**/ttb/central/hotLine**

**content:**

hotline for emergency commands

**definition:**

string emergencyContent

string affectedSystem

**type:**

one topic fort all bots

**example**:

emergencyContent: "emergencySTOP"

affectedSystem: "all"

**/ttb/central/statusBot**

**content:**

different status informations for each bot, updated on any change of bot-status

**definition:**

#unique identifier for a specific bot

string botID

#one of the following: 'load', 'transport', 'charge', 'move', 'defect'

string botStatus

#textual description of the bot, does not have to be unique, might be used for Identification or types of bots

string botName

#load status of powers supply in % fro 0 .. 100

uint8 botAkkuStatus

#unique identifier for specific tool attached to the bot

string botAttachedToolID

#textual description of the tool attached to the bot, does not have to be unique, might be used for Identification or types of tools

string botAttachedToolName

#unique identifier of actual job the bot is integrated to

string botActualJobID

#unique identifier of next planned job for the bot

string botNextPlannedJobID

#actual role of the bot for actual job, one of the following: 'master', 'slave'

string botActualRole

#actual name of master for bot in case bot is slave to a job, otherwise other content

string botActualteam\_leader

#tbd 3 or 6 DOF (3 should be sufficient)

float32[] botPositionOrientation

**type:**

one topic for all bots

**example**:

botID: "\_b02"

botStatus: "disconnect"

botName: "bot\_b02"

botAkkuStatus: 94

botAttachedToolID: "12345"

botAttachedToolName: "xxx"

botActualJobID: "xyz\_100"

botNextPlannedJobID: "xyz\_200"

botActualRole: "slave"

botActualteam\_leader: "tetrabotCENTER"

botPositionOrientation: [0.0, 0.0, 0.0, 0.0, 0.0, 0.0]

**/ttb/tetrabotCENTER/battery** (just for test purpose)

**content:**

official ros battery status msg

**definition:**

uint8 POWER\_SUPPLY\_STATUS\_UNKNOWN=0

uint8 POWER\_SUPPLY\_STATUS\_CHARGING=1

uint8 POWER\_SUPPLY\_STATUS\_DISCHARGING=2

uint8 POWER\_SUPPLY\_STATUS\_NOT\_CHARGING=3

uint8 POWER\_SUPPLY\_STATUS\_FULL=4

uint8 POWER\_SUPPLY\_HEALTH\_UNKNOWN=0

uint8 POWER\_SUPPLY\_HEALTH\_GOOD=1

uint8 POWER\_SUPPLY\_HEALTH\_OVERHEAT=2

uint8 POWER\_SUPPLY\_HEALTH\_DEAD=3

uint8 POWER\_SUPPLY\_HEALTH\_OVERVOLTAGE=4

uint8 POWER\_SUPPLY\_HEALTH\_UNSPEC\_FAILURE=5

uint8 POWER\_SUPPLY\_HEALTH\_COLD=6

uint8 POWER\_SUPPLY\_HEALTH\_WATCHDOG\_TIMER\_EXPIRE=7

uint8 POWER\_SUPPLY\_HEALTH\_SAFETY\_TIMER\_EXPIRE=8

uint8 POWER\_SUPPLY\_TECHNOLOGY\_UNKNOWN=0

uint8 POWER\_SUPPLY\_TECHNOLOGY\_NIMH=1

uint8 POWER\_SUPPLY\_TECHNOLOGY\_LION=2

uint8 POWER\_SUPPLY\_TECHNOLOGY\_LIPO=3

uint8 POWER\_SUPPLY\_TECHNOLOGY\_LIFE=4

uint8 POWER\_SUPPLY\_TECHNOLOGY\_NICD=5

uint8 POWER\_SUPPLY\_TECHNOLOGY\_LIMN=6

std\_msgs/Header header

uint32 seq

time stamp

string frame\_id

float32 voltage

float32 current

float32 charge

float32 capacity

float32 design\_capacity

float32 percentage

uint8 power\_supply\_status

uint8 power\_supply\_health

uint8 power\_supply\_technology

bool present

float32[] cell\_voltage

string location

string serial\_number

**type:**

one topic per bot

**example:**

header:

seq: 5

stamp:

secs: 0

nsecs: 0

frame\_id: ''

voltage: 94.0

current: 94.0

charge: 94.0

capacity: 94.0

design\_capacity: 100.0

percentage: 94.0

power\_supply\_status: 0

power\_supply\_health: 0

power\_supply\_technology: 0

present: True

cell\_voltage: [15.300000190734863, 16.100000381469727]

location: ''

serial\_number: ''

**/ttb/central/stillAlive**

**content:**

send a still alive message every second

**definition**:

string botID

**type:**

one topic for al bots

**example**:

botID: "tetrabotCENTER"

**/ttb/tetrabotCENTER/posAndOri**

**content:**

position & orientation, velocity and acceleration per bot

**definition:**

std\_msgs/Header header

bool returnStatus

float32[6] raw\_pos\_ori

float32[6] cor\_pos\_ori

float32[3] velocity

float32[3] acceleration

**type:**

one topic per bot