



IQCentral Central System Software

Announcing IQCentral v1.4

Quixote Traffic is pleased to announce the release of Version 1.4 of the IQCentral™ Central System Traffic Management Software. The purpose of this release is to add support for Traconex and Transyt EL series traffic controllers and master controllers to IQCentral. It also adds the capability to perform central overrides using the map interface, and makes the configuration of map polling for traffic controllers a much easier process. This release should be implemented by all current IQCentral customers, as well as all new installations.

Product **IQCentral**

Version..... **Version 1.4**

Release Date **August 27th, 2007**

Product Requirements

This release of the software requires a Windows compatible computer, running Windows 2000 or Windows XP. For all features to work, the system must also have Microsoft Office, version 2000 or version 2003, installed.

Important Note: Windows Vista became available in January of this year. IQCentral is not yet supported on Windows Vista, but it will be at some point in the future. Similarly, since IQCentral depends upon Microsoft Office for much of its core functionality, the release of Office 2007, also in January, is of similar importance. Again, IQCentral cannot currently be used with Office 2007, but support for Office 2007 will be added at some point in the future.

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To connect with field hardware, communications channels to those devices will also need to be available. Devices capable of using the NTCIP protocol natively, such as the Quixote ATC and ASTC controllers, can be connected to IQCentral directly via one of these communications channels. However, every non-NTCIP compatible device that will be connected to IQCentral will need an additional piece of hardware, namely an IQConnect® translator unit installed somewhere near (or within) the controller. This will allow non-NTCIP devices to communicate with IQCentral via the NTCIP communications protocol.

If upgrading from a previous version of IQCentral, we recommend that you make backup copies of the IQCentral database and associated files, and perform an uninstall of the earlier version of the application, before installing Version 1.4. For such system updates, additional conversion work on the earlier IQCentral database will need to be performed by a Quixote Traffic technician before the updated system can be used.

Table 1 – IQCentral Version 1.4 Workstation Requirements

Minimum Workstation		Ideal Workstation or Server
Processor	Intel P4 or equivalent, or better	Intel P4 or equivalent, or better
Processor Clock speed	1.7 GHz	2.0 GHz
RAM	1 GB	1 GB
Free HD Space	5 GB	10 GB

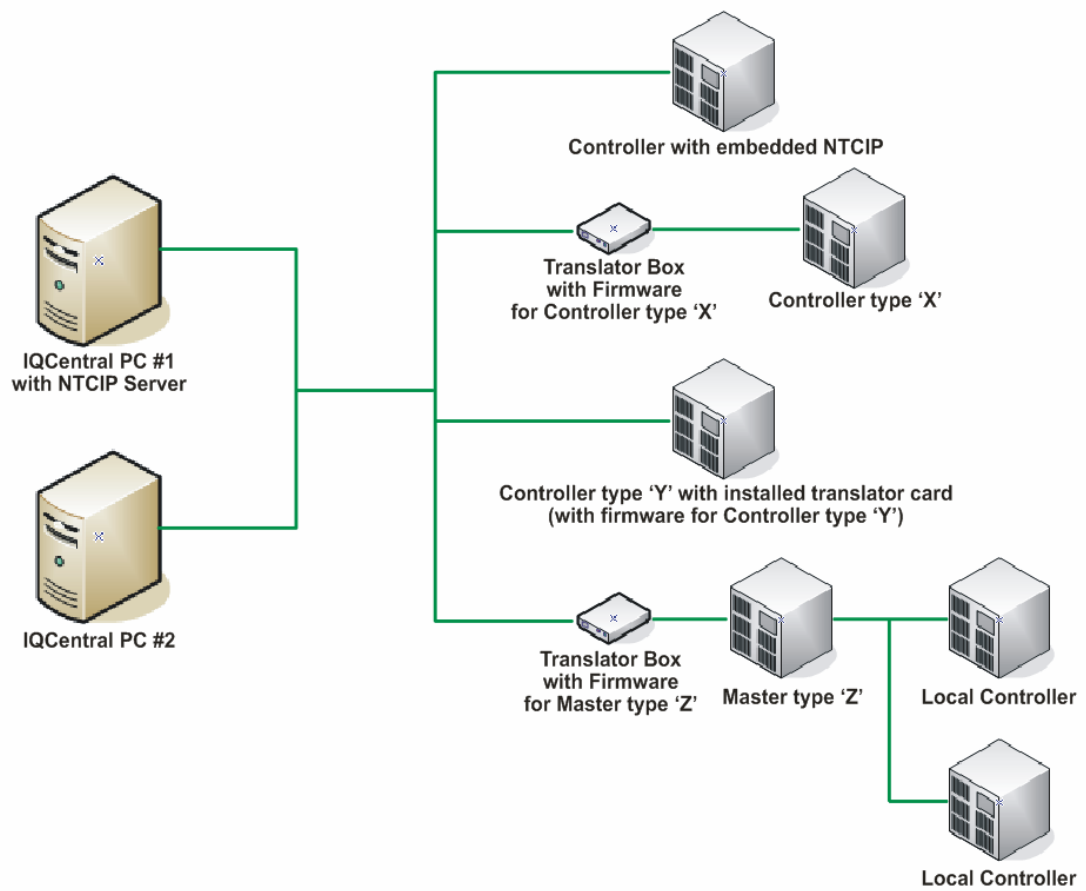
Compatibility Matrix

This release of Version 1.4 of the IQCentral software will work with the following Quixote Traffic traffic-control products:

Table 2 – IQCentral Version 1.4 Compatibility Matrix

Device	Will work with IQCentral v1.4	Translator Firmware		Controller Firmware Required
		Part #	Version	
IQ ATC Controller (NY CBD version)	Yes	N/A	None required [†]	01-00-0129
IQ ATC Controller (TS2 Type 2 version)	Yes	N/A	None required*	01-00-0129
Multisonics 820A OSAM Controller - Isolated Local	No	97-600	Not yet available	N/A
Multisonics OSAM-32 Master Controller	Yes	97-599	v2.0 or higher	v2.22
- 820A controller under an OSAM-32	Yes	N/A	Supported by the OSAM-32 translator	Rev K
Peek 3000E Controller - Isolated Local	Yes	97-602	v2.0 or higher	v3.6.2
Peek M3000E Master Controller	Yes	97-601	v2.0 or higher	v2.8.2
- Peek 3000E controller under an M3000	Yes	N/A	Supported by M3000 translator	v3.6.2
- LMD40 controller under an M3000	No	N/A	Not yet available	N/A
- LMD8000/9200 controller under an M3000	No	N/A	Not yet available	N/A
Traconex TMM500 Master Controller	Yes	97-603	v2.0 or higher	C.0.B
- Traconex 390CJ controller under a TMM500	Yes	N/A	Supported by TMM500 translator	V.4.D
Traconex TMP 390 CJ Controller - Isolated Local	No	97-604	Not yet available	N/A
Transyt 3800EL Master Controller	Yes	97-605	v2.0 or higher	v17.4
- 1880EL controller under a 3800EL	Yes	N/A	Supported by 3800EL translator	92 R 09
Transyt 1880EL Controller - Isolated local	No	97-606	Not yet available	N/A
Peek LMD9200 - Isolated local	No	97-607	Not yet available	N/A
Wapiti 170 - Isolated local	No	97-608	Not yet available	N/A
Cohu NTCIP Camera	Yes	N/A	None required*	N/A
SSI Weather Station	Yes	N/A	None required*	N/A
Overhead Sign (NTCIP)	Yes	N/A	None required*	N/A
RTMS Sensor (NTCIP)	Yes	N/A	None required*	N/A

[†] Devices that speak NTCIP natively, such as the IQ ATC controller, don't need separate translator hardware.



Installation Notes

IQCentral Version 1.4 should not be installed without the guidance of a Quixote Traffic customer support representative. The following procedures describe the basic process to install or upgrade an IQCentral Version 1.4 system.

Before Installing IQCentral Version 1.4

1. If a previous version of IQCentral is installed on the computer, go to the Windows Control Panel and open Add/Remove Programs. Select IQCentral and choose Change. When the Change dialog box appears, choose Remove. This will NOT delete the old database.
2. Locate and back up the old IQCentral database. The file is called 'NTCIPServerDB.mdb'. It could be on your C drive in the Documents and Settings\All Users\Application Data\Quixote Traffic\IQCentral folder, or it could have been stored where you installed IQCentral itself, or it could be installed somewhere completely different on your system.
3. On each system where IQCentral will be installed, verify that the operating system is at Windows 2000 or Windows XP. (IQCentral Version 1.4 is not compatible with Windows Vista.)
4. Verify that a properly licensed version of either Microsoft Office 2000 or 2003 is installed on each system. (IQCentral Version 1.4 is not compatible with Office 2007.)
5. Locate the license key for IQCentral. This code should have been provided along with the installation CD. If not, contact your Quixote Traffic service representative in order to request a valid license key.

Installation Steps

1. Insert the IQCentral installation CD into the CD-ROM drive of the workstation where you want to install the program.
2. If autorun is not configured on this CD-ROM drive, open a Windows Explorer window and navigate to the drive. Locate the **IQCentral.msi** installation program and double-click it. This will launch the installation program.
3. Follow the directions on-screen. You will need to accept the software license in order to install the program. When you get to the Customer Information dialog box, enter the user name, organization, and the valid installation key in the fields. This key will determine whether the BMP or GIS mapping version of IQCentral is installed, as well as which optional modules are installed.
4. If you plan to install to the standard location on the hard drive (C:\Program Files\Quixote Traffic Corp\IQCentral) then choose **Typical** on the next screen. On the other hand, if you wish to install the system somewhere else on your hard drives, choose Custom.
5. If you chose Custom, press the **Browse** button to select the install location for your IQCentral applications. In the tree view in this window, you also have the option to select whether you want the Help system, and the sample database to be installed with the program. Press **Next**.

Note: For **most** installations of the system, you should install the sample database. If you plan to retain data from a previous version of IQCentral, we recommend that you install the sample database, and then contact Quixote Traffic about restoring your existing data into the new database.

6. Complete the steps in the install until you reach the last screen, then choose the **Finish** button.
7. Restart the computer to complete the installation.
8. Repeat the process on each workstation for which you purchased a license.

9. To configure multiple workstations to connect to a single 'IQCentral Server', some work will need to be done configuring the Windows Distributed Communications (DCOM) system. Unfortunately, this process is beyond the scope of this procedure. This process will be done by a Quixote Traffic customer service technician.
10. Once the software is installed and the networked workstations are connected to one another, you will then need to configure the system to suite your needs. This process includes the following steps:
 - Installing the map files for your locale
 - Configure software 'Connections' that link to your physical communications channels
 - Installation of the translator hardware for those field devices that need them
 - Configuration of device instances within IQCentral to act as interfaces to your field devices
 - Assignment of Devices to Connections to complete the link between the central software and the field hardware
 - Placement of Device icons in the appropriate locations on the IQCentral versions of your local maps

New Features

A long list of important new features have been added to IQCentral as part of the Version 1.4 update.

Table 3 – The Version 1.4 release of IQCentral includes these new features

Enhancement	Description	Case #
Central overrides	Right-clicking on an intersection controller or master device in the Map View module now allows you the additional option to send a central override command to the device.	2817
New Polling assistant	A new button has been added to the Realtime Polling module to allow an operator to more easily and automatically configure map polling for intersection data objects	3205
TMM-500 Support	Support for a Traconex TMM500 in IQCentral. Provided forms and master tables. Support in device add, connection add, status view, map view, map configuration, upload/download, scheduled log retrieval, and archive/restore modules.	3374
390CJ Support under master	Support for a Traconex 390CJ Controller operating under a TMM500 Master. Provided forms and master tables. Support in device add, connection add, status view, map view, map configuration, upload/download, scheduled log retrieval, and archive/restore modules.	3375
3800EL Support	Support for a Transyt 3800EL master in IQCentral. Provided forms and master tables. Support in device add, connection add, status view, map view, map configuration, upload/download, and archive/restore modules. Scheduled log retrieval for the 3800EL is not supported at this time.	3377
1880EL Support under master	Support for a Transyt 1880EL controller operating under a 3800EL Master. Provided forms and master tables. Support in device add, connection add, status view, map view, map configuration, upload/download, and archive/restore modules. Scheduled log retrieval for the 1880EL is not supported at this time.	3378
Help System update	Additional content describing new features in v1.4 of IQCentral have been added. Also added content to describe Traffic Sign Management, Incident Management, Database maintenance and archiving, the System Log, and IQCentral customization.	N/A

Issues Addressed in this Release

The following issues and reported problems with previous versions of IQCentral have been addressed and repaired in IQCentral Version 1.4

Table 4 – The Version 1.4 release of IQCentral addresses the following issues

Issue	Resolution	ECR#
Right-clicking on an intersection device in the GIS Map View module occasional resulted in a 'Subscript out of range' error.	The way that device context menus was called was faulty. This has been corrected in IQCentral v1.4.	3166
In the Map View module, when viewing several intersections at zoom 1, if one set the zoom to front panel (Zoom 4) on one intersection, all of the other intersections showed up on top of the front panel.	The intersection whose zoom is changed is now automatically brought to the front of all intersections on the map.	3167

Additional Guidance on IQCentral

The following additional resources are available for all customers should you have the need for extra guidance concerning the IQCentral software and its use with a variety of hardware.

Documentation

Table 5 — Additional documentation available for IQCentral and related hardware

Document	Part Number
IQCentral Release Notes	99-427
IQCentral Help System	<i>Included with product</i>
IQCentral Operating Manual	81-1123
Peek 3000E Controller Operating Manual	8204C
Peek 3000E Firmware Release Notes	99-332
Peek M3000E Master Controller Operating Manual	5928
Peek M3000E Master Firmware Release Notes	99-329
Multisonics 820A OSAM Controller Operating Manual	006922
Multisonics OSAM 32 Master Controller Operating Manual	RM-0891
Traconex TMM500 Master Operating Manual	28027317-001
Traconex 390CJ Controller Operating Manual	MN078056
Transyt EL3800 Master Controller Operating Manual	81-1191
Transyt EL1800 Controller Operating Manual	81-1192

Technical Support

This contact information will connect you with the IQCentral software technical support staff of Quixote Traffic Corporation, should you require additional help concerning this update.

Quixote Traffic Corporation

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