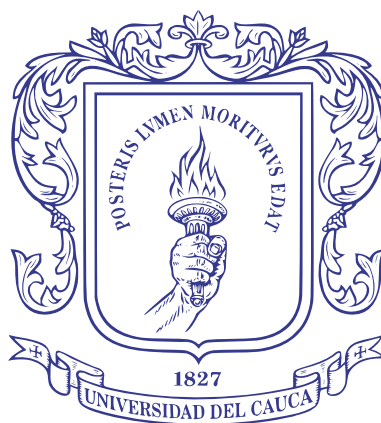


PIXTREAM: SISTEMA DE MEDIA STREAMING BASADO EN REDES P2P



ANEXOS

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Anexo A

Diagramas de clases

A.1. Servicios principales

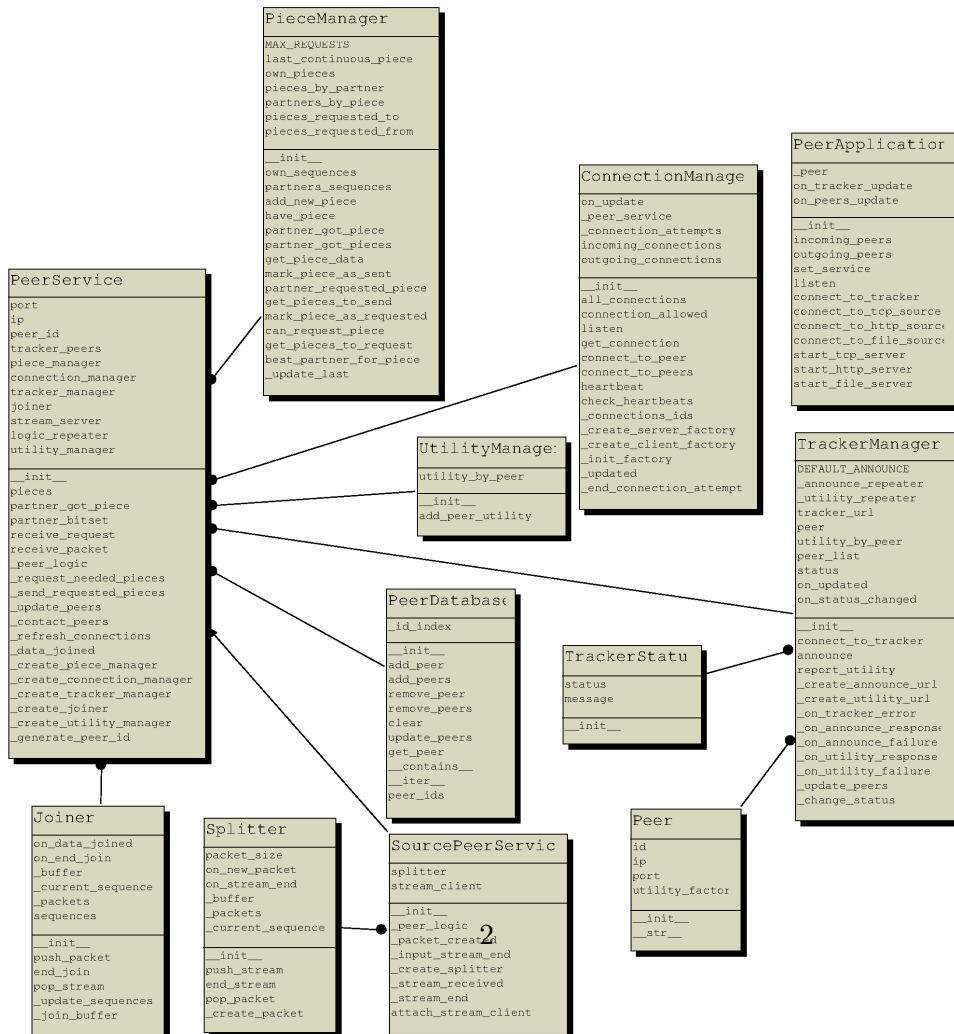


Figura A.1: Modelo de los servicios principales de Pixstream

A.2. Rastreador

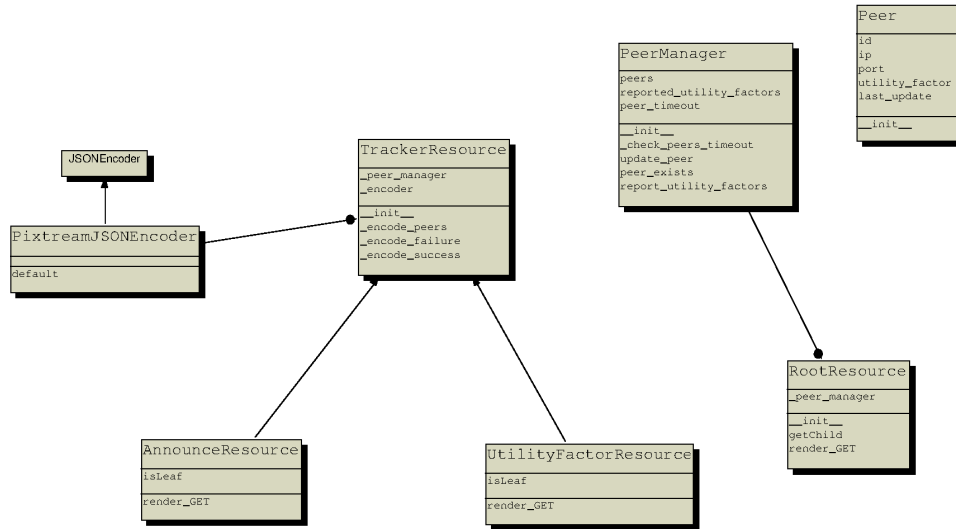


Figura A.2: Modelo del rastreador Pixtream

A.3. Clientes y servidores de *streaming*

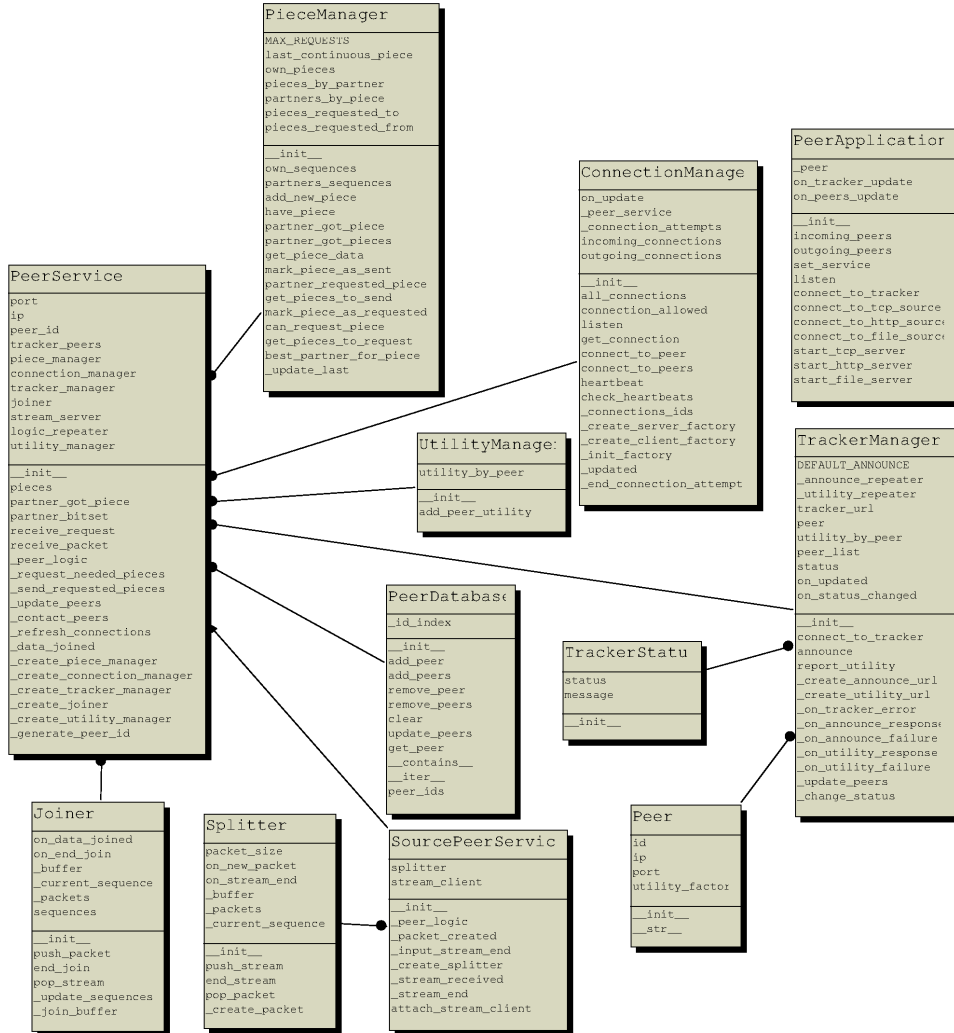


Figura A.3: Modelo de los clientes y servidores de *streaming*

A.4. Mensajes del protocolo

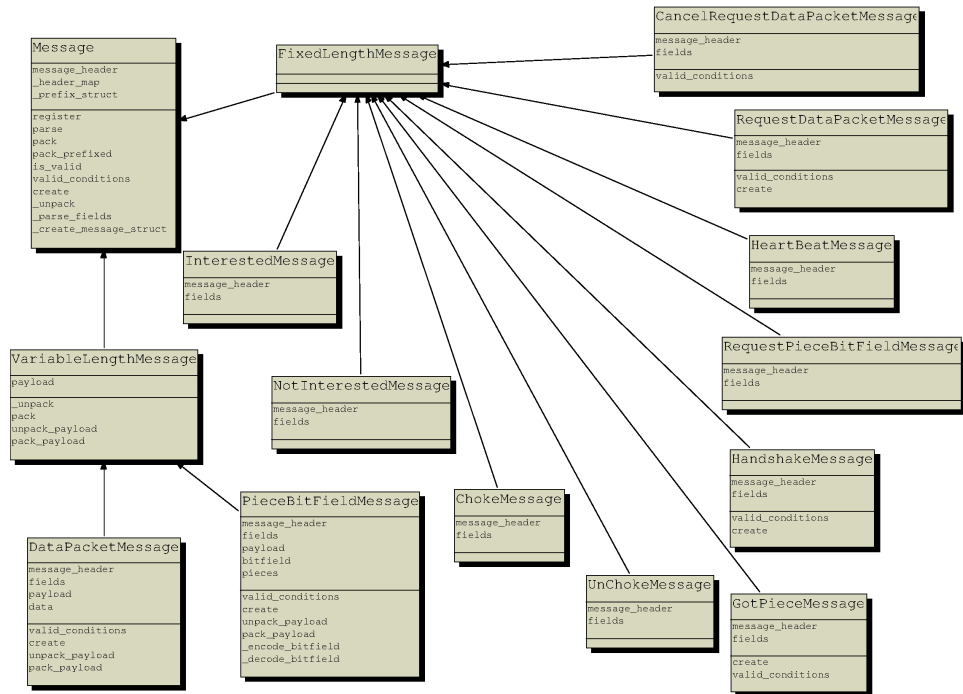


Figura A.4: Modelo de los mensajes en Pixstream

A.5. Gestor de conexiones

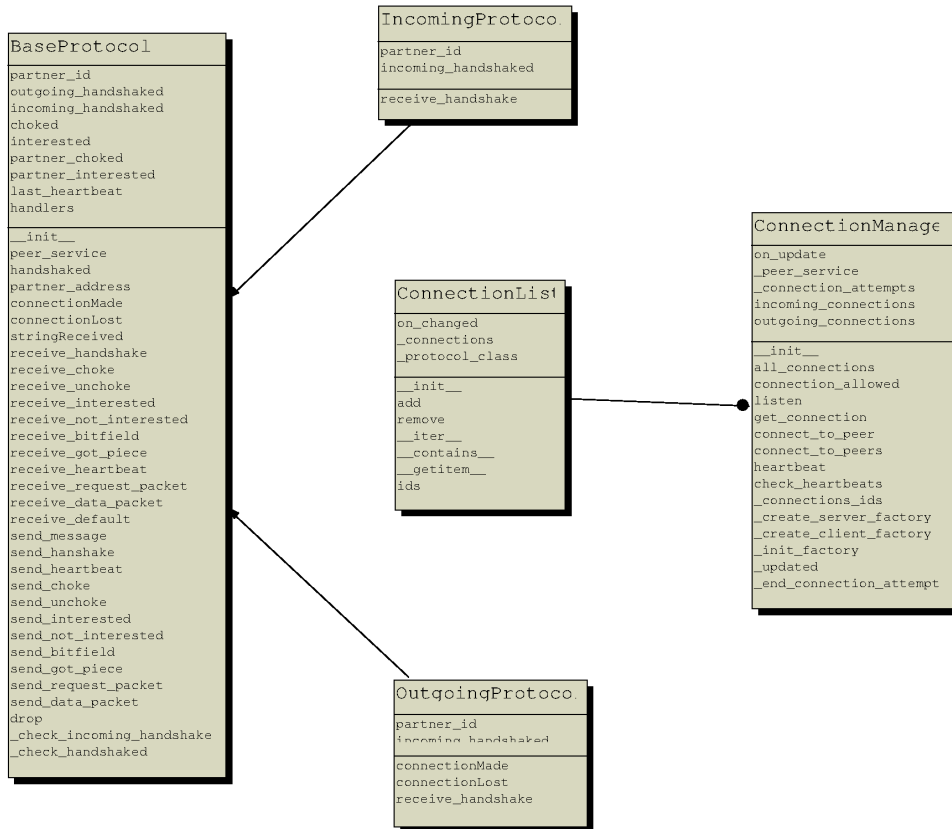


Figura A.5: Modelo del gestor de conexiones

Anexo B

Revisiones de la implementación

A continuación se describen todas las revisiones del sistema de control de versiones que se usó para la implementación de Pixtream.

Changeset	Fecha	Descripción
164 bfd27e7ef061	2010-01-04 16:56	README updated
163 174ebd3bdf35	2009-12-04 22:07	Added latex documentation generation for the protocol
162 bcf03a5ff35a	2009-12-01 14:52	Added HeartBeat message sending and receiving
161 8ac083e8cc41	2009-11-30 14:43	Changed default value of tracker interval
160 b47ad931764a	2009-11-26 22:15	Tracker Manager refactored. Added utility reporting
159 b2ccec67d280	2009-11-26 22:14	Fixed bugs with utility reporting
158 4f436fc5b682	2009-11-23 17:00	Updated to manage utility factor and changed announce url
157 65d462020f53	2009-11-23 16:55	Removed unused import
156 7398eaa6e11d	2009-11-20 23:01	Added utilitmanager and utility factor calculation
155 21d42679878b	2009-11-20 19:55	Implemented a rarest first algorithm for requesting pieces
154 d806338c7267	2009-11-20 19:55	using http server by default
153 57ca74162fb0	2009-11-20 11:22	Added FileStreamServer class

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Changeset	Fecha	Descripción
152 b49df89e69b1	2009-11-20 10:56	Now using server starting methods from peer-application module
151 dd67bdbfd55b	2009-11-20 10:56	Added server starting methods
150 50248d74574b	2009-11-20 10:55	Removed create stream server.
149 efab820ec22f	2009-11-20 10:55	Added HTTPStreamServer to the all list
148 6a376e9f376e	2009-11-17 14:43	Some refactorings. Added HTTPStreamServer
147 c95279179e87	2009-11-14 12:31	Updated scrips to use multiple sources
146 de0e040c48ef	2009-11-14 12:31	Fixed some typos with the TCPStreamClient
145 7836e3d19f6c	2009-11-12 23:36	Updated to the new stream client creation in PeerService
144 6b9724e375fd	2009-11-12 23:36	Updated StreamClient creation. Added attach stream client method
143 fda8be470d6d	2009-11-12 23:25	Testing using FileStreamClient
142 a9dbc4d8eba3	2009-11-12 23:24	Added FileStreamClient
141 ab8be99a215b	2009-11-12 23:24	Added TODO Note
140 bfd27f19fd1e	2009-11-12 22:47	HTTPStreamDownloader is now private. Added HTTPStreamClient to all
139 6c8dc718258f	2009-11-12 22:45	API adjustments changes
138 01d61f9fbae6	2009-11-12 22:45	Added HTTPStreamDownloader and HTTPStreamClient. Changed the API of StreamClient
137 ad058d324e61	2009-11-12 20:34	Updated HTTP downloader test. Now it uses a simple HTTPClientFactory
136 d1bc366d4813	2009-11-05 14:59	Added some TODO notes
135 597eb56329f3	2009-10-28 16:18	Added http downloader and server
134 d5804bbdc33a	2009-09-18 16:05	Added get pieces to send to piece manager.
133 5b07b3058ba9	2009-09-18 16:04	Changed small debug message
132 218e81f652c7	2009-09-18 15:11	Removed unused import
131 0189257c5000	2009-09-16 14:59	Fixed typos of previous changes
130 21cb06e8d337	2009-09-16 14:42	peer service.partner got pieces renamed to partner bitset

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Changeset	Fecha	Descripción
129 271cc16f55b9	2009-09-16 14:42	peer service.partner got pieces renamed to partner bitset
128 77e11cbe35b8	2009-09-14 22:24	Fixed changed method name in peerservice.py
127 4131ed11eead	2009-09-14 22:24	Removed unused import
126 3c7e6962aaea	2009-09-14 22:24	Some refactorings
125 7759518ff967	2009-09-14 15:26	Added all listing to all modulos
124 0859c4ec2716	2009-09-09 15:20	README Updated
123 e29442ad39c4	2009-09-09 00:03	Added additional test for bitfieldmessage
122 dff7f99a563e	2009-09-09 00:03	Changed validate method on BitFieldMessage. Fixed bug
121 949111fa21c9	2009-09-09 00:03	Added support for DataPacketMessage
120 6975497b9cbc	2009-09-09 00:02	Added piece information methods
119 808c07763699	2009-09-09 00:02	Added scheduler repeater
118 4dc371b958be	2009-09-09 00:02	Added listening information print
117 b1b92ea0642a	2009-09-08 14:41	Fixed bug with trickle parameter
116 d8724762ad62	2009-09-08 14:17	Added missing create classmethod in RequestDataPacketMessage
115 828b69e410c0	2009-09-08 14:16	Added Support for DataRequestPacket in protocol.py
114 eff0bf85f8bc	2009-09-08 14:16	Added peer logic repeater as a scheduler to PeerService
113 9a79f168e8f2	2009-09-08 14:15	Added get connection to ConnectionManager and contains and getitem in ConnectionList
112 15bc5a3160fe	2009-09-07 17:26	Added most wanted piece and best partner by peer methods to PieceManager
111 28db9116f4fa	2009-09-05 11:13	Updated .hgignore to add output files
110 1e2df03293bc	2009-09-05 11:13	Added missing file piecemanager
109 1f74bf203ee5	2009-09-01 13:43	Fixed bug in connectionLost
108 e45eb1c65fbb	2009-09-01 13:43	Improved end connection attempt in client factory
107 16d3a5ee6f34	2009-09-01 13:42	Added broadcasting of got piece message to all connections when a packet arrives

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Changeset	Fecha	Descripción
106 a7063d444f1c	2009-09-01 12:58	Added support for checking connection attempts
105 26da9db154a5	2009-09-01 10:13	Removed dependency of PeerService
104 1dab66378fe4	2009-09-01 10:13	Created receivers for each message
103 d1c144673a4e	2009-09-01 10:13	Updated to match with changed in connectionmanager.py
102 9027d7d58585	2009-09-01 10:12	Refactored. Removed unneeded dependencies. Improved connection lists
101 02fca47c5728	2009-07-29 02:11	Fixed output of launchpeers.py
100 e6107fd95c6e	2009-07-29 01:14	Added support for peer source and media server
99 21c6d1665a68	2009-07-29 01:14	Improved logging format
98 530faf8175d3	2009-07-29 01:14	Fixed bug with wrong validation of handshake message
97 962bb0d8f12d	2009-07-29 01:13	Fixed bug with wrong logging parameter
96 0978ab003384	2009-07-28 01:49	Added new manual test to create tracker and multiple peers automatically
95 76c8057a4728	2009-07-28 01:49	Fixed bug with empty bitfield messages
94 d4aa94bb5717	2009-07-28 01:41	Added process ID to the logging format
93 e47b5e38e60c	2009-07-28 01:41	Fixed bug using prefixed pack instead of pack prefixed and wrong message class in send bitfield
92 c7395e1c54f4	2009-07-28 01:40	Added a small debug print in peer id generation
91 768cf4dc7d29	2009-07-28 01:39	Fixed small bug with factory.get sequences creation
90 aa8b60cc1b10	2009-07-28 01:38	Updated path to /src in /bin scripts
89 e0bd19bb042e	2009-07-28 01:38	deleted unittests from tests
88 6e0cf14b1beb	2009-07-27 21:23	tests/manualtests folder created
87 6efd03a3f77b	2009-07-27 21:20	tests/unittests directory created.
86 a008043133b8	2009-07-27 21:15	Launchers in /bin renamed
85 29d3918d78ea	2009-07-27 15:08	Added CancelRequestDataPacket to specs.py

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Changeset	Fecha	Descripción
84 e3f0e2ee8dfa	2009-07-27 12:34	Added RequestDataPacketMessage and RequestPieceBitFieldMessage to specs.py
83 96e96b0ffd4e	2009-07-27 12:12	Added sequences property and update sequences to Joiner
82 2a0bf18851f3	2009-07-27 11:46	Added TODO notes to various files
81 0eaca1884d2b	2009-07-27 01:13	Updated splitterjoiner test and messages test
80 dc39f2bcbfa3	2009-07-27 01:12	Added base stub for create() class method in Message
79 66d3f8ca7237	2009-07-27 01:12	Fixed bugs from using old names
78 a71f66df320c	2009-07-27 01:11	Added HeartBeatMessage, ChokeMessage, UnChokeMessage, InterestedMessage, NotInterestedMessage, GotPieceMessage, PieceBitFieldMessage classes
77 fef8287a9a96	2009-07-26 16:48	Updated specs.py and splitter.py to complete splitter joiner test
76 1348c5723102	2009-07-26 16:47	streamclient test renamed to splitterjoiner test.py
75 61595785b512	2009-07-26 16:46	Updated test
74 f93652658027	2009-07-26 16:04	Pixtream package moved to src folder
73 e2db27f3f190	2009-07-22 00:24	Added joiner and stream server member to PeerService
72 5f92ba27af17	2009-07-22 00:23	Added streamserver.py a small stream server that every peer has
71 51d7f8598be2	2009-07-22 00:18	Fixed bugs regarding previous renamings in joiner.py and splitter.py
70 c61ccddd4a66	2009-07-22 00:16	create client factory renamed to create factory.
69 f1ba7b5897b2	2009-07-22 00:15	feed stream renamed to push stream
68 b4e2b9e1b6e5	2009-07-22 00:14	get stream renamed to pop stream. Using double quotes for module documentation
67 ee29dc9eb9fc	2009-07-21 15:41	Added test for pixtream.peer.gtkui.gtkbuilder
66 8e0471eb975f	2009-07-21 15:40	Added pixtreampeergui to call the peer gui
65 3ff303ec20b0	2009-07-21 15:40	added pixtream.peer.gtkgui package.

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Changeset	Fecha	Descripción
64 820e83bdd944	2009-07-21 15:39	Default value for peer id added
63 1f0d43844a49	2009-07-21 12:04	PeerService now expose two events: on peers update and on tracker update
62 227e477e4c91	2009-07-21 12:02	Removed unused import
61 dad2d31395eb	2009-07-20 18:55	added scriptutils module for option parser and logging options. Moved functions from pixtream.peer.peer to scriptutils
60 cabad6590b4f	2009-07-20 18:20	Tracker manager now uses pixtream.utili.event Events
59 74b77d9781e6	2009-07-16 02:30	Added streamclient test
58 ad46ddf2a336	2009-07-16 02:30	Added streamclient module for getting a stream from a traditional streaming server
57 16b6aebee3db	2009-07-16 02:29	Added event module for event-callback handling
56 863478685072	2009-07-16 02:29	Added DataPacketMessage class
55 1b5127229a97	2009-07-16 02:28	Added a joiner module. It recomposes a stream from different packets
54 4531ab8e6e59	2009-07-16 02:26	Added splitter.py module. It splits an stream in pixtream packets.
53 88f17e0963f3	2009-07-11 16:34	Updated documentation
52 d6a3a0fbf5d9	2009-07-11 16:26	Added a pylint check script
51 788d62284737	2009-07-11 16:25	Added a prefixed sender tester
50 b3c03407b49c	2009-07-11 16:25	Updated documentation for all modules
49 87d181f27b74	2009-07-11 16:14	Updated docstrings of all modules
48 e3720fda4976	2009-07-02 01:06	PixtreamProtocol renamed and splited in IncomingProtocol and OutgoingProtocol
47 d92c0ef14521	2009-07-01 21:43	Peers now contact each other
46 66a452cd6300	2009-07-01 00:23	Added connectionmanager.py and serverfactory.py
45 2b27e7f39c61	2009-06-30 15:33	generate peer id() integrated into PeerService class
44 0c6caa54fe06	2009-06-25 16:52	Updated python path discovery in bin/pixtreampeer and bin/pixtreamtracker

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Changeset	Fecha	Descripción
43 9e77e01e96c6	2009-06-24 03:13	Added peerdatabase.py for managing collections of peers
42 7a52413693d5	2009-06-24 01:56	Added identity test
41 7a466a57fa64	2009-06-24 01:55	added available peers updated() method
40 ae702c1fe09e	2009-06-24 01:55	Added handshake handling
39 5d5e4f803b9c	2009-06-24 01:54	Added Peer class. Added update peers method
38 8b8287a1a3c3	2009-06-23 23:18	Updated test for messages module
37 0c8b12756514	2009-06-23 23:18	The entire module rewritten.
36 aae63d837c63	2009-06-23 20:01	protocols.py renamed to protocol.py
35 2747f557769b	2009-06-23 17:45	Fixed route for calling the script
34 7f68e2b16ce7	2009-06-23 17:45	Added logging configuration and quit instructions
33 eacc03de00bf	2009-06-23 17:45	using start now() instead of start() for the repeater
32 3d220707a68d	2009-06-23 17:44	start method changed for start now and start later to control when the repeater starts.
31 0d9160f2dfb7	2009-06-23 17:43	Decoding process now takes in count unicode strings
30 01ab8c8f6135	2009-06-23 17:41	Added logging configuration and quit instructions
29 e777c695495f	2009-06-23 00:44	Added pixtreampeer bin launcher
28 f62c010ddc55	2009-06-23 00:44	Added a 10 seconds extra timeout
27 91ffbbbc3a8b	2009-06-23 00:43	Improved tracker response parsing
26 707ca9fb8d39	2009-06-23 00:42	generate peer id is now a separate function
25 5266529fd022	2009-06-23 00:41	Tracker url is not an option anymore. Improved args parsing.
24 f11963557fcf	2009-06-22 18:16	Updated to use absolute package names
23 2ed98288cb84	2009-06-22 18:15	Changed unused vars with ' '
22 6529b783bade	2009-06-22 18:14	Added protocols.py for the twisted protocols of the pixtream peer
21 54c81c6062d0	2009-06-22 18:10	Added peer.py and peerservice.py
20 c4dcb81fea53	2009-06-22 17:57	using absolute import for handle exception

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ANEXO B. REVISIONES DE LA IMPLEMENTACIÓN

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Changeset	Fecha	Descripción
19 c4b47dda62c3	2009-06-22 17:57	Tests updated to the new directory tree
18 84b7060ae503	2009-06-22 15:25	peermanager don't use config.peer time out, use self.ping timeout instead
17 ee204a2fd130	2009-06-22 15:24	Added bin directory to place programs. Added tracker
16 442891052eb6	2009-06-22 14:58	pixtream/util/util.py renamed to exceptions.py
15 b23584d19ab7	2009-06-22 14:46	Moved messages.py, trackermanager.py to peer package
14 8e0fc6bd7e0d	2009-06-22 14:43	Added peer and util packages
13 81180216279f	2009-06-22 02:02	Moved all the code for pixtream to the pixtream package except for the tests
12 5c80a70d6d57	2009-06-22 02:00	Added new pixtream package where all pixtream code will live
11 b8b4378e6c78	2009-06-22 01:58	Tracker splited in four modules: tracker.py, resource.py, peermanager.py and
10 7f09d1dfddae	2009-06-21 02:32	Added trackermanager.py
9 2973dd49e39f	2009-06-21 02:29	Removed all TwistedTimer class
8 9f24ae0d49bc	2009-06-21 02:22	Added documentation to twistedrepeater.py
7 c0282a91f80b	2009-06-21 01:58	Added the option for None seconds
6 5395a0180898	2009-06-20 23:57	TwistedTimer renamed to TwistedRepeater
5 ef3e76d2b5d3	2009-06-20 22:48	Added twistedtimer module
4 3af630d6a389	2009-06-16 23:01	Added test cases file for util.py
3 3be605bdd7d9	2009-06-16 23:00	Added util module with utility functions.
2 bd44b911136d	2009-06-16 00:33	Added messages.py filer: It decodes and encodes pixtream protocol messages
1 a8e618d0c02e	2009-06-15 20:44	Added an initial tracker
0 985debb41f8c	2009-06-15 20:44	Respository creation. Added a simple hignore file

Cuadro B.1: Revisiones de mercurial