



Conversion Anything Readme

**Version 1.0
28/06/2020**

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1. Introduction

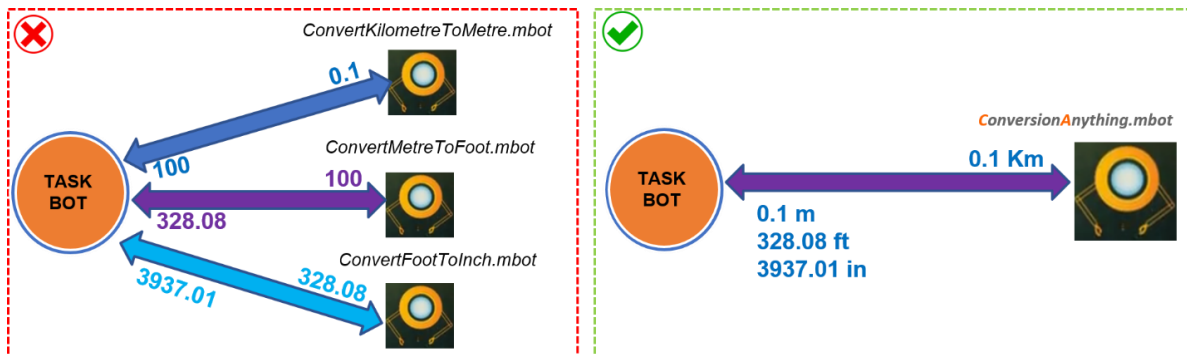
This document contains all essential information for the user to make full use of the Bot or Digital worker. This manual includes a description of the functions and capabilities and step-by-step procedures for setup & configuration of the Bot.

1.1 Overview

This bot performs the following:

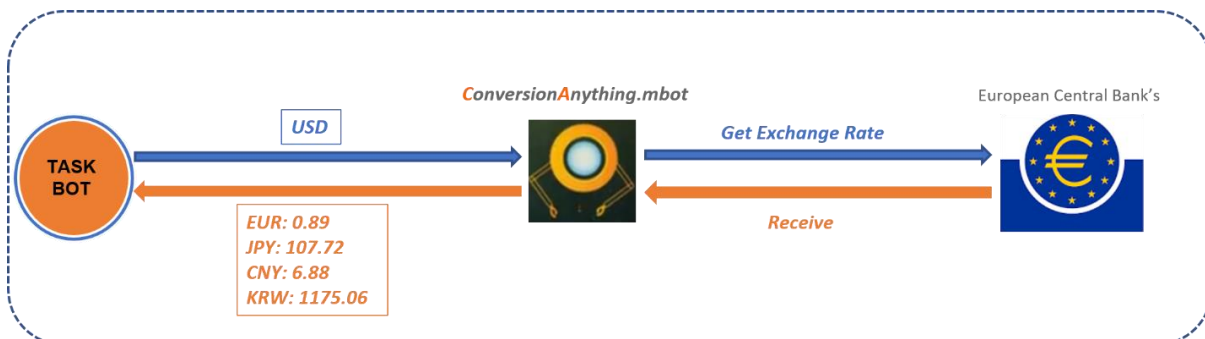
- **Converting Measurement Unit**

- After receiving value and type of Unit from TaskBot, ConversionAnything will calculate and provide values of equivalent units in the same category within a short time.
- Recently, this MetaBot is able to provide 10 different categories of measurement



- **Converting Currencies**

- After receiving base currency from Task Bot, ConversionAnything will access European Central Bank's server and return to Task Bot the latest exchange rates of all currencies that are available.
- In case Task Bot requires ConversionAnything to provides exchange rates in a specific date, ConversionAnything will follow the requirement and return the exact historical rates that are needed.
- At the moment, this Meta Bot can exchange among 30 strongest currencies in the world.



1.2 Common Use cases

A common use case, as shown above, it is used to convert measurement units and currencies.

For example, in a specific scenario below.

- Read the input file, which contains information of ordered goods from an e-commerce website in America.
- Then, the result will be written on the goods management website in Japan.
- The differences among measurement units and among currencies will be processed by ConversionAnything metabot.

	<i>America</i>	<i>Japan</i>
<i>Weight</i>	<i>Ounce</i>	<i>Gram</i>
<i>Length</i>	<i>Inch</i>	<i>Centimetre</i>
<i>Width</i>	<i>Inch</i>	<i>Centimetre</i>
<i>Height</i>	<i>Inch</i>	<i>Centimetre</i>
<i>Unit Price</i>	<i>USD</i>	<i>JPY</i>
<i>Total Price</i>	<i>USD</i>	<i>JPY</i>

※ Please refer to the sample bot for details. Requirements & Prerequisites

1.3 System Requirements

Reference below for Enterprise Client & Control Room system requirements.

1.4 Prerequisites

• Software's needed

AA Enterprise Client 11.x

AA Enterprise Control Room 11.x

• Accounts/License needed

AA Enterprise License

2. Getting Started

2.1 Skill Matrix

Below is an overview of how the task bots and metabots map to these skills:

<i>Skill</i>	<i>Task Files</i>	<i>MetaBot Files</i>
<i>Converting Measurement Unit And Currencies</i>	<i>ConvertAnything-FPTSoftwareJapan.atmx</i>	<i>ConversionAnything.mbot</i>

2.2 Installation Hierarchy

Once the bot is downloaded and installed, the installer creates the files in the folder structure as shown below.

- <AA Directory>
 - My Tasks
 - Bot Store
 - ConversionAnything-FPT Software Japan (Folder)
 - My Task
 - ConvertAnything-FPTSoftwareJapan.atmx
 - Error Folder
 - Logs (Folder)
 - Error logs Month-Day-Year Hour Min Sec.txt
 - Snapshots (Folder)
 - Error Snap Month-Day-Year Hour MinSec.png
 - My Metabot
 - ConversionAnything.mbot

2.3 Quick Start

2.3.1 Setup

1. Download the bot from Bot Store.
2. Double click on the .msi file.
3. On Welcome to Installation wizard, click Next to continue.
4. Click I agree to the terms in the license agreement radio button to accept the agreement.
5. Get/Copy the License key from Bot Store Downloads into License Key, click Next to continue.
6. Click Install to begin the installation.
7. Click Finish to complete the installation.
8. To view the installation, go to 'My Tasks' folder on AAE Client to see bot files.

2.3.2 Configuration

Use the following information to configure your bot.

2.3.2.1 Function List

No	Function	Description
1	convertLength	Converting between different length unit.
2	convertSpeed	Converting between different speed unit.
3	convertMass	Converting between different mass unit.
4	convertTemperature	Converting between different temperature unit.
5	convertAngle	Converting between different angle unit.
6	convertArea	Converting between different area unit.
7	converTime	Converting between different time unit.
8	convertDataStorage	Converting between different data unit.
9	convertPressure	Converting between different pressure unit.
10	convertVolume	Converting between different length unit.
11	convert DataTransferRate	Converting between different data transfer rate unit.
12	getExchangeRate	Get current exchange rates.
13	getExchangeRateByDate	Get historical exchange rates by date.

2.3.2.2 Function Detail

No1. convertLength

• *Input description*

Variable Name	Type	Mandatory	Purpose	Example Output
vNumber	Value	Yes	Value to convert.	100
vUnitAbbr	Value	Yes	Current unit of length	cm

• *Supporting units:*

Unit Abbreviation	Unit
km	Kilometre
m	Metre
cm	Centimetre
mm	Millimetre
mi	Mile

in	Inch
ft	Foot
yd	Yard
fm	Fathom
fur	Furlong
rd	Rod

No2. Convert speed function: convertSpeed

• Input description

Variable Name	Type	Mandatory	Purpose	Example Output
vNumber	Value	Yes	Value to convert.	100
vUnitAbbr	Value	Yes	Current unit of speed	Km/h

• Supporting units:

Unit Abbreviation	Unit
km/h	Kilometre per hour
km/min	Kilometre per minute
km/s	Kilometre per second
mi/h	Mile per hour
mi/s	Mile per second
mi/min	Mile per minute
ft/h	Foot per hour
ft/min	Foot per minute
ft/s	Foot per second
kn	Knot
m/s	Metre per second
m/min	Metre per minute
m/h	Metre per hour

No3. Convert mass function: convertMass

• Input description

Variable Name	Type	Mandatory	Purpose	Example Output
vNumber	Value	Yes	Value to convert.	100
vUnitAbbr	Value	Yes	Current unit of mass	kg

• *Supporting units:*

Unit Abbreviation	Unit
kg	Kilogram
lb	Pound
oz	Ounce
ct	Carat
g	Gram
mg	Milligram
gr	Grain
dwt	Pennyweight
t	Tonne
st	Stone

No4. Convert temperature function: convertTemperature

• *Input description*

Variable Name	Type	Mandatory	Purpose	Example Output
vNumber	Value	Yes	Value to convert.	100
vUnitAbbr	Value	Yes	Current unit of temperature	F

• *Supporting units:*

Unit Abbreviation	Unit
ct	Celsius
F	Fahrenheit
K	Kelvin
De	Delisle
N	Newton
R	Rankine
Re	Reaumur
Ro	Romer

No5. Convert angle function: convertAngle

• *Input description*

Variable Name	Type	Mandatory	Purpose	Example Output
vNumber	Value	Yes	Value to convert.	100
vUnitAbbr	Value	Yes	Current unit of angle	rad

• *Supporting units:*

Unit Abbreviation	Unit
circle	Circle
degree	Degree
grad	Grad
rad	Rad

No6. Convert area function: convertArea

• *Input description*

Variable Name	Type	Mandatory	Purpose	Example Output
vNumber	Value	Yes	Value to convert.	100
vUnitAbbr	Value	Yes	Current unit of area	ha

• *Supporting units:*

Unit Abbreviation	Unit
ac	Acre
ha	Hectare
cm2	Square centimetre
ft2	Square foot
in2	Square inch
km2	Square kilometre
m2	Square metre
mi2	Square mile
mm2	Square milimetre
yd2	Square yard

No7. Convert time function: convertTime

• Input description

Variable Name	Type	Mandatory	Purpose	Example Output
vNumber	Value	Yes	Value to convert.	100
vUnitAbbr	Value	Yes	Current unit of time	ms

• Supporting units:

Unit Abbreviation	Unit
ms	Millisecond
s	Second
min	Minute
h	Hour
d	Day
wk	Week
mo	Month
yd2	Year
dec	Decade
c	Century

No8. Convert data storage function: convertDataStorage

• Input description

Variable Name	Type	Mandatory	Purpose	Example Output
vNumber	Value	Yes	Value to convert.	100
vUnitAbbr	Value	Yes	Current unit of data	bit

• Supporting units:

Unit Abbreviation	Unit
bit	Bit
B	Byte
kbit	Kilobit
kB	Kilobyte
Mbit	Megabit
MB	Megabyte
Gbit	Gigabit

GB	Giagbyte
Tbit	Terabit
Tbit	Terabyte

No5. Convert pressure function: convertPressure

• Input description

Variable Name	Type	Mandatory	Purpose	Example Output
vNumber	Value	Yes	Value to convert.	100
vUnitAbbr	Value	Yes	Current unit of pressure	atm

• Supporting units:

Unit Abbreviation	Unit
atm	Atmosphere
bar	Bar
bar	Barye
mbar	Milibar
Pa	Pascal
kPa	Kilopascal
Mpa	Megapascal

No10. Convert volume function: convertVolume

• Input description

Variable Name	Type	Mandatory	Purpose	Example Output
vNumber	Value	Yes	Value to convert.	100
vUnitAbbr	Value	Yes	Current unit of volume	cL

• Supporting units:

Unit Abbreviation	Unit
cL	Centilitre
L	Litre
mL	Millimetre
mm3	Cublic millimetre
cm3	Cublic centimetre
m3	Cublic metre
ft3	Cublic foot

in3	Cubic inch
yd3	Cubic yard
gal	US liquid gallon
c	US legal cup
fl oz	US fluid ounce
pt	US liquid pint
qt	US liquid quart
tbsp	US tablespoon
tsp	US teaspoon

No11. Convert data transfer rate function:

• Input description

Variable Name	Type	Mandatory	Purpose	Example Output
vNumber	Value	Yes	Value to convert.	100
vUnitAbbr	Value	Yes	Current unit of data transfer	bit/s

• Supporting units:

Unit Abbreviation	Unit
bit/s	Bit per second
B/s	Byte per second
kbit/s	Kilobit per second
kB/s	Kilobyte per second
Mbit/s	Megabit per second
MB/s	Megabyte per second
Gbit/s	Gigabit per second
GB/s	Gigabyte per second
Tbit/s	Terabit per second
Tb/s	Terabyte per second

No11. Get exchange rate function: getExchangeRate

• Input description

Variable Name	Type	Mandatory	Purpose	Example Output
vBase	Value	Yes	Current unit of currency	JPY

• *Supporting units:*

Unit Abbreviation	Unit
CAD	Canada Dollar
HKD	Hong Kong Dollar
ISK	Iceland Krona
PHP	Philippines Peso
DKK	Denmark Krone
HUF	Hungary Forint
CZK	Czech Koruna
GBP	Great Britain Pound
RON	Romania New Lei
SEK	Sweden Krona
IDR	Indonesia Rupiah
INR	India Rupee
BRL	Brazil Real
HRK	Croatia Kuna
JPY	Japan Yen
THB	Thailand Baht
CHF	Switzerland Franc
EUR	Euro
MYR	Malaysia Ringgit
TRY	Turkish New Lira
CNY	China Yuan/Renminbi
NOK	Norway Kroner
NZD	New Zealand Dollar
ZAR	South Africa Rand
USD	USA Dollar
MXN	Mexico Peso
SGD	Singapore Dollar
AUD	Australia Dollar
ILS	Israel New Shekel
KRW	South Korea Won
PLN	Poland Zloty

No12. Get exchange rate by date function:

• Input description

Variable Name	Type	Mandatory	Purpose	Example Output
vBase	Value	Yes	Current unit of currency	JPY
vDate	Value	Yes	The date you want to get the exchange rate. Format date: YYYY-MM-DD	2020-06-29

• Supporting units:

Please refer support of `getExchangeRate` function

※ All of the above functions will return the value as json format

Input:

```
String vNumber
String vUnitAbbr
```

Output:

```
{
  "Unit1 (UnitAbbr1)" : Number1,
  "Unit2 (UnitAbbr2)" : Number2,
}
```

OR

```
{
  "error" : "Input parameter is invalid."
}
```

For example:

Input:

5
km

Output:

```
{  
  "kilometre(km)":5,  
  "metre(m)":5000,  
  "centimetre(cm)":500000,  
  "milimetre(mm)":5000000,  
  "mile(mi)":3.1068559612,  
  "inch(in)":196850.393700787,  
  "foot(ft)":16404.1994750656,  
  "yard(yd)":5468.0664916885,  
  "fathom(fm)":2734.0332458443,  
  "furlong(fur)":24.8548476895,  
  "rod(rd)":994.1939075797  
}
```