

Table of Contents

Foreword	3
Preface	5
Chapter 1 Introduction and Overview	7
Opportunity for Radio	7
Audio vs. Video	8
Competition	8
Terrestrial Advantages	9
Why Stream?	9
Cutting-Edge	9
Ad Revenues	9
Increase Cume	10
Future Positioning	10
Process of Streaming	10
 Chapter 2 Webcasters	 13
Webcaster Advantages	13
Bandwidth and Connectivity	13
Network Affiliation	14
Advertising Models and Support	14
Ad-Insertion	14
Audience Tracking	14
Listener Demographics	15
Branded Media Players	15
Side Channels	15
Case Study: Clear Channel Subscription Service	15
DMCA Compliance and Copyright Management	16
Hardware and Software Requirements	16
Webcasting Providers	16
 Chapter 3 Ad-Insertion	 29
Arrival of Ad-Insertion	29
Targeted Ad-Insertion	29
Costs	29
CPM Rates	30
Audience Identification	30
Webcast Networks	30
Challenges	31
Market Conditions	31
Traditional Targeting	32
Player Downloads	32
Ad-Insertion Providers	32
 Chapter 4 Audience Tracking	 37
Precise Metrics	37
Third-Party Monitors	37
Server-Side Systems	37

Client-Side Systems	38
Monthly and Weekly Rankings	38
Audience Tracking Providers	39
Chapter 5 Peer-to-Peer Streaming	41
Unicast Streaming	42
Peer-to-Peer Streaming	42
P2P Challenges	43
Peer-to-Peer Streaming Providers	43
Chapter 6 Copyright and Licensing Issues	49
AFTRA	49
Webcasting Royalty Rights	50
DMCA	50
CARP	50
Options for Webcasters	51
Conditions for DMCA Statutory License	52
Ephemeral Recording	52
NAB	53
ASCAP, BMI and SESAC	53
Keeping Up to Date	53
Chapter 7 Future of Internet Radio	55
Appendix A Glossary of Terms	57
Appendix B Examples of Monthly and Weekly Ratings	61
Disclaimer	67
Figures and Tables	
Table 1.1 - Typical Bandwidth Capacity	8
Figure 2.1 - Yahoo! Radio Player	17
Figure 2.2 - SurferNETWORK Player	21
Figure 2.3 - RealNetworks' RealOne Player	24
Figure 3.1 - Hiwire Registration	29
Figure 3.2 - Hiwire Branded Media Player	31
Figure 3.3 - SoniXtream Branded Media Player	34
Figure 4.1 - MeasureCast Radio Index	38
Figure 5.1 - Unicast Streaming	41
Figure 5.2 - P2P Streaming	42
Table 4.1 - Monthly Ratings from MeasureCast	61
Table 4.2 - Arbitron Webcast Channel Ratings Report	64
Table 4.3 - Arbitron Webcast Networks Ratings Report	65
Table 4.4 - MeasureCast Weekly Top 25	65