ALGORITHM

Base\_Matix (AV, AC, PR, UI, S, CI, II, AI)

1. ISC\_Base = 1-((1-CI)\*(1-AI)\*(1-II))
2. Exploitability = 8.22\*AV\*AC\*PR\*UI
3. If(S==changed)
4. ISC = 7.52\*(ISC\_Base-0.029) - 3.25\*(ISC\_Base-0.02)^15
5. Else
6. ISC = 6.42\*ISC\_Base
7. If(ISC <= 0)
8. Base\_Score = 0
9. Else
10. If(S == changed)
11. Base\_Score = Round\_to\_1\_decimal(Minimum[1.08\*(ISC + Exploitability),10])
12. If(S == unchanged)
13. Base\_Score = Round\_to\_1\_decimal(Minimum[(ISC + Exploitability),10])
14. Return (Base\_Score)

Temporal\_Matrix (ECM, RL, RC)

1. Temporal\_Score = Round\_to\_1\_decimal (Base\_Score\*ECM\*RL\*RC)
2. Return (Temporal\_Score)

Enviromental\_Matrix (MAV, MAC, MPR, MUI, MS, MCI, MII, MAI, CR, AR, IR)

1. ISCM\_Environmental = Minimum[(1-(1-MCI\*CR)\*(1-MII\*IR)\*(1-MAI\*AR)) , 0.915]
2. MExploitability = MAV\*MAC\*MPR\*MUI
3. If(MS == changed)
4. ISCM = 7.52\*(ISCM\_Base-0.029) - 3.25\*(ISC\_Base-0.02)^15
5. Else
6. ISCM = 6.42\*ISCM\_Base
7. If(ISCM<=0)
8. Environmental\_Score = 0
9. Else
10. If(MS == changed)
11. Environmental\_Score = Round\_to\_1\_decimal (Minimum . [1.08\*(ISCM +MExploitability),10])\*ECM\*RL\*RC
12. If(MS == unchanged)
13. Environmental\_Score = Round\_to\_1\_decimal (Minimum . [(ISCM +MExploitability),10])\*ECM\*RL\*RC
14. Return(Environmental\_Score)