**Lecture 2       iSeries System Security**

**iSeries Security System**

- The iSeries security system is built into the operating system, allowing for consistent security between the operating system and other licensed programs. (There are several software components available from IBM that extend the functions and capabilities of the system - licensed program product).   
- Security has three separate aspects:

1 - Physical security of the hardware

2 - Backup of the data files

3 - Prevention of unauthorized access to the data files.

- System values, security levels, assistance levels, user profiles, group profiles, and authorization lists work together to allow the manipulation and control of data on the iSeries.

- Commands to use WRKSYSVAL, DSPSYSVAL

- WRKSYSVAL use Option 5 to display the value

- List type of Security Value to filter on \*ALL, \*SEC, \*DATTIM etc

**. Security System Values**

QPWDMINLEN         QPWDMAXLEN     QPWDEXPITV   
QDSPSGNINF          QMAXSIGN          QMAZSGNACN   
QLMTDEVSSN         QINACTIT            QINACTMSGQ   
QDSCJOBITV           QUPSMSGQ         QUPSDLYTIM   
QPWRRSTIPL           QSECURITY

**. Security Levels**

- System i supports five security levels.     QSECURITY=10,20,30,40,50   
- DSPSYSVAL (QSECURITY)

**. Assistance Levels** (QASTLVL)

- \*BASIC                \*INTERMED            \*ADVANCED   
- If the user signs off the system, the current assistance level for each display remains stored until the user signs on and changes it.

**. User Profile (\*USRPRF) and Object Authorities**

- The user profile is an object that defines system access for the user: what objects can be accessed, what libraries can be used, what authorities are assigned, and what special groups the user belongs.   
- DSPUSRPRF (F4 , F1)   
- The Current library is where any new objects that the user create reside by default.

- User classes:

\*SECOFR      \*SECADM          \*PGMR        \*SYSOPR        \*USER

- Each user profile class has special default authorities based on the security level.

- Each object has authorities attached to the object.   
\*ALL         \*CHANGE             \*USE               \*EXCLUDE

- A group profile (\*GRPPRF) is similar to a user's profile except it gives the same set of authorities to multiple users.

**. Job Descriptions (\*JOBD)**

- A job description includes attributes such as where the job is executed, the priority of the job, the printer to be used, and how message logging is to be handled.   
- DSPJOBD     F4

* Jobq attached to Sub-system

. **Outq Output Queue**

* Outq attached to printer

. **Message Queue**

- Message queue is not attached to anything

**. Library List**

- The library list provides an effective method to help program locate objects on the system. (An Example)   
- DSPLIBL   
- CHGCURLIB   
- ADDLIBLE   
- RMVLIBLE   
- CHGLIBL   
- EDTLIBL

**Let’s create a new Library C436nn where nn is your login ID number**

**Add this library in your list**

**Make this library your current library**

**Change position of this library up/down of QGPL or QTEMP**