Protokoły komunikacji klient-serwer <<Wyliczenie>> <<Wyliczenie>> <<Wyliczenie>> ulpStatus **IStatus** nvcpStatus OK = 200 READY = 0x20SUCCESS = 0x20 OPER FAIL = 301 WAITING_CONNECTION = 0x21 WRONG PASS = 0x30OPER_STAT_FAIL = 302 BUSY = 0x30WRONG_LOGIN = 0x31 KEY_FAIL = 303 UNAVAILABLE = 0x40 NONE = 0xFF STATUS_FAIL = 304 NONE = 0xFF DATA_FAIL = 305 OTHER_FAIL = 307 <<Interfejs>> **IProtocol** + encodeMsg(data:string) **NVCP (Network Voice Control ULP** (User Login Protocol) **NVP** (Network Voice Protocol) Protocol) - version: int - version: int - operationType: string - loginTo: string - version: int - operationStatus: ulpStatus - voiceData: string operationType: string - protocolStatus: IStatus - textData: string - operationStatus: nvcpStatus + data: string - protocolStatus: IStatus + NVP(data: string) - timeStamp: DateTime + NVP() + data: string + ULP(data: string) + NVP(user: string, Vdata: string, Tdata: + encodeMsg(msg: string): void string) + NVCP(data: string) + ToString(): string + encodeMsg(msg: string): void + encodeMsg(data:string): void + ToString(): string + ToString(): string

Obsługa użytkowników na serwerze

UserAccount

- passwordSHA: string
- nickName: string
- + UserAccount(password: string)
- +UserAccount(password: string,
- nickname: string)
- + ToString(): string

SubscriberItem

- address: IPEndPoint
- status: nvcpStatus
- time: DateTime
- token: int
- status: nvcpStatus, time: DateTime,

UserAccountList

- usersList: ConcurrentDictionary<string, UserAccount>
- + UserAccountList()
- + login(name: string): int
- + createAccount(name: string, password: string): int
- +exist(name: string): bool
- + removeAccount(name: string): int
- + clear(): int
- + changePassword(name: string, oldPass:
- string, newPass: string)
- +changeNickname(name: string,
- newNick: string)
- + writeToXML(): void
- + readFromXML(): void
- + this[key:string]: string
- + GetEnumerator(): IEnumerator<KeyValuePair<string,

UserAccount>>

- + SubscriberItem(address: IPEndPoint, token: int)

ActiveSubscriberList

- sublist: Concurrent Dictionary < string, SubscriberItem>
- + exist(name: string): bool
- + add(login: string, data:SubscriberItem):
- + remove(login: string): int
- + clear(): int
- + this[name: string]: SubscriberItem
- + GetEnumerator():

IEnumerator<KeyValuePair<string, SubscriberItem>>

Obsługa list kontaktów

ContactItem

- nick: string
- pinned: bool
- + ContactItem(nickname: string)
- + ContactItem(nickname: string, pinned: bool)
- + changeNick(other: string): int

UserContactList

- ownerLogin: string
- contactList:

ConcurrentDictionary<string,

ContactItem>

- + UserContactList(ownerLogin: string)
- + add(login: string, data: ContactItem)
- + remove(login: string)
- + this[login: string]: ContactItem
- + writeToXMLAsync(): Task<int>
- + readFromXMLAsync():
- Task<UserContactList>