

Callable Grouper Products for UNIX

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1. HOW TO PICK A VERSION

Every year the US Federal government releases a new DRG version. The earliest version we sell through our on-line store is Version 10, which we call "f10" for Federal Version 10.

The official release is on October 1st every year and we usually release our implementation of the algorithm by October 15th every year.

Please specify which version you need for any of our products. Our software is backwardly compatible, so if you buy the version 20 grouper, that module can handle versions 10 through 20, *assuming that you have purchased the appropriate masks file.*

NOTE: We have support for versions 2 through 9, but demand is low enough that we do not clutter up our on-line store with them. You can purchase support for versions 2 through 9, but only by contacting us directly.

Version	Released	Retired	Version	Released	Retired	Version	Released	Retired
f29	Oct 1, 2011	Sep 30, 2012	f22	Oct 1, 2004	Sep 30, 2005	f15	Oct 1, 1997	Sep 30, 1998
f28	Oct 1, 2010	Sep 30, 2011	f21	Oct 1, 2003	Sep 30, 2004	f14	Oct 1, 1996	Sep 30, 1997
f27	Oct 1, 2009	Sep 30, 2010	f20	Oct 1, 2002	Sep 30, 2003	f13	Oct 1, 1995	Sep 30, 1996
f26	Oct 1, 2008	Sep 30, 2009	f19	Oct 1, 2001	Sep 30, 2002	f12	Oct 1, 1994	Sep 30, 1995
f25	Oct 1, 2007	Sep 30, 2008	f18	Oct 1, 2000	Sep 30, 2001	f11	Oct 1, 1993	Sep 30, 1994
f24	Oct 1, 2006	Sep 30, 2007	f17	Oct 1, 1999	Sep 30, 2000	f10	Oct 1, 1992	Sep 30, 1993
f23	Oct 1, 2005	Sep 30, 2006	f16	Oct 1, 1998	Sep 30, 1999	</td><td bgcolor="#ccddee" align="right">		

2. PRODUCTS & PRICES

UNIX Programmer Tools (prices are for in-house use only; other licenses are negotiable)			
Product	Description	Price	Buy
32 bit Linux Perl-callable shared object	N/A	\$250	N/A

Callable Grouper Products for UNIX			
64 bit Linux Perl-callable shared object	N/A	\$250	N/A
32-bit PHP-callable shared object	N/A	\$250	N/A
64-bit PHP-callable shared object	N/A	\$250	N/A
32-bit C-callable shared object	N/A	\$250	N/A
64-bit C-callable shared object	N/A	\$250	N/A
ICL Upgrade	N/A	\$500	N/A
N/A			
Miscellaneous			
Product	Description	Price	Buy
DRG Masks file	N/A	\$100	N/A
ICD9cm short file	34 character descriptions for ICD9cm codes	\$25	N/A
N/A			

3. SUPPORTED PLATFORMS

In the non-Microsoft realm, we run GNU-Linux of the following varieties in-house: Slackware, Red Hat and Debian. We also run FreeBSD in-house.

In order to support non-Linux UNIXoid operating systems, we rent time from a porting lab which allows us port our software to many different platforms.

4. CALLABLE GROUPER API

All of our UNIX progam-callable groupers share a single Application Program Interface (API). For Perl and PHP, all the parameters are strings. For C and C++, the last two parameters are short integers. In all cases, all the outputs are strings.

1. DRG version number
 2. Path to the masks file or files
 3. Discharge disposition
 4. Patient age on admission
 5. Patient sex (1=male, 2=female)
 6. String of contiguous, left-justified, blank-padded ICD9cm DX codes
 7. String of contiguous, left-justified, blank-padded ICD9cm Surgery (aka Procedure) codes
 8. Length of each ICD9cm DX code
 9. Length of each ICD9cm Surgery (aka Procedure) code
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1. Grouper Return Code (what error, if any, arose during grouping)
 2. Major Diagnostic Category of assigned DRG
 3. DRG assigned to this patient encounter
 4. DRG version number used to assign this DRG
 5. The Weight of this DRG (a normalized prediction of resource consumption)
 6. The Geometric Mean Length-of-stay for this DRG
 7. PorM flag: P if this is a "procedure" or "surgery" DRG, M if a "medical" DRG
 8. DRG Description: the official name of this DRG

5. PERL SHARED OBJECT

Through the magic of SWIG , a wrapper-generator, we are able to access our C-callable object through Perl on many platforms. You install the shared object in the appropriate location, you 'use' our mhdrng.pm package and voila! you can assign DRGs in a Perl script. Thanks to the DBI package for accessing databases and Perl's many powerful features for handling text or parsing binary data, our module makes assigning DRGs to records in databases or in export files rather easy. [Click here](#) to see a sample Perl script that calls our grouper.

6. PHP SHARED OBJECT

SWIG (see above) also allows us to create a PHP module which assigns DRGs so that you, in turn, can add DRG assignment to your PHP applications. [Click here](#) to see a sample PHP document that calls our grouper.

7. LINUX C-CALLABLE SHARED OBJECT

We also have a shared object that runs under most x86 Linux distributions and can be used with C programs such as the SAS environment.

8. C-CALLABLE OBJECT

Our grouper is an ANSI C program which can be compiled by almost any valid ANSI C compiler. We have compiled our grouper under every one of our supported platforms with little or no modification. [Click here](#) to see a sample ANSI C program that calls our grouper.

9. ICL ENVIRONMENT UPGRADE

Our parent company, M+H Consulting , has its very own 4th Generation Language (4GL), as part of a Rapid Application Development (RAD) environment. That ALGOL-style, line-oriented, block-structured language is called Interactive Computer Language, or ICL. Naturally, ICL has an embedded grouper in it, which needs to be updated every year. Our clients who have ICL applications and who want current grouping buy this upgrade.

10. RESELLER LICENSE

If you want to embed our grouper in a product you will be selling on the market, then you need to negotiate a custom license agreement. Please contact us [for details](#).

11. MAY WE TAKE YOUR ORDER? <!-- {NO-SEARCH} -->

As of October, 2009, we have a shiny new on-line shopping cart. We **strongly** recommend that you use it, if you can. You can use the shopping cart by clicking on the big blue buttons above.

If you use the on-line shopping cart, you get your software immediately and directly.

If you do not use the shopping cart, your order will have to be filled manually, which takes time, and will be emailed to you, which often leads to interference by spam filters and firewalls.

You can use the on-line shopping cart if you have a company credit card; we use Paypal to process on-line purchases, but Paypay does **not** require you to have or use a Paypal account.

If your company works on a purchase order basis, you may want to **fax us a purchase order to (203) 826-2214**, containing the same product information as the form below. If you would like to order on-line, but are sure that you cannot use our on-line shopping cart, please fill in the form below and submit it.

(If you are reading the PDF version of this document, then please consider copying the form and pasting it into a email or printing it out and faxing it or mailing it.)

<<table border="0" cellpadding="3" cellspacing="3"><!-- table to format actual order form --><tr><th colspan="2">Grouper Product Order Form	
<i>All fields are required</i>	
Your Name	
Address	_____
City	_____
State	___
ZIP Code	_____
Email	_____
PO Number	_____
Product	CGI-DRG DRGFilt VB-DRG Access-DRG Excel-DRG MHDRG VB DLL MHDRG C DLL MHICD VB DLL MHICD C DLL ICL Upgrade SA-DRG C Object Perl Object PHP Object Masks File ICD9cm Short ICD9cm Long >
System	DOS/Win 3.x/Win 9x Win 2000/NT/XP GNU-Linux (Slackware, Red Hat) FreeBSD Other UNIX (see list)
Version	___
Quantity	___

If you don't get an email acknowledgement from us within 2 business days, there may have been some technical problem so please let us know at grouper@drggrouper.com . <!-- { search} -->