

# **Objectives for RTPGE Study Group**

June 25, 2012

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**RTPGE Objectives ADHOC Group**

## 802.3 RTPGE Preliminary Objectives

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- a) Preserve the IEEE 802.3/Ethernet frame format at the MAC client service interface.
  - b) Preserve minimum and maximum frame size of the current IEEE 802.3 standard.
  - c) Support full duplex operation only.
  - d) Support a speed of 1000 Mb/s at the MAC/PLS service interface.
  - e) Support point-to-point operation over a N-connector link segment using copper cabling with less than four twisted-pairs.
  - f) Support a BER of less than or equal to  $10e^{-10}$ .
- The objectives (a) and (b) were accepted by the Study Group during May-2012 IEEE 802.3 interim meeting
  - The objectives (c) to (f) were reviewed by RTPGE participants on 6/25/2012 Telco and will be presented to the RTPGE Study Group in July-2012 IEEE 802.3 plenary meeting.

## 802.3 RTPGE Objectives under discussion

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g) Define a 1 Gb/s PHY that supports a total channel insertion loss of xx dBm over twisted pair copper cabling per the RTPGE channel model

**Group Feedback:** The channel model will be created within the TF when established.

**Action Item(s):** Remove

h) Support faster training time from cold start of the PHY operation

**Group Feedback:** Needs clarification and better wording

**Action Item(s):** The requesting parties will provide a presentation during July-2012 IEEE 802.3 plenary meeting

i) Define optional energy efficient operation

**Group Feedback:** Provide clear wording

**Action Item(s):** Further discussions are needed during July-2012 IEEE 802.3 plenary meeting

j) Meet RTPGE EMC requirements of the intended markets

**Group Feedback:** Needs clarification

**Action Item(s):** The requesting parties will provide further data during July-2012 IEEE 802.3 plenary meeting