

Project Group B/P2P

Terms of Reference¹

B/P2P (Peer-to-Peer distribution over the Internet)

1. WHAT ARE THE TASKS

TASK 1:

Examining the most relevant aspects of the P2P distribution and study the impact of P2P on the efficiency and cost of end-to-end radio and television chain over the Internet. The necessary legal constraints such as copyright and social (community) aspects should be taken into account.

TASK 2:

Analysing, trialing and evaluating the existing P2P systems in terms of their technical performance, service reliability, network adaptability, commercial viability, user friendliness, and safety/security. If possible and appropriate, the Group should carry out pilot experiments on the occasion of major EBU television and radio broadcast events.

TASK 3:

Defining functional requirements that meet Member broadcasters needs that can be presented to the potential providers in the marketplace, and implementing an open source P2P system that could be made available to all EBU members, preferably for free. This work should be performed in cooperation with academia.

2. WHO ARE THE CUSTOMERS

The main customers are the EBU members who carry out streaming and downloading of their programmes over the internet.

3. ARE THE TASKS TECHNICAL OR INTERDISCIPLINARY

Principally technical, with some elements of interdisciplinary aspects.

4. DELIVERABLES AND DEADLINES

DEL 1: According to TASK 1, a background paper explaining the main advantages and potential weaknesses of P2P, including a list of requirements for a functional P2P system	December 2006
DEL 2: According to TASK 2, Deliverable 2 should contain: <ul style="list-style-type: none">• criteria for testing P2P system performance,• collation of experimental data from several real-life P2P experiments	July 2007

¹ Approved by the BMC meeting on 27/28 June 2006 in Geneva.

<ul style="list-style-type: none"> • a comparison of commercially available P2P systems 	
DEL 3: According to TASK 3, Deliverable 3 should provide a workable P2P system including user interface ²	December 2007

5. WHERE ELSE IS THE WORK GOING ON

There are several commercially available P2P propositions, as well as some research and development programmes undertaken by technical universities. To this end, the Group should cooperate with the manufacturers, internet service providers (ISPs) and technical universities.

6. WHAT IS DISTINCTIVE ABOUT THE EBU CONTRIBUTION

The work of Project Group B/P2P is the first systematic study on P2P technologies undertaken by public broadcasters.

7. WHAT IS THE VALUE FOR THE EBU MEMBERS

All EBU members may benefit from an open source P2P system to be developed and implemented by the Project Group. The work undertaken may change the business model, reduce the distribution costs, improve network reliability and increase scalability of all webcasting activities conducted by broadcasters.

8. WHAT WOULD HAPPEN IF THE PROJECT GROUP WERE NOT ESTABLISHED

Risk that EBU Members be forced to use commercial and proprietary solutions, which may be too expensive, technically insufficient and operationally inadequate.

9. MANPOWER AND COSTS

EBU Members: 2 to 3 meetings a year of 2 days each

Permanent Services:

- Professional man-days: 10 to 15
- Supporting man-days: 2 to 3
- Direct costs: 3000 to 4500 CHF
- Software development costs: to be evaluated

10. PROGRESS REPORTS

Broadcast Management Committee (BMC), On Line Services Group (I/OLS)

² The work on Deliverable 3 should start as soon as possible and should be based on Tribler Open Source development from the TU Delft.

11. MEMBERS

Svein Aronsen	NRK	
Nicolas Braud	TF1	
Guy Dessaux	TSR	
Aasmund Flo	NRK	
Thomas Elton Jensen	DR	
Frank Hoffsummer	SVT	Chairman
Mieczyslaw Kania	TVP	
Rainer Kirchknopf	ZDF	
Christian Kloeckner	WDR	
Stefan Lauterer	ORF	
Ben Lavender	BBC	
Arto Markku	YLE	
Zvezdan Martić	RTVSLO	
Mario Nuzzo	RAI	
Johan Pouwelse ³	TU Delft	
Björn Noel Rosenthal	Deutsche Welle	
Robert Sedlmeyer	IRT	
Ali Shah	BBC	
Adrian Silaghi	TVR	
Peter Suetens	VRT	
Andreas Thut	Swissinfo	
Martin van Trigt	Nozema	
William Valkenburg	Omroep	Vice-Chairman
Laura Downhower**	Eurovision	
Jean-Pierre Evain**	EBU	
Marco de Giorgi**	Eurovision	
Nicoletta Iacobacci**	EBU	
Frans de Jong**	EBU	
Franc Kozamernik**	EBU	Secretary
Michael Mullane**	EBU	
David Wood**	EBU	

** Ex-Officio

³ Invited by the Chairman