# iSeries security implementation plan

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# CONTENTS

# INTRODUCTION

This is a proposal plan to implement a better security system for the company "ABC Company". In this plan we will highlight and describe the methods to increase security of the companies' iSeries system.

ISeries or more commonly called as/400 is a multi-user system which allows for multitasking that includes hardware, software, and security. We will cover many different areas in the iSeries system that can be used to improve security.

In order to give the company the fullest extent of security we will cover areas including; object Authority. Below I will go over each of these areas and describe how "ABC Company" can use these different techniques to improve their security.

## The Objective

To use the knowledge I have gained while attending this course to submit a proposal that will improve "ABC Companies" iSeries security system.

# GENERAL INFORMATION

## User Classes

AS/400 special authority user class reference list.

| | | |
|---|---|---|
| **\*SECOFR** | Security Officer | Security officer has FULL system authority |
| **\*SECADM** | Security Admin | Manage, grant, revoke all database authorities and privileges |
| **\*SYSOPR** | System operator | All resource access, change job priority |
| **\*PGMR** | Programmer | Grant object authority, All resource access |
| **\*USER** | User | Default user class |

## Company Structure

Each Group will default with at least one \*PGMR, and one \*USER except the IT department.

| Department | Employees | Group Name | User Class |
|---|---|---|---|
| **Human Resources** | 2 | QHR | \*PGMR, \*USER |
| **Sales** | 8 | QSALES | \*PGMR, \*USER |
| **IT** | 4 | QIT | \*SECOFR, SYSOPR, \*SECADM |
| **Marketing** | 2 | QMARKETING | \*PGMR, \*USER |

| Accounting and Financial | 3 | QACCFIN | *PGMR, *USER |
|---|---|---|---|

# EXECUTION STRATEGY

## Object Authority

Common object authority commands and uses:

| GRTOBJAUT | Grant object authority |
|---|---|
| EDTOBJAUT | Edit object authority |
| CHGAUT | Change object authority |
| WRKAUT | Work with authority |
| RVKOBJAUT | Revoke object authority |

Object authority plays a large part in overall iSeries system security. To begin you only want to grant the object authority absolutely for what the employees need to complete their day to day work.

All objects can have individual authority added to them this includes *CHANGE, *ALL, *USE, *EXCLUDE.

To give "ABC Company" the highest level of security, only people in the IT department with the user class *SECADM, *SECOFR, and *SYSOPR will have *ALL as authority over any object.

Regular users will only have *CHANGE authority on objects that are absolutely necessary for them to change in order to accomplish their work.

RVKOBJAUT is a command that can be used on an employee's authority for an object that they do not need access to.

## Security System Values

### QSECURITY-

This allows you to choose how much security you want the system to have it is ranked from 10 to 50, 50 being the highest. Below I will go into detail about each level of security and what it means.

- 50: Sign on and resource security, enhanced integrity protection.
- 40: Sign on and resource security, integrity protection.
- 30: Sign on security and resource security.
- 20: Sign on security.
- 10: No system enforced security.

We will implement level 40 security for the company to have integrity protection. This will require users to sign in using a password as well as have given authority over an object to use it. It will also not allow access from programs that are not authorized.

## SOURCES:

https://scs.senecacollege.ca/~lydia.li/AS400/index.html

https://search400.techtarget.com/definition/AS-400

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https://www.ibm.com/support/knowledgecenter/en/ssw_ibm_i_73/rzarl/rzarlwrkobjauth.htm

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