

## Trading mechanism

### Pseudocode!

#### While Loop Below

#### FunctionNameHere:

currentAmount: Integer

negotiationStreak: Integer : 0.

SendingMessage( currentAmount ) to requesters.

Waiting ( 15 second )

If ( !response() ) Cancel ( ).

Else if ( Message: Yes ) Accept:, SaveInstanceRecord().

Else if ( Message: No ) Waiting(15 second) //for 2<sup>nd</sup> message

If not respond Cancel().

Else if ( ! (message:requestedAmount (integer) )

    currentAmount = CompareLimitation( requestedAmount, currentAmount, negotiationStreak)

    if( currentAmount != requestedAmount) SendingMessage(currentAmount)

    negotiationStreak ++

**CompareLimitation** ( requestedAmount: Integer, currentAmount: Integer, negotiationStreak: Integer)

Limitation: integer

If ( requestedAmount < limitation) **return** (currentAmount\* 95%)

Else if(requestedAmount = limitation)     If (negotiationStreak < 4)

**return** ((currentAmount + limitation ) / 2)

        Else **return** limitation

Else if (requestedAmount > limitation)     if(negotiationStreak < 4)

**return** ((requestedAmount + currentAmount) / 2)

        Else **return** requestedAmount.

