

FIRE conference

Ghent – December 2010

NITOS testbed – User Case

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creating and sharing knowledge for telecommunications

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Objectives

- Development and implementation of network coding protocols for video streaming in p2p networks
- VLC video streamings
- Telefonica's Kangaroo IPTV system
- CERTH's NCRAWL network coding framework
- Provide efficient and reliable communications using NCRAWL framework

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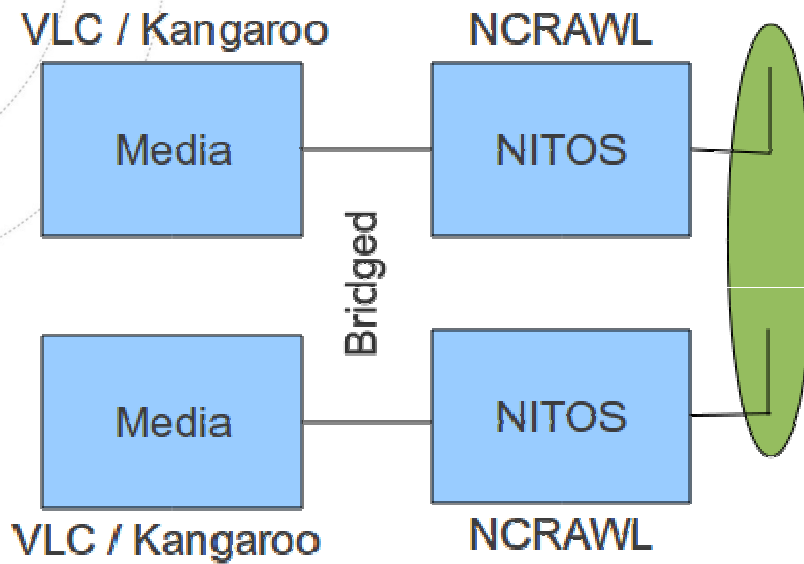
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Experiment setup – own testbed



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NITOS-DEV usage

- NITOS provides its users with space on a separate development server for them to edit and compile images and software
- NCRAWL framework build based on NITOS-DEV linux distribution
- All necessary tools and drivers already included
- Easy port to NITOS cluster

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NITOS testbed usage

- Easy to use resource reservation tool, supports the spectrum slicing feature of NITOS through reservation of frequencies.
- Connectivity and link quality information available on the NITOS website is really helpful for selecting an appropriate set of resources.
- The OMF framework provides an easy to use and centralized way to configure the resources and plan an experiment.
- Detailed step-by-step instructions and examples of usage are available on the NITOS website.
- Introductory tutorials for MadWifi and Click are also available for new implementation-oriented researchers.

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