

Intelligent Devices  
Intelligent Control  
Help



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# \$ K + > **Welcome**

Intelligent Control is a Windows Based software program that allows you to easily communicate with and operate any NTCIP Devices. This software can be run under Windows 98, Windows 2000, Windows NT and Windows XP.

Intelligent Control can manage many Devices from one or more remote computers, or a laptop can be temporarily connected to a Device and used to operate that Device using Intelligent Control. While it is possible to use more than one computer to operate more than one Device, remember that a Device can only be connected to one computer at a time. Intelligent Control software can simultaneously communicate with more than one Device.

Intelligent Control can:

- Check which message is currently displayed on a sign;
- Retrieve a list of all the messages that are stored in the sign controller;
- Check the time and date on the sign controller;
- Check the battery voltage and illumination levels of the sign;
- Edit messages or make new messages to display on a sign;
- Update schedules for displaying messages.

These are just a few of the functions that Intelligent Control performs.

---

# Welcome  
\$ Welcome  
K Welcome  
+ MAIN:0  
> Main













# \$ K @ + > **Archiving Individual Tables from the Database**

To archive individual tables from the database, check the check boxes for the tables that you want to archive. Click on the Archive button. A window will open allowing you to enter the name of the archive file and the location for that file. If you have previously archived files to a particular directory, that directory will be the default directory for any subsequent archives. You can change the directory if required

If you want to archive a specific table to its own file, i.e. a database that contains only that table, enter a name that indicates which table the archive contains. If you want to archive this table to an existing archive of the database, i.e. add the table into an archive that already exists, select the existing archive as the file name and click save. The table that you selected will be added to the archived database. If that table has previously been archived to that database, the existing table will be overwritten. If the database does not already contain that table, that table will be added to that database.

---

```
# Archiving_Individual_Tables_from_the_Database
$ Archiving Individual Tables from the Database
^K Archiving Individual Tables from the Database
@ Status|0|0|0|0|||||
+ MAIN:0
> Main
```















### Edit an Existing Message

If you want to edit a message that already exists, highlight that message in the Device Messages list and click on the Preview Button. This will open the [Sign Message Edit](#) window so that you can make the required changes. Remember to send the message to the sign and save it in the database.







































**# \$ K + > Password**

The Password that you enter is unique to your Name. It can be up to 10 characters in length and can consist of alpha and/or numeric characters. The password is case sensitive. Please make a note of your password, as it is stored on the system in an encrypted format so there is no way to retrieve the password if you forget it.

---

# Password  
\$ Password  
K Password  
+ MAIN:0:000020  
> Main

## # \$ K + > Access Levels

You can set various access levels for each Operator that has access to the system. The functions that a particular operator can access are set based upon the Access Level that is set for that operator.

Each Operator has an access level allocated when their details are added to the system. Up to 3 levels are provided for.

Every form in the system has controls on it. You can specify which controls should be accessible by which level of user.

To do this click on the Select Form drop down list box and highlight the form for which you want to set access levels.

Each control that is available on the form will be listed in the Control name list.

The description field provides you with a brief description of what the function of the control is.

Each level can have one of three types of access allocated – read-write, read only or not accessible. Read-write allows the operator full access to the field or control function, read only allows limited access (can only view the field or control function) and not accessible renders that field or control completely inaccessible to that level of operator.

To edit the access levels for a particular control or field, highlight that control or field in the list and its details will be displayed in the edit fields below the data window. Select the applicable access requirement for each Level and click on the Apply button.

---

# Access\_Levels  
\$ Access Levels  
K Access Levels  
+ MAIN:0:000020  
> Main

## # \$ K + > Day Plans and Schedules

This function allows you to specify certain messages that are to be displayed at certain times on specific days. The simplest way to describe how this works is to work through an example.

You must be connected to the sign before you send data to the sign. To connect to the sign, open the Sign Control window; select the required sign from the Devices list and click on the Connect button. Then return to Edit Schedules.

Lets assume you want to display Changeable Message 1 at 6am and Changeable Message 2 at 6pm every weekday of the year, In addition, you want Changeable Message 2 to be displayed all weekend (from 6pm on Friday until 6am on Monday).

To do this, we need to set up a schedule that will be tied to a specific day plan that will activate two separate events.

So, we set up Schedule 1 to action Day Plan 1 every month (all months checked), Monday through Friday (Monday, Tuesday, Wednesday, Thursday and Friday checked) every day of the month (all days checked).

Save this schedule to the database by clicking on the Save button and update the sign by clicking on the Update Sign button.

Once this is done, you should click on the Day Plans tab so that we can set up Day Plan 1, which is tied to Schedule 1 that we have just created.

Select Day plan Number 1, and select Day Plan Event Number 1. This Day Plan event is to be activated at 6am so the Day Plan Event Time should be set at Hour 6 and Minute 0.

We then need to indicate what action is to be taken by this event number. Indicate Day Plan Action 1, which will be set up on the Events and Actions tab to display Changeable Message 1.

Save the Day Plan to the Database (click on Save to Database) and update the sign (click Update Sign) and then select the Events and Actions tab.

Here we set up Display Message Action 1 to display Changeable Message 1.

### Note

It is important that you check the content of the message that you specify here before you create the schedule. To do this, click on the Sign Control Button, select the sign and highlight the required message (in this case Changeable Message 1). Then click on the Get from Sign button and preview the message.

Each message has a CRC number allocated to it when that message is created and every time that it is changed. This is a calculated value that indicates the current version of this message. When you specify a message for an action, you must get that messages CRC from the sign. That CRC number is then stored together with the message number in the database and on the sign. If when the schedule runs, the message that is specified in the schedule has a CRC different to the one that was saved at the time the schedule was created, that message will not be displayed and the action will be ignored. This eliminates the probability that another operator could change a message that is allocated to a schedule, causing an incorrect message to be displayed.

Before you click on Save to Database to save this action to the database and Update Sign to save this information on the sign, click on the Refresh CRC from sign so that the current version of that message is allocated to the action.

We must now repeat the previous two steps to create a day plan event for displaying changeable message 2 at 6pm.

Select the Day Plan tab.

---

```
# Day_Plans_and_Schedules
$ Day Plans and Schedules
K Schedules:Day Plans and Schedules
+ MAIN:0:000020
> Main
```

Now we set up Day Plan Event Number 2, which will action Day Plan Action2 at 6 p.m. Note that the Day Plan Event Time is in military time format – 6pm is 18h00.

Once this is saved to the database and the sign is updated, click on the Events and Actions tab to set up Day Plan Action 2 which will activate Changeable Message 2.

Here you can see that Message Action 2 has been set up to display Changeable Message 2.

Once again, remember to check the contents of changeable message 2 before adding it to the day plan, and retrieve the CRC from the sign for that message before you update the sign and save the information to the database.

Now, as far as the displaying of Changeable Message 2 on the weekend is concerned, remember that Changeable Message 2 has been set to display at 6pm on Friday. No other action has been specified to take place until 6am on Monday morning. So, we do not have to do anything else to keep Changeable Message 2 displaying all weekend.



































































































































































































# \$ K + > **Short Power Loss**

Enter the number of seconds that should pass before a short power loss is considered to have occurred.

---

# Short\_Power\_Loss  
\$ Short Power Loss  
K Sign Summary:Short Power Loss  
+ MAIN:0:000020  
> Main

**# \$ K + > Default Line Justification**

When you create a message, there are four line justification options that you can choose: Other, Left, Center and Right. Specify the one that you use most often and that will be the automatically selected line justification option when you edit an existing message or create a new one.

- Left: All text will be aligned along the left-hand side of the line.
- Center: All text entered will be positioned in the center of the line.
- Right: All text entered will be aligned along the right hand side of the line.

---

# Default\_Line\_Justification  
\$ Default Line Justification  
K Sign Summary:Default Line Justification  
+ MAIN:0:000020  
> Main

**# \$ K + > Default Page Justification**

When you create a message, there are four page justification options that you can choose: Other, Top, Middle and Bottom. Specify the one that you use most often and that will be the automatically selected page justification option when you edit an existing message or create a new one.

- Top: All lines will be positioned starting from the top most line of the sign.
- Middle: All lines will be positioned in the center of the sign.
- Bottom: All lines will be positioned starting from the bottom most line of the sign.

---

# Default\_Page\_Justification  
\$ Default Page Justification  
K Sign Summary:Default Page Justification  
+ MAIN:0:000020  
> Main























































































































































### **Delete a Word or Phrase from List**

To remove a value from the list, select that value and then click on the Action button. Select the Remove item from List option and that value will be removed from the list.

### **Special Note about Tag Number**

To add a Tag Number (or any other details), type the required details as they should be displayed in the Vehicle Tag field. Click on the Action button and select the Place word or phrase on page option. Drag the word or phrase to the field in which you want it to display.

9. Preview the message that you have created by clicking on the Preview button.
10. Click on Close to close the Preview window and then click on Save and Exit to return to the Scenarios and Amber Alerts control page.
11. To send the Amber Alert, click on the Activate button. The message will be sent out to all the devices that are listed in the top right hand window.

















































































































































Trigger Scenario SOP

Only the selected Standard Operating procedure will be triggered and not the Scenario to which it is attached.

Trigger Camera Preset

This will trigger the camera presets indicated in the Camera Preset field.

Each row of the Output Action sheet will contain one action that is to be triggered. If you want to trigger a message that should be displayed on multiple Devices, you would create a scenario that would cater for that and then trigger that Scenario in Incident Management.

The Status cell for each action is the indicator that Incident Management uses to trigger each Action. If the status is Active, the Output Action specified in that row will be activated.

Close Excel and Save the spreadsheet.



























Key	Functions
1	Toggles the check box for Phase 1 on and off
2	Toggles the check box for Phase 2 on and off
3	Toggles the check box for Phase 3 on and off
4	Toggles the check box for Phase 4 on and off
5	Toggles the check box for Phase 5 on and off
6	Toggles the check box for Phase 6 on and off
7	Toggles the check box for Phase 7 on and off
8	Toggles the check box for Phase 8 on and off
9	Turns all the check boxes on
0	Turns all the check boxes off.

### **Numbers**

To enter a value in a number field, double click the left hand mouse button while the cursor is positioned in that field. The following window will open, allowing you to enter the required value:

### **Enumerated Values**

This is used when there is a finite list of options for the value of a field. When a field can only contain a predefined range of values, when you click on that field, a window will open allowing you to select one of those predefined values.

When data is edited or displayed, the following color codes will indicate the current state of the field:

Yellow	Value is from the Intelligent Control Database.
Blue	Value is from the Device.
Red	Value was changed by the user





















# \$ K @ + **View Map (BMP Maps)**

When Intelligent Control is installed, the required maps and the Devices that are connected to Intelligent Control will be set up so that each of the Devices can be accessed from a map.

Each Device is represented by an icon. Click on the icon to see which Device it represents. To see the message that is currently displayed on that Device, right click the mouse and select Preview Message. Connection will automatically be established with the device and a small preview window will open and the message that is currently on the device will be displayed. If that window is left open when Maps is closed, the next time that Maps is opened, that window will be displayed and Intelligent Control will automatically connect to the device and retrieve the current message. If all the device preview message windows are left open, you will be able to check at a glance at which messages are running on all the connected Devices.

Start or Suspend Polling temporarily by clicking the Suspend/Polling button.

If a more detailed map is available for zooming purposes, the zoom-able area will be indicated with a magnifying glass cursor. Double click the mouse when the cursor is a magnifying glass, and the new map will be opened.

Use Back and Next to scroll through Maps that have already been opened.

Right Click on an icon to open the menu options to preview the sign or access Sign Control. Preview Sign windows that were open when View Maps was previously closed will automatically be opened when View Maps is opened again. The message that was displaying when the map was closed will be displayed until the sign is polled and the current message is retrieved. The signs will automatically be polled based on the settings specified when the Icon is added to the map.

To view the status of a Device, position the cursor on the Icon of that Device and right click the mouse. Click on the (Device) Status menu item to open the Status window.

If the Device is a Sign, you will also be able to open the Sign Control window from the Map. To do this, position the cursor on the Icon for the Sign, right click the mouse and select Sign Status from the menu.

If the Status window is too small (or too big), you can toggle the size of it by clicking on Toggle Size. The largest size will be the size that is defined when the Icon is placed on the Map by the Administrator.

If the Sign Status window that is open is blocking some other icons on the map, you can move the Sign Status window. To do this, click on the window and drag it to its new location. You will notice that the window is "rubber banded" to its original location so that you can determine the exact location for the Device when looking at its status.

If you want to see a message on a sign, but do not necessarily want to open the status window, position the cursor on the Icon for that Sign. The Tool tip that is displayed will include the name of the Device as well as the text of the message that is currently being displayed on that sign.

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# View\_Map\_BMP\_Maps\_  
\$ View Map (BMP Maps)  
K View Map (BMP Maps)  
@ Status|0|0|0|0|||||  
+ MAIN:007821

