

### Introduction

This document outlines a general cost structure for the use of the Velos application by University of Michigan Schools, Departments or Centers (UM Group). Individual researchers (in a department without a site license) who are interested in Velos should contact MICHHR (MICHHR-Support@umich.edu). MICHHR supports the Velos system with percentages of nine FTEs, training, four instances of Velos (Best Standard Practices), MSIS Hardware and personnel, annual upgrades, and User Group knowledge sharing. The annual total cost to MICHHR is \$706,000, thus the fees being charged to the UM Group(s) is minimal.

### Annual Site License Fee Table

Unit's Research Funding (\$ in millions; 3 Years)	< 1	1 – 5	6 – 10	11 – 15	16 – 20	21 – 25	26 – 30	31 - 35	36 - 40	41 - 45	46 – 50+
Annual Site License (\$ in thousands)	Case by Case	10	15	20	25	30	35	40	45	50	55

The above table lists out the Annual Site License Fee schedule for a UM Group. The fee structure is based upon a UM Group's research funding over a 3 year period. Besides a License Fee, a UM Group may have other needs such as **Data Migration**. This is where an existing 'legacy' database is migrated into the Velos database. The cost for such a migration is variable and may range from \$5,000 to \$10,000 based upon the complexity of the data.

Additional UM Group needs may include **Data Integrations** which refers to when Velos is integrated with another software system so that data may be shared between the two applications. These activities will require the efforts of MICHHR CRIC, CRIC partners, Velos and possibly other software vendor personnel (if proprietary) to create these data pathways which may be one-way or two-way communication. MICHHR CRIC Ops personnel will manage the project for the UM Group. Further, once the integration exists, it requires annual maintenance and testing especially during upgrades by MICHHR CRIC personnel thus necessitating an annual fee. The base cost for an integration is \$25,000 and depends upon the complexity of the work to be done. An additional annual maintenance fee may be charged depending up the complexity and requirements of the integration especially if 3<sup>rd</sup> parties are involved and require fees.

The **Data Warehouse** is an additional database where data from Velos is maintained in an Oracle database. This affords a UM Group with IT personnel access to the complete data (refreshed multiple times during the day) without the limits of the GUI interface. This allows for specialized reporting and ease of access for biostatisticians. Further, this access is only for specific personnel in a UM Group and enables those with appropriate

IT training / experience to view and manipulate their data in more sophisticated ways particular to their UM Group needs. CRIC will maintain the database schemas for controlled access to specific data sets for the users. All data resides on a professionally maintained database server and personnel will only see their unique data which they have been granted permission.

### **Discussion**

Velos is a Clinical Trial Management System that is professionally maintained on secure UM servers behind UM firewalls. Velos is being deployed to support clinical research at the University of Michigan. Currently, Velos is not integrated with the CDR or the IRB system although this is a long term goal. Currently, Velos is integrated with the GroupWise mail system at Michigan so emails for system and non-system users may be generated and sent from within Velos. While Velos is not a mandated system, all researchers are invited to explore the application to determine if it will be appropriate to support their research needs.

Velos is managed according to University of Michigan computing policies. There are currently 4 instances of Velos: Production, Development, Training, and Staging. All instances reside on their own set of servers: one database server, one application server. MICHR CRIC partners with MSIS to professionally maintain the hardware and software to support the Velos application instances.

The process for acquiring access to Velos is done with the interests of the Clinical Researchers and their staff in mind. To this end, the UM Group will be permitted to perform a Pilot Study in Velos to determine if they wish to commit to use of the application. If their timeline is short and they need assistance to create their study while attending training sessions, the Data Management or CRIC cores within MICHR are available to assist them so that their study is operational in Velos. Once their study is enrolling patients in Velos, they have one quarter (3 months) to decide on their use of Velos. If they decide to not use Velos, the Ops team will migrate their data from Velos into Excel or another acceptable format. If the decision is to utilize the Velos clinical trial management software, then documentation must be completed by the appropriate personnel committing the specific UM Group to pay the appropriate fees. Over time, if the UM Group changes in number of Users, need of integrations, need of migrations, etc, the contracts will be re-negotiated. Additional information on the Velos software, training process, training calendar, and contact personnel is contained in the MICHR CRIC Operational Support web pages (<http://www.michr.umich.edu/programs/bip-cric.html> ).

### **Summary**

When Clinical Researchers need a clinical trial management system, Velos is available to them at a reduced cost. The Clinical Researcher or the UM Group will not bear the real and full cost of the software application. Per the table included above, a UM Group can assess what it may cost them for the use of Velos. If the costs appear to be beyond their financial reach, they are invited to contact MICHR CRIC Ops for discussions at (734) 998-7113.