



IQ Central Traffic System Software

Announcing IQ Central v1.5

Quixote Traffic is pleased to announce the release of Version 1.5 of the IQ Central® Central-System Traffic Management Software. This release adds a new, globally-available device alarm monitoring system, as well as a system to combine multiple devices together into one or more Groups, and a brand new dynamic status bar that provides greater system feedback to the operator.

Product **IQ Central**
Version..... **Version 1.5**
Release Date**April 7th, 2008**

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: IQ Central is not yet supported on Windows Vista. IQ Central cannot currently be used with Office 2007.

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 IQ Central directly via one of these communications channels. However, every non-NTCIP compatible device that will be connected to IQ Central will need an additional piece of hardware, an IQ Connect® translator unit, installed somewhere near (or within) the controller.

If upgrading from a previous version of IQ Central, we recommend that you make backup copies of the IQ Central database and associated files, and perform an uninstall of the earlier version of the application, before installing Version 1.5. For such system updates, additional conversion work on the earlier IQ Central database will need to be performed by a Quixote Traffic technician prior to use.

Table 1 – IQ Central Version 1.5 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

Contents

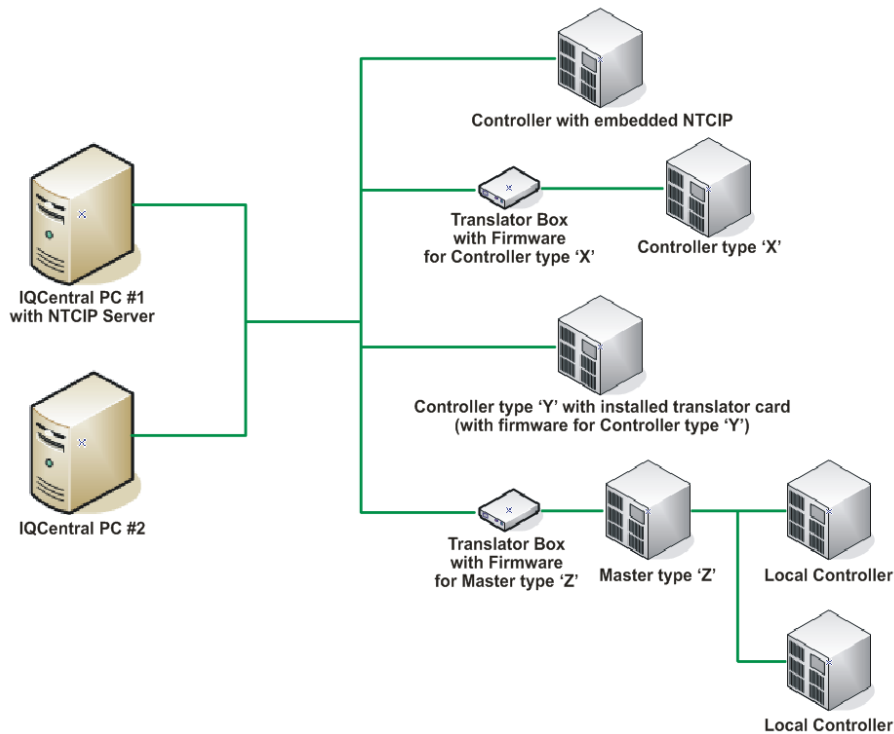
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Compatibility Matrix

This release of Version 1.5 of the IQ Central software will work with the following Quixote Traffic traffic-control products:

Table 2 – IQ Central Version 1.5 Compatibility Matrix

Device	Will work with IQ Central v1.5	Translator Firmware		Controller Firmware Required
		Part #	Version	
IQ ATC [®] Controller (NY CBD version)	Yes	N/A	None required ¹	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



¹ Devices that speak NTCIP natively, such as the IQ ATC controller, don't need separate translator hardware.

Alarm-Device Compatibility Matrix

Table of IQ Central standard alarms cross-referenced by the type of device and the name of the NTCIP data object that is required by the Alarm system.

Table 3 – Alarm compatibility by Device Type in IQ Central v1.5

Alarm	NTCIP Object	isolated		M3000		isolated		M3000		isolated		TMM500		isolated		OSAM		isolated		
		IQ_ASTC	3000E	3000E	LMD9200	3000E	3000E	1890EL	1890EL	3800EL	3800EL	TMP390CJ	TMP390CJ	820A	820A	820A	820A	820A	820A	Wapiti 170
Flash	shortAlarmStatus																			
Lost Comm	none																			
MCE	shortAlarmStatus																			
Cabinet Door Open	alarmGroupsState 2																			
Detector Fail	shortAlarmStatus																			
Coord Fail	shortAlarmStatus																			
Preempt	shortAlarmStatus																			
Special Function	specialFunctionStatus																			
Alarm Input	alarmGroupState 1 and 2																			
Volume	detectorVolume x																			
Occupancy	detectorOccupancy x																			
Pattern Change	coordPatternStatus																			
Master Intersections offline	peekM3kMaster ShortStatus																			
Master Intersections in flash	peekM3kMaster ShortStatus																			
Master Sensors failed	peekM3kMaster ShortStatus																			
Custom	various																			

Key to the Alarm-Device Matrix:

supported
not supported
to be implemented

Installation Notes

IQ Central Version 1.5 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 IQ Central Version 1.5 system.

Before Installing IQ Central Version 1.5

1. If a previous version of IQ Central is installed on the computer, go to the Windows Control Panel and open Add/Remove Programs. Select IQ Central 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 IQ Central 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 IQ Central itself, or it could be installed somewhere completely different on your system.
3. On each system where IQ Central will be installed, verify that the operating system is at Windows 2000 or Windows XP. (IQ Central Version 1.5 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. (IQ Central Version 1.5 is not compatible with Office 2007.)
5. Locate the license key for IQ Central. 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 IQ Central 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 **Setup.exe** installation program and double-click it. This will launch the installation program.
3. Choose the **Install IQ Central** button.
4. 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 IQ Central is installed, as well as which optional modules are installed.
5. 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.
6. If you chose Custom, press the **Browse** button to select the install location for your IQ Central 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 IQ Central, we recommend that you install the sample database, and then contact Quixote Traffic about restoring your existing data into the new database.

7. Complete the steps in the install until you reach the last screen, then choose the **Finish** button.
8. Restart the computer to complete the installation.

9. Repeat the process on each workstation for which you purchased a license. When installing to client workstations, be sure to select the Custom option, and be sure to uncheck the “Alarm Server Component”.
10. To configure multiple workstations to connect to a single ‘IQ Central 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.
11. 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 IQ Central 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 IQ Central versions of your local maps

New Features

A long list of important new features have been added to IQ Central as part of the Version 1.5 update.

Table 4 – The Version 1.5 release of IQ Central includes these new features

Enhancement	Description	Case #
New Status bar	The status bar in the main IQ Central window has been greatly improved. It now includes dynamically updated icons that represent the current state of the Data Manager, the NTCIP Server, device connections, and the Alarms system, as well as the current date, time and logged-in user. Also provides informative tooltip text when the mouse is floated over the status bar.	3868
New Alarm Handling system	The system for configuring and monitoring device alarms in IQ Central has been completely replaced. The new system is global and runs even when IQ Central is not running. It provides modules for alarm configuration, alarm status viewing, and alarm history viewing.	2821, 2721
Device Groups	Devices can now be grouped together into arbitrarily defined groups. Currently, these groups are used in the Alarms system, but have been designed to be used more extensively throughout IQ Central in upcoming releases.	2818
Auto-Update of Connection and Device tables	Previously, any time a change was made to the Device list or the list of available Connections, IQ Central needed to be restarted on all workstations to see the changes. The way that the software updates these tables, especially across networks, has been improved dramatically. As of the version 1.5 release, no restart is required after editing the Device list or the Connections list. The changes show up on all servers and workstations without the need to restart the application.	3875
New reports	The Reports module has been updated with two new reports; one of Group membership, and an Alarm History report. The list of reports has also been sorted and cleaned-up to be more easy to use.	3874
Help System update	The help file has been updated with additional content describing the new features of IQ Central. Content describing the Alarms feature, the configuration of groups, and the updated map polling interface has been added.	3785
New Operating Manual	IQ Central 1.5 now includes a full operating manual that can be ordered as a printed option from Quixote Traffic Corporation, or viewed as a PDF on the Installation CD and in the help system.	3523

Issues Addressed in this Release

The following issues and reported problems with previous versions of IQ Central have been addressed and repaired in IQ Central Version 1.5

Table 5 – The Version 1.5 release of IQ Central addresses the following issues

Issue	Resolution	Case #
Errors and interface problems were reported in the Map Polling Configuration window	The Map Polling Configuration window has been completely revamped to improve its usability and to repair several errors generated when it was used.	3583, 3597, 3529, 3580, 3581, 3598, 3599, 3603
Map Polling batch update activity generated overflow errors	The way that batch updates were performed within the Map Polling Configuration window were resulting in numerous database errors. The batch update function has been moved to a separate window where the feature operates correctly.	3600, 3601
Errors were reported in the Map Polling Assistant	The map polling assistant window of the Map Polling Configuration module was occasionally generating errors as it auto-populated map poll data for a controller. This error has been corrected.	3604, 3605, 3606
Security settings were not being applied to the Upload/Download module	The Upload/Download interface was not following the security level rules defined in IQ Central Operating, Manager, Administrator user accounts. The interface has been modified so that it properly honors account security, especially for the Send, Get, Save, Refresh, and Copy controls in the interface.	3720
Formatting problems in some reports	There were some spacing problems in the headers and footers of some of the reports generated in IQ Central v1.4. These formatting issues have been corrected in the v1.5 release.	3508

Additional Guidance on IQ Central

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

Documentation

Table 6 — Additional documentation available for IQ Central and related hardware

Document	Part Number
IQ Central Release Notes	99-427
IQ Central Help System	<i>Included with product</i>
IQ Central Operating Manual	81-1123
IQ Central Installation Manual	81-1122
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 IQ software technical support staff of Quixote Traffic Corporation, should you require additional help concerning this update.

Quixote Traffic Corporation

Software Technical Support

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