



IQ Central Traffic System Software

Announcing IQ Central v1.6

Quixote Traffic is pleased to announce the release of Version 1.6 of the IQ Central[®] Central-System Traffic Management Software. This release adds several new important functions to the software, as well as addressing several operations issues that were reported by customers. This update is recommended for all users of IQ Central.

Product **IQ Central**
Version..... **Version 1.6**
Release Date **June 27th, 2008**

Product Requirements

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

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 family of 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 the software will need an additional piece of hardware, an IQ Connect[®] translator unit, installed somewhere near (or in the case of Peek 3000E controllers, within) the device.

Contents

Product Requirements	1
Compatibility Matrix	2
Alarm-Device Compatibility Matrix	3
Installation Notes	4
Before Installing IQ Central Version 1.6	
Installation Steps	4
New Features	6
Device Database Print	6
Coordination Check	10
Default Device Configuration for each	
Device Type	13
Issues Addressed in this Release	14
Additional Guidance on IQ Central	15
Documentation	15
Technical Support	15

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 1.6. For such system updates, additional conversion work on the earlier IQ Central database may need to be performed by a Quixote Traffic technician prior to use. Please contact Quixote Traffic Tech Support for additional info.

Table 1 – IQ Central Version 1.6 Workstation Requirements

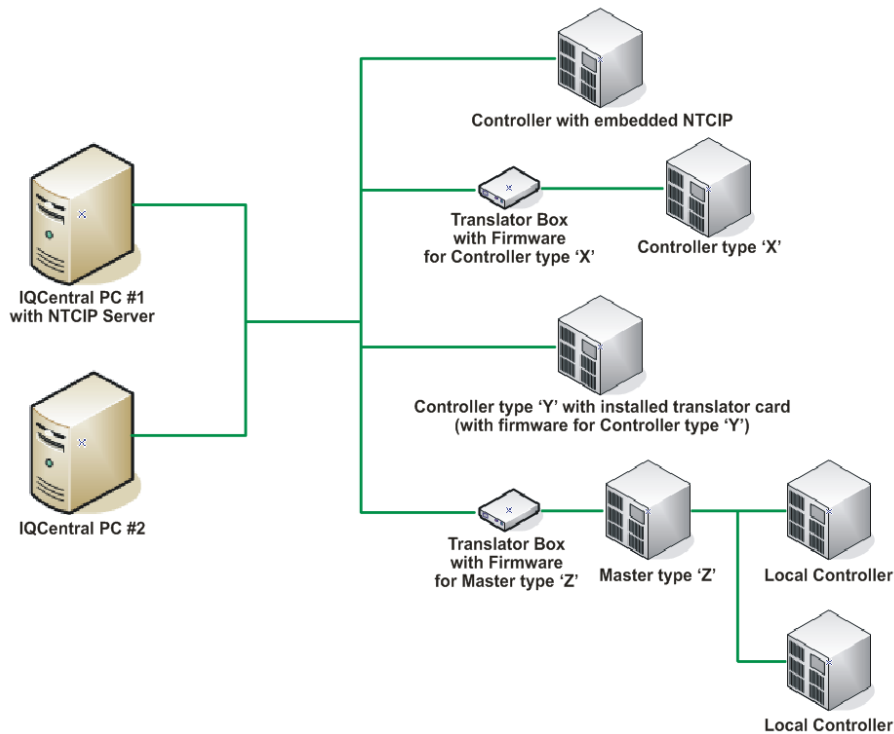
Minimum Workstation		Ideal Workstation or Server
Processor	Intel P4 or equivalent, or better	Intel P4 or equivalent, or better
Processor Clock speed	1.7 GHz	2.0 GHz
RAM	1 GB	1 GB
Free HD Space	5 GB	10 GB

Compatibility Matrix

This release of Version 1.6 of the IQ Central software will work with the following Quixote Traffic traffic-control products:

Table 2 – IQ Central Version 1.6 Compatibility Matrix

Device	Will work with IQ Central v1.6	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, do not 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 v1.6

Alarm	NTCIP Object	isolated		M3000		isolated		M3000		isolated		TMM500		isolated		OSAM		isolated		
		IQ_ASTC	3000E	3000E	LMD9200	1890EL	1890EL	3800EL	3800EL	1890EL	1890EL	3800EL	3800EL	TMP390CJ	TMP390CJ	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

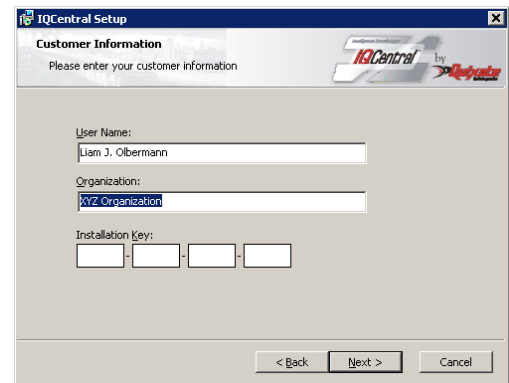
IQ Central Version 1.6 should not be installed without the guidance of a Quixote Traffic customer support representative. The following procedures describe the basic process to install or upgrade an IQ Central Version 1.6 system.

Before Installing IQ Central Version 1.6

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'. (The simplest way to do this is to simply rename the file to **NTCIPServerDB-backup.mdb**, or something similar.) The current file may be stored 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, depending on how you installed IQ Central the previous time.
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 1.6 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 1.6 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 auto-run 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 your 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 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 suit 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

Several new features have been added to IQ Central as part of the Version 1.6 update.

Device Database Print

Device Database printing is currently the most requested feature that customers have been asking for in Quixote's central system software. This function allows a user to generate a PDF report of the various parts of a device's database. This report can then be exported or printed for use outside of IQ Central. The user has control over the appearance of the report's front page (Title, Organization, Graphic,) the report's overall style (background colors and font,) whether or not to include an index, and whether to split it by including page breaks for logical sections of the print-out.

Database Printing can be performed on the entire device database, or just those sections of the database the operator chooses. And a single report run can be used to generate reports for multiple devices. A single PDF file is created for each device.



Note To use the resulting PDF file, you will need to have a PDF file reader utility installed on your system. The installation file for Adobe Acrobat is included on the IQ Central installation CD. To install the reader, go to the CD and browse to the **\Resources\Acrobat** folder. The up-to-date version of Adobe Reader can be installed using the **AdbRdr812_en_US.exe** file. Older systems (those using versions of Windows 2000 lower than SP4, for instance) may need to install the older version 5 Reader using the file **AR505ENU.EXE**.

To access the Device Database Printing feature, go to the **Tools** menu of IQ Central, and choose **Print Database**.

Device Selection Window

When you first open the Device Database Printing window, you will be presented with a list of devices. This is the place you can select which device or devices for which you would like to generate a PDF database report. Initially, it just displays an alphabetical list of all of the devices that have been configured on the system, but using the radio buttons on the left side of this window, you can also sort and select device by device type, or group name.

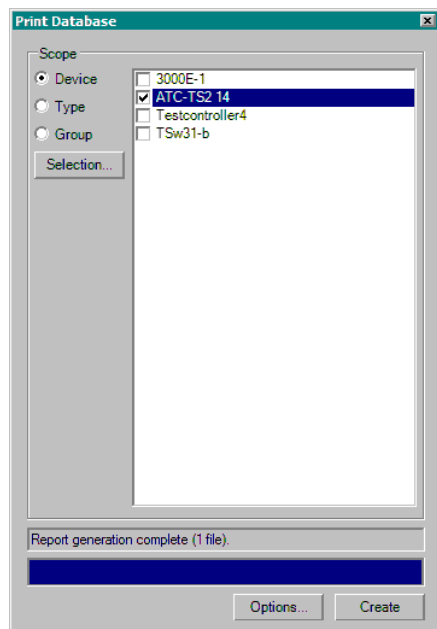


Figure 1 – Database Print device selection window

Once you've selected the device or devices, you have three options to proceed: DB Section **Selection**, **Options**, or go ahead and **Create** the PDF. The Selection button will only be available if you have selected just one device, or if you've selected multiple devices, all of them **MUST** be of the same device type.

Database Section Selection window

If you press the Selection... button in the main Print Database window, you will be presented with the window shown in **Figure 2**. This window allows you to select which parts of the device's database will be included in the PDF report. Make sure a check is included in each checkbox for items that you want to appear in the PDF report. The default setting for all devices and device types (before any custom selections are made and saved) is to print the entire database.

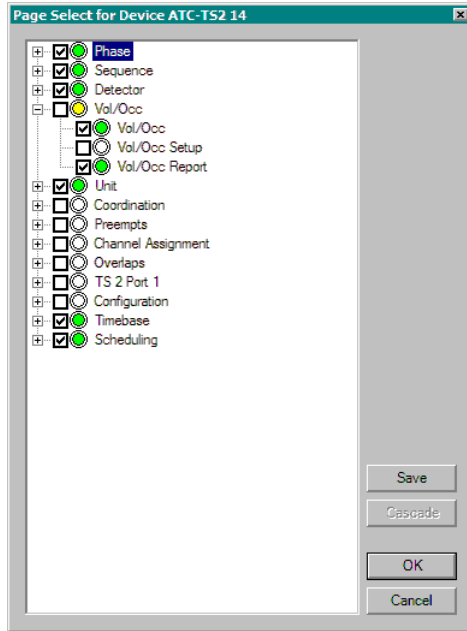


Figure 2 – Selecting which portions of the device database to print

To use the selection for just this report generation, select OK. However, if you want the selection to become the default setting for future reports, click the Save or Cascade buttons. The purpose of Save and Cascade are similar, but they depend on what devices you selected before entering this window. If you selected one device, then only the Save button will be available, and the selection will be stored for just that device. The next time you print the database for that device, the saved selection will be used.

If, however, you have multiple devices selected, and you did this by choosing a Device Type, then choosing Save will save the selection for the device type. This will be used in the future whenever the database for any device of that type is selected, unless a separate selection was already saved for it as an individual device. In this case, if you choose the Cascade button, the selection will be saved for the Device Type, AND for each device within the device type listing.

Choosing Cancel in this window will discard your current selections and use whatever selection criteria was previously chosen for this device or device type. If nothing has been saved for the device or type, then the entire database will be printed. The OK and Cancel options will return you to the Print Database window.

Database Printing Options window

Choose the Options button in the Print Database window to make changes to the overall appearance of the resulting PDF database report.

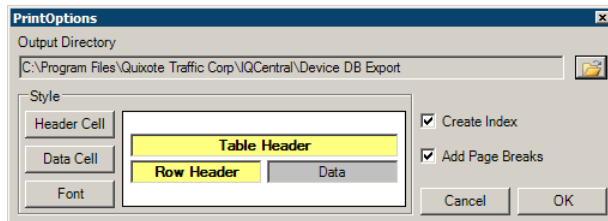


Figure 3 – Database print options window

Use this window to change the following settings:

- **Output Directory** – Where the PDF report will be stored on your system
- **Header Cell** – Use this option to set the background color for the report headers. Headers appear at the top of each section of the database. The text in the header is always set to black.
- **Data Cell** – Use this option to define the background color for the report's data cells. The text in data cells is always set to black.
- **Font** – Select from the fonts installed on your system. This selected font will be used for both header cells and data cells in the database report.
- **Create Index** – This checkbox determines whether an index is created at the back of the resulting database PDF report.
- **Add Page Breaks** – This checkbox determines whether page breaks will be inserted into the PDF report at the end of each group and page of data from the database. These page breaks correspond to the tabs and sub-tabs in the IQ Central Upload/Download module.
- **OK/Cancel** – Choose OK to accept the new settings and return to the Print Database window, or Cancel to discard your changes and return to the Print Database window.

Report Configuration Print Options

A couple of the parameters that determine how the PDF Database report appears are not set in the module's own Options window, but rather in the general IQ Central Options window. This can be accessed by going to the Tools menu and choosing the Options command. This opens the window shown in **Figure 4**.

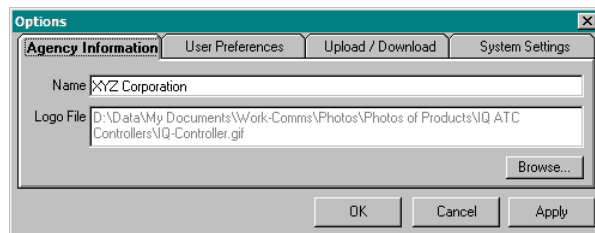


Figure 4 – System Settings in the Options window

There are two values on the Agency Information tab of the Options window that are used to generate the device database print out. The Name field is the name of the company or agency that appears on the front page of the PDF report. And the Logo File is the graphic that is printed above the name on the front page of the PDF report. You can use the Browse button to go out to your file system and locate the graphic file to be used here. IQ Central will accept graphic files in any of the following formats:

- BMP
- GIF
- JPG
- TIF
- WMF
- PNG

Example of a Database PDF File

When you press the Create button in the Print Database window, IQ Central will generate a PDF version of the database report. The first page of an example report is shown in **Figure 5**. An average report can be anywhere from just a couple pages to up to 100 pages or more of data, depending on the type of device, and your selections for which sections of the database you wish to print. Most controller database print-outs are around 50 pages long.

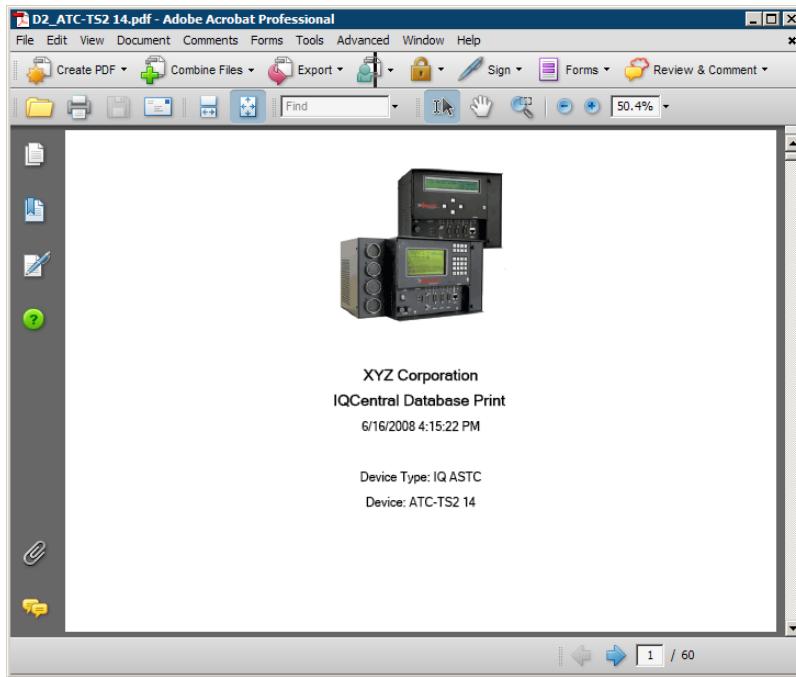


Figure 5 – Example cover page in PDF viewer window

You can use your PDF viewer to review the information, to save the file somewhere else (it is saved, by default, to the location specified in the Print database options window,) or to print it out.

Cycle / Offset / Coord Ph																												
	C1/ S1 (1)	C1/ S2 (2)	C1/ S3 (3)	C1/ S4 (4)	C2/ S1 (5)	C2/ S2 (6)	C2/ S3 (7)	C2/ S4 (8)	C3/ S1 (9)	C3/ S2 (10)	C3/ S3 (11)	C3/ S4 (12)	C4/ S1 (13)	C4/ S2 (14)	C4/ S3 (15)	C4/ S4 (16)	C5/ S1 (17)	C5/ S2 (18)	C5/ S3 (19)	C5/ S4 (20)	C6/ S1 (21)	C6/ S2 (22)	C6/ S3 (23)	C6/ S4 (24)				
Cycle Length (Seconds (0-255))	90	90	90	90	100	100	100	110	110	110	110	110	120	120	120	120	0	0	0	0	0	0	0	0				
Min Length (Seconds (0-255))	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	0	0	0	0	0	0	0	0				
Coord Phases (Phases)	2--	2--	2--	2--	2--	2--	2--	2--	2--	2--	2--	2--	2--	2--	2--	2--	--	--	--	--	--	--	--	--				
Offset Times	Offs at 1	Offs at 2	Offs at 3	Offs at 4	Offs at 5																							
Cycle 1/1 (1) (Seconds (0-255))	0	0	0	0	0																							
Cycle 1/2 (2) (Seconds (0-255))	0	0	0	0	0																							
Cycle 1/3 (3) (Seconds (0-255))	0	0	0	0	0																							

Device: 3000E-1 Date: 6/16/2008 4:17:03 PM Page: 33

Figure 6 – Example Controller Database report body page

The rest of the report will use the printing and layout options you specified. A separate PDF file will be generated for each device that was selected in the Print Database window. The report title, date, time, device type, and device name are all included on the front page, and the device name, date, time and page number are printed at the footer of each page on the report.

Coordination Check

The second feature added in IQ Central v1.6 is a function to check a controller's database to see if it passes a standard set of coordination checks. This models a 'Coord Check' function that was previously implemented in the Traconet software, which was used for networking Traconex hardware.

As of the Version 1.6 release of IQ Central, this coordination check function is only enabled for Traconex 390CJ controllers, connected either as a direct local, or under a TMM-500 Master controller. The current plan is to implement the coordination check for additional controller models with subsequent releases of IQ Central, adding the function for one or two additional models with each update. The exact rules for future coordination checks, however, are likely to be slightly different for each controller model, since they each have slightly differing sets of parameters.

To access the Coordination Check function, open the Upload/Download module, and select the controller you want to test. (For now, you'll need to select a 390CJ controller to see this functionality.)

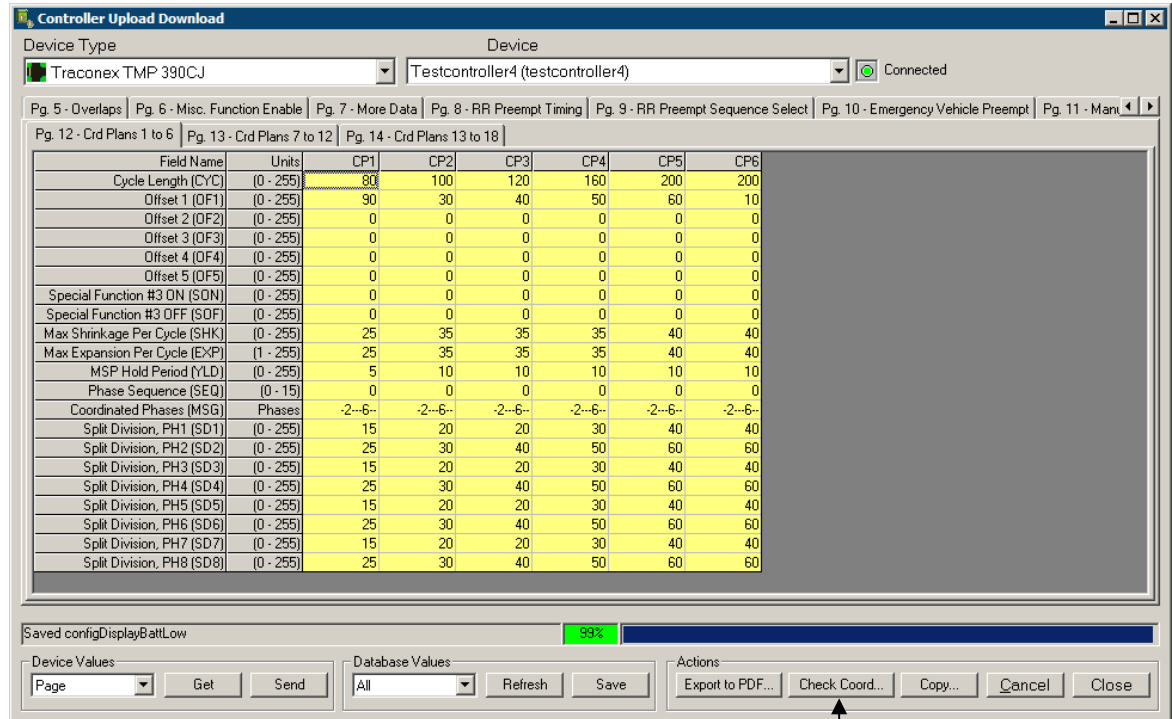


Figure 7 – Check Coordination button in the Upload/Download module

The Coordination Check function looks at the parameters stored in the database for the selected controller and runs a set of logical tests on them.

1. To begin with, it tests any coordination plan for which the Cycle Length value is set to something greater than 0 (zero).
2. If the value of CFG ('Phase Configuration Table') on the Pg 6- Misc Function Enable tab of the Upload/Download module is set to 0, then the full range of tests is run, otherwise Tests a) through g), as well as Tests m) and n) are skipped (as listed on the next page.)
3. Within the tested plans, the only Rings that are tested are those that contain at least one enabled phase.
4. Definitions:
 - a.) minGreenValue = the maximum of minGreen, maxInitial, or conditionalServiceGreen
 - b.) minPedValue = if Ped is not enabled, this is equal to 0 (zero), if Ped is enabled, this is equal to Walk plus PedClear.

- c.) **OverlapClearance** = If a phase has no overlap assignment, this is equal to 0 (zero). If a phase has one overlap assignment, use **AuxOLGreen** plus **AuxOLYellow** plus **AuxOLRed** for that overlap. If a phase has more than one overlap assignment, use the same sum of the overlap that results in the highest value.
 - d.) **phaseClearance** = The **Yellow** plus **Red** for the phase, or the **overlapClearance** value defined in step c) above, whichever is greater.
 - e.) **minPhaseTime** = the **phaseClearance** time defined above, plus either the **minGreenValue** or the **minPedValue**, whichever is greater.
5. **The Tests** – These are the 16 logical checks that are performed on each valid coordination plan and their enabled rings. If any of these conditions are true, then either a warning or an error message is displayed in the **Coord Check** window. A separate message is shown for each test that fails:
- a.) **minPhaseTime** > **Split time** (This is only tested if the **Split time** > 0)
 - b.) **Min Green + Clearance** > 255 (This is only tested if the **Phase Split time** > 0)
 - c.) **Ped Time + Clearance** > 255 (This is only tested if the **Phase Split time** > 0)
 - d.) A ring that has no coordinated phase
 - e.) Incompatible coordination phases, meaning that coordinated phases are not on the same side of the barrier.
 - f.) More than one coordinated phase in ring 1
 - g.) More than one coordinated phase in ring 2
 - h.) **Offset** >= **Cycle Length**
 - i.) **Special Function ON** or **Special Function OFF** is greater than or equal to the **Cycle Length**
 - j.) The values of **Shrink** or **Expand** are greater than the **Cycle Length**
 - k.) The values of **Expand** plus the **Cycle Length** are greater than 255
 - l.) The **Yield Period (YLD)** is greater than the **Split time** for the main street phase
 - m.) The sum of the **Split times** for each ring are not equal to the **Cycle Length**
 - n.) The sum of the **Splits times** in ring 1 are not equal to the sum of the split times for ring 2 (This is not tested if either ring 1 or 2 are not enabled.)
 - o.) A coordinated phase has been omitted, meaning either the split value for the phase is set to 0 (zero) or the **Phase Enabled** value is **False**.
 - p.) **Ped** is disabled for a phase, but either **Walk** or **Ped Clear** have a value other than 0 (zero)

When you select the Coord Check button in the Upload/Download window, after a few seconds a Coordination Check window will appear, showing the results of the test. An example of this is shown in **Figure 8**.

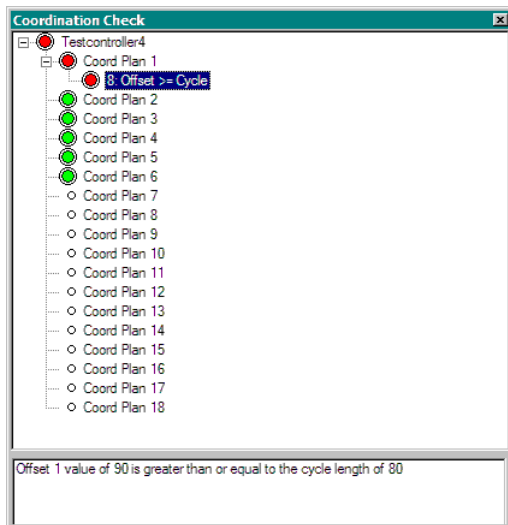


Figure 8 – Coordination Check window

The above Coordination Check results window shows that the controller’s coordination plan 1 failed one test in the suite. In this result, the Offset 1 value in the plan was inadvertently set to a value greater than the Cycle Length.

Blocking Upload/Download Because of a Faulty Coord Check

IQ Central automatically runs the Coordination Checks any time you send data to a controller for which this function has been added. And then, by default, IQ Central will prevent a plan that fails the Coordination Check from being sent to the controller. This is an optional setting that can be turned off if you choose. You can deactivate this transmission stopping action by going into the main Options window of IQ Central (go to the **Tools** menu and choose **Options**,) then select the Upload / Download tab.

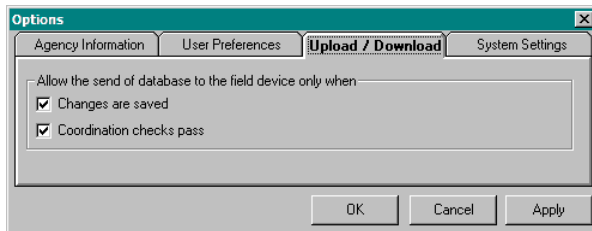


Figure 9 – Checking Coordination tests before uploading the database

The second checkbox in this window ‘Coordination checks pass’, is checked by default, indicating that a controller database will only be sent to the controller when all of its coordination checks pass. If you uncheck this box, IQ Central will allow a faulty coordination plan to be sent to a controller.

Default Device Configuration for each Device Type

Previously, when you created a new device in IQ Central, the device database was automatically populated with the default information for the device type, as defined in the factory IQ Central installation. Due to the many requests for the ability to edit this default information, IQ Central version 1.6 now allows you to edit the default database settings for each device type in the system. This is done in a very simple, elegant way, as shown in **Figure 10**.

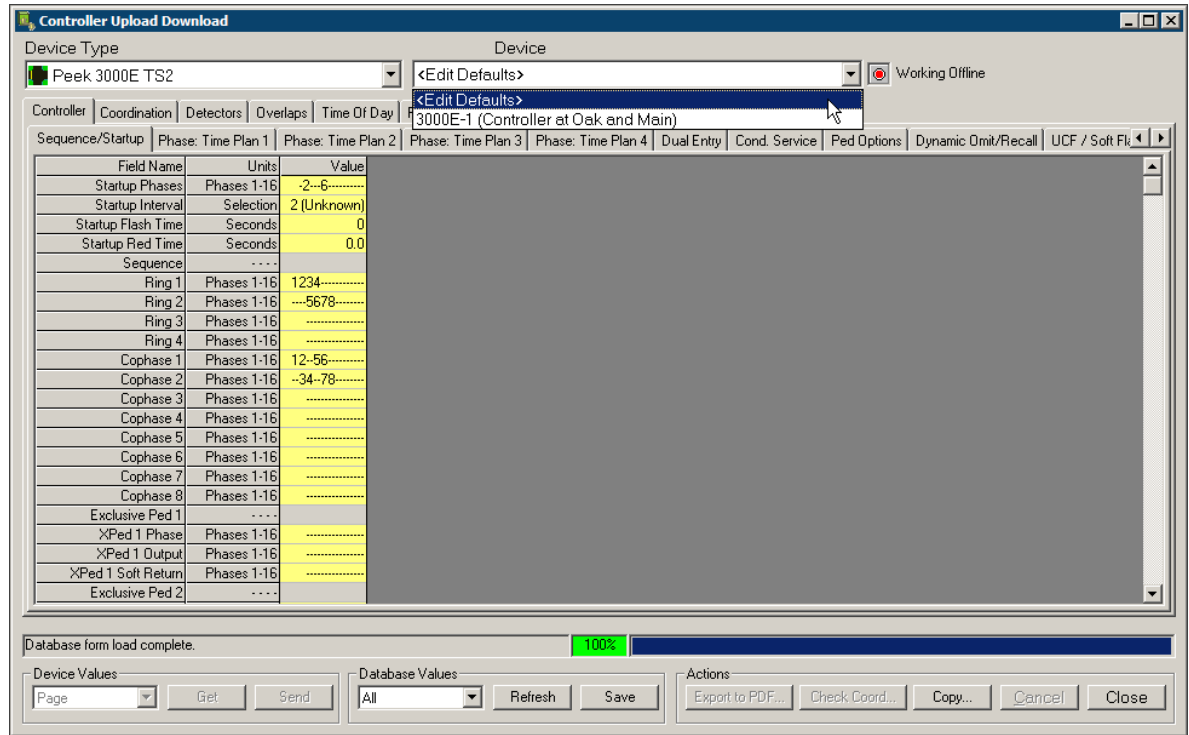


Figure 10 – Selecting the Default Device option in the Upload/Download module

When you are editing database information in the Upload/Download module, you now have the option to select **<Edit Defaults>** from the Device list at the top of the window. There is one default data set for each type of device in your system. Any time you create a new device of a particular type, the default values that you have defined for that device type will be used to populate the new device.

The default values can be Saved to the central IQ Central database, or you can overwrite your current settings by choosing to Refresh from the central database. However, the Device Values controls at the bottom of the Upload/Download window cannot be used to get or send database from field hardware into the Default record. This is logical since, while editing the default data, the Upload/Download module has no field device selected to which the data should be sent.

If you wish to use an existing device’s database as the basis for the new default values, just go into the **<Edit Defaults>** screen, and use the Copy button to copy a database from the desired device. (Only devices of the same type will be available for copying.)

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 1.6

Table 4 – The Version 1.6 release of IQ Central addresses the following issues

Issue	Resolution	Case #
In intersection displays on maps, the zoom function became unavailable after a copy	The zoom function now remains available after you copy an intersection display.	3961
Table missing in IQ Central v1.5 installation disk's maintenance database	The maintenance database on the IQ Central v1.6 installation CD now includes all necessary database tables and default parameter values.	3995
Enhancement request: MDI item in the Access Levels module should include full paths for all menu items	When the Access Levels module is pointed to the MDI item, which shows the overall Menus of IQ Central, it now shows menu paths for each control.	3998
The Copy DB and Groups items added in IQ Central v1.5 were not appearing in the MDI item list in the Access Levels module	These new menu commands, as well as the new commands added in v1.6, now appear in the proper location in the Access Levels module when MDI is selected.	3999
Enhancement request: Add the ability to sort on any of the columns in the Access Levels module	The column headers in the Access Levels module can now be toggled to sort the table in either ascending or descending order, as indicated by arrows in the column header.	4000
Enhancement request: Add the ability to print out the active alarms list	There is now a Print button in the Alarm Status window. The report that is printed by default when this button is pressed is the Active Alarms List. The report printed from this setting can be changed using the setting in the IQ Central Options window, on the System Settings tab. (Tools menu > Options > System Settings)	4001
In device groups, editing a group's name produced an error	This has been corrected. Editing a device group name now functions correctly.	4031
In the Archive and Restore module, the Archive button was sometimes missing from the form	This has been corrected.	4032
In Archive and Restore module, the saved archive file did not default to an .mdb extension	When creating an archive in the Archive and Restore module, if one types in a name without the Microsoft Access database file extension (.mdb) IQ Central now adds the extension automatically.	4034
When performing a restore, the Archive and Restore module kept the default zoom level backgrounds blank, not restoring the previous settings.	All values are now restored properly when a Restore from an archive file is performed.	4035
Archive and Restore module would not restore groups and alarms	Groups and Alarms are now included in Archive and Restore functions, as are the features that were added in v1.6 of IQ Central, including DB Print selections and Device Type default data.	4036
Alarm conditions defined to groups of devices were not generating alarms.	Alarms defined for groups of devices are now properly generating alarm messages when devices within the group encounter real alarm situations.	4040

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 5 — 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
Quixote IQ ATC CBD Controller Manual	81-1164
Quixote IQ ATC TS2/2 Controller Manual	81-1190
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
 2511 Corporate Way
 Palmetto, FL 34221
 toll free in the U.S.: 1.800.245.7660
 tel: 1.941.845.1200
 fax: 1.941.845.1504
 email: tech.support@quixotecorp.com