

Future Content Networks

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Towards future Media Internet



- What will be an Internet without Content ?
- What will be an Internet without People ?
- What will be an internet without understanding the users ?

Future Content Networks

position paper



- **Vision of the Future Content Network**
- **Future Media**
- **Future Internet Architectural requirements**
- **Conclusions**

Should the future of Internet



- Be designed for tussle ?
- Offer accountability for resource usage ?
- Be more content and context-aware ?
- Be increasingly symmetrical and with ever increasing throughputs ?
- Offer secure, manageable and context-sensitive content services ?

Some statements

- There needs to be exchanges of information between the content service and the network to ensure the network knows what the content is and can handle this appropriately.
- This need for the network to handle the content means the network must be capable of handling different content in different ways. This means all bits (packets) are not equal.

Some statements

- If we are talking about the network being able to know how it has to deliver different packets according to the nature of their content then we also imply a network management/control system that can make sure to deliver the content in the appropriate way.
- If we assume the network is not infinite capacity, then we must assume the network has some form of resource management to support the delivery promises made.
- If we accept the suggestion that there is one high quality video content stream sent to the local router and the local router brakes this down into the format for each end users individual requirements, we are making the case for intelligence in the router.

Some statements

- The combination of these points make it clear that the contents demand that we treat bits according to the need of the content.
- This is an fundamental architecture change and we need to then project to when these contents will appear and consider how can we improve the network in this timescale.

Future Content Network(s)

Next steps

- FCN White paper
- NEM General Assembly Feb 3-4 (Brussels)
- FIA Prague FCN session May 11-13 (Prague)
- NEM Summit Sept 28-30 (St Malo)

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