



Don Best Sports API

version 2
Sept 2012

Getting started with the Don Best API

Basic orientation for general API knowledge.

The Don Best API consists of two parts: one **RESTful API** and a **Streaming Message API**. The Don Best RESTful API allow developers to access current contest and lines information. The REST API does not allow access to historical data. If you require archived data please direct your enquiry to feeds@donbest.com

The **Streaming API** provides near real-time high-volume access to line changes. It is implemented using Apache activeMQ (<http://activemq.apache.org/>).

We try to disclose all current defects and enhancements to our clients as soon as possible. The API is updated regularly with new features and more in-depth content. Please visit <http://xml.donbest.com/v2/faq> for updated information on releases on current issues.

Note: The Don Best Sports API exposes identifiers for uniquely identifiable objects such as Events, Teams and Sports Books. These IDs should always be treated as opaque strings, rather than integers of any specific type. The format of the IDs can change over time, so relying on the current format may cause you problems in the future.

Rotation Numbers:

Rotation numbers are issued by Don Best. They comprise a numbering scheme used by most Sports Books in the North American Market. They define the participants of a contest such that bettors and purveyors can easily refer to the same contest. Typically the away team's rotation number is an odd value. Rotation Numbers are not unique over the course of a season. They are however unique to the current schedule view.

Display Lines:

A shorthand combination of the values from Money Line, Point Spread, Total. Values are URL encoded.

18½u15
3-30

<Total overPrice="-105" points="18.5" underPrice="-115"/>

18½u15 18½ = 18.5 total points

18½u15 u15 = underPrice "-115" from total (note you abbreviate -115 by showing without the minus the overprice is implied to balance the under)

<Spread awayPoints="3.0" awayPrice="+110" homePoints="-3.0" homePrice="-130"/>

3-30 3 = -3 homePoints (home has to win by 3)

3-30 -30 = homePrice -130

RESTful API

Authentication

API usage is rate limited based on your account with limits to protect the speed and integrity of our system. Users of the REST API generate a token which is appended to requests.

Generate a token: <http://xml.donbest.com/v2/token>

You should already have a username, password and a valid account. Modify the IP to match the location of your application.

User Name:	<input type="text"/>
Password:	<input type="password"/>
I.P. Address:	<input type="text"/>
Token:	<input type="text"/>

Signing Requests

Simply add the following GET variable to your request string. To be successful a request must originate from the same IP as was used to generate the token.

`/?token= [token]`

Note: You must have a "/" before GET variables.

Last Query Time

The optional lastquery GET variable can be used to filter the response by timestamp. See the appendix for methods which use the lastquery parameter.

Dates and Times

All date strings are in UTC time. In order to calculate the time from your local time zone apply base calculations against UTC.

"UTC" is Universal Time (formerly called "Greenwich Mean Time"); "Z" is Universal Time. "A" indicates one hour earlier, and "M" indicates 12 hours earlier; "N" is one hour later, and "Y" is 12 hours later. The letter "J" is not used. The other remaining two forms are taken from ANSI standard X3.51-1975. One allows explicit indication of the amount of offset from UTC; the other uses common 3-character strings for indicating time zones in North America.

`2012-09-14T16:50:40+0`

Take Down Lines

Occasionally due to changes in the Event time or roster Sports Books wish to take down their line for a particular game. Lines which have been taken down are discernible in the RESTful xml feed by having them not appear in the current line summary, you can tell that the line has been taken down because it will still be present in the previous line collection.

If you are using the streaming API you will receive a Take Down Message, see below.

Request Examples

Current Schedule

[http://xml.donbest.com/v2/schedule/?token=\[token\]](http://xml.donbest.com/v2/schedule/?token=[token])

A lighter version without defining links to other elements:

[http://xml.donbest.com/v2/schedule_lte/?token=\[token\]](http://xml.donbest.com/v2/schedule_lte/?token=[token])

Odds / Lines

[http://xml.donbest.com/v2/odds/\[league id\]?token=\[token\]](http://xml.donbest.com/v2/odds/[league id]?token=[token])

[http://xml.donbest.com/v2/odds/\[league id\]/\[event id\]?token=\[token\]](http://xml.donbest.com/v2/odds/[league id]/[event id]?token=[token])

Examples

All NFL:

[http://xml.donbest.com/v2/odds/1/?token=\[token\]](http://xml.donbest.com/v2/odds/1/?token=[token]) or

[http://xml.donbest.com/v2/odds/NFL/?token=\[token\]](http://xml.donbest.com/v2/odds/NFL/?token=[token])

A particular game:

[http://xml.donbest.com/v2/odds/1/\[event id\]?token=\[token\]](http://xml.donbest.com/v2/odds/1/[event id]?token=[token]) or

[http://xml.donbest.com/v2/odds/NFL/\[event id\]?token=\[token\]](http://xml.donbest.com/v2/odds/NFL/[event id]?token=[token])

Using Last Query Time:

[http://xml.donbest.com/v2/odds/NFL/\[event id\]?token=\[token\]&lastquery=2011-05-13T17:58:25+0](http://xml.donbest.com/v2/odds/NFL/[event id]?token=[token]&lastquery=2011-05-13T17:58:25+0)

Scores

[http://xml.donbest.com/v2/score/?token=\[token\]](http://xml.donbest.com/v2/score/?token=[token])

A particular game

[http://xml.donbest.com/v2/score/\[event id\]?token=\[token\]](http://xml.donbest.com/v2/score/[event id]?token=[token])

Event State

[http://xml.donbest.com/v2/event_state/?token=\[token\]](http://xml.donbest.com/v2/event_state/?token=[token])

More examples:

[http://xml.donbest.com/v2/examples/?token=\[token\]](http://xml.donbest.com/v2/examples/?token=[token])

RESTful Feeds Overview

Schedule

The schedule feeds contain upcoming scheduled competitions and propositions for the next several days. These feeds do not contain competitions that have already been played prior to the current day.

Competition and Proposition are nested in a hierarchy of Sport -> League -> Grouping -> event / proposition

URL: /current_schedule or /schedule

Formats: xml

Parameters: none

Objects and elements:

sport

name	Notes	description
sport	General sport classification football, baseball, basketball etc.	id : @int unique sport identifier name : @string sport name dictionary url : /sport/
league	League classification NFL, MLB, NBA etc.	id : @int unique league identifier name : @string league name dictionary url : /league/
group	Descriptive container for a series of events. e.g. NFL - WEEK 2 - Sunday, September 16th	id : @int unique league identifier name : @string group text
event	Event Object	id : @int unique sport identifier season: @string season identifier date: @date game start name: @string participants names event_type: string event prop neutral: bool denotes no home team
event : location	Location Object	id : @int unique location identifier name : @string stadium name dictionary url : /location/
event : participant	Participant Object	rot : @int rotation number id side : @string away home

name	Notes	description
participant : team	Team Object	id : @int unique team identifier name : @string team name dictionary url : /team/
participant : pitcherChanged	Describes whether the pitcher has changed for this MLB team.	bool * MLB only
participant : pitcher	Pitcher Object	hand : @string RIGHT LEFT id : @int unique identifier name : string *MLB only

Sample Response (truncated):

```
<don_best_sports>
  <title>Don Best Schedule</title>
  <date>20120914</date>
  <link>http://xml.donbest.com/v2/schedule</link>
  <id>schedule</id>
  <updated>2012-09-14T22:01:00+0</updated>
  <schedule>
    <sport id="1" name="Football" link="http://xml.donbest.com/v2/sport/1">
      <league id="2" name="Ncaaf div I-A" link="http://xml.donbest.com/v2/league/2">
        <lines>
          <current link="http://xml.donbest.com/v2/odds/2" />
          <open link="http://xml.donbest.com/v2/open/2" />
          <close link="http://xml.donbest.com/v2/close/2" /></lines>
        <group id="127242" name="COLLEGE FOOTBALL - Friday, September 14th">
          <event id="212489" season="REGULAR" date="2012-09-15T01:00:00+0"
            name="Washington State vs UNLV">
            <event_type>team_event</event_type>
            <event_state>PENDING</event_state>
            <time_changed>>false</time_changed>
            <neutral>>false</neutral>
            <location name="Sam Boyd" id="246"
              link="http://xml.donbest.com/v2/location/246" />
            <participant rot="105" side="AWAY">
              <team id="101" name="Washington State"
                link="http://xml.donbest.com/v2/team/101" />
            </participant>
            <participant rot="106" side="HOME">
              <team id="123" name="UNLV" link="http://xml.donbest.com/v2/team/123" />
            </participant>
            <lines>
              <current link="http://xml.donbest.com/v2/odds/2/212489" />
              <opening link="http://xml.donbest.com/v2/open/2/212489" />
            </lines>
            <score link="http://xml.donbest.com/v2/score/212489" />
          </event>
        </group>
        . . .
      </schedule>
    </sport>
  </don_best_sports>
```

Scores

The scores feed contain the state of the live competition, current scores and period summary. We ensure that our period scores are correct without using 3rd party providers which means our scores are live and accurate. Score samples vary by sport see appendix for more examples.

URL: /score

Formats: xml

Parameters: optional event id

Usage examples:

[http://xml.donbest.com/v2/score/?token=\[token\]](http://xml.donbest.com/v2/score/?token=[token])

Score for a particular event:

[http://xml.donbest.com/score/149080/?token=\[token\]](http://xml.donbest.com/score/149080/?token=[token])

Score for a particular league:

[http://xml.donbest.com/v2/score/NFL/?token=\[token\]](http://xml.donbest.com/v2/score/NFL/?token=[token])

*NOTE you must use the league abbreviation string to query specific league scores

name	Notes	description
event	Event Object	id : @int unique event ID league_id : @int unique league ID away_rot: @int Away Team game ID home_rot: @int Home Team game ID
event : current_score	Current Score Node	away_score : @int away side score home_score : @int home side score description : timer : period : period_id :
current_score : period_summary	Period Summary Object	
period_summary: period	Period Score Container	name : @string description : @string time : @date time period_id : @int
period : score	Score Element	rot : @int value: @int score

Sample Response (truncated):

Tennis 2 Sets

```
<event id="224245" league_id="12" away_rot="4001" home_rot="4002">
  <current_score away_score="6" home_score="1" description="FINAL" time="2012-09-18T17:28:45+0" peri-
od="Set 2" period_id="332" />
  <period_summary>
    <period name="Set 1" description="" time="2012-09-18T20:05:18+0" period_id="331">
      <score rot="4001" value="7" />
      <score rot="4002" value="6" />
    </period>
    <period name="Set 2" description="" time="2012-09-18T20:05:18+0" period_id="332">
      <score rot="4001" value="6" />
      <score rot="4002" value="1" />
    </period>
  </period_summary>
</event>
```

Tennis 3 Sets

```
<event id="224262" league_id="12" away_rot="4103" home_rot="4104">
  <current_score away_score="5" home_score="7" description="FINAL" time="2012-09-18T13:21:24+0" peri-
od="Set 3" period_id="333" />
  <period_summary>
    <period name="Set 1" description="" time="2012-09-18T20:05:18+0" period_id="331">
      <score rot="4103" value="3" />
      <score rot="4104" value="6" />
    </period>
    <period name="Set 2" description="" time="2012-09-18T20:05:18+0" period_id="332">
      <score rot="4103" value="6" />
      <score rot="4104" value="3" />
    </period>
    <period name="Set 3" description="" time="2012-09-18T20:05:18+0" period_id="333">
      <score rot="4103" value="5" />
      <score rot="4104" value="7" />
    </period>
  </period_summary>
</event>
```

Tennis Retire

```
<event id="224229" league_id="12" away_rot="4801" home_rot="4802">
  <current_score away_score="3" home_score="4" description="RET" time="2012-09-18T10:26:25+0" peri-
od="WIN" period_id="RET" />
  <period_summary>
    <period name="Set 1" description="" time="2012-09-18T20:33:44+0" period_id="331">
      <score rot="4801" value="3" />
      <score rot="4802" value="3" />
    </period>
    <period name="WIN" description="RET" time="2012-09-18T20:33:44+0" period_id="">
      <score rot="4801" value="3" />
      <score rot="4802" value="4" />
    </period>
  </period_summary>
</event>
```


Soccer

```
<event id="224068" league_id="9" away_rot="26121" home_rot="26122">
  <current_score away_score="1" home_score="0" description="89:00" time="2012-09-18T21:31:54+0" peri-
od="2nd H" period_id="241" />
  <period_summary>
    <period name="1st H" description="45:00" time="2012-09-18T20:33:44+0" period_id="240">
      <score rot="26121" value="1" />
      <score rot="26122" value="0" />
    </period>
    <period name="2nd H" description="89:00" time="2012-09-18T20:33:44+0" period_id="241">
      <score rot="26121" value="0" />
      <score rot="26122" value="0" />
    </period>
  </period_summary>
</event>
```

Lines

Lines feed contains current odds set by market making Sports Books for major North American and European sports.

URL: /odds ; /open ; /close

Formats: xml

Parameters:

- League - league id or abbreviation
- Event - optional event id
- lastquery - optional last timestamp filter. &lastquery=2010-12-10 14:45:58.953

Usage Examples:

xml.donbest.com/v2/odds/[**league id**]/[**optional eventID**]/?token

xml.donbest.com/v2/open/[**league id**]/[**optional eventID**]/?token

xml.donbest.com/v2/close/[**league id**]/[**optional eventID**]/?token

```
<don_best_sports>
<title>Don Best Scores</title>
<link>http://xml.donbest.com/feeds</link>
<id>current_lines_5</id>
<updated>2011-05-13T20:53:29+0</updated>
  <event id="160393" date="2011-05-14T01:40:00+0">
    <line away_rot="963" home_rot="964" time="2011-05-13T19:43:35+0" period_id="1" period="FG" type="prev-
ious" sportsbook="347">
      <money away_money="152" home_money="-167" draw_money="0"/>
      <ps away_spread="1.5" away_price="-145" home_spread="-1.5" home_price="+125"/>
      <total total="8.5" over_price="-110" under_price="-110"/>
      <display away="8%BD" home="-167"/>
    </line>
    <line away_rot="963" home_rot="964" time="2011-05-13T19:46:37+0" period_id="1" period="FG" type="cu-
rrent" sportsbook="347">
      <money away_money="154" home_money="-169" draw_money="0"/>
      <ps away_spread="1.5" away_price="-145" home_spread="-1.5" home_price="+125"/>
      <total total="8.5" over_price="-110" under_price="-110"/>
      <display away="8%BD" home="-169"/>
    </line>
    <line away_rot="963" home_rot="964" time="2011-05-13T20:13:51+0" period_id="2" period="1H" type="prev-
ious" sportsbook="347">
      <money away_money="147" home_money="-167" draw_money="0"/>
      <ps away_spread="0.5" away_price="-105" home_spread="-0.5" home_price="-115"/>
      <total total="4.5" over_price="-110" under_price="-110"/>
      <display away="4%BD" home="-167"/>
    </line>
    <line away_rot="963" home_rot="964" time="2011-05-13T21:06:35+0" period_id="2" period="1H" type="cu-
rrent" sportsbook="347">
      <money away_money="150" home_money="-170" draw_money="0"/>
      <ps away_spread="0.5" away_price="-105" home_spread="-0.5" home_price="-115"/>
      <total total="4.5" over_price="-110" under_price="-110"/>
      <display away="4%BD" home="-170"/>
    </line>
    <line away_rot="963" home_rot="964" time="2011-05-13T18:12:57+0" period_id="3" period="2H" type="cu-
rrent" sportsbook="347">
      <money away_money="-105" home_money="-115" draw_money="0"/>
      <ps away_spread="0.0" away_price="-110" home_spread="0.0" home_price="-110"/>
      <total total="3.5" over_price="105" under_price="-125"/>
      <display away="3%BDu25" home="-115"/>
    </line>
  </event>
  ...
</don_best_sports>
```

Event State

Lists the status of events when they are not "pending".

URL: /odds ; /open ; /close

Formats: xml

Parameters:

- League - league id or abbreviation
- Event - optional event id
- lastquery - optional last timestamp filter. &lastquery=2010-12-10 14:45:58.953

Usage Examples:

xml.donbest.com/v2/odds/[**league id**]/[**optional eventID**]/?token

xml.donbest.com/v2/open/[league id]/[optional eventID]/?token

xml.donbest.com/v2/close/[league id]/[optional eventID]/?token

Auto-generate Token

Allows users to generate new tokens via the API. Note this token will be bound to the API from which it was created.

URL: /auto_token

Formats: xml

Parameters:

- un - api user name
- pw - api password

Usage Examples:

[http://xml.donbest.com/v2/auto_token/?un=\[username\]&pw=\[password\]](http://xml.donbest.com/v2/auto_token/?un=[username]&pw=[password])

Successful request:

```
<don_best_sports>
  <title>Don Best Generate Token</title>
  <token status="true" ip="10.0.0.146">_wIPiIxaclx67-!-</token>
</don_best_sports>
```

Failed request:

```
<don_best_sports>
  <title>Don Best Generate Token</title>
  <token status="false" ip="10.0.0.146">failed</token>
</don_best_sports>
```

Look Up Feeds

Location

A list of Stadium and Arenas for all competitions in our schedule feed.

Sample Request: [http://xml.donbest.com/v2/location/?token=\[token\]](http://xml.donbest.com/v2/location/?token=[token])

Sport

A list of Sports covered by Don Best Sports

Sample Request: [http://xml.donbest.com/v2/sport/?token=\[token\]](http://xml.donbest.com/v2/sport/?token=[token])

League

A list of Leagues covered by Don Best Sports

Sample Request: [http://xml.donbest.com/v2/league/?token=\[token\]](http://xml.donbest.com/v2/league/?token=[token])

Team

A list of Teams covered by Don Best Sports

Sample Request: [http://xml.donbest.com/v2/team/?token=\[token\]](http://xml.donbest.com/v2/team/?token=[token])

Sports Books

A list of Sports Books covered by Don Best Sports

Sample Request: [http://xml.donbest.com/v2/sportsbook/?token=\[token\]](http://xml.donbest.com/v2/sportsbook/?token=[token])

Http Status Codes

200 OK: Success!

400 Bad Request: The request was invalid. An accompanying error message will explain why. This is the status code will be returned during rate limiting.

401 Unauthorized: Authentication credentials were missing or incorrect.

403 Forbidden: The request is understood, but it has been refused. An accompanying error message will explain why. This code is used when requests are being denied due to update limits.

404 Not Found: The URI requested is invalid or the resource requested, such as a user, does not exist.

500 Internal Server Error: Something is broken. Please email feeds@donbest.com so we can investigate.

503 Service Unavailable: Servers are up, but overloaded with requests. Try again later.

Streaming API

Our streaming API is based on Java Messaging System implemented by Apache ActiveMQ. Users can listen directly to our "topics" or provide an url for us to post to via http. We support Stomp & OpenWire protocols for connecting to our broker. Messages are formatted as xml strings and match the data format in our RESTful API. Line content is broken down by Sports Book to receive a particular line feed you connect directly with the topic.

Authentication

Your IP is the only thing you need to worry about when authenticating. Once you've registered and provided us with an IP you will be ready to connect.

Message Types Summary

Messages are meant to convey one piece of information at a time, where the RESTful API is made to provide more of a complete collection along with its associated information.

Line: The individual line change.

```
<line rot="225" timestamp="11-05-13T21:57:03+0000" period_id="1" period="FG" event_id="170833" sportsbook="2">
  <ml away_price="-110" home_price="-110"/>
</line>

<line rot="959" timestamp="11-05-13T21:57:06+0000" period_id="2" period="1H" event_id="160390" sportsbook="39">
  <ps away_spread="0.5" away_price="-150" home_spread="-0.5" home_price="130"/>
</line>

<line rot="977" timestamp="11-05-13T21:57:14+0000" period_id="2" period="1H" event_id="160392" sportsbook="37">
  <total total="4.0" over_price="109" under_price="-120"/>
</line>
```

Take Down: When a line has been removed by a sports book a take down message will appear.

```
<take_down event_id="160390" sportsbook_id="199" time="11-05-13T21:59:32+0000" />
```

Score: Single score element, will display only one participants current score value depending on which had been updated.

```
<score event_id="158562" time="2011-01-12T00:29:12+0" rot="4422" score="10" period="Set 3" description="10:23"
final="false" />
```

Event State: Used to convey changes to the Event including Rain Delay and Game Period Changes.

```
<event_state event_id="1234" event_state_type_id="1" event_state="PENDING" time="2011-01-12T22:47:49+0" />
```

Time Change: When an events scheduled time is changed.

```
<time_change event_id="1234" open_time="2011-01-15T21:30:00+0" time="2011-01-12T22:47:49+0" />
```

Pitching Change

```
<pitching_change event_id="234" time="2011-01-12T22:47:49+0" />
  <home pitcher_name='M Malone' pitcher_hand='right' player_id='123' />
  <away pitcher_name='S Roger' pitcher_hand='right' player_id='567' />
</pitching_change>
```

Leagues

Football

AFB (Arena Football)

NFL

CFL

NCAAF div 1-A

NCAAF div I-AA

UFL

Basketball

NBA

WNBA

WNCAAB

MNCAAB

Baseball

MLB

College Baseball

Hockey

College Hockey

NHL

Fighting

Boxing

MMA

Golf

Soccer

Argentina Primera

Brazil Serie A

English Premier League

French Ligue 1

German Bundesliga

Holland Eredivisie

Italian Series A

Mexico Primera

MLS

Spanish La Liga

UEFA Champions League

UEFA Europa League

UEFA Euro 2012

International Teams

Tennis

ATP & WTA tournaments

Auto Racing

NASCAR matchups

F1 futures

Indy 500 matchups

Note: We attempt to provide maximum coverage of period lines from major Sports Books but in order to maintain the highest quality some period lines or competitions may not be available.

Period Descriptions * used by odds

ID	NAME	ABBREVIATION
1	Game Line	FG
2	1st Half	1H
3	2nd Half	2H
4	1st Quarter	1Q
5	2nd Quarter	2Q
6	3rd Quarter	3Q
7	4th Quarter	4Q
25	First 5 Innings	F5
26	Second Innings	S5
30	1st Period	1P
31	2nd Period	2P
32	3rd Period	3P

Period Descriptions * used by scores

ID	NAME	SPORT
1	Set 1 - Set5	Tennis
2	1st Q , 2nd Q , 3rd Q, 4th Q	NFL, College Football, ArenaFootball, EuropeFootball, CanadianFootball. NBA, WNBA
3	OT1 - OT2	NFL, College Football, ArenaFootball, EuropeFootball, CanadianFootball, NBA, WNBA
4	OT3 - OT5	College Football, ArenaFootball, EuropeFootball, CanadianFootball, NBA, WNBA
5	OT6 - OT10	College Football, ArenaFootball, EuropeFootball, CanadianFootball
6	TOP / BOT : 1st - 20th	Baseball (innings)
7	1st P, 2nd P, 3rd P	NHL, College Hockey
25	OT	NHL, College Hockey
26	SO	NHL, College Hockey

Event State Descriptions * used in the schedule & event_state feeds

ID	NAME	ABBREVIATION
0	Pending	PENDING
1	started	started
2	circled	circled
3	date change	date change
4	time change	time change
5	away pitcher changed	pitching change
6	home pitcher changed	pitching change
7	halftime	halftime
8	postponed	postponed
9	suspended	suspended
10	final	final
11	rain delay	rain delay
12	cancelled	cancelled
13	second half	2nd half
14	delay	delay

Sample ActiveMQ Consumer : Java

```

import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Date;
import javax.jms.Connection;
import javax.jms.ConnectionFactory;
import javax.jms.Destination;
import javax.jms.JMSEException;
import javax.jms.MessageConsumer;
import javax.jms.Session;
import org.apache.activemq.ActiveMQConnectionFactory;
import org.apache.activemq.command.ActiveMQTextMessage;

//add activemq-all-5.5.0.jar in your classpath
public class TextMessageConsumer {

    private static DateFormat dateFormatter = new SimpleDateFormat("yyyy-MM-dd
HH:mm:ss ---> ");

    private static String url = "failover:(tcp://xml1.donbest.com:61616)";
    private static String subject = "com.donbest.message.public.heart_beat";

    public static void main(String[] args) throws InterruptedException {
        Connection connection = null;

        try {
            ConnectionFactory connectionFactory = new ActiveMQConnectionFactory(
            url);
            connection = connectionFactory.createConnection();
            connection.start();
            // Creating session for sending messages
            Session session =
            connection.createSession(false,Session.AUTO_ACKNOWLEDGE);
            // Destination destination = session.createQueue(subject);
            Destination destination = session.createTopic(subject);
            // MessageConsumer is used for receiving (consuming) messages
            MessageConsumer consumer = session.createConsumer(destination);

            while (true) {
                // cast to java TextMessage will work too
                // TextMessage message = (TextMessage) consumer.receive();

                ActiveMQTextMessage message = (ActiveMQTextMessage)
            consumer.receive();

                if (message != null) {
                    System.out.print(dateFormatter.format(new Date()));
                    System.out.println(message.getText());
                    Thread.sleep(100);
                } else {
                    break;
                }
            }

            connection.close();

        } catch (JMSEException e) {
            if (connection != null)

```

```
        try {
            connection.close();
        } catch (JMSEException e1) {
        }
    } catch (InterruptedException e) {
    }
}
}
```