

MarkMagic 6 and JMagic6 Installation Instructions

**Version 6 Release 1
&
Version 6 Release 5**

Modification Level: 081219



MarkMagic

Support : 914-963-6600 • Option 4 Fax: 716-712-0666 • help@cybra.com



We identify with success.

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**IMPORTANT INFORMATION FOR OLDER 5.1 USERS
(PLEASE READ BEFORE UPGRADING TO MARKMAG 6)**

Users upgrading from version 5.1 mod level 051121 or earlier, to version 6.1 **must** upgrade to version 5.1 mod level 060310 first. Note: The MarkMagic 6.1 upgrade procedure will automatically cancel if the user attempts to upgrade from a 5.1 mod level prior to Mod level 060310.

Summary of issue: During a 5.1 to 6.1 upgrade, some 5.1 programs are replaced in order to allow both 5.1 to 6.1 to coexist. CYBRA has found older 5.1 mod levels (any before 060310) are not 100% compatible with these updated programs resulting in some printing issues. Older 5.1 users must upgrade to version 5.1 mod level 060310 before upgrading to 6.1. Please contact help@cybra.com or 914-963-6600 option 4 for more details. A 5.1 060310 Quick Update is available at: www.cybra.com

A. INSTALLATION / UPGRADE ROADMAPS

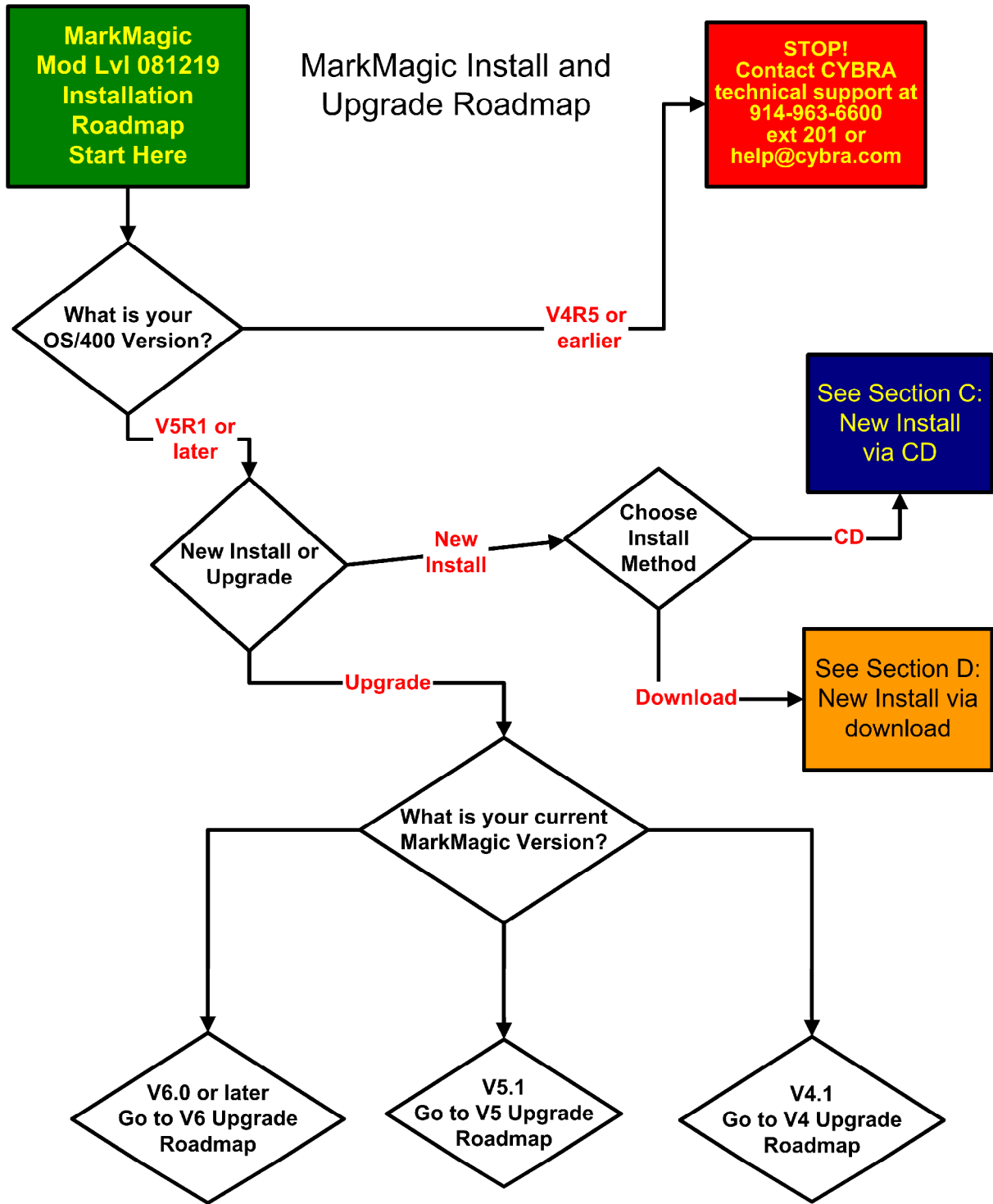
To find your System i OS Version enter the following command: DSPPTF

To determine your current MarkMagic Version and Mod Level (if MarkMagic is currently installed), start MarkMagic (STRMRKMAG), press F9 for a command line, and type the following command: SETMMPRM

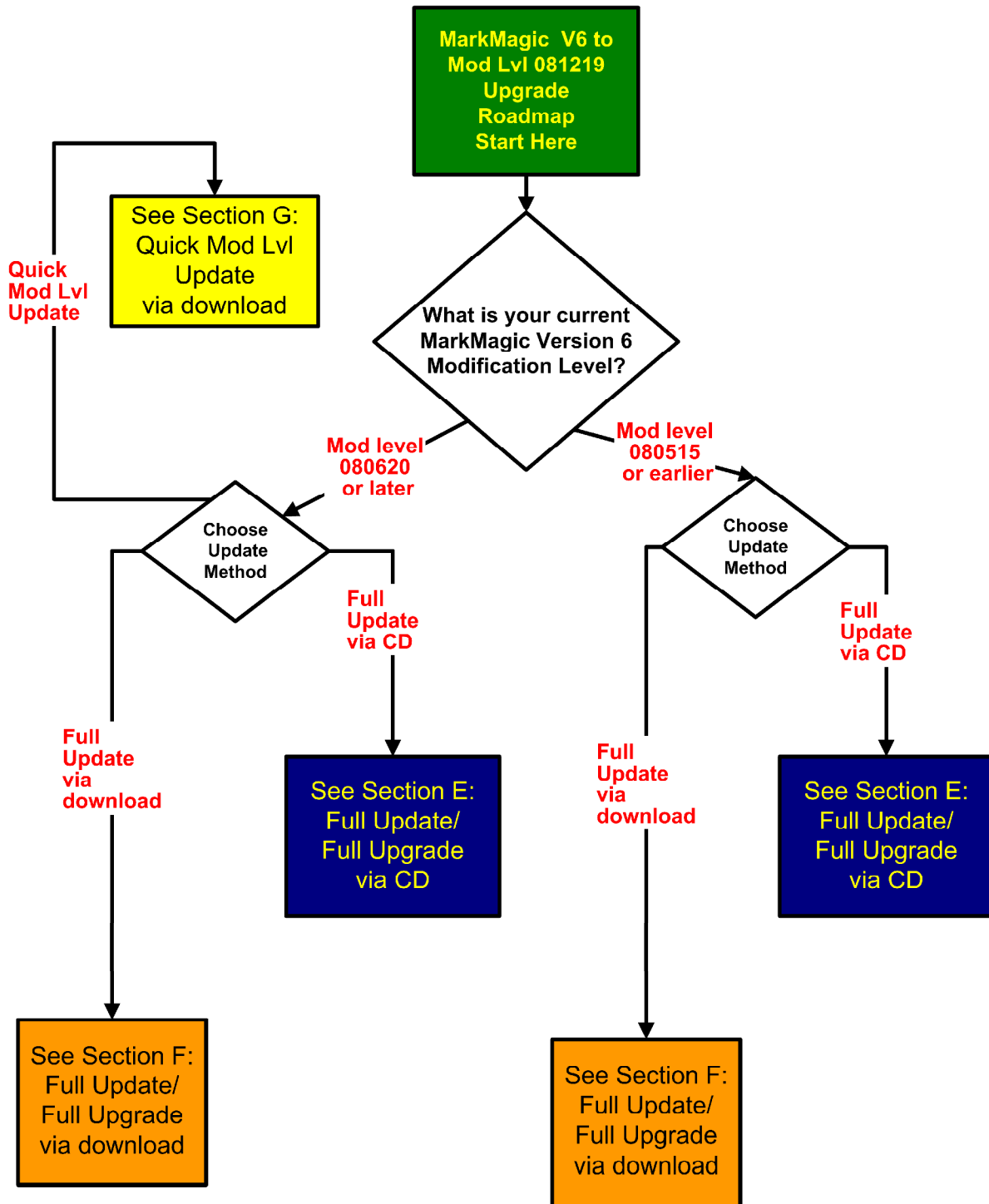
IBM's latest operating system "V6R1M0" requires MarkMagic to be split into two versions compiled to different OS versions. MarkMagic 6.1 and MarkMagic 6.5 contain identical fixes and updates.

1. MarkMagic 6.5 mod level 081219 is compatible with IBM's System i OS V6R1M0. If you are running an older MarkMagic version and plan to upgrade to OS V6R1M0, an upgrade to MarkMagic 6.5 is required. MarkMagic 6.5 will not run on an OS release prior to V6R1M0.
2. MarkMagic 6.1 mod level 081219 is compatible with System i OS releases prior to V6R1M0. MarkMagic version 6.1 and all previous versions are not compatible with System i OS release V6R1M0.
3. Both MarkMagic versions (6.1 and 6.5) are shipped on the MarkMagic Product CD. The install/upgrade program detects your OS version and automatically installs the compatible MarkMagic version. If you are downloading MarkMagic from the web, be sure to download the correct version for your OS version and mod level.
4. JMagic version 6.1 mod level 081219 is compatible with both MarkMagic 6.1 mod level 081219 and MarkMagic 6.5 mod level 081219.

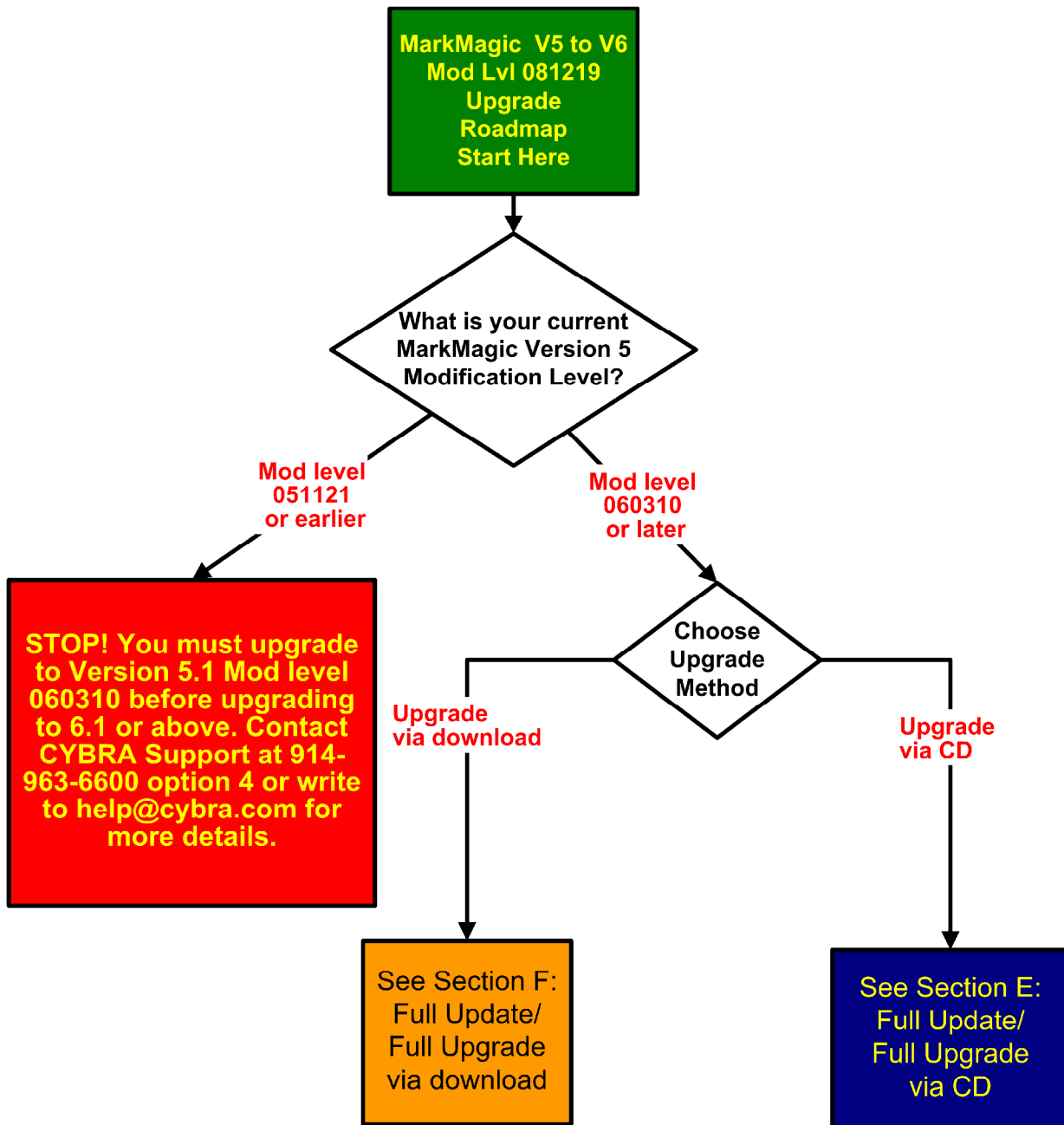
NOTE: If multiple versions of MarkMagic are installed on your system, please see *Upgrade Notes* in section E or F for important details.



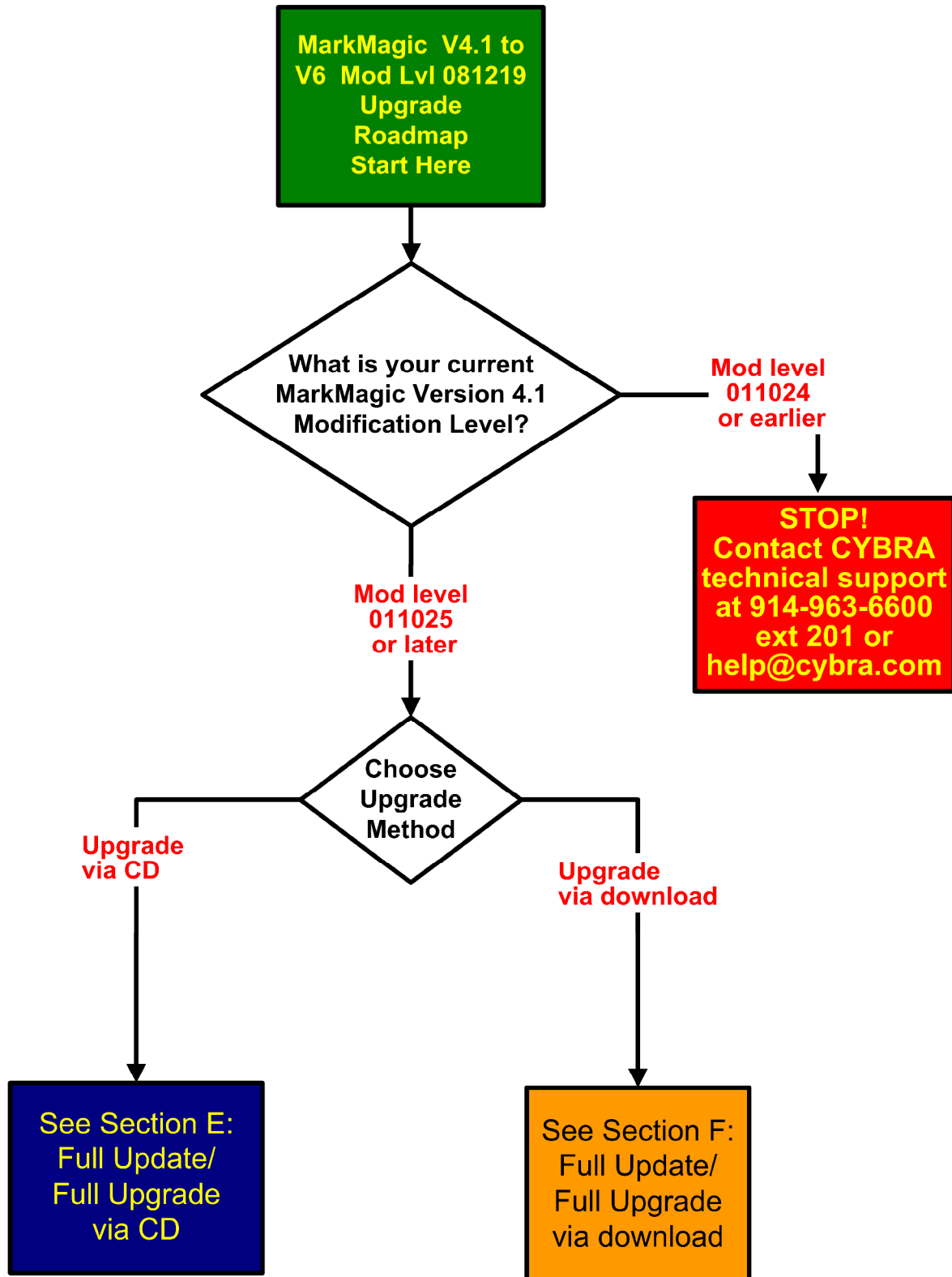
MarkMagic Version 6 Upgrade Roadmap



MarkMagic Version 5 Upgrade Roadmap



MarkMagic Version 4 Upgrade Roadmap



B. INTRODUCTION

Welcome to CYBRA Corporation's MarkMagic Bar Code and Label Printing Software. Enclosed is the latest modification level of MarkMagic 6 Bar Code Labels, RFID Tags, and Electronic Forms Software for the IBM System i featuring our JMagic 6 Client – the world's only WYSIWYG label and forms designer written in Java.

MarkMagic installation comes in a variety of flavors. The traditional CD based installation is still available. In addition, you now have the alternative of downloading MarkMagic from the CYBRA website.

1. INSTALLATION TERMS

Install – An Install is a new installation of MarkMagic. We offer two methods of installing MarkMagic 6, via CD or via download.

Upgrade – An Upgrade is a move from Version to Version. For example, if you are an existing customer on MarkMagic Version 4.1 or 5.1 and you wish to install MarkMagic 6. We offer two methods of upgrading, via CD or via download.

Update – An Update is a move from one MarkMagic 6 Mod Level to a later modification level of MarkMagic 6 (Example: updating/replacing 6.0 Mod Level 070517 with 6.1 Mod Level 081219). We offer three methods of updating modification levels: Full update via CD, Full update via download, or Quick update via download. *Note:* 6.1 Quick Update is available for version 6.1 Mod level 080620 users.

Fixes – Fixes are single updates to individual program objects and are not applicable to all customers. All fixes distributed since a Mod Lvl release will be incorporated into the next Mod Lvl release. Visit <http://www.cybra.com/support/version-6-updates.html> to see if any applicable fixes have been release for your modification level and printer device types.

You must be at OS/400 V5R1M0 or later to download and install MarkMagic 6 from the web. If you're using OS/400 V4R5 or V4R4, please contact help@cybra.com. To download MarkMagic 6, visit <http://www.cybra.com/register.html>

If installing from CD, the CD contains installation programs for both MarkMagic 6 (the System i product), and JMagic 6 (the WYSIWYG client for the PC). Both MarkMagic versions (6.1 and 6.5), are shipped on the MarkMagic Product CD.

2. WHAT'S NEW IN MARKMAGIC 6

Enhancements in MarkMagic 6

- New MRKMAG60 library. One of the reasons MarkMagic 6 can coexist with older MarkMagic versions is because a unique name is given to the core MarkMagic library for each new version *Note:* MarkMagic version 4.1 and older use: MRKMAG and MRKMAG 5 uses MRKMAG50.
- New Print Manager Add-On Option: This “rules based” option allows users to define extremely complex print, fax, and email jobs with no programming. (Please see Section 5 for more details on this powerful option)
- Native System i FAX support added to PDF/Email Option. Any format designed using the MarkMagic HPPCL5, HPLJ4P, or AFPDS printer device types can now be faxed directly from the System i without format modification. This option requires IBM Facsimile Support for System i (licensed program: 5798FAX) to be installed and functional with an enhanced services fax user profile enabled. (Please see Section 5 for more details and prerequisites)
- New RFID Field Type. MarkMagic 6 introduces a new field type "RFID" to meet your dynamic RFID tag requirements. The RFID field type supports various tag encoding schemes, tag types, password locking, user data, and can optionally convert System i data to HEX.
- New Field Usage Definition: Any variable field can have a “usage” defined as part of the field. This new feature is used mostly with RFID data and to interface with CYBRA’s native System i RFID Control Solution, EdgeMagic.
<http://www.cybra.com/edgemagic/edgemagic.html>
- New Administration Menu provides increased security and control over several MarkMagic operations. *Note:* Security Officer (SECOFR) authority is required to utilize this menu.
- Sequence Numbers allow you to predefine *SEQ numbers which can be used in MarkMagic formats. MarkMagic maintains a record of last number used.
- MarkMagic 5250 Help access via the Web. Pressing “F1” will now display our detailed web documentation in your default browser.
- New Bar Code Subtype Panels. Creating bar code fields is more intuitive than ever. Bar Code field types are now split into two popular subtypes, Standard One Dimensional

(1D) and Two Dimensional (2D). Only required fields for each subtype are displayed on the "Work with Bar Code" screens.

- New MarkMagic 6 Authorization Scheme. Please contact your account manager for a new code when upgrading from 4.1, 5.1, or 6.0.
- New RFID Print Drivers added for Intermec, Sato and Datamax printer device types.
- New Examples Library: MMEXAMPLES contains sample source code as well as sample RFID, FormWeaver, PDF/Email/Fax formats and jobs.
- NEW VICS BOL Check Digit: VICS Standard Bill of Lading check digit scheme as been added as check digit type "23"
- Enhanced PCL Laser Color Support: HPPCL5C print driver supports color text, lines, boxes and graphics. Note: target printer must support the PCL5C printer language.
- Datamax True Type font support: Datamax "class" printer drivers now support True Type fonts.
- Paxar/Avery Garmet Printer Mode Support: SNAP line of print drivers including 636 and 676 now support multiple sense marks and configurable cut distance.

3. WHAT'S NEW IN JMAGIC 6

Enhancements in JMagic 6

- New Look and Feel. JMagic has a new, updated look with new icons, and a new menu look and feel.
- New Print Manager Add-On Option GUI: This new "rules based" option allows users to define extremely complex print, fax, and email jobs with no programming. (Please see Section 5 for more details on this powerful option)
- New Lasso Tool. You can now select multiple fields on the JMagic canvas by simply clicking and dragging your mouse across the screen. *CTRL + Mouse Click* can be used to select multiple groups.
- New Search/Sort/Filter Functionality. You can now Search, Sort and Filter your *LINK Source Fields.
- Bar code MILS are now shown on the Display Tab of the Edit a Bar code dialog box. There is no need to make any calculations to make sure you have the correct number of MILS for your bar code specifications.

- New RFID Field Type. JMAGIC 6 introduces a new field type "RFID" to meet your dynamic RFID tag requirements. The RFID field type supports various tag encoding schemes, tag types, password locking, user data, and can optionally convert System i data to HEX. Once an RFID field is created, JMAGIC will display a green RFID indicator on the top of canvas.
- Convert User Library: When starting JMAGIC with either a new library or one that has not been converted to your current 6.1 version, JMAGIC now prompts the user to convert the library.
- New Fields Linking to this Field List: This extra visibility allows you to quickly find *LINK field(s) that are using a given source field.
- Canvas Display of Text *LINK Field Descriptions: *LINK fields that contain a *description* will display the description in the text field on the design canvas. This enhancement helps make navigating to fields even quicker.

4. Enhancements and Fixes in Mod Lvl 081219

Enhancements in MarkMagic 6.1 / 6.5 081219

- New add-on option "On Demand" allows the serving of MarkMagic forms over the internet to your customers, vendors and employees. MarkMagic On Demand is a web based portal that allows your customers to securely sign on (using a userid and password) and search for and display, print or e-mail their invoices, statements, purchase orders, or other MarkMagic Forms.
- New Quick Update, upgrade option for Ver. 6.1 Mod 080620 users. This is the fastest method to upgrade from Mod 080620 to Mod 081219.
- Added ability to print the Euro symbol using Printronix (PGL) printer types.
- Enabled scaleable True Type font printing on Datamax "class" printer types.
- Added new "mode" options to the Paxar garment label printer driver. Users now have the ability to control which sense marking the printer will look for as well as adjusting cut distance.

- Users now have the ability to fax documents through use of the Print Manager option.
- UPCE-1 has been added a valid barcode type for HP laser printer devices and Printronix devices.
- Fax specific help text has been added to the help documents for the PRTLBLF command.
- MarkMagic will now check for installed licensed program "AFP utilities" (5722AF1) before attempting to convert AFP graphics and page segments.

Issues fixed in MarkMagic 6.1 / 6.5 081219

- MaxiCode 2D barcode will now print in the proper position on 180 degree rotated Zebra labels.
- *FAX added as valid emulated device option in OVRPRTJOB command.
- Formats that use "@MSG" message file text fields will now print the correct information when printed as a PDF.
- Printing "variable graphics" using Datamax printer types has improved significantly.
- Updates have been made to the AFP printer driver in relation to MaxiCode 2D barcodes printing along side normal 1D barcodes. Also, the end of transmission "EOT" character will now encode correctly in the MaxiCode barcode.
- A critical update has been made to the Intermec printer driver resolving a problem that caused MaxiCode 2D barcodes to not print.
- When printing PCL formats using AFP Emulation, or faxing HP laser forms, 1D barcodes now resemble the original PCL barcode more closely.
- Updates were made to the PCL and PCLC laser printer driver including duplex printing while combining multiple graphics and barcodes, barcode sizes when printing along side graphics, "variable graphic" positioning when graphic sizes were different from page to page, and the position of 2D barcodes on landscape documents.
- Corrected a problem that caused a program to crash when using Quick Edit on a barcode field.

- Resolved a program error that occurred when copying formats to non-existent libraries and canceling out of the “create user library?” question.
- Adjusted the placement of vertical lines printed using Avery Dennison printer type. Previously, lines would appear to grow in thickness to the left. They now grow in thickness to the right.
- Changed the message received when a temporary MarkMagic license code was set to expire on that same day. Previous message was off by one day.

Enhancements in JMagic 6.1 081219

- New graphics fields will have their field names defaulted to *HEADING. This will make adding static graphics much easier removing the need to manually type “*HEADING”.

Issues fixed in JMagic 6.1 081219

- Greatly improved the WYSIWYG nature of all Avery Dennison printer types
- Graphics converted using the PHOTO and PHOTO++ quality options will now print in much higher quality than before. This is especially important for users that wish to print detailed color graphics using a PCLC color laser printer
- When copying data fields, the position “offset” value parameters have been removed.
- Box fields configured as “Solid White” will now display as solid white on the canvas, instead of transparent. This is helpful when drawing solid white boxes on top of existing shaded boxes.
- Resolved a bug that prevented users from setting a *LINK source field “start position” higher than 99. The field in question now accepts numeric values up to 9999.
- The Print Manager GUI will now accept data strings other than valid email addresses in certain Print Label File Parameters when configuring an action. This will give users the ability to design rule sets that can fax documents via these actions.

5. MARKMAGIC ADD-ON OPTIONS

RFID Add-On Option

MarkMagic 6 supports encoding “smart” labels containing RFID tags for these seven popular thermal printer types: Monarch, Zebra, Printronix, Intermec, Sato, Datamax, and Avery Dennison. Included is

support for both Class 1 and Class 0+ EPC standards as well as the more prominent Class 1, Generation 2, EPC protocol from tag manufactures. MarkMagic 6 RFID Option also supports the complex logic regarding decimal to binary to hex data conversion, so you don't have to. Just pass your System i decimal data and the RFID option will do the rest. Tag password lock/unlock and user defined data can also be defined.

Print Monitor Add-On Option

Print Monitor eliminates programming for automatic MarkMagic printing. New spooled files added to a queue or a record added to a database file will trigger a MarkMagic Job to print labels or forms.

Print Manager Add-On Option

MarkMagic Print Manager lets you take control of your document management. This new Add-On Option lets you specify rules based on document information. At run time, MarkMagic Print Manager automatically processes these rules and changes printing instructions, even bursting print jobs to print each record with its own set of instructions. Print Manager adds a whole new capability that you never had before - the power to develop sophisticated print jobs without writing a line of code. The JMagic Print Manager GUI makes defining even the most complex rule easy. *Note: This option requires V5R2M0 or higher of OS/400, PASE & JAVA v1.4.2*

PDF Email and Fax Add-On Option

PDF/Email: Can produce Adobe Acrobat PDF files containing searchable text and readable bar codes. PDF documents can be sent as e-mail attachments. *Note: This option requires V5R2M0 or higher of OS/400, PASE & JAVA v1.4.2*

FAX: Any format designed using the MarkMagic HPPCL5, HPLJ4P, or AFPDS printer device types can now be faxed directly from the System i. This option requires IBM Facsimile Support for System i (licensed program: 5798FAX) to be installed and functional with a fax profile that has enhanced services enabled. To use the Fax capability, either the SNDMMFAX or PRTLBLF command can be used. (Note: in order to take advantage of MarkMagic's automatic PCL graphic conversion to AFPDS the user must be enrolled in the system directory (WRKDIRE), the source image must in the MarkMagic graphics gallery, and licensed program: 5722AF1, IBM AFP Utilities must be enabled.

Laser Printer 2D Bar Code Add-On Option

Select this option if you need to print UPS Maxicode, PDF417 or DataMatrix 2D bar codes on HP PCL Laser or IBM AFP or IPDS laser printers.

On Demand Add-On Option (NEW)

MarkMagic On Demand creates a web based portal that allows your customers to securely sign on (using a userid and password) and search for and display, print or e-mail their invoices, statements, purchase orders, or other MarkMagic Forms. MarkMagic On Demand lets your customers download the forms they need, when they need them. *Note: This option requires V5R2M0 or higher of OS/400, PASE & JAVA v1.4.2*

FormWeaver Add-On Option

The FormWeaver option enables printing of documents that merge up to 100 formats. An example of merged formats would be a pick ticket or invoice form with a shipping label in the lower left hand corner. FormWeaver Documents can also consist of two or more different formats, each on a separate page, for each input record. An example of multiple formats per input record would be a printed bill of lading that contains a duplexed back page with special instructions.

6. VERSION HISTORY

A complete list of MarkMagic & JMagic enhancements and updates can be found at: <http://www.cybra.com/support/version-history.html>

7. LICENSE INFORMATION

The MarkMagic 6 licensing scheme requires that we know your Processor group, in addition to the CPU model and serial number. Also we need to know whether MarkMagic will be run in more than one logical partition (LPAR).

Note: A new MarkMagic 6.1 or 6.5 license code is required for all MarkMagic version 4.1, 5.1 and 6.0 upgrades.

The following command will display your Processor Group: WRKLICINF (Work with License Information) Please include the following information in your MarkMagic 6 Product Key requests:

CPU Model 3 Character value
 Processor Group P05, P10, P20, P30, P40,P50
 CPU Serial # 7 Character value
 LPAR# 000 through 999 (unlimited)

You will not be able to access your LPAR number if you do not have a previous version of MarkMagic on your system. If this is the case, please let your sales representative know. We will issue you a temporary code with a default LPAR#. After you install MarkMagic you can access your LPAR# with the following command:
 MRKMAG60/SETMMPRM

C. CD INSTRUCTIONS - NEW INSTALLATION

1. INSTALLATION

Sign on to a new session as QSECOFR and confirm both QTEMP and QGPL are on your library list.

Insert the CD into the drive, and enter the following on an AS/400 command line:
LODRUN *dddddd* (where *dddddd* is the optical device name).

Once the LODRUN command is executed, the install procedure automatically confirms your OS release, copies the compatible 6.1 or 6.5 libraries from the CD to QTEMP and the MarkMagic install program will start running. The first screen that is displayed is a message that you are installing MarkMagic 6, mod 081219. Enter G to continue or C to cancel.

MarkMagic will load automatically and prompt you at various points for information such as your Product Keys and device types. When the install is complete, you will be prompted to sign off and then sign back on. The entire installation of MarkMagic should take less than 30 minutes.

Towards the end of the installation process, you will see the Set MarkMagic Parameters Screen:

```

Set MarkMagic Parameters

Date: 12/27/08      CPU model type: 270      Version: 6.1
Time: 09:32:11     CPU serial num: 1060370  Mod lvl: 081219
                   Processor group: P05
                   Logical partitn: 000

Type choices, press Enter.

Printer device types . . . *ALL_____ F4 for list
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____

More...

F3=Exit   F5=Refresh   F8=Product Keys   F12=Cancel

```

Add any additional device types or *ALL to test with all available device types.

Press F8 to Set MarkMagic Product Keys (Call your Account Manager or CYBRA Sales at 914-963-6600 Option 3 for a MarkMagic 6 rental key).

```

Set MarkMagic Product keys

Date: 12/27/08           CPU model type: 270           Version: 6.1
Time: 09:27:01          CPU serial num: 1060370        Mod lvl: 081219
                          Processor group: P05
                          Logical partitn: 000

Type choices, press Enter.

Product keys      Expiration      Maximum      Maximum
                  (mm/dd/yy)      Users        Printers
1. 2C012 169BE 700C0 71C01 12 / 31 / 09   0           9999999     9999999
   _____  _____  _____  _____  00 / 00 / 00   0           _____     _____
   _____  _____  _____  _____  00 / 00 / 00   0           _____     _____
   _____  _____  _____  _____  00 / 00 / 00   0           _____     _____
   _____  _____  _____  _____  00 / 00 / 00   0           _____     _____
   _____  _____  _____  _____  00 / 00 / 00   0           _____     _____
   _____  _____  _____  _____  00 / 00 / 00   0           _____     _____
   _____  _____  _____  _____  00 / 00 / 00   0           _____     _____
   _____  _____  _____  _____  00 / 00 / 00   0           _____     _____
   _____  _____  _____  _____  00 / 00 / 00   0           _____     _____

F3=Exit      F5=Refresh      F8=Work with license information      F12=Cancel
    
```

Default 45 day Runtime (Print Only) Product Key is enabled if no Product Key is entered.

The rental key you will be given will enable ALL MarkMagic features. Customers who receive permanent keys will require multiple product keys to activate the following MarkMagic 6 optional features:

- Print Monitor Option
- PDF Fax & Email Option
- Laser Printer 2D Option
- RFID Printing Option
- FormWeaver Option
- Print Manager Option
- On Demand Option

Once the installation is complete, please sign off your QSECOFR session to close and deallocate any open files. Sign back on and begin using MarkMagic.

2. TROUBLESHOOTING

Two MarkMagic Installation Logs are created upon completion of installation. The summary log contains MarkMagic installation comments, while the detail log also includes the full job log. The log's details are:

Spooled Filename: MARKMAGIC User data: INSTALLLOG

In addition, the detail log is written to the following database file:

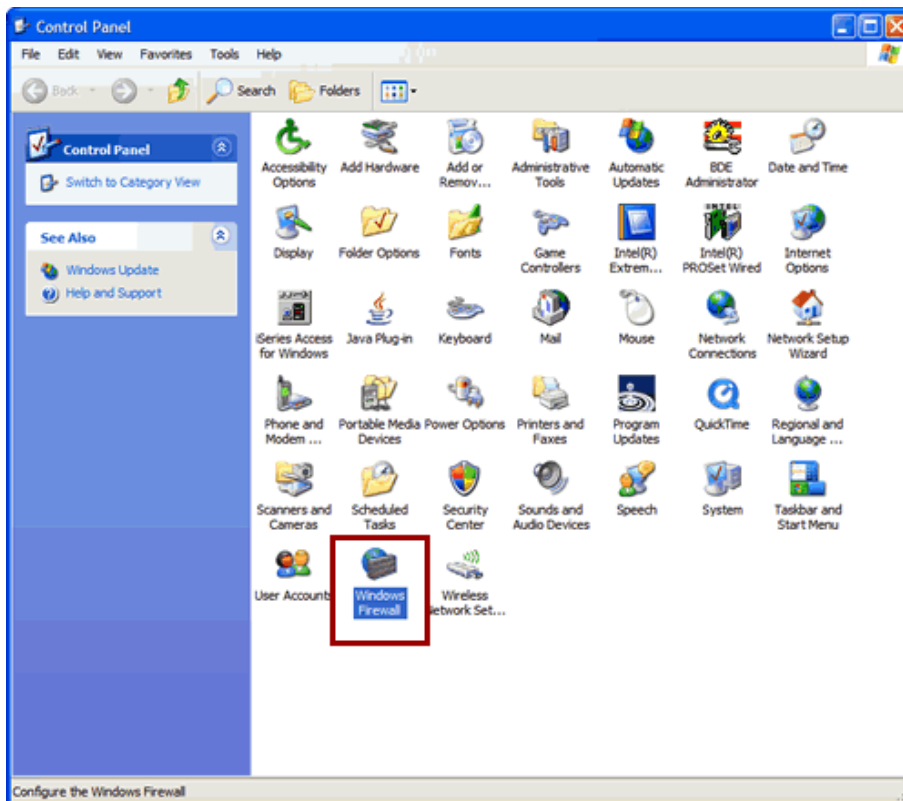
Library: QGPL File: MMINSLLOG

If you have trouble installing MarkMagic 6 we request that you e-mail us the summary log immediately following your installation. If the installation is unsuccessful, there will most likely not be a printed Install Log. Please send the log file in QGPL to help@cybra.com.

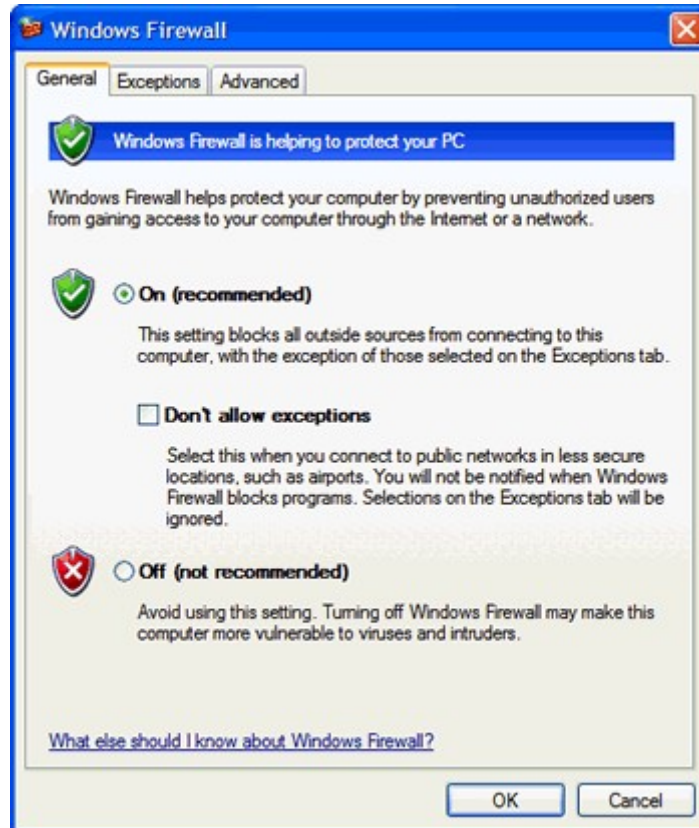
D. DOWNLOAD INSTRUCTIONS - NEW INSTALLATION

1. BEFORE YOU BEGIN

- CYBRA uses a product called ZipSeries to install System i objects that are downloaded from our website. Download ZipSeries from our website and install it on your PC. This should only take a few seconds.
- Depending on your system's OS release, click on the appropriate MarkMagic 6 link (MarkMagic 6.1 for OS releases V5R1 through V5R4 or MarkMagic 6.5 for OS release V6R1M0) to download. If you are prompted to open or save the .zip file, save it to a temporary directory on your PC.
- Once the download is complete, find the downloaded file and extract the zip file contents. The enclosed file will have a .4zs extension. Double click on the icon to begin the ZipSeries installation process.
- Make sure any firewalls that you may have installed do not block ZipSeries, and also confirm that FTP is configured and running on your AS400.
- **NOTE: Windows XP SP2 users will have to temporarily disable the Windows Firewall by clicking START > CONTROL PANEL > WINDOWS FIREWALL and clicking the radio button for "Off". Once the Firewall is disabled, the ZipSeries install process will complete without any errors.**



- Follow the ZipSeries prompts by clicking “Next” until you reach the “System i Information” panel. There you enter the name or IP address of the CPU on which you would like to install MarkMagic. Also enter your System i user id and password. After clicking “Next” you will be presented with the “Ready to Start” panel. Click OK.
- When the ZipSeries process is completed, you will have a library named MM60TEMP on the System i. At this point you can restart your Windows XP SP2 Firewall, if applicable.



2. INSTALLATION

Sign on to a new session as QSECOFR, confirm both QTEMP and QGPL are on your library list and then enter the following command:

MM60TEMP/INSTALL.

The first screen that is displayed is a message that you are installing MarkMagic 6, mod 081219. Enter G to continue or C to cancel.

MarkMagic will load automatically and prompt you at various points for information such as your Product Keys and device types. When the install is

complete, you will be prompted to sign off and then sign back on. The entire installation of MarkMagic should take less than 30 minutes.

Towards the end of the installation process, you will see the Set MarkMagic Parameters screen:

```

Set MarkMagic Parameters

Date: 12/27/08      CPU model type: 270      Version: 6.1
Time: 09:32:11    CPU serial num: 1060370  Mod lvl: 081219
                   Processor group: P05
                   Logical partitn: 000

Type choices, press Enter.

Printer device types . . . *ALL          F4 for list
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____

F3=Exit   F5=Refresh   F8=Product Keys   F12=Cancel   More...

```

Add any additional device types or *ALL to test with all available device types.

Press F8 to Set MarkMagic Product Keys (Call your Account Manager or CYBRA Sales at 914-963-6600 Option 3 for a MarkMagic 6 rental key).

```

Set MarkMagic Product Keys

Date: 12/27/08      CPU model type: 270      Version: 6.1
Time: 09:27:01    CPU serial num: 1060370  Mod lvl: 081219
                  Processor group: P05
                  Logical partitn: 000

Type choices, press Enter.

Product keys      Expiration      Maximum      Maximum
                  (mm/dd/yy)      Users        Printers
1. 2C012 169BE 700C0 71C01 12 / 31 / 09  0  999999  999999
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0

F3=Exit      F5=Refresh      F8=Work with license information      F12=Cancel

```

The Default 45 day Runtime (Print Only) Product Key is enabled if no Product Key is entered.

The rental key you will be given will enable ALL MarkMagic features. Customers who receive permanent keys will require multiple product keys to activate the following MarkMagic 6 optional features:

- Print Monitor Option
- PDF Fax & Email Option
- Laser Printer 2D Option
- RFID Printing Option
- FormWeaver Option
- Print Manager Option
- On Demand Option

Once the installation is complete, please sign off your QSECOFR session to close and deallocate any open files. Sign back on and begin using MarkMagic.

3. TROUBLESHOOTING

Two MarkMagic Installation Logs are created upon completion of installation. The summary log contains MarkMagic installation comments, while the detail log also includes the full job log. The log's details are:

Spooled Filename: MARKMAGIC User data: INSTALLLOG

In addition, the detail log is written to the following database file:

Library: QGPL File: MMINSLOG

If you have trouble installing MarkMagic 6, we request that you e-mail us the summary log immediately following your installation. If the installation is unsuccessful, there will most likely not be a printed Install Log. Please send the log file in QGPL to help@cybra.com.

E. CD UPGRADE INSTRUCTIONS

1. BEFORE YOU BEGIN

UPGRADE NOTES:

- If you upgraded from MarkMagic V4.1 to V6.1, or V5.1 to 6.1, your formats will be available in both versions, in each of your user libraries. Any changes to formats or new formats created after the installation will have to be exported out of one version and imported into the other version. Note: Version 6.1 will replace version 6.0. All 6.0 formats will be converted to 6.1.
- Although this situation is unlikely, it important to understand MarkMagic 6 will upgrade from the most recent MarkMagic version on your system even if an older version is set as your system default. Example: If both 4.1 (MRKMAG) and 5.1 (MRKMAG50) are installed and 4.1 is your *SYSTEM default running your everyday production, MarkMagic will “see” 5.1 and upgrade any formats, jobs, graphics, and monitors found in 5.1. *Note:* renaming or deleting MRKMAG50 in this scenario will not force the upgrade of your 4.1 objects. In other words, the upgrade program does not allow a user to “skip over” a version. Please use the MRKMAG50/WRKMMVSN or MRKMAG60/WRKMMVSN command to help determine if multiple MarkMagic versions are installed and which is the most recent (more WRKMMVSN details can be found later in this section).
- The supplied Workstation Customization Objects are in library MRKMAGDTA. If your device descriptions specify MMWSCST01 or MMWSCST02 in library MRKMAG, you will need to change the device description. We recommend that you use QWPDEFAULT in *LIBL as a generic Workstation Customization Object.

Do not remove or rename the MarkMagic product library, MRKMAG, MRKMAG50, MRKMAG60 or any MarkMagic User Libraries (MRKMAGDTA, etc.). The installation process will convert your existing formats to the new version.

Before installing your new version, make sure that:

- No one has the MarkMagic library (MRKMAG60, MRKMAG50 or MRKMAG) or the MarkMagic User library (MRKMAGDTA) in his or her library list, and also make sure that no one is working with MarkMagic or JMagic. For example, to see if someone is using MarkMagic sign on with SECOFR authority and enter WRKOBJLCK OBJ(MRKMAG $_{xx}$) OBJTYPE(*LIB). Also, enter the Work with Active Jobs (WRKACTJOB) command on an OS/400 command line. Look at the column “Function” for CMD-STRMRKMAG.
- The MarkMagic library (MRKMAGDTA) is not locked. To see if the MarkMagic User library files are “locked,” enter the Work with Object Locks (WRKOBJLCK OBJ(DEVPF $_{xx}$) OBJTYPE(*FILE)) command on the AS/400

command line, and press F4. Type DEVPFxx for the object name, MRKMAGDTA for the library, and *FILE for the object type, and press ENTER. Look at the column "Users" to see who is working with MarkMagic. Ask them to sign off the system in order to release the MarkMagic libraries and files.

- If you are upgrading from MarkMagic 5 or MarkMagic 6 and using the MarkMagic Monitor Option, please make sure to end your monitor before upgrading. Type: CALL PGM(MRKMAG50/ENDMONPGM) PARM(' '), and press Enter to end the MarkMagic 5 print monitor (use MRKMAG60 to end MarkMagic 6)
- We recommend that you save your MarkMagic libraries (MRKMAG, MRKMAG50, or MRKMAG60, and MRKMAGDTA) and User libraries prior to installation.

After following the above steps, sign off the system and sign on to a new session as QSECOFR and confirm both QTEMP and QGPL are on your library list

2. INSTALLATION

Insert the CD into the drive, and enter the following on an AS/400 command line:
LODRUN ddddddd (where ddddddd is the optical device name).

Once the LODRUN command is executed, the upgrade procedure confirms your OS release and copies the compatible MarkMagic 6.1 or MarkMagic 6.5 libraries from the CD to QTEMP. MarkMagic will load automatically and prompt you at various points for information such as your Product Keys, device types, and default version (see Setting MarkMagic Versions).

If you are upgrading from a previous version, you will get the following message: *MarkMagic is about to be updated from a previous version.* During the upgrade the following messages will be displayed:

- Your existing version of MarkMagic is about to be upgraded. Enter C to cancel or G to continue the upgrade (C G)
- MarkMagic is about to be upgraded from a previous version. Which version should be the system wide default (4.1, 5.1, 6.1) (We recommend that you choose your current production version and test MarkMagic 6 based off *SESSION or *USER version control. Once satisfied with MarkMagic 6, the system version can be changed. See WRKMMVSN and SETMMVSN later in this section for more information on version control.)

```

Set MarkMagic Parameters

Date: 12/27/08      CPU model type: 270      Version: 6.1
Time: 09:32:11     CPU serial num: 1060370     Mod lvl: 081219
                   Processor group: P05
                   Logical partitn: 000

Type choices, press Enter.

Printer device types . . . *ALL          F4 for list
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____

More...

F3=Exit   F5=Refresh   F8=Product Keys   F12=Cancel

```

Towards the end of the installation process, you will see the Set MarkMagic Parameters screen. Add any additional device types or *ALL to test with all available device types.

Press F8 to Set MarkMagic Product Keys (Call your Account Manager or CYBRA Sales at 914-963-6600 Option 3) for a MarkMagic 6 rental key. The Default 45 day Runtime (Print Only) Product Key is enabled if no Product Key is entered.

```

Set MarkMagic Product keys

Date: 12/27/08      CPU model type: 270      Version: 6.1
Time: 09:27:01     CPU serial num: 1060370  Mod lvl: 081219
                   Processor group: P05
                   Logical partitn: 000

Type choices, press Enter.

Product keys      Expiration      Maximum      Maximum
                  (mm/dd/yy)      Users        Printers
1. 2C012 169BE 700C0 71C01 12 / 31 / 09  0  999999  999999
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0

F3=Exit      F5=Refresh      F8=Work with license information      F12=Cancel
    
```

The rental key you will be given will enable ALL MarkMagic features. Customers who receive permanent keys will require multiple product keys to activate the following MarkMagic 6 optional features:

- Print Monitor Option
- PDF Fax & Email Option
- Laser Printer 2D Option
- RFID Printing Option
- FormWeaver Option
- Print Manager Option
- On Demand Option

Once the installation is complete, please sign off your QSECOFR session to close and deallocate any open files. We recommend you sign back on and confirm your default MarkMagic version selection by entering MRKMAG60/WRKMMVSN and checking the "Current System Version" before you begin using your new version.

SETTING MARKMAGIC VERSIONS:

The Work MarkMagic Version command displays current system and user version settings and is the preferred method to switch the active version based on user and *SYSTEM. To use this command, type MRKMAG60/WRKMMVSN and press Enter. Note: *SECOFR authority is required to change other User and system default settings.

The Set MarkMagic Version command is an alternate method to switch the active version based on user, session, or system wide. To use this command, type MRKMAG60/SETMMVSN and press F4. The SETMMVSN command settings are referred to by the system for all non-qualified calls to MarkMagic. Note: *SECOFR authority is required to change other User and system default settings.

Note:

- SESSION version overrides are controlled by a data area in QTEMP and only work for interactive jobs. Any print job submitted to batch will default back to either the *SYSTEM or *USER version override.
- USER version overrides are controlled by a data area in MRKMAGUSRP. *USER overrides will not be found if a CHGJOB was issued and the user was changed or the user was changed in the SBMJOB command.

When starting MarkMagic via the STRMRKMAG command, you can override the default version. Type STRMRKMAG and press F4. Select a version and press Enter

Note: Since MarkMagic version 6.5 is the only current V6R1M0 compatible version, version control has been temporarily removed *in MarkMagic 6.5 only*. Version control will be reactivated in subsequent V6R1M0 compliant MarkMagic versions.

TO REVERT TO A PREVIOUS MOD LEVEL:

The installation program does not delete your previous libraries; they are renamed and saved in SAVF format. If, after installation you wish to revert back to your previous Modification Level, contact CYBRA support for assistance in restoring the following saved libraries.

Note: MRKMAG60 is renamed and saved as SAVF MRKMAGPRV, in library MRKMAG60. MRKMAGDTA is renamed and saved as SAVF MRKMAGDTAP in library MRKMAGDTA.

3. TROUBLESHOOTING

Two MarkMagic Installation Logs are created upon completion of installation. The summary log contains MarkMagic installation comments, while the detail log also includes the full job log. The log's details are:

Spooled Filename: MARKMAGIC User data: INSTALLLOG

In addition, the detail log is written to the following database file:

Library: QGPL File: MMINSLLOG

If you have trouble installing MarkMagic 6, we request that you e-mail us the summary log immediately following your installation. If the installation is unsuccessful, there will most likely not be a printed Install Log. Please send the log file in QGPL to help@cybra.com.

F. DOWNLOAD UPGRADE INSTRUCTIONS

1. BEFORE YOU BEGIN

UPGRADE NOTES:

- If you upgraded from MarkMagic V4.1 to V6.1, or V5.1 to 6.1, your formats will be available in both versions, in each of your user libraries. Any changes to formats or new formats created after the installation will have to be exported out of one version and imported into the other version. Note: Version 6.1 will replace version 6.0. All 6.0 formats will be converted to 6.1.
- Although this situation is unlikely, it is important to understand MarkMagic 6 will upgrade from the most recent MarkMagic version on your system even if an older version is set as your system default. Example: If both 4.1 (MRKMAG) and 5.1 (MRKMAG50) are installed and 4.1 is your *SYSTEM default running your everyday production, MarkMagic will “see” 5.1 and upgrade any formats, jobs, graphics, and monitors found in 5.1. *Note:* renaming or deleting MRKMAG50 in this scenario will not force the upgrade of your 4.1 objects. In other words, the upgrade program does not allow a user to “skip over” a version. Please use the MRKMAG50/WRKMMVSN or MRKMAG60/WRKMMVSN command to help determine if multiple MarkMagic versions are installed and which is the most recent (more WRKMMVSN details can be found later in this section).
- The supplied Workstation Customization Objects are in library MRKMAGDTA. If your device descriptions specify MMWSCST01 or MMWSCST02 in library MRKMAG, you will need to change the device description. We recommend that you use QWPDEFAULT in *LIBL as a generic Workstation Customization Object.

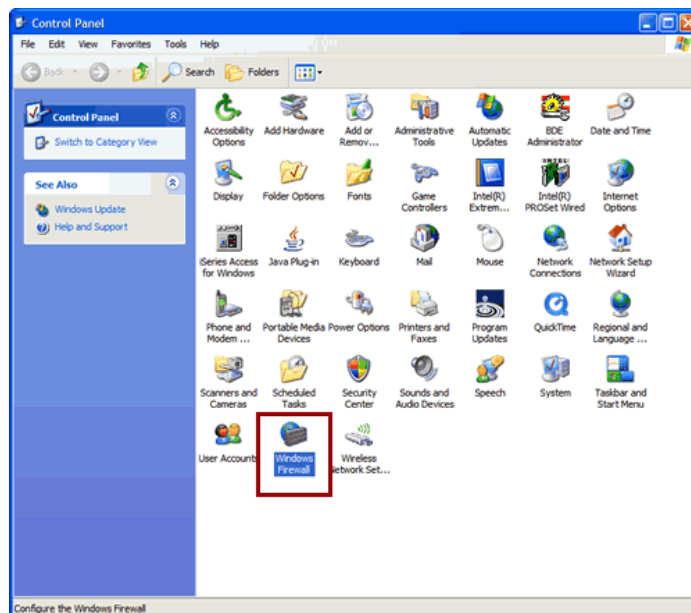
Do not remove or rename the MarkMagic product library, MRKMAG, MRKMAG50, MRKMAG60 or any MarkMagic User Libraries (MRKMAGDTA, etc.). The installation process will convert your existing formats to the new version.

Before installing your new version, make sure that:

- No one has the MarkMagic library (MRKMAG60, MRKMAG50 or MRKMAG) or the MarkMagic User library (MRKMAGDTA) in his or her library list, and also make sure that no one is working with MarkMagic or JMagic. For example, to see if someone is using MarkMagic sign on with SECOFR authority and enter WRKOBJLCK OBJ(MRKMAGxx) OBJTYPE(*LIB). Also, enter the Work with Active Jobs (WRKACTJOB) command on an OS/400 command line. Look at the column “Function” for CMD-STRMRKMAG.
- The MarkMagic library (MRKMAGDTA) is not locked. To see if the MarkMagic User library files are “locked,” enter the Work with Object Locks (WRKOBJLCK OBJ(DEVPFxx) OBJTYPE(*FILE)) command on the AS/400

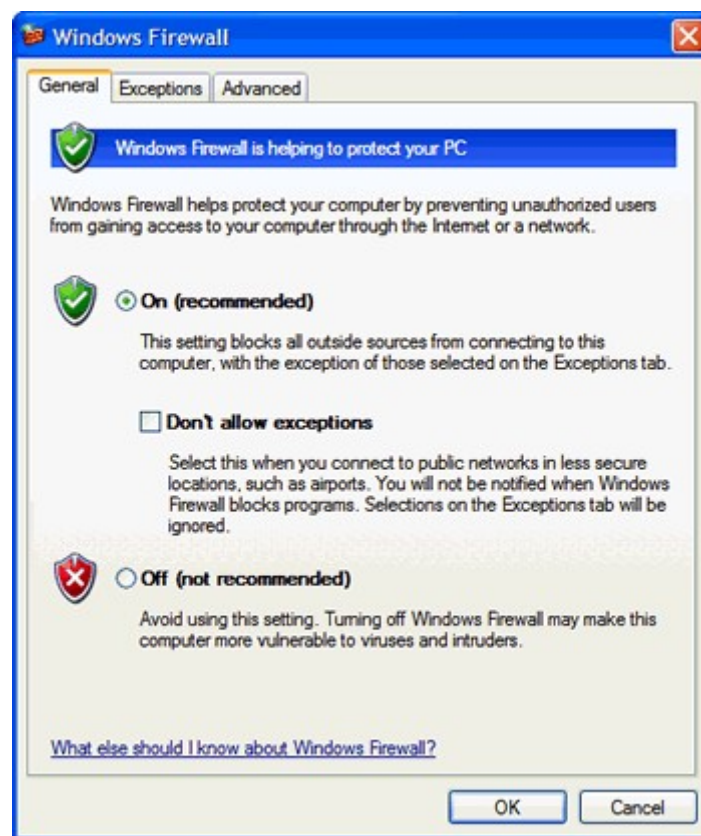
command line, and press F4. Type DEVPFxx for the object name, MRKMAGDTA for the library, and *FILE for the object type, and press ENTER. Look at the column "Users" to see who is working with MarkMagic. Ask them to sign off the system in order to release the MarkMagic libraries and files.

- If you are upgrading from MarkMagic 5 or MarkMagic 6 and using the MarkMagic Monitor Option, please make sure to end your monitor before upgrading.
Type: CALL PGM(MRKMAG50/ENDMONPGM) PARM(' '), and press Enter to end the MarkMagic 5 print monitor (use MRKMAG60 to end MarkMagic 6)
- We recommend that you save your MarkMagic libraries (MRKMAG, MRKMAG50, or MRKMAG60, and MRKMAGDTA) and User libraries prior to installation.
- CYBRA uses a product called ZipSeries to install System i objects that are downloaded from our website. Download ZipSeries from our website and install it on your PC. This should only take a few seconds. Depending on your system's OS release, click on the appropriate MarkMagic 6 link (MarkMagic 6.1 for OS releases V5R1 through V5R4 or MarkMagic 6.5 for OS release V6R1M0) to download. If you are prompted to open or save the .zip file, save it to a temporary directory on your PC.
- Make sure any firewalls that you may have installed do not block ZipSeries, and also confirm that FTP is configured and running on your AS400.
- **NOTE:** Windows XP SP2 users will have to temporarily disable the Windows Firewall by clicking START > CONTROL PANEL > WINDOWS FIREWALL and clicking the radio button for "Off". Once the Firewall is disabled, the ZipSeries install process will complete without any errors.



- Once the download is complete, find the downloaded file and extract the zip file contents. The enclosed file will have a .4zs extension. Double click on the icon to begin the ZipSeries installation process.
- Follow the ZipSeries prompts by clicking "Next" until you reach the "System i Information" panel. There you enter the name or IP address of the CPU on which you would like to install MarkMagic. Also enter your System i user id and password. After clicking "Next" you will be presented with the "Ready to Start" panel. Click OK.

When the ZipSeries process is completed, you will have a library named MM60TEMP on the System i. At this point you can restart your Windows XP SP2 Firewall, if applicable.



2. INSTALLATION

Sign on to a new session as QSECOFR, confirm both QTEMP and QGPL are on your library list and then enter the following command:

MM60TEMP/INSTALL.

If you are upgrading from a previous version, you will get the following message: *MarkMagic is about to be updated from a previous version.* During the upgrade the following messages will be displayed:

- Your existing version of MarkMagic is about to be upgraded. Enter C to cancel or G to continue the upgrade (C G)
- MarkMagic is about to be upgraded from a previous version. Which version should be the system wide default (4.1, 5.1, 6.1) (We recommend that you choose your current production version and test MarkMagic 6 based off *SESSION or *USER version control. Once satisfied with MarkMagic 6, the system version can be changed. See WRKMMVSN and SETMMVSN later in this section for more information on version control.)

```

Set MarkMagic Parameters

Date: 12/27/08          CPU model type: 270          Version: 6.1
Time: 09:32:11        CPU serial num: 1060370       Mod lvl: 081219
                      Processor group: P05
                      Logical partiitn: 000

Type choices, press Enter.

Printer device types . . . *ALL          F4 for list
_____
_____
_____
_____
_____
_____
_____
_____
_____

F3=Exit    F5=Refresh    F8=Product Keys    F12=Cancel    More...

```

Towards the end of the installation process, you will see the Set MarkMagic Parameters screen. Add any additional device types or *ALL to test with all available device types.

Press F8 to Set MarkMagic Product Keys (Call your Account Manager or CYBRA Sales at 914-963-6600 Option 3) for a MarkMagic 6 rental key. The Default 45 day Runtime (Print Only) Product Key is enabled if no Product Key is entered.

```

Set MarkMagic Product keys

Date: 12/27/08      CPU model type: 270      Version: 6.1
Time: 09:27:01     CPU serial num: 1060370  Mod lvl: 081219
                   Processor group: P05
                   Logical partitn: 000

Type choices, press Enter.

Product keys      Expiration      Maximum      Maximum
                  (mm/dd/yy)      Users        Printers
1. 2C012 169BE 700C0 71C01 12 / 31 / 09 0 9999999 9999999
   _____ _____ _____ _____ 00 / 00 / 00 0 0 0
   _____ _____ _____ _____ 00 / 00 / 00 0 0 0
   _____ _____ _____ _____ 00 / 00 / 00 0 0 0
   _____ _____ _____ _____ 00 / 00 / 00 0 0 0
   _____ _____ _____ _____ 00 / 00 / 00 0 0 0
   _____ _____ _____ _____ 00 / 00 / 00 0 0 0
   _____ _____ _____ _____ 00 / 00 / 00 0 0 0
   _____ _____ _____ _____ 00 / 00 / 00 0 0 0
   _____ _____ _____ _____ 00 / 00 / 00 0 0 0
   _____ _____ _____ _____ 00 / 00 / 00 0 0 0

F3=Exit      F5=Refresh      F8=Work with license information      F12=Cancel
    
```

The rental key you will be given will enable ALL MarkMagic features. Customers who receive permanent keys will require multiple product keys to activate the following MarkMagic 6 optional features:

- Print Monitor Option
- PDF Fax & Email Option
- Laser Printer 2D Option
- RFID Printing Option
- FormWeaver Option
- Print Manager Option
- On Demand Option

Once the installation is complete, please sign off your QSECOFR session to close and deallocate any open files. We recommend you sign back on and confirm your default MarkMagic version selection by entering MRKMAG60/WRKMMVSN and checking the "Current System Version" before you begin using your new version.

SETTING MARKMAGIC VERSIONS:

The Work MarkMagic Version command displays current system and user version settings and is the preferred method to switch the active version based on user and

***SYSTEM.** To use this command, type MRKMAG60/WRKMMVSN and press Enter.
 Note: *SECOFR authority is required to change other User and system default settings.

The Set MarkMagic Version command is an alternate method to switch the active version based on user, session, or system wide. To use this command, type MRKMAG60/SETMMVSN and press F4. The SETMMVSN command settings are referred to by the system for all non-qualified calls to MarkMagic. Note: *SECOFR authority is required to change other User and system default settings.

Note:

- SESSION version overrides are controlled by a data area in QTEMP and only work for interactive jobs. Any print job submitted to batch will default back to either the *SYSTEM or *USER version override.
- USER version overrides are controlled by a data area in MRKMAGUSRP. *USER overrides will not be found if a CHGJOB was issued and the user was changed or the user was changed in the SBMJOB command.

When starting MarkMagic via the STRMRKMAG command, you can override the default version. Type STRMRKMAG and press F4. Select a version and press Enter

Note: Since MarkMagic version 6.5 is the only current V6R1M0 compatible version, version control has been temporarily removed *in MarkMagic 6.5 only*. Version control will be reactivated in subsequent V6R1M0 compliant MarkMagic versions.

TO REVERT TO A PREVIOUS MOD LEVEL:

The installation program does not delete your previous libraries, they are renamed and saved in SAVF format. If, after installation you wish to revert back to your previous Modification Level, contact CYBRA support for assistance in restoring the following saved libraries.

Note: MRKMAG60 is renamed and saved as SAVF MRKMAGPRV, in library MRKMAG60. MRKMAGDTA is renamed and saved as SAVF MRKMAGDTAP in library MRKMAGDTA.

3. TROUBLESHOOTING

Two MarkMagic Installation Logs are created upon completion of installation. The summary log contains MarkMagic installation comments, while the detail log also includes the full job log. The log's details are:

Spooled Filename: MARKMAGIC User data: INSTALLLOG

In addition, the detail log is written to the following database file:

Library: QGPL File: MMINSLOG

If you have trouble installing MarkMagic 6, we request that you e-mail us the summary log immediately following your installation. If the installation is

unsuccessful, there will most likely not be a printed Install Log. Please send the log file in QGPL to help@cybra.com.

G. QUICK UPDATE DOWNLOAD UPGRADE INSTRUCTIONS

1. BEFORE YOU BEGIN

UPGRADE NOTES:

- This upgrade method is *only* available for users upgrading from ver 6.1/6.5 Mod level 080620. The Quick Update contains the minimal number of programs required to upgrade from Mod Level 080620 to 081219. All other upgrades must use one of the *Complete* methods listed in the sections above.
Note: Version 6.1/6.5 Mod Level 081219 will replace version 6.1/6.5 Mod Level 080620. All Mod level 080620 formats will be converted to Mod level 081219.

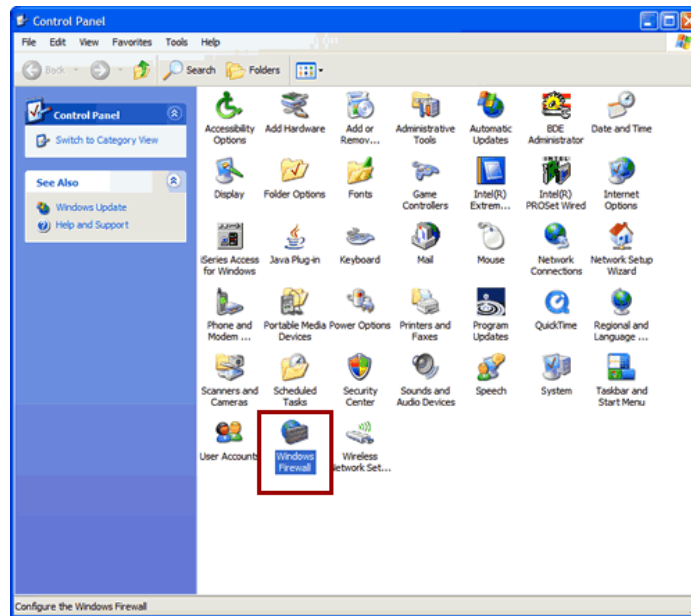
Do not remove or rename the MarkMagic product library, MRKMAG, MRKMAG50, MRKMAG60 or any MarkMagic User Libraries (MRKMAGDTA, etc.).

Before installing your new version, make sure that:

- No one has the MarkMagic library (MRKMAG60) or the MarkMagic User library (MRKMAGDTA) in his or her library list, and also make sure that no one is working with MarkMagic or JMagic.
For example, to see if someone is using MarkMagic sign on with SECOFR authority and enter WRKOBJLCK OBJ(MRKMAG60) OBJTYPE(*LIB). Also, enter the Work with Active Jobs (WRKACTJOB) command on an OS/400 command line. Look at the column "Function" for CMD-STRMRKMAG.
- The MarkMagic library (MRKMAGDTA) is not locked. To see if the MarkMagic User library files are "locked," enter the Work with Object Locks (WRKOBJLCK OBJ(DEVPF60) OBJTYPE(*FILE)) command on the AS/400 command line, and press F4. Type DEVPF60 for the object name, MRKMAGDTA for the library, and *FILE for the object type, and press ENTER. Look at the column "Users" to see who is working with MarkMagic. Ask them to sign off the system in order to release the MarkMagic libraries and files.
- If you are using the MarkMagic Monitor Option, please make sure to end your monitor before upgrading. Type: CALL PGM(MRKMAG60/ENDMONPGM) PARM(' '), and press Enter.
- We recommend that you save your MarkMagic libraries (MRKMAG, MRKMAG50, or MRKMAG60, and MRKMAGDTA) and User libraries prior to installation.
- CYBRA uses a product called ZipSeries to install System i objects that are downloaded from our website. Download ZipSeries from our website and install it on your PC. This should only take a few seconds. Depending on your system's OS release, click on the appropriate MarkMagic 6 Quick Update link
OS releases V5R1 through V5R4 select: *MM61QUPD_081219.zip*
OS release V6R1M0 and above select: *MM65QUPD_081219.zip*

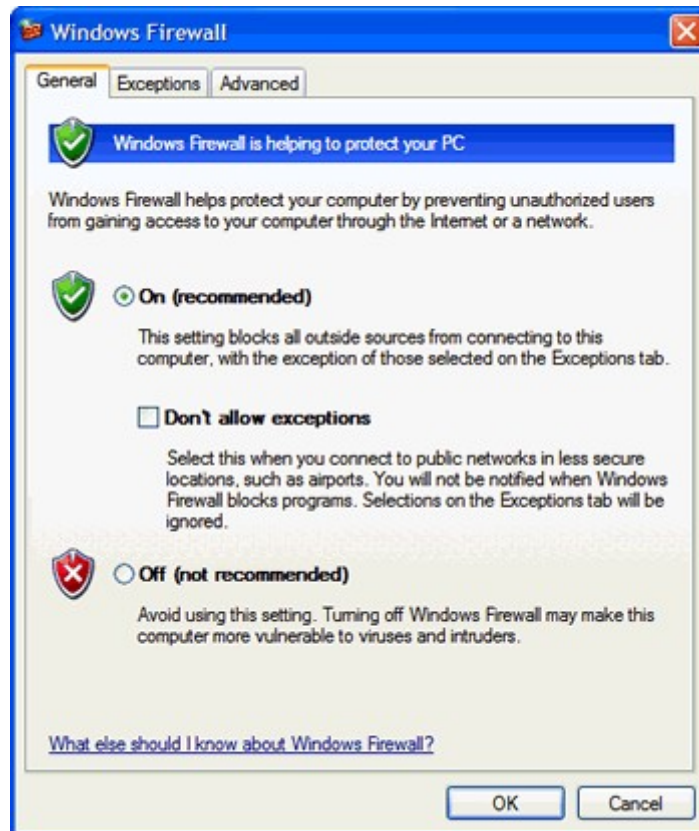
If prompted to open or save the .zip file, save it to a temporary directory on your PC.

- Make sure any firewalls that you may have installed do not block ZipSeries, and also confirm that FTP is configured and running on your AS400.
- **NOTE:** Windows XP SP2 users will have to temporarily disable the Windows Firewall by clicking **START > CONTROL PANEL > WINDOWS FIREWALL** and clicking the radio button for **Off**. Once the Firewall is disabled, the ZipSeries install will complete without any errors.



- Once the download is complete, find the downloaded file and extract the zip file contents. The enclosed file will have a .4zs extension. Double click on the icon to begin the ZipSeries installation process.
- Follow the ZipSeries prompts by clicking "Next" until you reach the "System i Information" panel. There you enter the name or IP address of the CPU on which you would like to install MarkMagic. Also enter your System i user id and password. After clicking "Next" you will be presented with the "Ready to Start" panel. Click OK.

When the ZipSeries process is completed, you will have a library named MM60TEMP on the System i. At this point you can restart your Windows XP SP2 Firewall, if applicable.



2. INSTALLATION

Sign on to a new session as QSECOFR, confirm both QTEMP and QGPL are on your library list and then enter the following command:

MM60TEMP/INSMUPDT

Since you are upgrading from a previous version, you will get the following message: *MarkMagic is about to be updated from a previous version.* During the upgrade the following messages will be displayed:

- Your existing version of MarkMagic is about to be upgraded. Enter C to cancel or G to continue the upgrade (C G)

```

Set MarkMagic Parameters

Date: 12/27/08      CPU model type: 270      Version: 6.1
Time: 09:32:11    CPU serial num: 1060370  Mod lvl: 081219
                  Processor group: P05
                  Logical partitn: 000

Type choices, press Enter.

Printer device types . . . *ALL_____ F4 for list
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____
                           _____

F3=Exit   F5=Refresh   F8=Product Keys   F12=Cancel   More...

```

Towards the end of the installation process, you will see the Set MarkMagic Parameters screen. Add any additional device types or *ALL to test with all available device types.

Press F8 to Set MarkMagic Product Keys Note: Previous Version 6.1 or 6.5 key(s) will continue to activate MarkMagic as long as none of the system information has changed (Model, Serial, Processor or LPAR number). Please call your Account Manager or CYBRA Sales at 914-963-6600 Option 3 with any questions.

```

Set MarkMagic Product keys

Date: 12/27/08      CPU model type: 270      Version: 6.1
Time: 09:27:01     CPU serial num: 1060370     Mod lvl: 081219
                   Processor group: P05
                   Logical partitn: 000

Type choices, press Enter.

Product keys      Expiration      Maximum      Maximum
                  (mm/dd/yy)      LPAR         Users        Printers
1. 2C012 169BE 700C0 71C01 12 / 31 / 09  0  999999  999999
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0
   _____  _____  _____  _____  00 / 00 / 00  0  0  0

F3=Exit      F5=Refresh      F8=Work with license information      F12=Cancel

```

A rental key can be provided that will enable ALL MarkMagic features. Customers who receive permanent keys will require multiple product keys to activate the following MarkMagic 6 optional features:

- Print Monitor Option
- PDF Fax & Email Option
- Laser Printer 2D Option
- RFID Printing Option
- FormWeaver Option
- Print Manager Option
- On Demand Option

Once the installation is complete, please sign off your QSECOFR session to close and deallocate any open files. We recommend you sign back on and confirm your default MarkMagic version selection by entering MRKMAG60/WRKMMVSN and checking the "Current System Version" before you begin using your new version.

Note: Since MarkMagic version 6.5 is the only current V6R1M0 compatible version, version control has been temporarily removed *in MarkMagic 6.5 only*. Version control will be reactivated in subsequent V6R1M0 compliant MarkMagic versions.

TO REVERT TO A PREVIOUS MOD LEVEL:

The installation program does not delete your previous libraries; they are renamed and saved in SAVF format. If, after installation you wish to revert back to your previous Modification Level, contact CYBRA support for assistance in restoring the following saved libraries. The update program saves replaced objects in SAVF format in save file "MMO80620" located in library MRKMAG60.

3. TROUBLESHOOTING

Two MarkMagic Installation Logs are created upon completion of installation. The summary log contains MarkMagic installation comments, while the detail log also includes the full job log. The log's details are:

Spooled Filename: MARKMAGIC User data: INSTALLLOG

In addition, the detail log is written to the following database file:

Library: QGPL File: MMINSLLOG

If you have trouble installing MarkMagic 6, we request that you e-mail us the summary log immediately following your installation. If the installation is unsuccessful, there will most likely not be a printed Install Log. Please send the log file in QGPL to help@cybra.com.

H. JMAGIC INSTALLATION

1. BEFORE YOU BEGIN

To load JMagic 6 on *any* PC running Windows NT, 2000 or XP

Minimum Hardware Requirements:

Processor	1.5 GHz Intel Pentium IV, or higher
Display	SVGA, 1152x864 (recommended minimum resolution)
Memory requirements	512MB RAM
Disk space requirements	75 MB for JMagic 35 MB for Java Virtual Machine

OS/400 Requirements:

JMagic uses IBM's Java Tool Box for the new command prompting features. For OS/400 V5R1, IBM released a PTF to fix a translation problem. If you are testing on V5R1, please download and apply the PTF SI14129 if it is not already applied.

Note: To use JMagic 6.1, MarkMagic version 6.1 must be active on the System i.

2. INSTALLATION

Download JMAGIC61SETUP.ZIP from our website or copy the JMAGIC61SETUP.ZIP from our installation CD and extract the enclosed file to a temporary subdirectory.

Double click the file JMagic61setup.exe to launch the JMagic InstallShield Wizard. The wizard will prompt you to select an existing subdirectory, or create a default product destination subdirectory, for example: "*X*":\Program Files\CYBRA Corporation\Jmagic61. (Where "*X*" is your drive letter) Follow the steps to complete the installation.

Navigate to the Start menu Programs folder then CYBRA Corporation, and then click on the icon "JMagic 6.1" to start JMagic. Sign on to the System i to initiate communications with MarkMagic 6.1.

Note: As an added convenience, 5250 Web Help is automatically installed to C:\Program Files\CYBRA Corporation\Help during the JMagic 6.1 installation. See section "H" for 5250 Web Help details.

I. 5250 WEB HELP INSTALLATION

Pressing the F1 key will automatically open your default web browser with the page corresponding to your inquiry.

Note: You will need to either install 'MMHELP61.exe' or JMagic 6.1 on your PC in order for this to function.

Download 'MMHELP61.exe' or copy the MMHELP61.ZIP from our installation CD and extract the enclosed file to a temporary subdirectory.

Double click the file MMHELP61.exe and install using the default path, which is: *C:\Program Files\CYBRA Corporation\Help*

While we highly recommend installing the 5250 Web Help into the default directory, you are able to change this if needed.

Run the MRKMAG60/SETMMPRM command, and page down once to the second screen. You will be able to change the path to the web help.

Example:

```

Set MarkMagic Parameters

Date: 12/27/08      CPU model type: 270      Version: 6.1
Time: 09:41:03     CPU serial num: 1060370   Mod lvl: 081219
Processor group: P05
Logical partitn: 000

Type choices, press Enter.

Company name . . . . .           CYBRA Corporation           name
Default menu type . . . . . D                                  D=Design view
                                                                                  L=List view

Keep job history . . . . . 100                                  7 - 999 (days)

PC path to MarkMagic Web Help . . . : C:\Program Files\CYBRA Corporation\Help

```

Altering the default path with the SETMMPRM command changes this parameter globally, so you will need to make sure the path you set in SETMMPRM matches the path on the user's pc.