#### Protokoły komunikacji klient-serwer <<Wyliczenie>> <<Wyliczenie>> <<Wyliczenie>> ulpStatus **IStatus** nvcpStatus OK = 200 READY = 0x20SUCCESS = 0x20 OPER\_FAIL = 301 WAITING\_CONNECTION = 0x21 $WRONG_PASS = 0x30$ OPER\_STAT\_FAIL = 302 BUSY = 0x30 $WRONG_LOGIN = 0x31$ KEY\_FAIL = 303 UNAVAILABLE = 0x40 NONE = 0xFF STATUS\_FAIL = 304 NONE = 0xFFDATA\_FAIL = 305 OTHER FAIL = 307 <<Interfejs>> **IProtocol** + encodeMsg(data:string) **ULP** (User Login Protocol) **NVCP (Network Voice Control** Protocol) - version: int operationType: string - version: int - operationStatus: ulpStatus operationType: string - protocolStatus: IStatus - operationStatus: nvcpStatus + data: string - protocolStatus: IStatus - timeStamp: DateTime + ULP(data: string) + data: string + encodeMsg(msg: string): void + NVCP(data: string) + ToString(): string + encodeMsg(data:string): void + 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
- + SubscriberItem(address: IPEndPoint, status: nvcpStatus, time: DateTime, token: int)

#### 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>>

## ActiveSubscriberList

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

IEnumerator<KeyValuePair<string,

SubscriberItem>>