Variables configuration file contains ‘shp’ and ‘est’ JSON objects. ‘est’ stores the variables used in establishment file along with their corresponding attributes such as name, keywords, required, and hint. ‘shp’ has the same structure as ‘est’ and stores shipment variables.

Each variable has a numeric key which is used internally in the validation platform to reference the variable. ‘name’ attribute stores the name of the variable as it appears on the user interface.

‘keys’ attribute, stores the list (array) of keywords that var\_match module uses to identify and calculate the similarity score based on. Note that keywords listed for each variable needs to be mutually exclusive (i.e. do not contain same substrings) to avoid incorrect variable matching. For example, listing to keywords of comp\_id and est\_id is incorrect since they both contain the substring ‘id’. It is also recommended to use break down each keyword as much as possible. For example, if both ‘comp’ and ‘company’ can be used in establishment id, ‘comp’ needs to be listed as the keyword.

‘required’ attribute is used to determine if a variable is a required data attribute or not. If set to false, ‘Not Available’ option will be included in its corresponding combo box in the user interface.

‘hint’ attribute is the text displayed in the tooltip assigned to the combo box associated with the variable in the user interface.

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| **Variable: shp** | **Key: 1** |
| Establishment ID variable. | |
| attribute: value | name: 'Establishment\_ID',  keys: ['est','company','id','num'],  required: false,  hint: 'Establishment unique identifier.' |
| **Variable: shp** | **Key: 2** |
| Shipment ID variable. | |
| attribute: value | name: 'Shipment\_ID',  keys:['ship','shp','num','key','id','unique','identification','cargo','package','product','consignment'],  required: false,  hint: 'Your shipment ID number.' |

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| **Variable: shp** | | **Key: 3** |
| Shipment month variable. | | |
| attribute: value | name: 'Ship\_Month',  keys: ['ship','shp','month','delivery'],  required: true,  hint: 'Month for the shipment date.' | |

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| **Variable: shp** | | **Key: 4** |
| Shipment day variable. | | |
| attribute: value | name: 'Ship\_Day',  keys: ['ship','shp','day','delivery'],  required: true,  hint: 'Day for the shipment date.' | |

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| **Variable: shp** | **Key: 5** |
| Shipment value variable. | |
| attribute: value | name: 'Shipment\_Value',  keys: ['ship','shp','val','order','amount','cost','rate','price','merchandise','consignment','package','parcel'],  required: true,  hint: 'Shipment value excluding freight charges and excise taxes)in whole dollars. Estimates acceptable.' |

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| **Variable: shp** | **Key: 6** | |
| Shipment weight variable. | | |
| attribute: value | | name: 'Shipment\_Weight',  keys:['ship','shp','weight','wgt','tonnage','order','product','merchandise','consignment','package','parcel','gross','cargo','inbound','outbound','commodity','freight'],  required: true,  hint: 'Net shipment weight in pounds. Estimates acceptable.' |

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| **Variable: shp** | | **Key: 7** |
| SCTG commodity code variable. | | |
| attribute: value | name: 'SCTG\_Commodity\_Code',  keys: ['sctg','commodity','code'],  required: true,  hint: 'SCTG commodity code from the accompanying booklet. For shipments consisting of more than one commodity, report the code and description of the commodity that contributed the greatest weight of the shipment.' | |

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| **Variable: shp** | | **Key: 8** |
| Commodity description variable. | | |
| attribute: value | name: 'Commodity\_Description',  keys: ['commodity','desc','product','ship','consignment','cargo']  required: true,  hint: 'Commodity Description. For shipments consisting of more than one commodity, report the code and description of the commodity that contributed the greatest weight of the shipment.' | |

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| **Variable: shp** | | **Key: 9** |
| Temperature control variable. | | |
| attribute: value | name: 'Temp\_Control\_YN',  keys: ['temp','control','ctrl'],  required: true,  hint: 'Is the item being shipped temperature controlled? (Y/N)' | |

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| **Variable: shp** | **Key: 10** |
| HAZMAT code variable. | |
| attribute: value | name: 'HAZMAT\_Code',  keys:['hazmat','code','hazardous','material','dangerous','control','ctrl'],  required: true,  hint: 'Is item being shipped a hazardous material? Enter "UN" or "NA" number.' |

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| **Variable: shp** | | **Key: 11** |
| Domestic city name variable. | | |
| attribute: value | name: 'Domestic\_City\_Name',  keys: ['city','name','domestic','town'],  required: true,  hint: 'U.S. destination or U.S. exit port city for the shipment.' | |

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| **Variable: shp** | | **Key: 12** |
| Domestic state abbreviation variable. | | |
| attribute: value | name: 'Domestic\_State\_Abbrev',  keys: ['State','domestic','abbr','name'],  required: true,  hint: 'U.S. destination or U.S. exit port state for the shipment.' | |

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| **Variable: shp** | | **Key: 13** |
| Domestic ZIP code variable. | | |
| attribute: value | name: 'Domestic\_ZIP\_Code',  keys: ['zip','code','domestic','post'],  required: true,  hint: 'U.S. destination or U.S. exit port ZIP code for the shipment.' | |

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| **Variable: shp** | | **Key: 14** |
| Domestic transportation mode variable. | | |
| attribute: value | name: 'Domestic\_Transport\_Mode',  keys:['mode','freight','domestic','transport','tsp'],  required: true,  hint: 'Mode(s) of transport to U.S. destination. Enter all that apply in order used: 1-Parcel delivery, courier, or U.S. Parcel Post; 2-Company-owned truck; 3-For-hire truck; 4-Railroad; 5-Inland water; 6-Deep sea; 7-Pipeline; 8-Air; 9-Other mode; 0-Unknown' | |

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| **Variable: shp** | | **Key: 15** |
| Export variable. | | |
| attribute: value | name: 'Export\_YN',  keys: ['export','yn'],  required: false,  hint: 'Is the item exported? (Y/N)' | |

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| **Variable: shp** | | **Key: 16** |
| Export city name variable. | | |
| attribute: value | name: 'Export\_City',  keys: ['export','city','name','town'],  required: true,  hint: 'Foreign destination city for export shipments only.' | |

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| **Variable: shp** | | **Key: 17** |
| Export country name variable. | | |
| attribute: value | name: 'Export\_Country',  keys: ['export','country','name'],  required: true,  hint: 'Foreign destination country for export shipments only.' | |

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| **Variable: shp** | | **Key: 18** |
| Export transportation mode variable. | | |
| attribute: value | name: 'Export\_Transport\_Mode',  keys: ['export','transport','mode','transit','tsp'],  required: true,  hint: 'Mode(s) of transport to the foreign destination. Enter all that apply in order used: 1-Parcel delivery, courier, or U.S. Parcel Post; 2-Company-owned truck; 3-For-hire truck;4-Railroad;5-Inland water;6-Deep sea; 7-Pipeline;8-Air; 9-Other mode; 0-Unknown' | |

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| **Variable: est** | | **Key: 1** |
| Establishment ID variable. | | |
| attribute: value | name: 'Establishment\_ID',  keys: ['est','company','id','num'],  required: false,  hint: 'Establishment unique identifier.' | |
| **Variable: est** | | **Key: 2** |
| Shipping company name 1 variable. | | |
| attribute: value | name: 'Shipping\_Company\_Name\_1',  keys: ['ship','shp','company','name','1'],  required: true,  hint: 'Name of the company for which the shipping address is provided.' | |

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| **Variable: est** | | **Key: 3** |
| Shipping company name 2 variable. | | |
| attribute: value | name: 'Shipping\_Company\_Name\_2',  keys: ['ship','shp','company','name','2'],  required: false,  hint: 'Name of the company for which the shipping address is provided.' | |

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| **Variable: est** | | **Key: 4** |
| Shipping address variable. | | |
| attribute: value | name: 'Shipping\_Address',  keys: ['ship','shp','add'],  required: true,  hint: 'The address from where your shipments originate.' | |

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| **Variable: est** | | **Key: 5** |
| Shipping city variable. | | |
| attribute: value | name: 'Shipping\_City',  keys: ['ship','shp','city','town'],  required: true,  hint: 'Shipping address city.' | |

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| **Variable: est** | | **Key: 6** |
| Shipping state variable. | | |
| attribute: value | name: 'Shipping\_State',  keys: ['ship','shp','state'],  required: true,  hint: 'Shipping address state.' | |

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| **Variable: est** | | **Key: 7** |
| 5-digit shipping zip code variable. | | |
| attribute: value | name: 'Shipping\_Zip5',  keys: ['ship','shp','zip','5','dig'],  required: true,  hint: 'Shipping address 5 digit zip code.' | |

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| **Variable: est** | | **Key: 8** |
| 4-digit shipping zip code extension variable. | | |
| attribute: value | name: 'Shipping\_Zip4',  keys: ['ship','shp','zip','4','dig'],  required: false,  hint: 'Shipping address 4 digit zip code extension.' | |

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| **Variable: est** | | **Key: 9** |
| Mailing company name 1 variable. | | |
| attribute: value | name: 'Mailing\_Company\_Name\_1',  keys: ['mail','company','name','1'],  required: false,  hint: 'Name of the company for which the mailing address is provided.' | |

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| **Variable: est** | | **Key: 10** |
| Mailing company name 2 variable. | | |
| attribute: value | name: 'Mailing\_Company\_Name\_2',  keys: ['mail','company','name','2'],  required: false,  hint: 'Name of the company for which the mailing address is provided.' | |

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| **Variable: est** | | **Key: 11** |
| Mailing attention variable. | | |
| attribute: value | name: 'Mailing\_Attention',  keys: ['mail','attention','attn'],  required: false,  hint: 'A person, division, or department recieveing the CFS corrsepondance.' | |

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| **Variable: est** | | **Key: 12** |
| Mailing address variable. | | |
| attribute: value | name: 'Mailing\_Address',  keys: ['mail','add'],  required: true,  hint: 'The address to which all CFS correspondence is sent to.' | |

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| **Variable: est** | | **Key: 13** |
| Mailing city name variable. | | |
| attribute: value | name: 'Mailing\_City',  keys: ['mail','city','town'],  required: true,  hint: 'Mailing address city.' | |

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| **Variable: est** | | **Key: 14** |
| Mailing state abbreviation variable. | | |
| attribute: value | name: 'Mailing\_State',  keys: ['mail','state'],  required: true,  hint: 'Mailing address state.' | |

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| **Variable: est** | | **Key: 15** |
| 5-digit mailing zip code variable. | | |
| attribute: value | name: 'Mailing\_Zip5',  keys: ['mail','zip','5','dig'],  required: true,  hint: 'Mailing address 5 digit zip code.' | |

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| **Variable: est** | | **Key: 16** |
| 4-digit mailing zip code extension variable. | | |
| attribute: value | name: 'Mailing\_Zip4',  keys: ['mail','zip','4','dig'],  required: false,  hint: 'Mailing address 4 digit zip code extension.' | |

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| **Variable: est** | | **Key: 17** |
| Operating status variable. | | |
| attribute: value | name: 'Operating\_Status',  keys: ['stat','opr','operat'],  required: true,  hint: 'The operating status for the specified location and reporting period: in\_operation, inactive, ceased\_operation.' | |

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| **Variable: est** | | **Key: 18** |
| Day of ceased operation variable. | | |
| attribute: value | name: 'Status\_Ceased\_Day',  keys: ['stat','cease','day'],  required: false,  hint: 'Two digit day for the date ceased operation.' | |

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| **Variable: est** | | **Key: 19** |
| Month of ceased operation variable. | | |
| attribute: value | name: 'Status\_Ceased\_Month',  keys: ['stat','cease','month'],  required: false,  hint: 'Two digit month for the date ceased operation.' | |

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| **Variable: est** | | **Key: 20** |
| Year of ceased operation variable. | | |
| attribute: value | name: 'Status\_Ceased\_Year',  keys: ['stat','cease','year','yr'],  required: false,  hint: 'Four digit year for the date ceased operation.' | |

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| **Variable: est** | **Key: 21** |
| Shipment number variable. | |
| attribute: value | name: 'Shipment\_Number',  keys:['ship','num','total','merchandise','consignment','package','parcel'],  required: true,  hint: 'Total number of outbound shipments for the specified location and reporting period.' |

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| **Variable: est** | **Key: 22** |
| Shipment value variable. | |
| attribute: value | name: 'Shipment\_Value',  keys:['ship','shp','val','total','amount','cost','rate','price','merchandise','consignment','package','parcel'],  required: true,  hint: 'Total dollar value of outbound shipments for the specified location and reporting period, excluding freight charges and excise taxes.' |