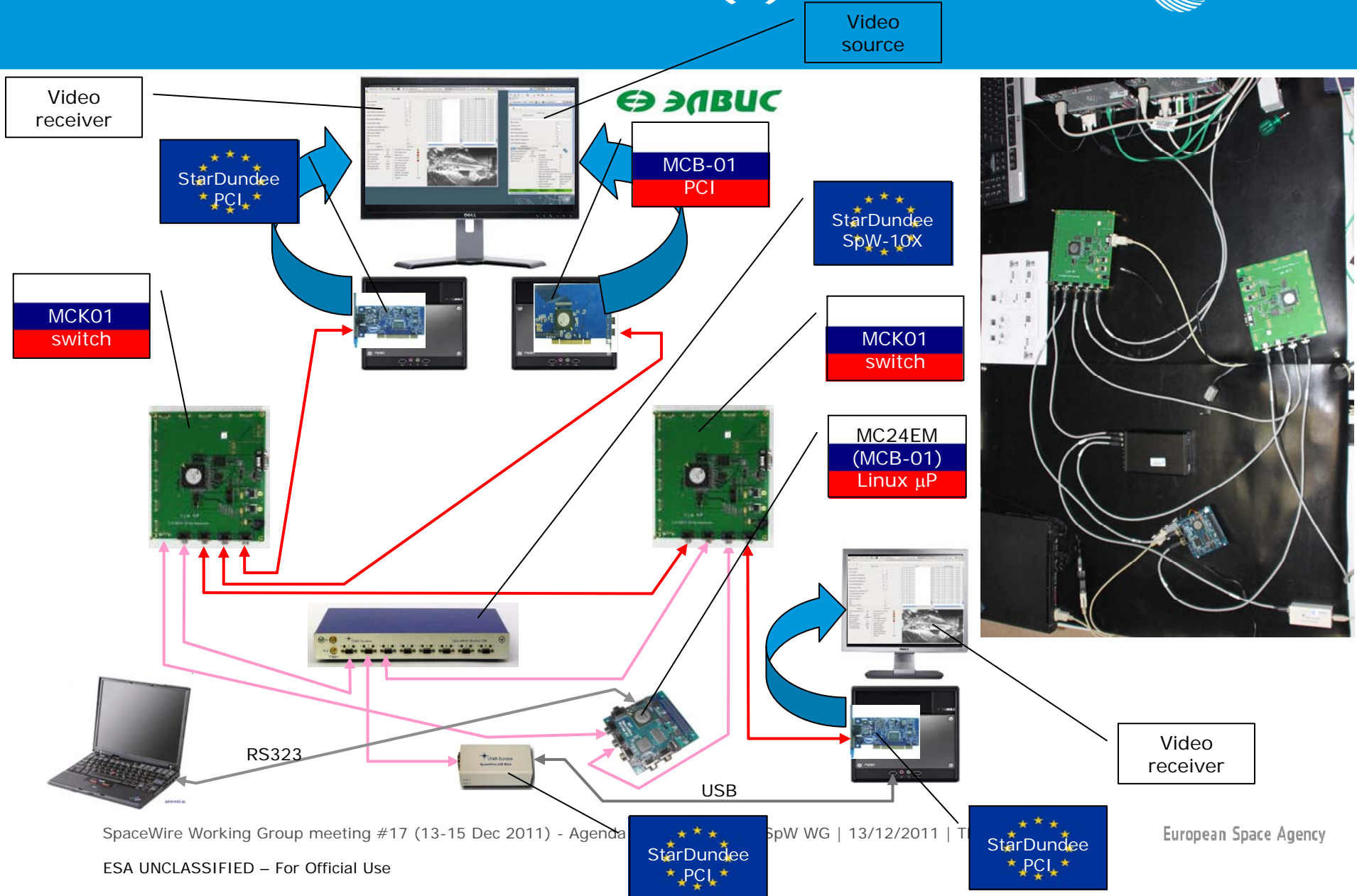
1. Funding body: Roscosmos
2. Coordinator: RSC Energia
  - a. Alexey Khakhulin
3. Sub-contractors:
  - a. SUAI
    - Prof. Yuriy Sheynin
    - Dmitry Raszhivin
    - 2 16Xswitch boards
    - SpW enabled MIPS-compatible SBC (Debian Linux)
  - b. ELVEES
    - SpW/PCI board
    - 2 SpW 16Xswitch ASICS
    - SpW/PCI ASIC
4. EU hardware: 2 SpW/PCI boards (StarDundee)

1. Funding body: ESA
2. Coordinator: ESTEC, TEC-ED
  - a. David Jameux
3. Support:
  - a. Jorgen Ilstad
  - b. Dirk Thurnes
  - c. 3 PCs + accessories
  - d. 1 8Xswitch (StarDundee)

# Demo setup

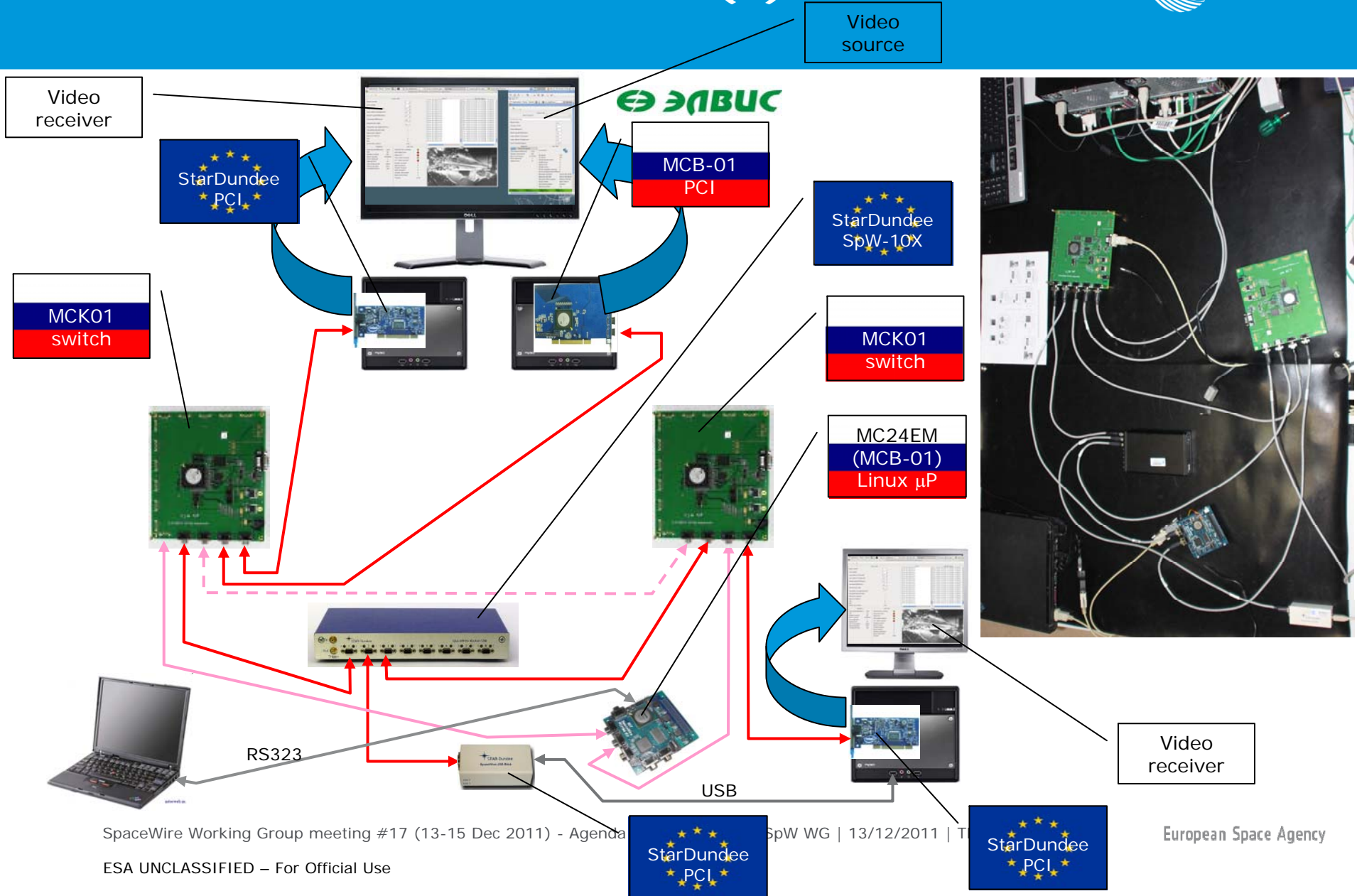


# Video transmission Demo (1)

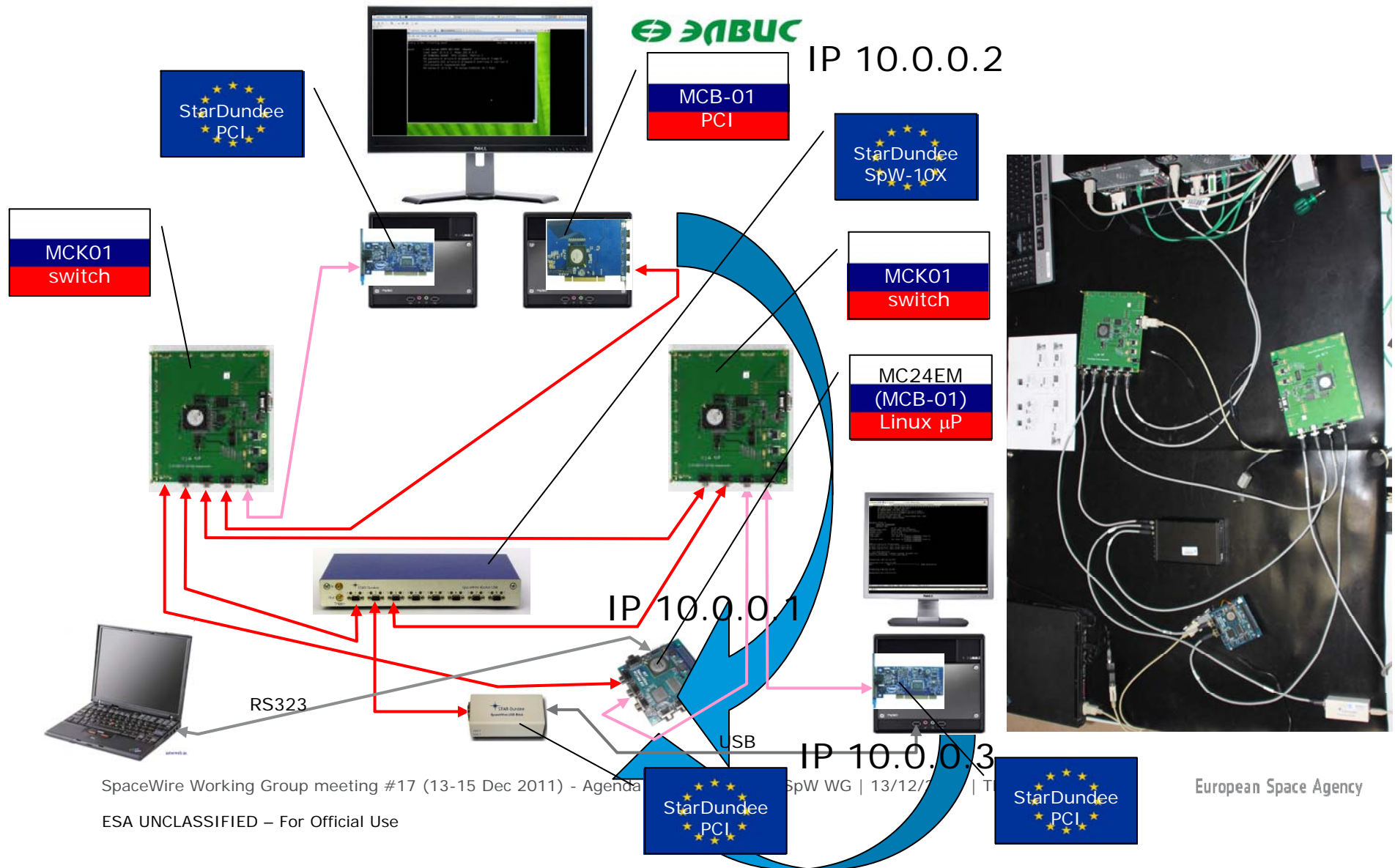




# Video transmission Demo (2)



# TCP/IP Demo



SpaceWire Working Group meeting #17 (13-15 Dec 2011) - Agenda

SpW WG | 13/12/11 | T

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European Space Agency

1. This demonstration is the first milestone of the ESTEC/Energia collaboration towards the development and standardisation of a Universal Interface for on-board space systems (world first) as proposed by Energia in their presentation at the 16<sup>th</sup> SpW WG meeting (March 2011).
2. It is using only non space-qualified technology (first step).
3. The following steps are under definition between ESTEC (TEC-ED) and RSC Energia.