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WLSLogReport

User GUIDE

*The main objective of this document is to show how to
configure and use the WLSLogReport Tool*

LOG

Last Modification

23/04/2008

History

| Revision | Date | Author | Changes |
|----------|------------|------------|-----------------|
| 1.0 | 23/04/2008 | J.FRANCOIS | Initial Version |
| | | | |

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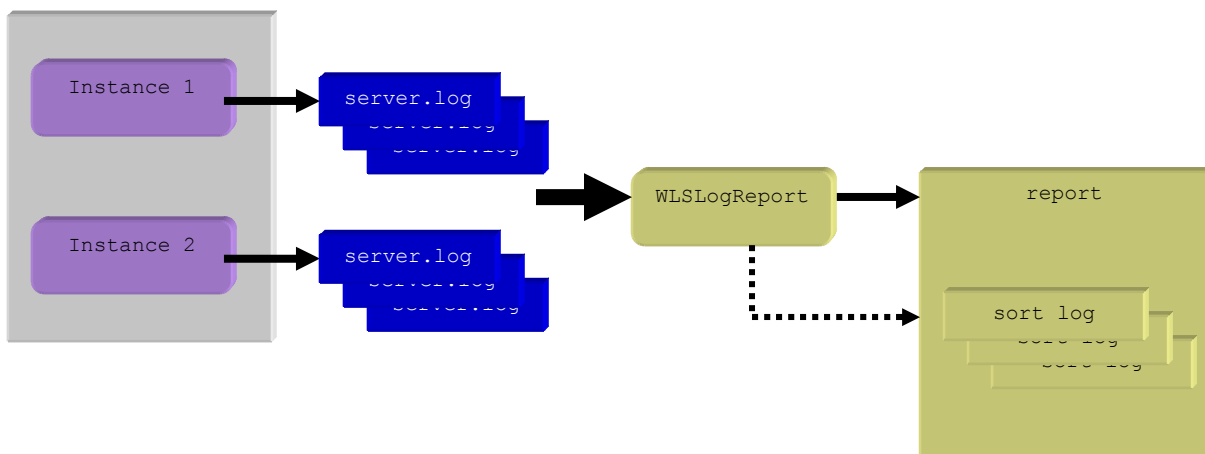
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2 OBJECTIVE

The subject of this tool is to present a synthetic report from `Weblogic` logs sorted by verbosity and by type. The main objective is to reduce the huge mass of information from the log to a brief report and focus on the problem that is exposed by those files (never used because too big). The report present:

- ✓ **The number of occurrence of a message type.**
- ✓ **A BEA message descriptif.**
- ✓ **A BEA support explantation.**
- ✓ **A detail of all occurrences from the same type (regroup in an ASCII file).**

In input, we give one or several log file or folder and we get back an output folder containing the report



3 INSTALLATION

The requirement for the installation is :

- ✓ JVM [1.4.X or later]

The tool is composed of a launch script and a JAR file containing the Java code.

| | |
|---|--------------------|
| WlsLogReport.\${WLS version}.[sh/bat] | Tool scripte |
| lib/WlsLogReport.jar | Tool code |
| doc/WlsLogReport-user guide.[FR/EN].[doc/pdf] | This documentation |
| conf/setEnv.[sh/bat] | Setup Scripte |

3.1 Tool Configuration

For the tool setup, modify the file : conf\setEnv.[sh/bat] .

| | |
|-------------------|-----------------------------|
| JAVA_HOME | JAVA directory installation |
| WLSLOGREPORT_HOME | Installation tool directory |

3.2 Lauching : WLSLogReport

The WLSLogReport.[Version WLS].[bat/sh] command take as input parameters files or directory of WLS logs to be analyzed. It can be :

- ✓ A file
- ✓ A list of files
- ✓ A directory
- ✓ A list of directory

(the separator list is a comma)

```
WlsLogReport.[bat/sh]
WlsLogReport.[bat/sh] /export/home/logs
WlsLogReport.[bat/sh] /export/home/logs/serveur1.log,/export/home/logs/serveur2.log
```

An output directory is generated including :

- ✓ A synthesis HTML file (document_root/index.html)
- ✓ An error file (document_root/error.log) containing all the untreated lines (not taken in the logs because the number of fields found in the record exceeds the number of fields waited: (perhaps due to the presence of a character < or > in the message))
- ✓ File containing the BEA ID lines (wrongID.log) not taken by the BEA support information's included in the tools.

Inside the synthesis file are presented by severity the number of message types as well as the total number of found lines.

| |
|--|
| WLS LOG REPORT |
| GENERATED ON [2008/01/31 02h44] FROM [2007/02/14 04h15] TO [2007/02/18 04h15] Version WLS V.10 |

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| [ERRORS] [WRONG ID] [EXCLUDE ID] | | |
|--|---------------|-------------------------|
| TOTAL TYPE | TOTAL MESSAGE | SEVERITY NAME |
| 1 | 1 | Warning |
| 3 | 3 | Info |
| 1 | 2 | Debug |
| 2 | 3 | Error |

Each sub directory represent a severity containing the `HTML` file gathering the message types found as well as a `CVS` format file of the same contents.

A directory (`OCC`) contains the `TXT` files gathering all the occurrences of the same type of message.

(Detail of an `HTML` file for the Severity `Error` with for each message type, The number of found occurrences', `BEA ID` and `Weblogic` information as well as support information)

| Error | |
|---|---|
| 2 | BEA-090133 |
| Subsystem | <i>Security</i> |
| Server Name Machine Name Thread ID | <i>Xaxdcz00p1jr.unedic.fr</i> |
| User | <i>crea201_x61</i> |
| Thread ID | <i>Main</i> |
| Other | |
| Transaction ID | |
| Message Text | <i>Could not load a JKS keystore from the file /applis/xdtapp/pur/wixa61/par/.certificats/xaxdcz00p1jr.jks. Exception: java.io.IOException: Keystore was tampered with, or password was incorrect</i> |
| Error | <i>Could not load a keystoreType keystore from the file pathname. Exception exception</i> |
| Description | <i>When calling the load method for the keystore, an IOException was thrown.</i> |
| Cause | <i>There is an I/O or format problem with the keystore data.</i> |
| Action | <i>Verify that the path to the keystore, the keystore type, and the password for the keystore were specified correctly. Note that some keystore types (for example, JKS) do not require a password for read-only access. Read the exception text for more help on diagnosing the problem. Reboot the server after correcting the problem.</i> |
| 1 | BEA-000297 |
| Subsystem | <i>WebLogicServer</i> |
| Server Name Machine Name Thread ID | <i>xaxdcz00p1jr.unedic.fr</i> |
| User | <i>crea201_x61</i> |
| Thread ID | <i>Main</i> |
| Other | |
| Transaction ID | |
| Message Text | <i>Inconsistent security configuration, java.lang.Exception: Cannot use SSL, no certificates have been specified in the WebLogic configuration.</i> |
| Error | <i>Inconsistent security configuration, th0</i> |
| Description | <i>The initialization of SSL failed due to an exception when loading the private key, loading the server certificates, loading the trusted CA certificates, or setting the trust validator.</i> |
| Cause | <i>An exception occurred in SSL initialization.</i> |
| Action | <i>Look at the exception in th0 for more information on diagnosing the problem.</i> |

4 ADVANCED OPTIONS

You have the possibility to modifying the tool parameter. These parameters are placed with the `JAVA` execution command.

Some options have default values. Values passed in parameter can be values :

- ✓ **Enumerated (value to be chosen in a given list).**
- ✓ **Free (for the choice of a directory)**
- ✓ **Enumerated list (multiple choices)**

```
WlsLogReport version={Weblogic version : 7/8/9/10/etc ...}
input={file/liste/directory} [output={directory}{Default=document_root}]
[after={yyyy/MM/dd hh'h'mm}] [before={yyyy/MM/dd hh'h'mm}]
[day={yyyy/MM/dd}] [exclude_ranger_houre={ [hh:mm-hh:mm]}]
[occurrence_log={true/false}{Default=true}] [percent_approximate={ [0-100]}{Default=50}] [exact_match={true/false}{Default=false}]
[debug={true/false}{Default=false}]
[DateLanguage="fr"] [DateCountry="FR"] [DateFormat="MMM dd, yyyy hh:mm:ss
aaa z"] [ExcludeIdFile={file}.id] [StackDepth={nb of stack line to
compare}]
```

4.1 version={7/8/9/10/etc}

| | |
|---------------|------------------|
| Option | <i>file</i> |
| Mode | <i>Mandatory</i> |
| Input | <i>Impose</i> |

Precise the `Weblogic` version which have produced the log file.

4.2 input={file/liste/directory}

| | |
|---------------|------------------|
| Option | <i>File</i> |
| Mode | <i>Mandatory</i> |
| Input | <i>Free</i> |

Allow to specify the input log files. That can be a single value or a list of file and directory containing WLS logs. Only WLS Log files are taken in the analysis. (BEA format).

```
file=/opt/bea/domain1/logs/serveur1/serveur.log
file=/opt/bea/domain1/logs/serveur1/serveur.log,/opt/bea/domain1/logs/serveur2/serveur.log
file=/opt/bea/domain1/logs
file=/opt/bea/domain1/logs/serveur1,/opt/bea/domain1/logs/serveur2
```

4.3 [after={yyyy/MM/dd hh'h'mm}]

| | |
|----------------------|-----------------------|
| Option | <i>after</i> |
| Mode | <i>Optional</i> |
| Input | <i>Imposed format</i> |
| Default value | <i>No</i> |

| | | |
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Allow not to take into account the lines former to the specified date. To be combine with the `before` option, but not used with the `day` option.

4.4 [before={yyyy/MM/dd hh'h'mm}]

| | |
|----------------------|-----------------------|
| Option | <i>before</i> |
| Mode | <i>Optional</i> |
| Input | <i>Imposed format</i> |
| Default value | <i>No</i> |

Allow not to take into account the posterior lines at the specified date. To be combine with the `after` option, but not used with the `day` option.

4.5 [day={yyyy/MM/dd hh'h'mm}]

| | |
|----------------------|-----------------------|
| Option | <i>day</i> |
| Mode | <i>Optional</i> |
| Input | <i>Imposed format</i> |
| Default value | <i>No</i> |

Allow to take into account only the lines of the day indicated. Invalid the options `after` and `before`.

4.6

[output={directory} {Default=document_root}]

| | |
|----------------------|----------------------|
| Option | <i>output</i> |
| Mode | <i>Mandatory</i> |
| Input | <i>Free</i> |
| Default value | <i>document_root</i> |

Allow to choose a name of directory for the generation of the final report.

```
output=/var/report
```

4.7 [occurrence_log=true/false{Default=true}]

| | |
|----------------------|-----------------------|
| Option | <i>occurrence_log</i> |
| Mode | <i>Optional</i> |
| Input | <i>true/false</i> |
| Default value | <i>true</i> |

Creation of the occurrence files under the `occ` directory.

```
Occurance_log=false
```

4.8 [percent_approximate={ [0-100] } {Default=50}]

| | |
|---------------|----------------------------|
| Option | <i>percent_approximate</i> |
| Mode | <i>Optional</i> |
| Input | <i>free</i> |
| Default value | <i>50</i> |

Allow to chose a % of comparison to carry out aggregations of BEA messages by type. This partial comparison is carried out on the field message (*stack java*, etc ...) the other key of research being the field of the BEA identifier which is an exact comparison. This option can be disconnected via the parameter *exact_match*.

```
percent_approximate=30
```

4.9 exact_match={true/false} {Default=false}]

| | |
|---------------|--------------------------------|
| Option | <i>exact_match</i> |
| Mode | <i>Optional</i> |
| Input | <i>Enumerated [true/false]</i> |
| Default value | <i>WLSLogReport.log</i> |

Allow to disconnect the comparison by approximation (the option *percent_approximate*).

```
extact_match=true
```

4.10 exclude_ranger_houre={ [hh:mm-hh:mm] }

| | |
|---------------|------------------------------------|
| Option | <i>Exclude_range_houre</i> |
| Mode | <i>Optional</i> |
| Input | <i>Enumeration [hh :mm-hh :mm]</i> |
| Default value | <i>none</i> |

Option of exclusion of a time section. In the case or one wishes not to take into account periods of time scouring per day, one it possibility of specifying one hour of beginning and end.

4.11 ExcludeIdFile={file}.id

| | |
|---------------|-----------------------------------|
| Option | <i>ExcludeIdFile</i> |
| Mode | <i>Optional</i> |
| Input | <i>File name in .id extension</i> |
| Default value | <i>none</i> |

File in which one will specify the ID of message to be excluded from the report. This option with for goal not to take into account certain error message which is already in the course of treatment, and to post only the new messages. The messages are excluded in a file from the report from name *excludeID.log*

Example of a file of excluded ID

```
BEA-149206
```

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BEA-159206
BEA-149806

4.12 StackDepth={nb of stack line to compare}

| | |
|---------------|---------------------------------|
| Option | <i>StackDepth</i> |
| Mode | <i>Optional</i> |
| Input | <i>Enumeration [true/false]</i> |
| Default value | <i>none</i> |

Specify here the number of lines of the message to be taken into account for comparison (*n* first lines). The purpose of this option is to concentrate on a part of the message in order to obtain a different sorting.

4.13 [debug={true/false} {Default=false}]

| | |
|---------------|---------------------------------|
| Option | <i>debug</i> |
| Mode | <i>Optional</i> |
| Input | <i>Enumeration [true/false]</i> |
| Default value | <i>false</i> |

Allow to post debug traces (not implemented for the moment).

```
debug=true
```

4.14 [DateFormat ="<date format>"] [DateLanguage="fr"] [DateCountry="FR"]

| | |
|---------------|--|
| Option | <i>DateFormat/DateLanguage/DateCountry</i> |
| Mode | <i>Optional</i> |
| Input | <i>Date Format</i> |
| Default value | <i>dd MMMMM yyyy hh 'h' mm z/fr/Fr</i> |

Allow to specify the `DATE` format of the log, the language and the country. These parameters are positioned in the following internal file of the tool and can be overloaded by this option in the launching script.

```
JAR/WLSLogReport.internal/${VERSION}/key.properties
MESSAGE_DATE_FORMAT=dd MMMMM yyyy hh 'h' mm z
MESSAGE_DATE_LANGUAGE=fr
MESSAGE_DATE_COUNTRY=Fr
```

US version Example

```
####<Jul 26, 2007 9:00:37 AM CEST> <Info> <WebLogicServer> <> <> <main> <> <> <>
<1185433237500> <BEA-000377> <Starting WebLogic Server with IBM J9 VM Version 2.3 from IBM
Corporation>
```

```
DateFormat ="MMM dd, yyyy hh:mm:ss aaa z»
DateLanguage=>en»
DateCountry=>US»
```

| | | |
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Fr version Example

```
####<24 juil. 2007 09 h 54 CEST> <Info> <Security> <Jfrancoi01> <examplesServer> <main> <<WLS
Kernel>> <> <BEA-090516> <The Authenticator provider has preexisting LDAP data.>
```

```
DateFormat =<<dd MMMMM yyyy hh 'h' mm z>>
DateLanguage=>>fr>>
DateCountry=>>Fr>>
```

- The formalism of the *DateFormat* filter is as follows

| Letter | Date or Time Component | Presentation | Examples |
|--------|------------------------|-------------------|---------------------------------------|
| G | Era designator | Text | AD |
| y | Year | Year | 1996; 96 |
| M | Month in year | Month | July; Jul; 07 |
| w | Week in year | Number | 27 |
| W | Week in month | Number | 2 |
| D | Day in year | Number | 189 |
| d | Day in month | Number | 10 |
| F | Day of week in month | Number | 2 |
| E | Day in week | Text | Tuesday; Tue |
| a | Am/pm marker | Text | PM |
| H | Hour in day (0-23) | Number | 0 |
| k | Hour in day (1-24) | Number | 24 |
| K | Hour in am/pm (0-11) | Number | 0 |
| h | Hour in am/pm (1-12) | Number | 12 |
| m | Minute in hour | Number | 30 |
| s | Second in minute | Number | 55 |
| S | Millisecond | Number | 978 |
| z | Time zone | General time zone | Pacific Standard Time; PST; GMT-08:00 |
| Z | Time zone | RFC 822 time zone | -0800 |

Example

| | |
|--------------------------------|--------------------------------------|
| "yyyy.MM.dd G 'at' HH:mm:ss z" | 2001.07.04 AD at 12:08:56 PDT |
| "EEE, MMM d, ''yy" | Wed, Jul 4, '01 |
| "h:mm a" | 12:08 PM |
| "hh 'o''clock' a, zzzz" | 12 o'clock PM, Pacific Daylight Time |
| "K:mm a, z" | 0:08 PM, PDT |
| "yyyyy.MMMMM.dd GGG hh:mm aaa" | 02001.July.04 AD 12:08 PM |
| "EEE, d MMM yyyy HH:mm:ss Z" | Wed, 4 Jul 2001 12:08:56 -0700 |
| "yyMMddHHmmssZ" | 010704120856-0700 |

- The formalism of the *DateLanguage* filter is as follows (ISO Language Code):

| | |
|----|-----------|
| aa | Afar |
| ab | Abkhazian |
| af | Afrikaans |
| am | Amharic |
| ar | Arabic |

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| | |
|----|--------------------------|
| as | Assamese |
| ay | Aymara |
| az | Azerbaijani |
| ba | Bashkir |
| be | Byelorussian |
| bg | Bulgarian |
| bh | Bihari |
| bi | Bislama |
| bn | Bengali, Bangla |
| bo | Tibetan |
| br | Breton |
| ca | Catalan |
| co | Corsican |
| cs | Czech |
| cy | Welsh |
| da | Danish |
| de | German |
| dz | Bhutani |
| el | Greek |
| en | English |
| eo | Esperanto |
| es | Spanish |
| et | Estonian |
| eu | Basque |
| fa | Persian |
| fi | Finnish |
| fj | Fiji |
| fo | Faroese |
| fr | French |
| fy | Frisian |
| ga | Irish |
| gd | Scots, Gaelic |
| gl | Galician |
| gn | Guarani |
| gu | Gujarati |
| ha | Hausa |
| he | Hebrew (formerly iw) |
| hi | Hindi |
| hr | Croatian |
| hu | Hungarian |
| hy | Armenian |
| ia | Interlingua |
| id | Indonesian (formerly in) |
| ie | Interlingue |
| ik | Inupiak |
| is | Icelandic |
| it | Italian |
| iu | Inuktitut |
| ja | Japanese |
| jw | Javanese |
| ka | Georgian |
| kk | Kazakh |
| kl | Greenlandic |
| km | Cambodian |
| kn | Kannada |
| ko | Korean |
| ks | Kashmiri |

| | |
|----|------------------|
| ku | Kurdish |
| ky | Kirghiz |
| la | Latin |
| ln | Lingala |
| lo | Laothian |
| lt | Lithuanian |
| lv | Latvian, Lettish |
| mg | Malagasy |
| mi | Maori |
| mk | Macedonian |
| ml | Malayalam |
| mn | Mongolian |
| mo | Moldavian |
| mr | Marathi |
| ms | Malay |
| mt | Maltese |
| my | Burmese |
| na | Nauru |
| ne | Nepali |
| nl | Dutch |
| no | Norwegian |
| oc | Occitan |
| om | (Afan) Oromo |
| or | Oriya |
| pa | Punjabi |
| pl | Polish |
| ps | Pashto, Pushto |
| pt | Portuguese |
| qu | Quechua |
| rm | Rhaeto-Romance |
| rn | Kirundi |
| ro | Romanian |
| ru | Russian |
| rw | Kinyarwanda |
| sa | Sanskrit |
| sd | Sindhi |
| sg | Sangho |
| sh | Serbo-Croatian |
| si | Sinhalese |
| sk | Slovak |
| sl | Slovenian |
| sm | Samoan |
| sn | Shona |
| so | Somali |
| sq | Albanian |
| sr | Serbian |
| ss | Siswati |
| st | Sesotho |
| su | Sundanese |
| sv | Swedish |
| sw | Swahili |
| ta | Tamil |
| te | Telugu |
| tg | Tajik |
| th | Thai |
| ti | Tigrinya |
| tk | Turkmen |

| | |
|----|------------|
| tl | Tagalog |
| tn | Setswana |
| to | Tonga |
| tr | Turkish |
| ts | Tsonga |
| tt | Tatar |
| tw | Twi |
| ug | Uighur |
| uk | Ukrainian |
| ur | Urdu |
| uz | Uzbek |
| vi | Vietnamese |
| vo | Volapuk |
| wo | Wolof |
| xh | Xhosa |
| yi | ji) |
| yo | Yoruba |
| za | Zhuang |
| zh | Chinese |
| zu | Zulu |

- The formalism of the *DateCountry* filter is as follows (ISO Country Code.):

| Country | A 2 | A 3 | Number |
|--------------------------------|-----|-----|--------|
| AALAND ISLANDS | AX | ALA | 248 |
| AFGHANISTAN | AF | AFG | 004 |
| ALBANIA | AL | ALB | 008 |
| ALGERIA | DZ | DZA | 012 |
| AMERICAN SAMOA | AS | ASM | 016 |
| ANDORRA | AD | AND | 020 |
| ANGOLA | AO | AGO | 024 |
| ANGUILLA | AI | AIA | 660 |
| ANTARCTICA | AQ | ATA | 010 |
| ANTIGUA AND BARBUDA | AG | ATG | 028 |
| ARGENTINA | AR | ARG | 032 |
| ARMENIA | AM | ARM | 051 |
| ARUBA | AW | ABW | 533 |
| AUSTRALIA | AU | AUS | 036 |
| AUSTRIA | AT | AUT | 040 |
| AZERBAIJAN | AZ | AZE | 031 |
| BAHAMAS | BS | BHS | 044 |
| BAHRAIN | BH | BHR | 048 |
| BANGLADESH | BD | BGD | 050 |
| BARBADOS | BB | BRB | 052 |
| BELARUS | BY | BLR | 112 |
| BELGIUM | BE | BEL | 056 |
| BELIZE | BZ | BLZ | 084 |
| BENIN | BJ | BEN | 204 |
| BERMUDA | BM | BMU | 060 |
| BHUTAN | BT | BTN | 064 |
| BOLIVIA | BO | BOL | 068 |
| BOSNIA AND HERZEGOWINA | BA | BIH | 070 |
| BOTSWANA | BW | BWA | 072 |
| BOUVET ISLAND | BV | BVT | 074 |
| BRAZIL | BR | BRA | 076 |
| BRITISH INDIAN OCEAN TERRITORY | IO | IOT | 086 |
| BRUNEI DARUSSALAM | BN | BRN | 096 |

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| | | | |
|---|----|-----|-----|
| BULGARIA | BG | BGR | 100 |
| BURKINA FASO | BF | BFA | 854 |
| BURUNDI | BI | BDI | 108 |
| CAMBODIA | KH | KHM | 116 |
| CAMEROON | CM | CMR | 120 |
| CANADA | CA | CAN | 124 |
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| FRENCH POLYNESIA | PF | PYF | 258 |
| FRENCH SOUTHERN TERRITORIES | TF | ATF | 260 |
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| GAMBIA | GM | GMB | 270 |
| GEORGIA | GE | GEO | 268 |
| GERMANY | DE | DEU | 276 |
| GHANA | GH | GHA | 288 |
| GIBRALTAR | GI | GIB | 292 |
| GREECE | GR | GRC | 300 |
| GREENLAND | GL | GRL | 304 |
| GRENADA | GD | GRD | 308 |
| GUADELOUPE | GP | GLP | 312 |
| GUAM | GU | GUM | 316 |
| GUATEMALA | GT | GTM | 320 |
| GUINEA | GN | GIN | 324 |
| GUINEA-BISSAU | GW | GNB | 624 |
| GUYANA | GY | GUY | 328 |

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| HONDURAS | HN | HND | 340 |
| HONG KONG | HK | HKG | 344 |
| HUNGARY | HU | HUN | 348 |
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| INDONESIA | ID | IDN | 360 |
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| IRAQ | IQ | IRQ | 368 |
| IRELAND | IE | IRL | 372 |
| ISRAEL | IL | ISR | 376 |
| ITALY | IT | ITA | 380 |
| JAMAICA | JM | JAM | 388 |
| JAPAN | JP | JPN | 392 |
| JORDAN | JO | JOR | 400 |
| KAZAKHSTAN | KZ | KAZ | 398 |
| KENYA | KE | KEN | 404 |
| KIRIBATI | KI | KIR | 296 |
| KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF | KP | PRK | 408 |
| KOREA, REPUBLIC OF | KR | KOR | 410 |
| KUWAIT | KW | KWT | 414 |
| KYRGYZSTAN | KG | KGZ | 417 |
| LAO PEOPLE'S DEMOCRATIC REPUBLIC | LA | LAO | 418 |
| LATVIA | LV | LVA | 428 |
| LEBANON | LB | LBN | 422 |
| LESOTHO | LS | LSO | 426 |
| LIBERIA | LR | LBR | 430 |
| LIBYAN ARAB JAMAHIRIYA | LY | LBY | 434 |
| LIECHTENSTEIN | LI | LIE | 438 |
| LITHUANIA | LT | LTU | 440 |
| LUXEMBOURG | LU | LUX | 442 |
| MACAU | MO | MAC | 446 |
| MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF | MK | MKD | 807 |
| MADAGASCAR | MG | MDG | 450 |
| MALAWI | MW | MWI | 454 |
| MALAYSIA | MY | MYS | 458 |
| MALDIVES | MV | MDV | 462 |
| MALI | ML | MLI | 466 |
| MALTA | MT | MLT | 470 |
| MARSHALL ISLANDS | MH | MHL | 584 |
| MARTINIQUE | MQ | MTQ | 474 |
| MAURITANIA | MR | MRT | 478 |
| MAURITIUS | MU | MUS | 480 |
| MAYOTTE | YT | MYT | 175 |
| MEXICO | MX | MEX | 484 |
| MICRONESIA, FEDERATED STATES OF | FM | FSM | 583 |
| MOLDOVA, REPUBLIC OF | MD | MDA | 498 |
| MONACO | MC | MCO | 492 |
| MONGOLIA | MN | MNG | 496 |
| MONTSERRAT | MS | MSR | 500 |
| MOROCCO | MA | MAR | 504 |
| MOZAMBIQUE | MZ | MOZ | 508 |
| MYANMAR | MM | MMR | 104 |
| NAMIBIA | NA | NAM | 516 |
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| NEPAL | NP | NPL | 524 |
| NETHERLANDS | NL | NLD | 528 |
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| NEW ZEALAND | NZ | NZL | 554 |
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| NIGERIA | NG | NGA | 566 |
| NIUE | NU | NIU | 570 |
| NORFOLK ISLAND | NF | NFK | 574 |
| NORTHERN MARIANA ISLANDS | MP | MNP | 580 |
| NORWAY | NO | NOR | 578 |
| OMAN | OM | OMN | 512 |
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| PALAU | PW | PLW | 585 |
| PALESTINIAN TERRITORY, Occupied | PS | PSE | 275 |
| PANAMA | PA | PAN | 591 |
| PAPUA NEW GUINEA | PG | PNG | 598 |
| PARAGUAY | PY | PRY | 600 |
| PERU | PE | PER | 604 |
| PHILIPPINES | PH | PHL | 608 |
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| POLAND | PL | POL | 616 |
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| PUERTO RICO | PR | PRI | 630 |
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| RWANDA | RW | RWA | 646 |
| SAINT HELENA | SH | SHN | 654 |
| SAINT KITTS AND NEVIS | KN | KNA | 659 |
| SAINT LUCIA | LC | LCA | 662 |
| SAINT PIERRE AND MIQUELON | PM | SPM | 666 |
| SAINT VINCENT AND THE GRENADINES | VC | VCT | 670 |
| SAMOA | WS | WSM | 882 |
| SAN MARINO | SM | SMR | 674 |
| SAO TOME AND PRINCIPE | ST | STP | 678 |
| SAUDI ARABIA | SA | SAU | 682 |
| SENEGAL | SN | SEN | 686 |
| SERBIA AND MONTENEGRO | CS | SCG | 891 |
| SEYCHELLES | SC | SYC | 690 |
| SIERRA LEONE | SL | SLE | 694 |
| SINGAPORE | SG | SGP | 702 |
| SLOVAKIA | SK | SVK | 703 |
| SLOVENIA | SI | SVN | 705 |
| SOLOMON ISLANDS | SB | SLB | 090 |
| SOMALIA | SO | SOM | 706 |
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| SPAIN | ES | ESP | 724 |
| SRI LANKA | LK | LKA | 144 |
| SUDAN | SD | SDN | 736 |
| SURINAME | SR | SUR | 740 |
| SVALBARD AND JAN MAYEN ISLANDS | SJ | SJM | 744 |
| SWAZILAND | SZ | SWZ | 748 |
| SWEDEN | SE | SWE | 752 |
| SWITZERLAND | CH | CHE | 756 |
| SYRIAN ARAB REPUBLIC | SY | SYR | 760 |
| TAIWAN | TW | TWN | 158 |
| TAJIKISTAN | TJ | TJK | 762 |
| TANZANIA, UNITED REPUBLIC OF | TZ | TZA | 834 |

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| THAILAND | TH | THA | 764 |
| TIMOR-LESTE | TL | TLS | 626 |
| TOGO | TG | TGO | 768 |
| TOKELAU | TK | TKL | 772 |
| TONGA | TO | TON | 776 |
| TRINIDAD AND TOBAGO | TT | TTO | 780 |
| TUNISIA | TN | TUN | 788 |
| TURKEY | TR | TUR | 792 |
| TURKMENISTAN | TM | TKM | 795 |
| TURKS AND CAICOS ISLANDS | TC | TCA | 796 |
| TUVALU | TV | TUV | 798 |
| UGANDA | UG | UGA | 800 |
| UKRAINE | UA | UKR | 804 |
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| UNITED KINGDOM | GB | GBR | 826 |
| UNITED STATES | US | USA | 840 |
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| URUGUAY | UY | URY | 858 |
| UZBEKISTAN | UZ | UZB | 860 |
| VANUATU | VU | VUT | 548 |
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| VENEZUELA | VE | VEN | 862 |
| VIET NAM | VN | VNM | 704 |
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| VIRGIN ISLANDS (U.S.) | VI | VIR | 850 |
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| WESTERN SAHARA | EH | ESH | 732 |
| YEMEN | YE | YEM | 887 |
| ZAMBIA | ZM | ZMB | 894 |
| ZIMBABWE | ZW | ZWE | 716 |