A/

1) ?

2) Group = "#GROUP:" groupName CRLF
*(status CRLF)
"#"

Status = *(ALPHA) 1*2(DIGIT)

GroupName = (*ALPHA *DIGIT) / (*DIGIT *ALPHA)

Access: "#ACCESS:" accessName CRLF
*(("+" status ":" date ">>") / ("-" status ":" date ">>" date) /
("*" groupName ":" >>" date) / (condition)) CRLF)

Accessname: (*ALPHA *DIGIT) / (*DIGIT *ALPHA)

Date: (Jour "-" mois "-" annee "z" Heure "h" minute "s" seconde "UTC") /
(année "-" mois "-" Jour "z" Heure "h" minute "s" seconde "UTC")

Jour: "1"[DIGIT] / "2"[DIGIT] / "31" / "30" / "0"[%x31-39]
Mois: "0"[%x31-39] / "10" / "11" / "12"
Année: "20"2DIGIT
Heure: "0"[DIGIT] / "1"[DIGIT] / "21" / "22" / "20" / "23"
Minute: [%x30-35][DIGIT]
Seconde: Minute

Condition: *(IF %USER%z" groupname) /
(IF %Time1. > %TODAY% - Horaire "AND %Time% < %TODAY+1%" Horaire)) CRLF)
"CLOSE" CRLF
*(ENDIF CRLF)
"#"

3/ Detected Object:

Sort: DO <fPoint x fPoint>
Refinement: fPoint

- Signatures:
  - CreateDO: fPoint x fPoint -> DO
  - Lat: DO -> fPoint
  - Lng: DO -> fPoint
  - DA: DO x DO x fPoint -> fPoint

- Axioms
  - $DistApp(CreateDO(g,g), DO) = DistApp(DO, CreateDO(g,g)) = 0$ si $(Lat(DO) = Lng(DO) = 0)$
    $V\ (Lat(DO)^2 + Lng(DO))^{1/2}$
  - $DistApp(DO1, DO2) = DistApp(DO1, CreateDO(0,0)) + DistApp(CreateDO(0,0), DO2)$

Sorte : MR <Float × Float>

Références : Float, DO, Int

- Signature

Create : Float × Float → MR

Add : MR × DO → MR

Size : MR → Int

ONT : MR × Float → MR

- Axiomes

LatMR(Create(Pr, Pg)) = Pr LngMR(Create(Pr, Pg)) = Pg

LatMR(Add(m, do)) = LatMR(m) LngMR(Add(m, do)) = LngMR(m)

ONT(Create(Pr, Pg), n) = Create(Pr, Pg)

ONT(Add(m, do), n) = 0 si n ≤ 0 ∨ Size(m) ∀ m ≥ n

Size(Create(Pr, Pg)) = 1

Size(Add(m, do)) = si ¬Appartient(m, do) alors Size(m) + 1 sinon Size(m)