ICN and video distribution
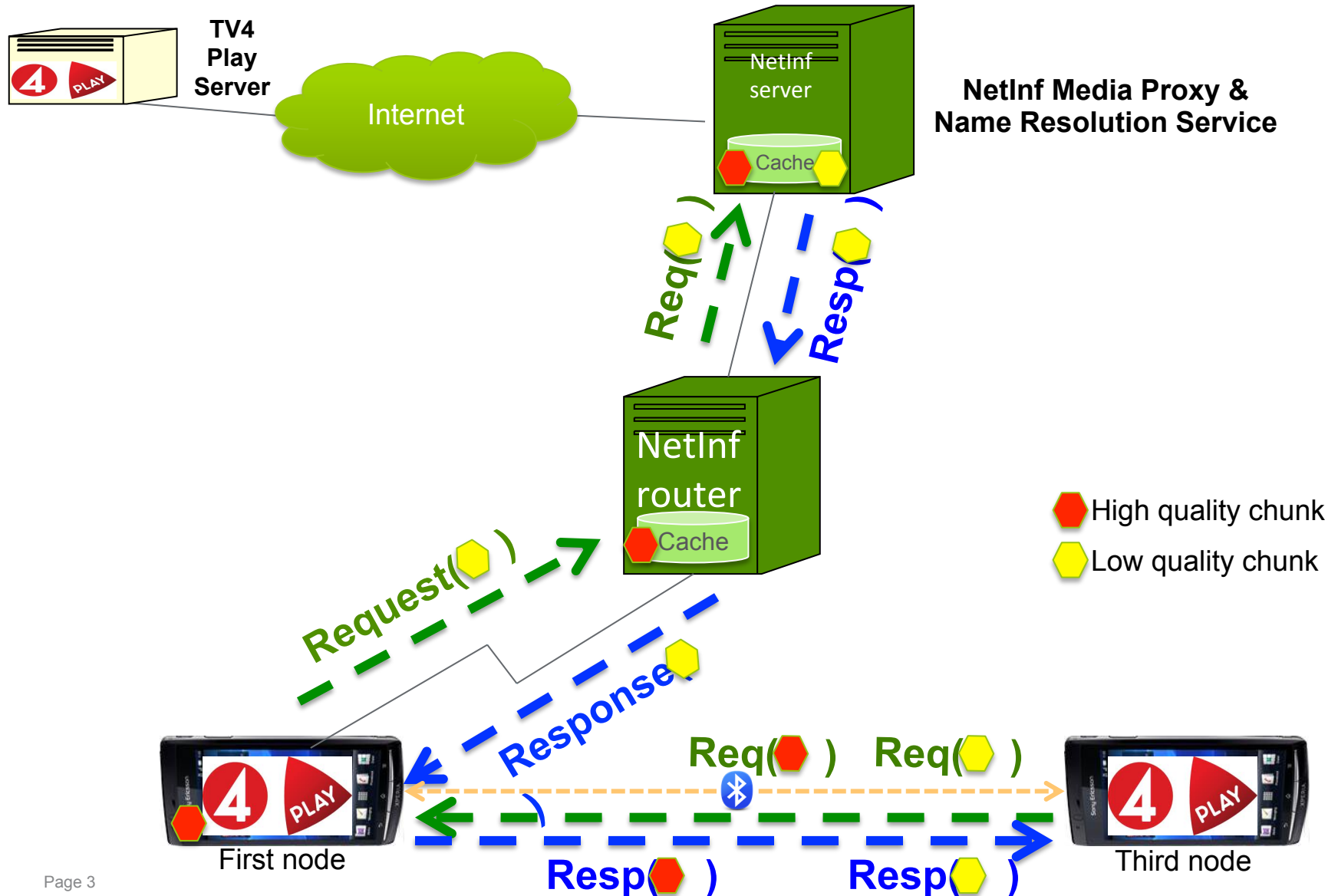
IRTF ICNRG meeting
Vancouver November, 2013

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First node requesting

TV4
Play
Server

Internet

NetInf
server

Cache

**NetInf Media Proxy &
Name Resolution Service**

Req( )

Resp( )

NetInf
router

Cache

Request( )

Response( )

First node

Second Node Requesting

TV4 Play Server

Internet

NetInf server

NetInf Media Proxy & Name Resolution Service

Req( )

Resp( )

NetInf router

Cache

Request( )

Response( )

High quality chunk

Low quality chunk

Req( )   Req( )

Resp( )   Resp( )

First node

Third node
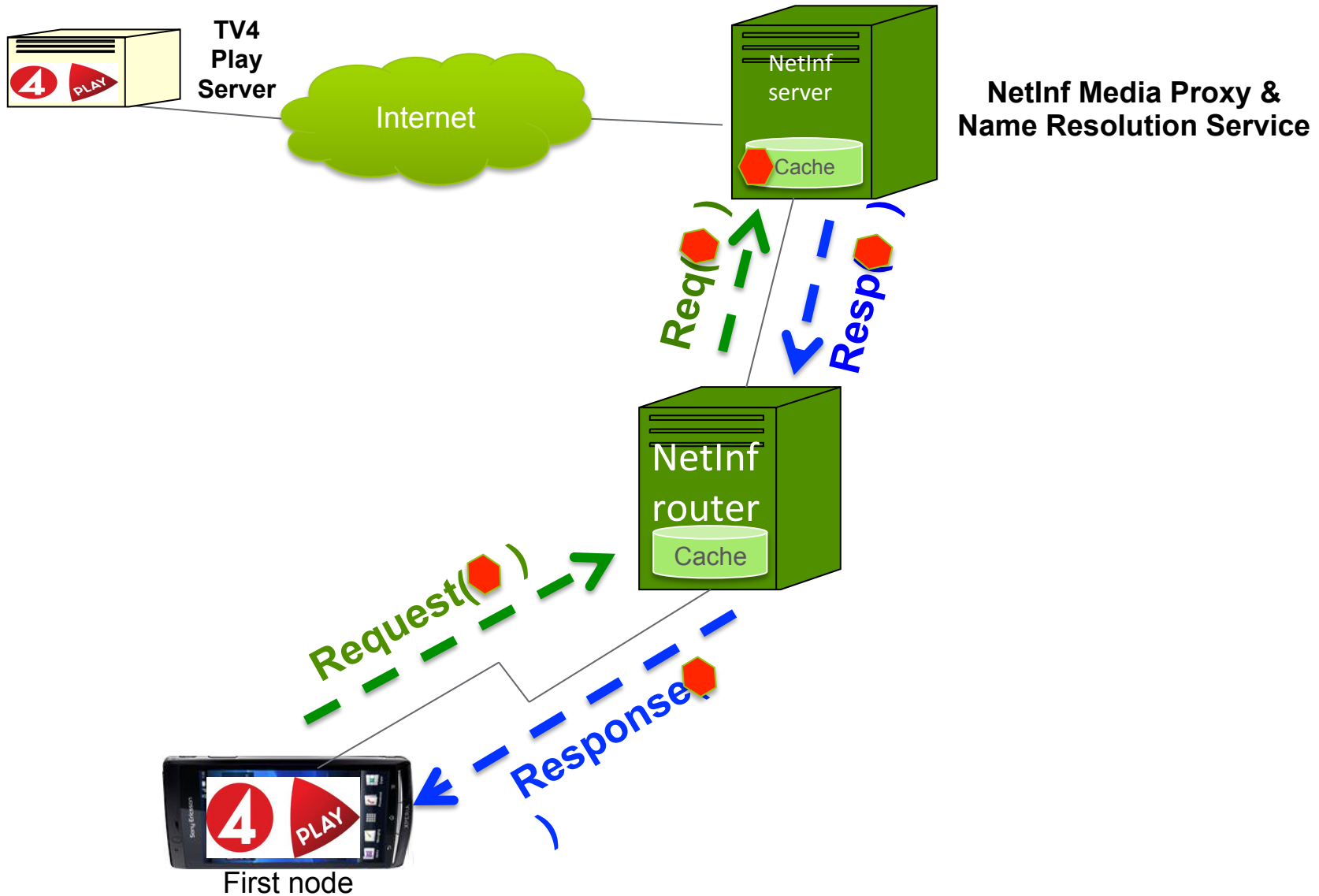
Some issues

› How to know if good response means good network or nearby cache?

› If one rate is requested but another is locally cached, it might make sense to start with the locally cached one.

› When switching rate, that also often means changing source for retrieving chunks. Could mean switching to lower bitrate might not necessarily help.

Next Steps

› We expect ICN and video distribution, especially the interactions between ICN and adaptive streaming video, will be a major topic in London.

› There is a draft that was presented in Berlin:

– draft-video-streaming-over-ICN-00.txt

› Contributions most welcome, both on the mailing list and for presentation in London.