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* COPPE / UFRJ - Universidade Federal do Rio de Janeiro
* PESC - Programa de Engenharia de Sistemas e Computação
* Disciplina: CPS730 - Internet das Coisas
* Professor: Claudio Miceli
* Trabalho Final - Emergency Sound Detection
* Data: 15/AGO/2022
* Nome: Luiz Marcio Faria de Aquino Viana, M.Sc.

    * Formacao: Engenheiro Eletricista com Enfase em Engenharia de Sistemas e Computação

* DRE: 120048833
* CPF: 024.723.347-10
* RG: 08855128-8 IFP-RJ
* Registro: 2000103581 CREA-RJ
* E-mail: luiz.marcio.viana@gmail.com
      Imarcio@cos.ufrj.br
* Tel.: +55-21-99983-7207
* 001-EmergencySound_MessageRequestManual.txt
*/
1. REQUEST IDENTIFYER GENERATOR
       <RequestId>YYYYMMDD_HHmmss_999999</RequestId>
       YYYY - request date time year
       MM - request date time month
       DD - request date time day of month
       HH - request date time hour
       mm - request date time minute
       ss - request date time seconds
       999999 - six digits random number
2. REMOTE UNIT IDENTIFYER GENERATOR
       <RemoteUnitId>999999</RemoteUnitId>
       999999 - six digits random number created at installation
3. PASSWORD CODE / DECODE METHOD
       [APPKEY][PASSWRD]
                                          ;; concat static application key number with the user password
                                          ;; then generate MD5 hash code
4. UUID GENERATOR
       [SESSION_UUID]
                                                 ;; 35 characters length UUID number generator
       [FILE UUID]
       [MODEL UUID]
5. LIST OF MESSAGES
5.1. REQUEST MESSAGES
       REQMSG_LOGIN
                                          1001
                                                 ;; login request message
                                                 ;; model update request message
       REQMSG_MODELUPDATE
                                          1011
       REQMSG_SENDDATA
                                          1021
                                                 ;; send data request message
                                          1099
                                                 ;; whatchdog packet request message
       REQMSG_WHATCHDOG
5.2. RESPONSE MESSAGES
                                                 ;; login response message
       RESPMSG LOGIN
                                          9001
       RESPMSG MODELUPDATE
                                          9011
                                                 ;; model update response message
       RESPMSG SENDDATA
                                                 ;; send data response message
                                          9021
       RESPMSG_WHATCHDOG
                                                 ;; whatchdog packet response message
                                          9099
```

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000 - Success
      101 - Invalid username or password
      102 - Invalid session UUID
4. MESSAGES
4.1. LOGIN MESSAGE
<Request>
      <ReguestId>20220815 134255 012345</ReguestId>
      <Command>REQMSG_LOGIN</Command>
      <Params>
             <RemoteUnitId>0123456</RemoteUnitId>
             <Username>Imarcio</Username>
             <Password>!@#$%^&*()</Password>
      </Params>
</Request>
<Response>
      <Responseld>20220815_134255_012345/Responseld>
      <Response>RESPMSG LOGIN</Response>
      <Status>
             <StatusCode>000</StatusCode>
             <StatusMessage>Success</StatusMessage>
      </Status>
      <ResponseData>
             <SessionUUID>12345678901234567890123456789012345
      </ResponseData>
</Response>
4.2. MODEL UPDATE MESSAGE
<Request>
      <ReguestId>20220815 134255 012345</ReguestId>
      <Command>REQMSG_MODELUPDATE</Command>
      <Params>
             <SessionUUID>12345678901234567890123456789012345</SessionUUID>
      </Params>
</Request>
<Response>
      <Responseld>20220815 134255 012345</Responseld>
      <Response>RESPMSG_SENDDATA</Response>
      <Status>
             <StatusCode>000</StatusCode>
             <StatusMessage>Success</StatusMessage>
      </Status>
      <ResponseData>
             <SessionUUID>12345678901234567890123456789012345
             <ModelUUID>1234567890123456789012345</ModelUUID>
             <ModelDateTime>20220815 134255 012345</ModelDateTime>
             <ModelDataBase64>[MODELDATA BASE64]
      </ResponseData>
</Response>
4.3. SEND DATA MESSAGE
<Request>
      <RequestId>20220815 134255 012345</RequestId>
      <Command>REQMSG_SENDDATA</Command>
      <Params>
             <SessionUUID>12345678901234567890123456789012345</SessionUUID>
             <FileName>[FILENAME]</FileName>
             <FileSize>[FILESIZE]</FileSize>
             <FileDataBase64>[FILEDATA BASE64]</FileDataBase64>
      </Params>
</Request>
<Response>
```

```
<Responseld>20220815_134255_012345</Responseld>
      <Response>RESPMSG SENDDATA</Response>
      <Status>
             <StatusCode>000</StatusCode>
             <StatusMessage>Success</StatusMessage>
      </Status>
      <ResponseData>
             <SessionUUID>12345678901234567890123456789012345</SessionUUID>
             <FileUUID>12345678901234567890123456789012345</FileUUID>
      </ResponseData>
</Response>
4.4. WHATCHDOG MESSAGE
<Request>
      <ReguestId>20220815 134255 012345</ReguestId>
      <Command>REQMSG_WHATCHDOG</Command>
      <Params>
             <SessionUUID>12345678901234567890123456789012345
      </Params>
</Request>
<Response>
      <Responseld>20220815 134255 012345</Responseld>
      <Response>RESPMSG_SENDDATA</Response>
      <Status>
             <StatusCode>000</StatusCode>
             <StatusMessage>Success</StatusMessage>
      </Status>
      <ResponseData>
             <SessionUUID>12345678901234567890123456789012345</SessionUUID>
             <SessionDateTime>20220815 134255 012345</SessionDateTime>
             <SessionTimeMili>0123456789</SessionTimeMili>
```

</ResponseData>

</Response>