

# TIMS·3

## DBSync User Guide

Ingenium Group Inc.  
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**Written by:**

Ingenium Group Inc.

☎ (416) 675-5950 or (800) 567-8918 (in USA and Canada)  
✉ Internet: support@tims3.com

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## About the TIMS3 DBSync Utility

The DBSync utility is part of the TIMS3 enterprise suite. The DBSync utility is used

1. To synchronize project records and physical directories
2. To synchronize document records and physical files

The utility is delivered with the TIMS3 Server installation and is intended to run only on the file servers, not client workstations. When running DBSYNC the current server name is retrieved from the system and a search is performed to find project and file records that are on this file server. The records are synchronized with the default TIMS3 site. To perform synchronization on another TIMS3 site the user has to switch to this site first by using the **Change Site** option in the **View** menu.

This utility is designed to bulk load documents and projects into the TIMS3 database. Generally, this utility is used at the beginning of the TIMS3 installation to synchronize the existing files and projects with the database. As well, this can be used to bulk import large amounts of new files and project folders into the system.

Administrators can also use this utility to perform a bi-monthly synchronization to catch any out-of-synch records.

In addition, TIMS3 DBSync compares an existing project in TIMS with another existing template project and applies security permissions to projects based on a chosen template. TIMS Managers can also set newly added documents to inherit permissions from their parent folders.

Before using DBSYNC the user should be aware that a potentially large number of database transactions might occur. For large TIMS3 installations the DBSYNC utility should not be used in a single execution for **All Projects**, but rather by operating on a single project at a time. If **All Projects** is used as the search criteria while performing an **Add Missing Records** action, the TIMS3 SQL Server database will likely run out of memory space for all the new records and/or the transactions log. The SQL Server Enterprise Manager will have to be used to allocate more space for the TIMS3 data and to clear the transactions log. Using a trial and error method, the user may be able to estimate the amount of data space required by noting how much free data space is available in the TIMS3 database. Then performing a **Log Discrepancies Only** action on a specific project and noticing how many records will be generated. The **Add Missing Records** action can be run to generate the new records and then the user can note how much database memory space was used up for storing the added records.

## Synchronizing Projects

Run DBSYNC on a file server and click on the **Projects** tab to see the following dialog:

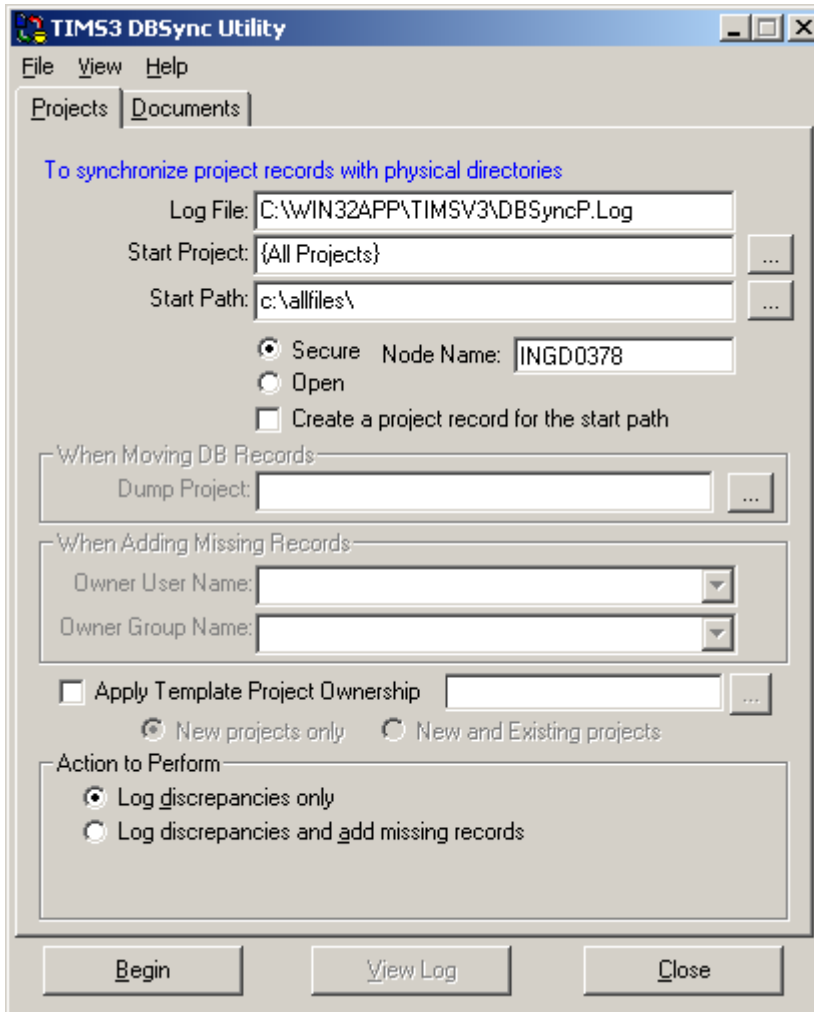


Figure 1

## DBSync Input

Below is the list of the required input parameters:

### Log File

By default, a log file for the DBSYNC process is generated in the same directory where DBSYNC is stored, called DBSyncP.log. The name may be modified to specify a different file.

### Start Project

A single project may be specified in the **Start Project** field. To specify a specific project click the browse button on the right of the **Start Project** field and the list of all valid TIMS3 projects will display in the **TIMS3 Project Browser** window. When select a start project the project server path, project type (i.e. **Secure**, **Open**) and node name will be set automatically.

## Start Path

This input parameter is manually set when there is no start project record. The full path to the project may be typed or the browse button beside the start path may be used to locate a specific directory on the server. The project type, and the node name are the mandatory fields. The **Create a project record for the start path** checkbox is left unchecked when the user doesn't want to create a project record for the start path.

## Other Project Attributes

**Secure** - Search limiting to secure projects. With this option on all new projects are created as secure projects.

**Node Name** - Must be specified if secure option is selected.

**Open** - Search limiting to Open projects. With this option on all new projects are created as Open projects.

**Create a project record for the start path** - leave this checkbox unchecked to skip the start path when creating project records.

## Dump Project

This option is not used for synchronizing projects.

## Owner User Name

Use this field to specify a user name that will be the owner of any newly generated project records. The user name may be either typed or selected from the list of TIMS3 users by clicking the pull-down menu on the right of the field. The list of TIMS3 users can be modified by running the TIMS3 Data Manager or Project Navigator and accessing the data in the **User Privilege Levels** option under the **Security Menu**.

## Owner Group Name

Use this field to specify a group name that will be the group owner of any newly generated project records. The group name may be typed or selected from the list of all documented TIMS3 groups by clicking the pull-down menu on the right of the field.

The list of documented TIMS3 groups can be modified by running the TIMS3 Data Manager and accessing the Groups data in the **Table Maintenance** option under the **Administration Menu**.

## Apply Template Project Ownership

**Apply Template Project Ownership** provides a way for applying the TIMS3 template folder security permissions to a particular matching project folder structure(s) in the selected **Start Project**. The TIMS3 template project is selected by clicking the browse button and selecting the project from the TIMS3 Project Browser window. The ownership/group information may be applied to new projects or to both new projects and projects existing in TIMS by selecting the **New projects only** or **New and Existing Projects** buttons respectively. The following actions occur after synchronization:

Security/Ownership assigned to the sub projects in the template project is applied to the matching existing or new sub projects. Sub-projects not contained in the template project inherit the ownership from their parent projects. Sub projects that were only present in the **Template** project are ignored.

When first creating a root level project, if there is no match in the template project, the **Owner User Name** and **Owner Group Name** is applied to it.

**Note:** The permissions are applied to the existing project structure from the starting point of template the project structure.

See the example in Figure 2.

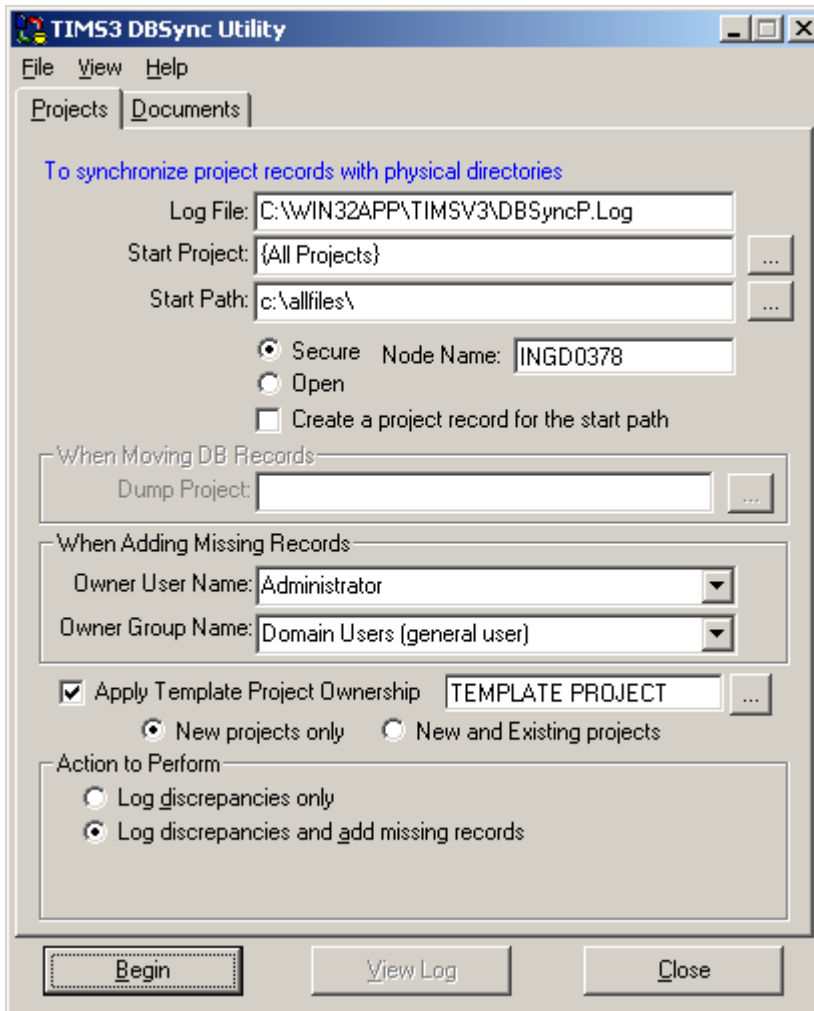


Figure 2

## DBSync Operating Modes

Below is the list of the various methods of using DBSync.

### Log discrepancies only

Selecting to **Log discrepancies only** for the search criteria specified, disables the dialog items in the **When Moving DB Records** and **When Adding Missing Records** sections. Clicking the **Begin** button instructs the utility to create a report log file. Click **View Log** when it becomes enabled to examine the log file.

### Log discrepancies and add missing records

Selecting this action enables the **Owner User Name** and **Owner Group Name** items (in the **When Adding Missing Records** group). When a physical directory is found with no associated project record DBSYNC will automatically generate one. Most of the project record fields will be set to default values related to the directory. However, the User and Group ownership of the project record must be set by specifying them in these two items on the dialog.

## Synchronizing Documents

This section explains how to synchronize document records and physical disk files.

DBSYNC is run on a file server from the windows **Start** menu by selecting **All Programs>TIMS File Server>TIMS DBSync Utility**. Clicking the **Documents** tab displays the following dialog:

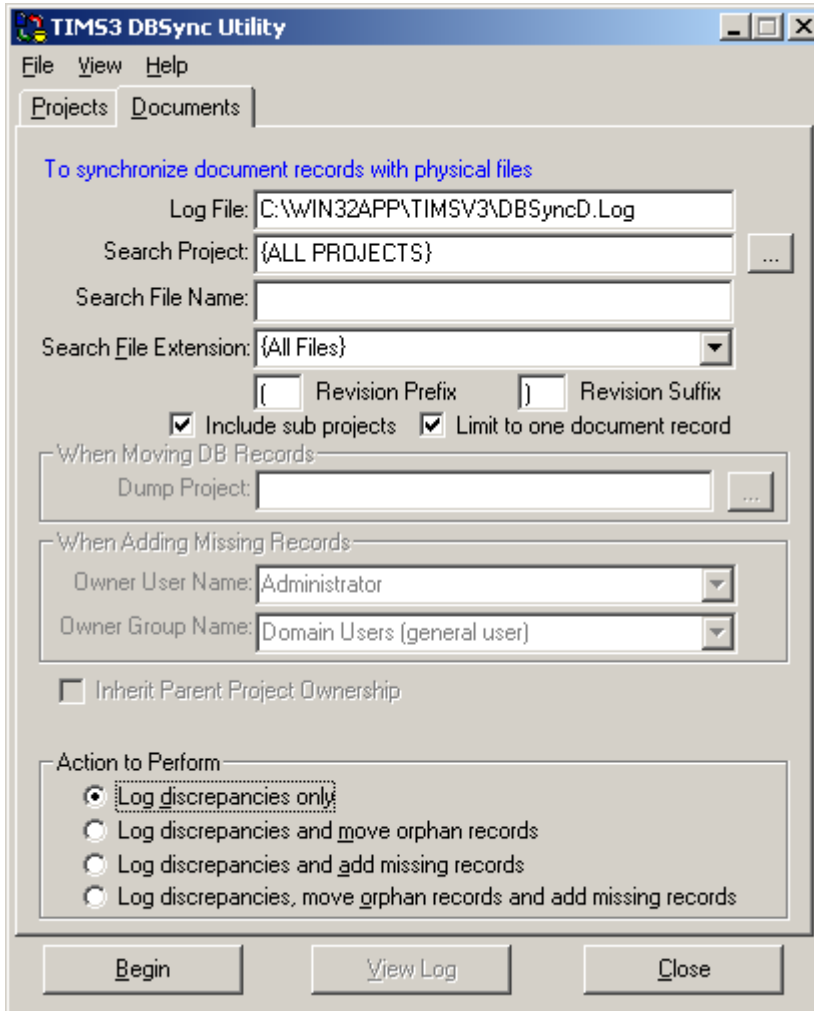


Figure 3

## DBSync Input

Below is the list of the required input parameters:

### Log File

By default, a log file for the DBSYNC process is generated in the same directory where DBSYNC is stored, called **DBSyncD.log**. The name may be modified to specify a different file.

### Search Project

A single project may be specified, or the default may be accepted to process **All Projects**. To specify a specific project, click the browse button on the right of the **Search Project** field and

the list of all valid TIMS3 projects will display for the user selection in the **TIMS3 Project Browser** window. The user **MUST NOT** set this to the same name as the Dump Project (see below) since the DBSYNC utility will perform searches for the project(s) identified EXCLUDING the project as identified as the Dump Project. Therefore, if the same name for both the Search Project and Dump Project is specified no records will be found.

### Search File Name

The action may be limited to only process a specific file name, or accept the default (blank) to process All Files. To use a specific file name, key in the name of the file (excluding the dot '.' character). Also, use \* when searching for a file name like files.

### Search File Extension

The action may be limited to only process a specific file extension, or accept the default to process All Files. To use a specific file extension, either key in the name of the extension name (excluding the dot '.' character) or click on the pulldown list button at the right of the field and a list of all file extension entries in the TIMS3 database will be generated for the user selection.

### Revision Specific Attributes

Revision Prefix/Suffix - Specify these parameters to exclude the revision files when searching. By default the Revision Prefix/Suffix fields contains brackets.

### Other Attributes

**Include Sub Projects** - Apply action for all sub projects.

**Limit to one Document Record** - Check this option to limit one document record per file. In this case, all projects that are referred to the same directory are taken into consideration. For example, ProjectA and ProjectB are referred the same directory and a document record for FileA is in ProjectA but not in ProjectB. Search for documents in ProjectB will skip FileA when this option is checked.

### Dump Project

The project specified in this field **MUST NOT** be the same project as entered in the **Search Project** item. The user may specify an active production project name that they know all orphaned records found from the search project should be moved into. Alternatively, a dummy scratch project may be selected, created before running DBSYNC, to be used for storing all orphan database records. By doing so, the TIMS3 Project Navigator may be later used to move the record to a properly identified project, or to delete an invalid record. See the example in Figure 4.

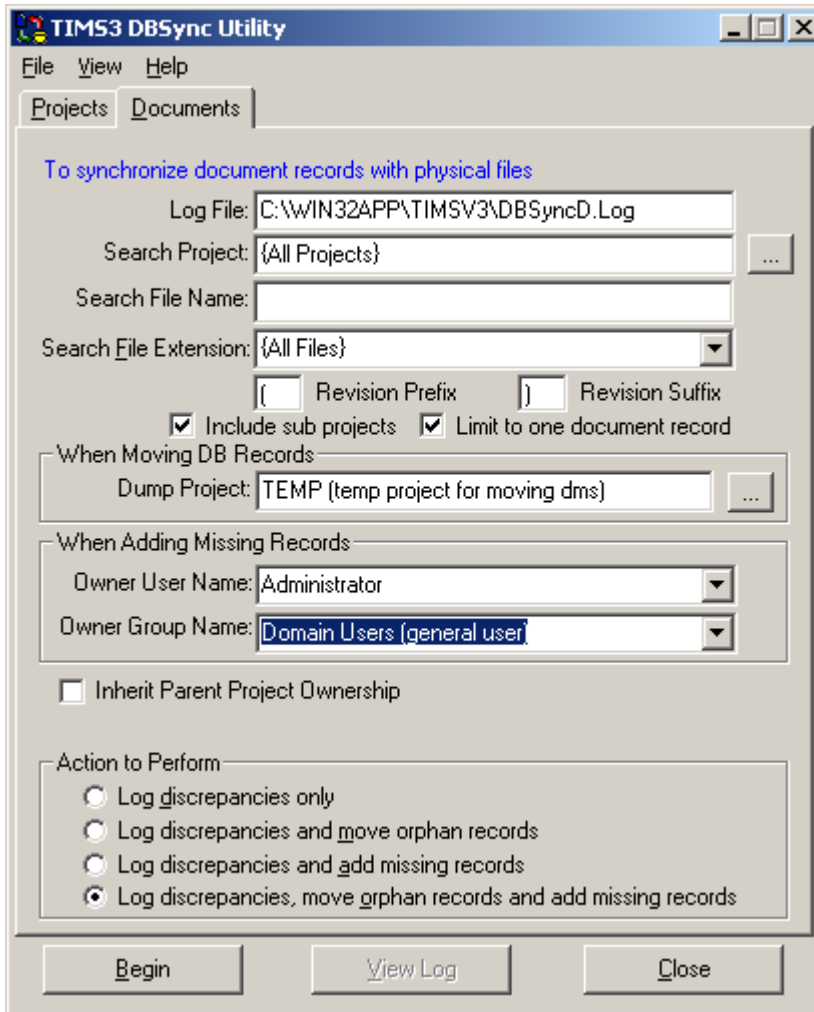


Figure 4

### Owner User Name

This field is used to specify a user name that will be the owner of any newly generated document records. The user name may be either typed, or selected from the list of all documented TIMS3 users by clicking the pull-down menu on the right of the field. The list of documented TIMS3 users can be modified by running the TIMS3 Data Manager and accessing the data in the **User Privilege Level** option under the **Security Menu**.

### Owner Group Name

This field is used to specify a group name that will be the group owner of any newly generated document records. The group name may be typed or selected from the list of all documented TIMS3 groups by clicking the pull-down menu on the right of the field. The list of documented TIMS3 groups can be modified by running the TIMS3 Data Manager and accessing the Groups data in the **Table Maintenance** option under the **Administration Menu**.

### Inherit Parent Project Ownership

If the **Inherit Parent Project Ownership** checkbox is selected the synchronized documents will inherit security permissions of their parent project. The group and ownership of existing

documents will remain unaffected. The **Owner User Name** and **Owner Group Name** will be ignored during the synchronization; they can be left blank.

## DBSync Operating Modes

Below is the list of the various methods of using DBSync:

### Log discrepancies only

Selecting **Log discrepancies only** for the search criteria specified disables the dialog items in the **When Moving DB Records** and **When Adding Missing Records** sections. Clicking the **Begin** button instructs the utility to create a report log file; no actions are performed even though there are discrepancies. Click **View Log** when it becomes enabled to examine the log file.

### Log discrepancies and move orphan records

Selecting this action enables the **Dump Project** item (in the **When Moving DB Records** group) and allows moving orphaned database records to a specified project. An orphaned database record means a document record exists but the associated physical diskfile can not be located on the file server.

### Log discrepancies and add missing records

Selecting this action enables the **Owner User Name** and **Owner Group Name** items in the **When Adding Missing Records** group.

When a physical diskfile is found with no associated document record DBSYNC will automatically generate one. Most of the document record fields will be set to the default values related to the diskfile. However, the User and Group ownership of the document record must be set by specifying them in these two items on the dialog.

### Log discrepancies, move orphan records and add missing records

Selecting this action enables the **Owner User Name** and **Owner Group Name** items (in the **When Adding Missing Records** group). Also, the **Dump Project** dropdown becomes enabled and must be specified so that the orphan DB records can be moved the project specified.

When a physical diskfile is found with no associated document record DBSYNC will automatically generate one. Most of the document record fields will be set to default values related to the diskfile. However, the User and Group ownership of the document record must be set by specifying them in these two items on the dialog. Currently, the entries in these two items only relate to ownership of the document record, and not the actual existing diskfile, although this may be a future enhancement of the DBSYNC utility.

## DBSync Batch Process Overview

DBSync can be executed in a batch mode by placing an INI file in the same directory as the DBSync application (normally `c:\win32app\timsv3` on the file server) and starting DBSync with the `-a` command line argument. The INI file is broken into sections indicated by **[ROUND#]** where the **#** indicates the sequence number in which the action takes place.

DBSync can also be run with specified user credential: `DBSync.exe -u UserName -p Password`  
For more information about running a batch procedure refer to the TIMS3 Users Guide.

Sample Command Line: `dbsync.exe -a`

Remember: **dbsync.ini** and **dbsync.exe** must be in the same directory.

## Synchronizing Projects

The parameters specified on the form can be set as follows:

<b>[ROUND#]</b>	a sequential batch round number
TAB=Projects	TAB name
LogFile=	log file name
StartProjectName=	start project name
StartProjectID=	start project ID if known
StartProjectPath=	start project path
Secure=	1 (create secure sub-project) or 0
NodeName=	Node name must be specified for secure projects
<b>OR</b>	
Open=	1 (create open sub-projects) or 0
ExcludeStartProject=	1 (Exclude start project) or 0
Action=1	Log Error Only
<b>OR</b>	
Action=2	Log Error and Add Missing Records
UserName=	User Name
Group=	Group Name
ViewLog=	1 (show log) or 0
Pause=	1 (wait for user response) or 0

## Synchronizing Documents

The parameters specified on the form can be set as follows:

<b>[ROUND#]</b>	a sequential number
TAB=Documents	TAB name
LogFile=	log file name
SearchProjectName=	search project name
SearchProjectPath=	search project path
SearchProjectID=	search project ID if known
FileName=	
FileExtension=	
IncludeSubProjects=	1 or 0
LimitToOneRecord=	1 or 0
Action=1	Log Errors Only
<b>OR</b>	
Action=2	Log Errors and move Orphan Records
DumpProjectName=	dump project name
DumpProjectPath=	dump project path
DumProjectID=	dump project ID if known
<b>OR</b>	
Action=3	Log Errors and Add Missing Records
UserName=	User Name
Group=	Group Name
<b>OR</b>	
Action=4	Log Errors, Move Orphan DB Records and Add Missing Records
DumpProjectName=	dump project name
DumpProjectPath=	dump project path
DumProjectID=	dump project ID if known
UserName=	User Name
Group=	Group Name
ViewLog=	1 (show log) or 0
Pause=	1 (wait for user response) or 0

### Sample Dbsync.ini File

**ROUND 1**

```
TAB=Projects
LogFile=c:\win32app\timsv3\p1.log
StartProjectName=BEK
StartProjectPath=E:\allfiles\BEK\
ExcludeStartProject=1
UserName=Administrator
GroupName=Domain Users
Action=2
ViewLog=1
```

**ROUND 2**

```
TAB=Documents
LogFile=c:\win32app\timsv3\d1.log
SearchProjectName=BEK
SearchProjectPath=E:\allfiles\BEK\
FileName=
FileExtension={All Files}
IncludeSubProjects=1
UserName=Administrator
GroupName=Domain Users
Action=3
ViewLog=1
```

### Description of INI file Action

In ROUND1, add sub-project records for projects under project BEK.

In ROUND2, add document records for files in project BEK and all of its sub-projects.

## Contact Us

For more information on the TIMS3 DBSync Utility contact a service representative at:

**Sales**

Cion Corp.  
Robert Edwards  
Manager, Business Development  
175 Bloor Street East  
North Tower, Suite 301  
Toronto, ON M4W 3R8

Sales: [sales@cion.com](mailto:sales@cion.com)  
1-866-761-CION (2466) ext. 5  
Direct: 416-926-4335  
[rob.edwards@cion.com](mailto:rob.edwards@cion.com)

**Support:**

Cion Corp.  
Sheila Zatulovsky, Product Support  
2 International Blvd.  
Toronto, Ontario, Canada  
M9W 5P3

Support: [support@tims3.com](mailto:support@tims3.com)  
Direct: 416-798-5447