Landed cost module: purchase\_landed\_cost

Reporting of what seems to be an error when purchase order has more than 1 line. Landed costs data are shipping are wrong and **lead to a wrong Moving Average Price in product**

**Purchase order** merged [2 products]

There is no landed costs added therefore only the line amount appears, what is correct





Total still correct



**SHIPPING**

Line 1 is correct: 

* Qty 300
* Subtotal 8352
* Landed costs (line) 8352

Line 2 is wrong:



* Qty 300
* Subtotal 8352
* Landed costs (line) **16704** should be in my opinion 8352 as it referes to the line

**Total shipping is wrong and calculates a wrong average price**



* Qty: 600 is correct
* Total product price is wrong: should be 16704
* Landed Costs Total Untaxed is wrong: should be 16704 [as for this example no additional costs were added for test purpose]

I am not (YET) a good python developer, so could you help me to correct the code?

**Python stock.py**

# -\*- coding: utf-8 -\*-

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#

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from osv import osv, fields

import decimal\_precision as dp

import logging

#----------------------------------------------------------

# Stock Move

#----------------------------------------------------------

class stock\_move(osv.osv):

 \_inherit = "stock.move"

 def \_landing\_cost(self, cr, uid, ids, name, args, context):

 if not ids : return {}

 result = {}

 landed\_costs = 0.0

 # landed costss for the line

 for line in self.browse(cr, uid, ids):

 if line.landed\_cost\_line\_ids:

 for costs in line.landed\_cost\_line\_ids:

 if costs.price\_type == 'value':

 landed\_costs += costs.amount

 else:

 landed\_costs += costs.amount \* line.product\_qty

 result[line.id] = landed\_costs

 return result

 def \_landing\_cost\_order(self, cr, uid, ids, name, args, context):

 if not ids : return {}

 result = {}

 landed\_costs = 0.0

 # landed costss for the line

 for line in self.browse(cr, uid, ids):

 # distrubution of landed costs of PO

 if line.picking\_id.landed\_cost\_line\_ids:

 if line.picking\_id.total\_amount and line.picking\_id.total\_amount > 0.0:

 landed\_costs += line.picking\_id.landed\_cost\_base\_value / line.picking\_id.total\_amount \* line.price\_unit \* line.product\_qty

 if line.picking\_id.quantity\_total and line.picking\_id.quantity\_total >0.0:

 landed\_costs += line.picking\_id.landed\_cost\_base\_quantity / line.picking\_id.quantity\_total \* line.product\_qty

 result[line.id] = landed\_costs

 return result

 def \_landed\_cost(self, cr, uid, ids, name, args, context):

 if not ids : return {}

 result = {}

 landed\_costs = 0.0

 # landed costss for the line

 for line in self.browse(cr, uid, ids):

 landed\_costs += line.product\_qty \* line.price\_unit

 result[line.id] = landed\_costs

 return result

 def \_sub\_total(self, cr, uid, ids, name, args, context):

 if not ids : return {}

 result = {}

 sub\_total = 0.0

 for line in self.browse(cr, uid, ids):

 sub\_total += line.product\_qty \* line.price\_unit\_net or 0.0

 result[line.id] = sub\_total

 return result

 \_columns = {

 'landed\_cost\_line\_ids': fields.one2many('landed.cost.position', 'move\_line\_id', 'Landed Costs Positions'),

 'landing\_costs' : fields.function(\_landing\_cost, digits\_compute=dp.get\_precision('Account'), string='Line Landing Costs'),

 'landing\_costs\_picking' : fields.function(\_landing\_cost\_order, digits\_compute=dp.get\_precision('Account'), string='Landing Costs from Picking'),

 'landed\_cost' : fields.function(\_landed\_cost, digits\_compute=dp.get\_precision('Account'), string='Landed Costs'),

 'sub\_total' : fields.function(\_sub\_total, digits\_compute=dp.get\_precision('Account'), string='Line Sub Total'),

 'price\_unit\_net' : fields.float('Purchase Price', digits\_compute=dp.get\_precision('Account'), ),

 }

stock\_move()

#----------------------------------------------------------

# Stock Picking

#----------------------------------------------------------

class stock\_picking(osv.osv):

 \_inherit = "stock.picking"

 def \_landed\_cost\_base\_value(self, cr, uid, ids, name, args, context):

 if not ids : return {}

 result = {}

 landed\_costs\_base\_value = 0.0

 for line in self.browse(cr, uid, ids):

 if line.landed\_cost\_line\_ids:

 for costs in line.landed\_cost\_line\_ids:

 if costs.product\_id.landed\_cost\_type == 'value':

 landed\_costs\_base\_value += costs.amount

 result[line.id] = landed\_costs\_base\_value

 return result

 def \_landed\_cost\_base\_quantity(self, cr, uid, ids, name, args, context):

 if not ids : return {}

 result = {}

 landed\_costs\_base\_quantity = 0.0

 for line in self.browse(cr, uid, ids):

 if line.landed\_cost\_line\_ids:

 for costs in line.landed\_cost\_line\_ids:

 if costs.product\_id.landed\_cost\_type == 'quantity':

 landed\_costs\_base\_quantity += costs.amount

 result[line.id] = landed\_costs\_base\_quantity

 return result

 def \_landed\_cost(self, cr, uid, ids, name, args, context):

 if not ids : return {}

 result = {}

 landed\_costs = 0.0

 # landed costss for the line

 for line in self.browse(cr, uid, ids):

 if line.move\_lines:

 for ml in line.move\_lines:

 landed\_costs += ml.landed\_cost

 result[line.id] = landed\_costs

 return result

 def \_landing\_cost\_lines(self, cr, uid, ids, name, args, context):

 if not ids : return {}

 result = {}

 landed\_cost\_lines = 0.0

 for line in self.browse(cr, uid, ids):

 if line.move\_lines:

 for ml in line.move\_lines:

 if ml.product\_qty > 0.0:

 landed\_cost\_lines += ml.landing\_costs + ml.landing\_costs\_picking

 result[line.id] = landed\_cost\_lines

 return result

 def \_quantity\_total(self, cr, uid, ids, name, args, context):

 if not ids : return {}

 result = {}

 quantity\_total = 0.0

 for line in self.browse(cr, uid, ids):

 if line.move\_lines:

 for ml in line.move\_lines:

 if ml.product\_qty > 0.0:

 quantity\_total += ml.product\_qty

 result[line.id] = quantity\_total

 return result

 def \_amount\_total(self, cr, uid, ids, name, args, context):

 if not ids : return {}

 result = {}

 amount\_total = 0.0

 for line in self.browse(cr, uid, ids):

 if line.move\_lines:

 for ml in line.move\_lines:

 if ml.product\_qty > 0.0 and ml.price\_unit:

 amount\_total += ml.sub\_total

 result[line.id] = amount\_total

 return result

 \_columns = {

 'landed\_cost\_line\_ids': fields.one2many('landed.cost.position', 'picking\_id', 'Landed Costs Positions'),

 'landed\_cost\_base\_value' : fields.function(\_landed\_cost\_base\_value, digits\_compute=dp.get\_precision('Account'), string='Landed Costs Base Value'),

 'landed\_cost\_base\_quantity' : fields.function(\_landed\_cost\_base\_quantity, digits\_compute=dp.get\_precision('Account'), string='Landed Costs Base Quantity'),

 'landing\_cost\_lines' : fields.function(\_landing\_cost\_lines, digits\_compute=dp.get\_precision('Account'), string='Landing Cost Lines'),

 'landed\_cost' : fields.function(\_landed\_cost, digits\_compute=dp.get\_precision('Account'), string='Landed Costs Total Untaxed'),

 'total\_amount' : fields.function(\_amount\_total, digits\_compute=dp.get\_precision('Account'), string='Total Product Price'),

 'quantity\_total' : fields.function(\_quantity\_total, digits\_compute=dp.get\_precision('Product UoM'), string='Total Quantity'),

 }

stock\_picking()

class stock\_partial\_picking(osv.osv\_memory):

 \_inherit = "stock.partial.picking"

 \_logger = logging.getLogger(\_\_name\_\_)

 def \_product\_cost\_for\_average\_update(self, cr, uid, move):

 res = super(stock\_partial\_picking, self).\_product\_cost\_for\_average\_update(cr, uid, move)

 self.\_logger.debug('res stock\_partial\_picking `%s`', res)

 res['cost'] = move.landed\_cost / move.product\_qty

 self.\_logger.debug('res stock\_partial\_picking `%s`', res)

 return res

stock\_partial\_picking()