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Simplify Upgrades with New APIs

[System iNetwork Systems Management Newsletter](#)

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IBM recently released three software agreement and upgrade APIs (one is 5.2, the two others are 5.4). To make it easier to take advantage of these, I have created three corresponding CL commands:

- The command CHKSWAGR(Check Software Agreement) uses the QLPRAGR API.
- The command ACPSWAGR(Accept Software Agreement) uses the QLPACAGR API.
- The command ALCLCSPC(Allocate LIC Space) uses the QLPALCSP API.

The three APIs, which I have front-ended with command descriptions, provide the following functionality:

Check Software Agreement (API QLPRAGR; 5.4)--This command allows you to verify the actual software agreement status for a specific product.

Accept Software Agreement (API QLPACAGR; V5R2)--Some licensed programs will present a display panel during installation to prompt the operator to accept the software agreement prior to installation. To be able to install such a product without operator intervention, you can run this command before the installation process.

Allocate Licensed Internal Code (LIC) Space (API QLPALCSP; V5R4)--This command should be run prior to upgrading to the next release. It instructs the system to allocate any additional LIC space required for the upgrade. This will speed up the actual upgrade processing time. This API has been provided for back-level systems by means of PTFs. If you are running 5.1, 5.2 or 5.3, check out APARs SE21133, SE21040, SE15828, and SE21069 to verify that you have the required PTFs installed.

I've included the crucial part of the API documentation as help panel groups to ease the use of the commands and to provide online command documentation. I have also included a UIM menu that will not only point you to the above three commands but will also direct you to other software agreement and upgrade commands and menus.

The Software Agreement and Upgrade Commands (CMDSWAGR) menu allows you to work with commands related to administration of software agreements and perform system upgrade activities. The menu will only display commands to which you have *USE authority. Contact your security officer to obtain any missing authorization to the software agreement and upgrade commands.

```
CMDSWAGR           Software Agreement and Upgrade Commands

                                                                System:
WYNDHAMW
Select one of the following:
```

Commands

1. Check Software Agreement

CHKSWAGR

2. Accept Software Agreement

ACPSFWAGR

3. Work with Software Agreements

WRKSWAGR

5. Display Software Resources

DSPSWRSC

7. Allocate Licensed Internal Code (LIC) Space

ALCLICSPC

9. Work with License Information

WRKLICINF

Related Command Menus

10. Work with Licensed Programs

WRKLICPGM

Bottom

Selection or command

====> _____

F3=Exit F4=Prompt F9=Retrieve F12=Cancel

Gathering all relevant commands in one place is often a useful approach when you need quick and direct access to functions and utilities supporting a specific systems management area. Feel free to add your favorite software agreement and upgrade commands in case you miss any.

The following source code is involved in creating all the commands and objects presented in this article:

CBX9841	RPGLE	Check Software Agreement - CPP
CBX9841H	PNLGRP	Check Software Agreement - Help
CBX9841X	CMD	Check Software Agreement
CBX9842	RPGLE	Accept Software Agreement - CPP

CBX9842H	PNLGRP	Accept Software Agreement - Help
CBX9842X	CMD	Accept Software Agreement
CBX9843	RPGLE	Allocate LIC Space - CPP
CBX9843H	PNLGRP	Allocate LIC Space - Help
CBX9843X	CMD	Allocate LIC Space
CBX984U	UIM	Software Agreement and Upgrade Commands
CMDSFWAGR		
CBX984M	CLP	Software Agreement and Upgrade Commands - Build commands

To have all these objects created correctly, compile and run the CBX984M CL program following the instructions in the source header.

[Download the zip file containing all the source code.](#)

Source URL: <http://iprodeveloper.com/systems-management/simplify-upgrades-new-apis>