Release Notes

IQCentral Central System Software

Announcing IQCentral v1.3

Quixote Traffic is pleased to announce the release of Version 1.3 of the IQCentral™ Central System Traffic Management Software. The purpose of this release is to provide efficiency and reliability improvements to the Upload/Download module, the GIS Mapping modules, the Archive and Restore modules, and the general IQCentral interface, as well as enhanced support for the Peek and Multisonics traffic controllers, and the IQ 3000-PC series of ATC and ASTC traffic controllers. This release should be implemented by all current IQCentral customers, as well as all new installations.

Product ..... IQCentral

Version ..... Version 1.3

Release Date ..... May 1st, 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 on January 30, 2007. 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 key functionality, the release of Office 2007, also on January 30, 2007, 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 1.3. 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 1.3 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

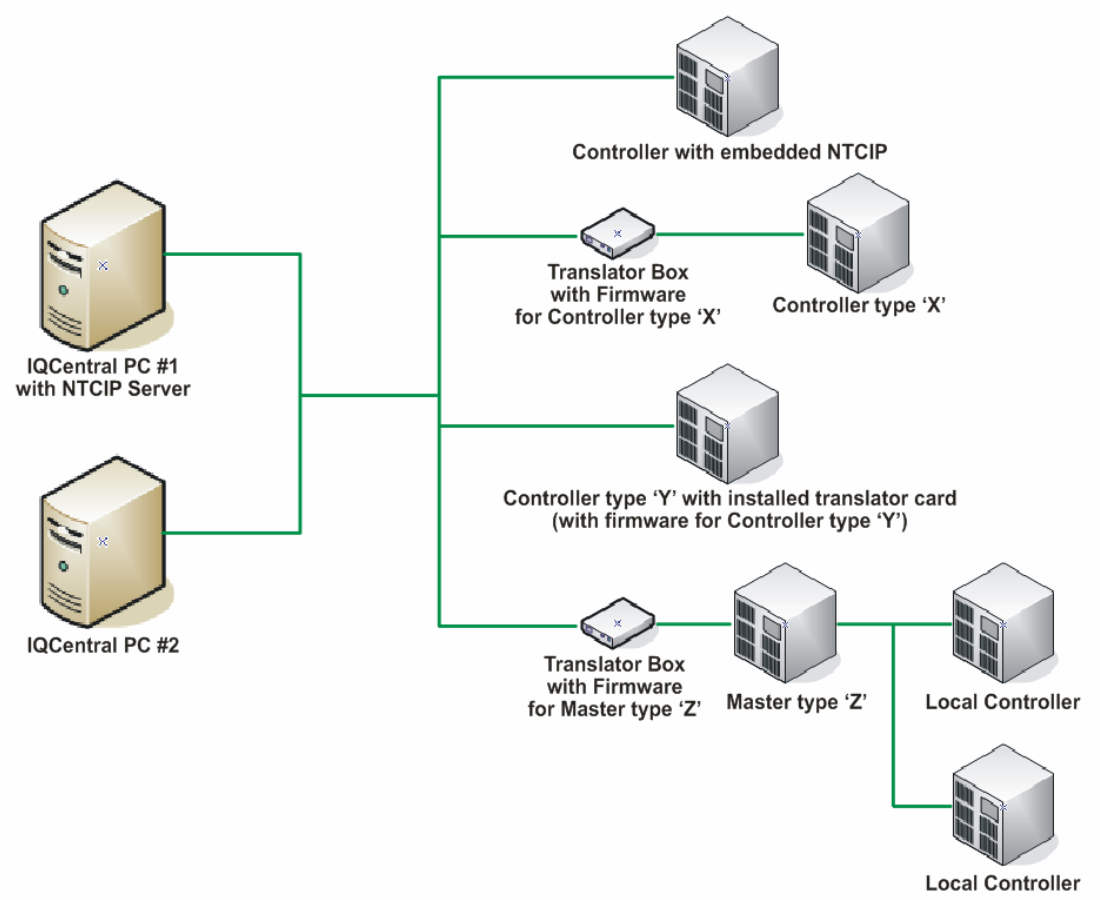
Compatibility Matrix

This release of Version 1.3 of the IQCentral software will work with the following Quixote Traffic traffic-control products:

Table 2 – IQCentral Version 1.3 Compatibility Matrix

Device	Will work with IQCentral v1.3	Translator Firmware		Controller Firmware Required
		Part #	Version	
IQ ATC Controller (NY CBD version)	Yes	n/a	None*	01-00-0129
IQ ATC Controller (TS2 Type 2 version)	Yes	n/a	None*	01-00-0129
Multisonics 820A OSAM Controller	Yes	97-600	v1.0.1 or higher	Rev K
Multisonics OSAM-32 Master Controller	Yes	97-599	v1.0.1 or higher	v2.22
Peek 3000E Controller	Yes	97-602	v1.0.1 or higher	v3.6.2
Peek M3000E Master Controller	Yes	97-601	v1.0.1 or higher	v2.8.2
Traconex TMM 500 Master Controller	No	97-603	Not yet available	C.0.B
Traconex TMP 390 CJ Controller	No	97-604	Not yet available	V.4.D
Transyt 3800EL Master Controller	No	97-605	Not yet available	v17.4
Transyt 1880 Controller	No	97-606	Not yet available	92 R 09
Peek LMD9200	No	97-607	Not yet available	v7.4.17
Wapiti 170	No	97-608	Not yet available	58A
Cohu NTCIP Camera	Yes	n/a	None*	Any
SSI Weather Station	Yes	n/a	None*	Any
Overhead Sign (NTCIP)	Yes	n/a	None*	Any
RTMS Sensor (NTCIP)	Yes	n/a	None*	Any

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



Installation Notes

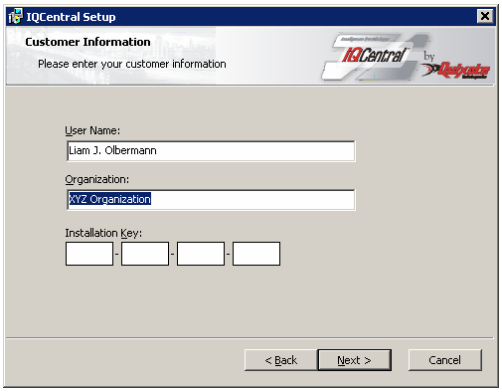
IQCentral Version 1.3 should not be installed without the guidance of a Quixote Traffic customer support representative. The following procedures describe the basic process to install or upgrade an IQCentral v1.3 system.

Before Installing IQCentral Version 1.3

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 1.3 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 1.3 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 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 1.3 update.

Table 3 – The Version 1.3 release of IQCentral includes these new features

Enhancement	Description
Ability to delete layer groups	In the GIS version of IQCentral v1.2, it was not possible to delete layer groups without going into Access and editing the Map Layer Groups table directly. Version 1.3 adds the ability through the IQCentral interface to delete layer groups.
Support for IQ ASTC NTCIP 1202 controllers	IQCentral now supports standard objects for the IQ ASTC NTCIP (1202) controller. For the Version 1.3 release, this support does not include support for pre-timed MIB objects.
Improved Archive and Restore functionality	The Archive and Restore module, used to back up and restore tables from the IQCentral database, has been improved both in interface and in functionality. Previously, the A&R module allowed a user to select many database objects for backup and restore that the average user has no need to deal with, such as static tables and database forms. The listing has been simplified so that only data that an operator would require can be backed up and restored. And the interface now has a dedicated 'Archive' and a dedicated 'Restore' view. These new views also add a couple new features, such as the option to delete the current database table when restoring a table from an archived file.
GIS Map Layers interface has been improved	The Layers module has been improved to provide better fill descriptions, a preview of the fill color, outline and text color within the Layers module, better layer ordering tools, better importing of layer shape files, a more useful list view of layers, and a more logical layout of layer parameters.
GIS Map Management module interface improvements	The sizing of layers within the Map Management module has been improved. When painting complex GIS layers, the drawing process can be interrupted now by pressing **ESC**.
BMP Map Viewer and Map Management interface improvements	Both the Map View module and the Map Management have been improved when being used with BMP map data. They now size properly to reflect the size of the map image file being used. The controls on the Map Management module have been laid out more logically. Zoom areas now provide outlines and text titles in the Map Management area.
Upload/Download module interface and efficiency improvements	The Upload/Download module has been improved in ways to both improve the speed with which data is transferred between the central software and field devices, and to improve user feedback in the interface. A new data transfer status bar has been added.
Improved Intersection Display editor	The interface used to create and edit intersection zoom displays was sometimes difficult to use. This interface has been greatly improved and its reliability has been increased. This interface also added the extremely helpful new feature of auto-populating the Map Polling data fields based on the intersection elements that have been implemented within the intersection editor.

Issues Addressed in this Release

The following issues and reported problems with previous versions of IQCentral have been addressed and repaired in IQCentral Version 1.3

Table 4 – The Version 1.3 release of IQCentral addresses the following issues

Issue	Resolution	ECR#
GIS Layers module - several lock-up and data corruption errors	The GIS Layers module of IQCentral v1.2 was reported to have several errors when adding and editing layers. These include problems with priority order, text font and size settings, and label positioning. The stability and logical operation of the module have been improved dramatically.	1892, 2376, 2379, 2380
Several issues with Multisonics 820A upload and download	Some errors were reported while retrieving and sending data to an 820A controller. This happened when working with all pages, with preemption data, with detector data, and several other areas. The reliability and stability of data retrieval and transmissino to 820A has been dramatically improved. We now classify the 820A U/D capability as robust and reliable.	2460, 2540, 2541, 2542, 2545, 2546, 2547, 2548, 2549, 2534, 2538, 2601, 2599, 2616, 2617, 2613, 2614, 2612
Several issues were reported with Multisonics OSAM masters in the upload and download module	Some problems were encountered connecting to OSAM masters through the upload/download module.	2535, 2536
Several issues with PEEK 3000E upload and download	There were problems reported with the PEEK 3000E controller upload and download screens, including incorrect cell labels, incorrect cell data checking, as well as problems retrieving and sending certain fields from and to field controllers. These problems have been identified and corrected. We now classify the 3000E U/D capability as robust and reliable.	2520, 2677, 2678, 2679, 2681, 2670, 2525, 2523, 2587, 2586, 2585, 2584, 2583, 2582, 2581, 2528, 2527, 2526, 2518, 2516, 2517
Issues with PEEK M3000 upload and download	Problems were reported in the Upload and Download module while working with PEEK M3000 controllers. These included incorrect limits on certain cells, incorrect cell editing windows, errors reading to and from device tables, and problems retrieving and sending some data field s to and from field masters. These problems have been identified and corrected. The M3000 U/D capability is now robust and reliable.	2552, 2553, 2554, 2557, 2558, 2555, 2560, 2561, 2562, 2564, 2566, 2671, 2672, 2673, 2674
Reports were not being filtered	The Event log, Volume Log, and MOE log reports were not filtering properly as selected in the Reports screen. These filters are now operating correctly during the generation of these these reports.	2482, 2666
Upload/Download interface errors	There were several cosmetic errors reported in the upload/download module. The most notable was that the color coding of individual cells was not always updating to show the correct color code when the module was switched between devices, or data was retrieved from a field device. Pressing enter on a field previously opened an edit window, but this stopped functioning in Version 1.2. The Send All button was disabled. These problems have all been corrected.	2464, 2537, 2551, 2580, 2556, 2508, 2577

Issue	Resolution	ECR#
Map Viewer interface errors	Several problems were encountered in the Map Management and Map Viewer modules. The Map modules could not find the default BMP graphics if IQCentral was installed somewhere other than the default location. Inability to mix standard and custom intersection zoom displays on a single map view. Signal heads states were not sticking around on the display if the controller stayed in a 'rest' state for more than a few minutes. Lockups were reported when switching between map views. Incorrect font sizes on GIS labels were reported. Map layer settings were not showing up in the viewer after being defined in a view. Scroll bars were appearing when not needed.	2393, 2347, 2394, 2447, 2200, 2353, 2381, 2686
Incorrect device selected in Upload/Download module when right-clicking a map device	When right-clicking on a device in the Map Viewer and choosing Upload/Download, the U/D module opened but did not display the correct device. The correct device is now displayed when the module is opened in this way.	2478
Problems polling dynamic objects	Map data linked to dynamic objects were not always syncing correctly. There were also some other problems reported when configuring map polling to retrieve dynamic objects	2465, 2651
BMP Map zoom areas can interfere with device icon placement on maps	This has been corrected. Zoom area handles no longer interfere with the placement of device icons on maps.	2579

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	*Included with product*
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*
Multisoncs OSAM 32 Master Controller Operating Manual	*RM-0891*

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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