

1. Record Nr.	UNINA9910142640903321
Autore	Tvede Lars <1957->
Titolo	Data broadcasting : merging digital broadcasting with the internet // Lars Tvede, Peter Pircher, Jens Bodenkamp [[electronic resource]]
Pubbl/distr/stampa	Chichester [England] ; ; New York, : Wiley, 2001
ISBN	9786610555253 0-470-84189-3 1-280-55525-4
Edizione	[Rev. ed.]
Descrizione fisica	1 online resource (xvi, 274 p.) : ill. ;
Altri autori (Persone)	PircherPeter BodenkampJens
Disciplina	384.3
Soggetti	Broadcasting - United States Broadband communication equipment industry - United States Data transmission equipment industry - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index. Previously published as: Data broadcasting : the technology and the business. c1999.
Nota di contenuto	; 1 The Evolution of Broadcasting ; 1 -- ; 1.1 The Conception of Electronic Broadcast Media ; 2 -- ; 1.1.1 Something in the Air ; 2 -- ; 1.1.2 The Beginning of Television ; 3 -- ; 1.1.3 The Age of Satellites ; 4 -- ; 1.1.4 The Beginning of Cable ; 9 -- ; 1.1.5 The Emergence of Large TV Empires ; 12 -- ; 1.2 The Power of Broadcasting ; 13 -- ; 2 The Internet ; 15 -- ; 2.1 The Conception of the Internet ; 15 -- ; 2.2 Growth and Maturity ; 16 -- ; 2.3 The Network Effect ; 18 -- ; 2.4 Increasing Returns ; 19 -- ; 2.5 The Future of the Internet ; 20 -- ; 2.5.1 Ubiquity and Diversity ; 22 -- ; 2.5.2 Convergence and Embedding ; 23 -- ; 2.6 Proportions Between Bandwidth and Memory ; 24 -- ; 3 Broadcasting Meets the Internet ; 31 -- ; 3.1 Data Broadcast: Technical Positioning ; 31 -- ; 3.2 Data Broadcast: Ecosystem ; 35 -- ; 3.3 The Organisation Process in the Value Chain ; 36 -- ; 4 Technology Framework for Data Broadcasting Environments ; 42 -- ; 4.1 Moving Packages -- Old and New Ways ; 42 -- ; 4.2 Dividing Content into Packages ; 44 -- ; 4.3 Choosing a Delivery Type ; 45 -- ;

4.3.1 Delivery Types ; 45 -- ; 4.3.2 Delivery Services ; 46 -- ; 4.3.3 Quality of Service (QoS) ; 48 -- ; 4.4 Specifying Destination and Guaranteeing a Unique Address ; 48 -- ; 4.5 Providing Information about How to Reach the Destination ; 49 -- ; 4.5.1 IP Multicast ; 50 -- ; 4.6 Getting a Vehicle for Transportation ; 53 -- ; 4.6.1 When IP Gets a Trip Companion ; 55 -- ; 4.7 Choosing a Physical Path ; 56 -- ; 4.7.1 Wireline/Copper Pair ; 58 -- ; 4.7.2 Wireline/Fibre Optics ; 59 -- ; 4.7.3 Cable Television ; 59 -- ; 4.7.4 Digital Terrestrial ; 60 -- ; 4.7.5 Mobile ; 64 -- ; 4.7.6 Satellite Distribution ; 69 -- ; 4.7.7 Home Networks ; 70 -- ; 4.7.8 Comparing Wireless Local Networking Standards ; 78 -- ; 4.8 Reaching the End-User ; 80 -- ; 5 The Five Basic Formats of Data Broadcasting ; 81 -- ; 5.1 Three Key Questions Regarding the Data Broadcasting Content ; 82 -- ; 5.1.1 "Guaranteed Delivery" or "Best Effort"? ; 82 -- ; 5.1.2 Time Critical Delivery? ; 83 -- ; 5.1.3 Viewing on Delivery? ; 83 -- ; 5.2 Data Broadcasting Formats -- an Overview ; 83 -- ; 5.3 Cached Content Delivery ; 84 -- ; 5.3.1 Receiving and Deleting Cached Content ; 85 -- ; 5.3.2 Scheduling and Broadcasting of Cached Content ; 93 -- ; 5.4 Package Delivery ; 95 -- ; 5.4.1 Applications, Usage Tracking and Billing of Package Delivery ; 96 -- ; 5.4.2 Usage Tracking ; 96 -- ; 5.5 Audio/Video Streaming ; 106 -- ; 5.5.1 Typical Applications for Audio/Video Streaming ; 107 -- ; 5.5.2 Infrastructure requirements for audiolvideo streaming ; 108 -- ; 5.5.3 Audio Video Stream Event Type ; 109 -- ; 5.5.4 Booking and scheduling considerations for A/V streaming ; 110 -- ; 5.6 Data Streaming ; 111 -- ; 5.6.1 Applications for data streaming ; 111 -- ; 5.6.2 Granularity of Data Streams ; 112 -- ; 5.7 Broadcast Guides ; 117 -- ; 5.7.1 The Media Context of the Broadcast Guide ; 118 -- ; 5.8 Linking Broadcasting Services to the Internet ; 124 -- ; 5.8.1 The Three-Layered Hybrid Medium ; 124 -- ; 5.8.2 Creating "Bouncers" ; 125 -- ; 6 Implementing a Data Broadcasting Platform ; 130 -- ; 6.1 Factors Determining Basic Platform Requirements ; 130 -- ; 6.1.1 The Role of Content Management ; 132 -- ; 6.1.2 The Role of Community Administration ; 132 -- ; 6.1.3 The Role of Network Administration ; 132 -- ; 6.1.4 The Role of Advertising Management ; 133 -- ; 6.2 Listing the Basic Functionality Required ; 133 -- ; 6.3 Subscription Management ; 136 -- ; 6.4 Data Encryption and Security ; 136 -- ; 6.4.1 Encryption and Conditional Access Systems ; 136 -- ; 6.5 Scheduling and Booking ; 137 -- ; 6.5.1 Features of Scheduling Tools ; 140 -- ; 6.5.2 General Criteria of Bandwidth Booking Systems ; 141 -- ; 6.5.3 Managing Booking Through a Transmission Chain ; 142 -- ; 6.6 Billing ; 144 -- ; 6.7 Reporting ; 144 -- ; 6.8 Media Object Tracking ; 145 -- ; 6.8.1 Digital Watermark/Copyright Handling ; 148 -- ; 6.9 Intelligent Content Compiling ; 149 -- ; 6.10 Overall Platform Flexibility ; 149 -- ; 6.10.1 Hardware Independence ; 150 -- ; 6.10.2 Network Independence ; 150 -- ; 6.10.3 Browser Independence ; 150 -- ; 7 Data Broadcasting: The Media Opportunities ; 151 -- ; 7.1 Different Kinds of Media Experiences ; 151 -- ; 7.2 Users of the Data Broadcasting Medium ; 155 -- ; 7.2.1 Professional Applications ; 157 -- ; 7.2.2 Consumer Applications ; 166 -- ; 8 Creating Data Broadcasting Applications and Services: 26 Steps ; 175 -- ; 8.1 Creation Process Overview ; 175 -- ; 8.2 Process Details of the Channel Planning Phase ; 180 -- ; 8.2.1 Setting the Team ; 180 -- ; 8.2.2 Determining the Management Process ; 181 -- ; 8.2.3 Defining the Vision for the Channel ; 182 -- ; 8.2.4 Market Research ; 183 -- ; 8.2.5 End-user Segmentation ; 185 -- ; 8.2.6 Target Group Research ; 185 -- ; 8.2.7 Channel Marketing Strategy ; 188 -- ; 8.2.8 Preliminary Implementation

Plan ; 189 -- ; 8.2.9 Content Sourcing and Value Proposition ; 189 -- ; 8.2.10 Preliminary Commercial Review ; 190 -- ; 8.2.11 Lists of Deliverables ; 190 -- ; 8.2.12 Resources and Cost Estimate ; 191 -- ; 8.2.13 Content Exploration and Analysis ; 191 -- ; 8.2.14 Initial Design Specification ; 192 -- ; 8.2.15 Channel Operations and Maintenance Plan ; 193 -- ; 8.2.16 Complete Design and Functionality Specification ; 196 -- ; 8.3 Process Details of the Channel Implementation Phase ; 197 -- ; 8.3.1 Internal Test ; 198 -- ; 8.3.2 User Test ; 199 -- ; 8.3.3 Technical Alpha Test ; 201 -- ; 8.3.4 Technical Beta Test ; 201 -- ; 8.4 Process Details of the Channel Launch Phase ; 201 -- ; 8.4.1 Channel Packaging ; 201 -- ; 8.4.2 Channel Sign-off ; 202 -- ; 8.4.3 Channel Release ; 202 -- ; 8.4.4 Channel Acceptance ; 202 -- ; 9 Operating Networks of Multiple Data Broadcasting Channels ; 203 -- ; 9.1 Editorial Issues for Multi-Channel Network Operation ; 203 -- ; 9.1.1 Multi-Channel Scheduling ; 203 -- ; 9.1.2 Broadcast Guide and Information Channel Operations ; 205 -- ; 9.1.3 Electronic Tutorial ; 207 -- ; 9.1.4 Test Channel ; 207 -- ; 9.2 Technical Issues for Multi-Channel Operation ; 207 -- ; 9.2.1 Providing a Basic Channel Operations Infrastructure ; 207 -- ; 9.2.2 Data Gathering and Processing Procedures ; 208 -- ; 9.2.3 Backbone transportation Network ; 209 -- ; 9.2.4 Data On-Ramping ; 210 -- ; 9.2.5 Client Software Deployment ; 210 -- ; 9.2.6 Delivering the Initial Installation Software ; 211 -- ; 9.2.7 Following Up with Software Upgrades ; 212 -- ; 9.2.8 Incident/RFD Handling ; 212 -- ; 9.3 Commercial Issues for Multi-Channel Operation ; 213 -- ; 9.3.1 Product Policy for the Channel Network ; 213 -- ; 9.3.2 Support Infrastructure ; 215 -- ; 9.3.3 Media Object Tracking ; 216 -- ; 9.3.4 Subscription Management ; 216 -- ; 9.3.5 Channel Network Marketing Control ; 216 -- ; 10 The Commercial Drivers Behind Data Broadcasting ; 218 -- ; 10.1 How Value Flows Through the Value Chain ; 219 -- ; 10.2 Sharing the Added Value Throughout the Value Chain ; 221 -- ; 10.2.1 Value for Basic Core Technology Enablers ; 221 -- ; 10.2.2 Value for Basic Commercial Enablers ; 223 -- ; 10.2.3 Value for Early Adopters ; 238 -- ; 10.2.4 Value in the Growth and Maturity Phase ; 240 -- ; 11 Data Broadcasting in the Future ; 242.

---

## Sommario/riassunto

A truly groundbreaking volume, this fully revised and updated edition of Data Broadcasting presents an exhaustive overview of the specific data broadcasting and bordering technologies concerned. Answering a wealth of questions, it describes this new technology in detail, examining how it differs from established technologies, and for what means it can be used. It also analyses data broadcasting from the perspectives of both the medium and business.\* Features the latest developments in electronic media\* Discusses the major media opportunities of data broadcasting\* Shows how data broadcasting can overcome many notorious problems resulting from dense traffic on the Internet\* Considers the technical implications of data broadcasting over different network infrastructures\* Examines the process of developing and launching multimedia channels in a data broadcasting environment. Essential, up to date coverage for executives and developers in the telecommunications, software, hardware and media industries of the main commercial, editorial and technical opportunities of data broadcasting.

---