

Kaleido K2 Setup for TSI1000

1. TSI1000 K2 Display Names

K2 UMDs created within the TSI1000 configuration have a two-part name, with the following format:

<Module name>::<frame name>

The module name corresponds to the K2 module name, found in the Kaleido "K2 Edit" program, when clicking one "File" -> "Open Online". There can be more than one K2 module in a Kaleido system, accessed through K2 Gateway.

The frame name ends with one or two digits which correspond to the K2 UMD text address, found by selecting a UMD in "K2 Edit" and pressing F5. The frame name, stripped of any spaces, corresponds to the K2 Alarm Monitor Gateway Status Message for the given K2 input, found in K2 Edit's Alarm Monitor setup dialog box.

A typical K2 display name is "Kaleido A::Input 01", where "Kaleido A" is the K2 module name, "1" is the UMD text address, and "Input01" is the alarm monitor name.

Note that the total length of the display name may not be longer than 20 characters.

Also note that the Image Video Tally System Console is in here referred to as the TSC.

2. Setting up K2 UMDs

K2 UMDs are the text region of a K2 video frame. A UMD for a given K2 video frame can be selected in the K2 Layout Editor by clicking on the UMD area of the video frame until the selection handles appear around the UMD window. Then:

1. Press F5 to bring up the UMD edit dialog box.
2. Click the "Assignment" Tab.
3. Click the "UMD Dynamic Text" radio button.
4. Enter Service ID "Gateway".
5. Enter the UMD Text address (e.g. for a TSC UMD called "Input 01" this would be "1").
6. Leave "Level" at 0.
7. Click Apply and click on the exit button at the top right corner of the dialog box.
8. When prompted to save the UMD settings, click "Yes".

This needs to be done for each UMD of each layout to be controlled by

the TSI1000.

3. Creating Alarm Monitors

The alarm monitors are necessary to control text colour or tally blocks available at each end of the UMD window in the default K2 display. There needs to be one alarm monitor for each K2 input associated with one or K2 UMDs (there can be multiple UMDs associated with each K2 input, with each UMD on a different layout).

For each alarm monitor to be set up:

1. In the K2 Layout Editor, click "View" -> "Alarm Browser".
2. Click "New"
3. Enter the Alarm Monitor "Name" (Usually the TSI UMD frame name without spaces, e.g. Input01).
4. Click "Type" and select "Gateway".
5. At the "Gateway Status Message" prompt enter the TSI UMD frame name, without spaces (e.g. if the frame name happens to be "Input 1" then enter "Input1". (Note for Alto users: this value must be numeric, see below).
6. Click "Save" and click on the exit button at the top right corner of the dialog box.

NOTE: For the Kaleido Alto, which is now presented in the Tally System Console as a display type separate from the K2, the "Gateway Status Message" **must be numeric**, and the TSI1000 takes this into account by using the last numeric digits of the TSI UMD frame name in the "ID" field of the "setKStatusMessage" message. Therefore use a numeric value, corresponding to the numeric last numeric digits of the TSI UMD frame name, in the "Gateway Status Message input" field.

4. Setting up UMD text colour control

The colour of K2 UMD text can be controlled using the "ac(n)" command in the TSI1000 configuration, where "n" is one of numbers 0,1,2,3. These numbers relate to the four available K2 alarm conditions respectively: DISABLED, ERROR, NORMAL, WARNING.

In order to control text colour from the TSI1000 using the Gateway, each UMD must be related to an alarm monitor. In the same step it is also possible to also set up the colour of the text foreground and background in each alarm case.

1. Select a UMD display window and press F5.
2. Click the "Alarm" tab.
3. And select an alarm monitor (created as instructed in the section of this document titled "Creating Alarm Monitors") from the "Assign Alarm Monitor" list.

4. Set the desired foreground and background colours for each alarm condition, under "Display Options".
5. Click "Apply" and click on the exit button at the top right corner of the dialog box.

5. Setting up tally block control

The tally blocks on either end of the UMD text area of the default K2 display layout can be controlled using the "ac(n)" command in the TSI1000 configuration, where "n" is one of numbers 0,1,2,3. These numbers relate to the four available K2 alarm conditions respectively: DISABLED, ERROR, NORMAL, WARNING.

In order to tally blocks from the TSI1000 using the Gateway, each tally block must be related to an alarm monitor. In the same step it is also possible to also set up the colour of the tally blocks in each alarm case.

1. Select a tally block and press F5.
2. Click the "Assignment" tab.
3. And select an alarm monitor (created as instructed in the section of this document titled "Creating Alarm Monitors") from the "Tally Assignment" list.
4. Set the colours for each alarm condition, under the "Tally States Colours".
5. Click "Apply" and click on the exit button at the top right corner of the dialog box.

Use this dialog box to set up a dynamic text UMD which can be updated from the TSI1000. Click on "Umd Dynamic Text", enter ServiceID "Gateway", and the text address, which will correspond to the last one or two digits in the UMD name programmed into the TSI1000 configuration (e.g. if the UMD name is "Kaleido A::Input 01" the text Address here will be "1".

The image shows a software dialog box titled "K EDIT UMD" with a close button (X) in the top right corner. The dialog has three tabs: "Assignment", "Alarm", and "Action". The "Assignment" tab is selected. Inside the tab, there are two radio button options: "UMD Static Text" and "UMD Dynamic Text". The "UMD Dynamic Text" option is selected. Below these options, there are several input fields: a "Text" field containing "INPUT 1", a "ServiceID:" field containing "Gateway", a "Text Address:" field containing "1", and a "Level:" field containing "0". Below these fields is a "Transparency" section with a horizontal slider bar. The slider is positioned at the "Opaque" end, with "0 %" and "Transparent" marked at the other end. Below the transparency section is a "Channel INPUT 01" section with a "Text Link Order" field containing "1". At the bottom of the dialog is an "Apply" button.

K EDIT UMD

Assignment Alarm Action

☐ UMD Static Text

Text INPUT 1

☒ UMD Dynamic Text

ServiceID: Gateway

Text Address: 1 Level: 0

Transparency

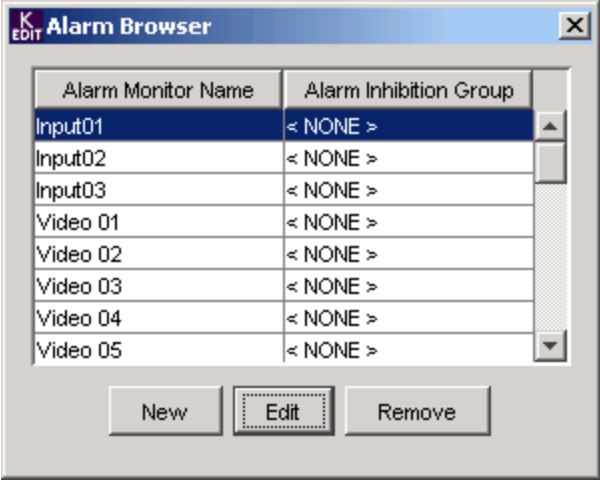
Opaque 0 % Transparent

Channel INPUT 01

Text Link Order 1

Apply

Use this dialog box to enter one alarm monitor for every Kaleido K2 input being tallied.

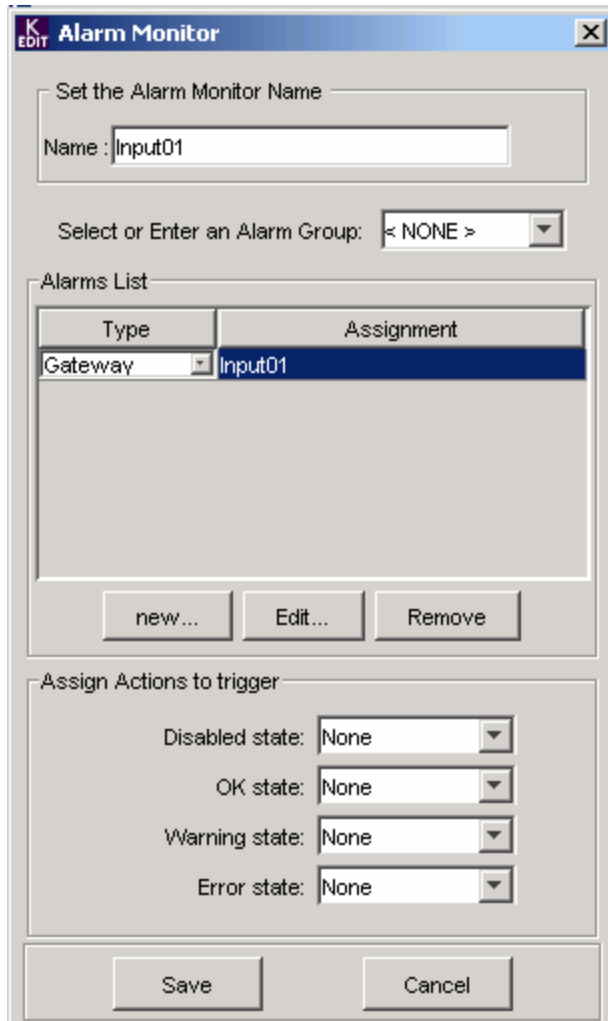


The image shows a software dialog box titled "Alarm Browser". It features a table with two columns: "Alarm Monitor Name" and "Alarm Inhibition Group". The table contains eight rows of data. Below the table are three buttons: "New", "Edit", and "Remove". The "Edit" button is highlighted with a dashed border. The dialog box has a standard Windows-style title bar with a close button (X) in the top right corner.

Alarm Monitor Name	Alarm Inhibition Group
Input01	< NONE >
Input02	< NONE >
Input03	< NONE >
Video 01	< NONE >
Video 02	< NONE >
Video 03	< NONE >
Video 04	< NONE >
Video 05	< NONE >

New Edit Remove

Use these dialog boxes to create an Gateway-updated Alarm Monitor. The name of the alarm monitor is usually set to the TSI UMD frame name without spaces, e.g. Input01. For the K2, the "Gateway Status Message input" must be the TSI UMD frame name without spaces. These alarm monitors can be assigned to K2 UMDs for colour control and to the K2 tally blocks, if either or both of these types of control are required. **NOTE: For Alto users** the "Gateway Status Message input" value must be numeric, corresponding to the numeric last numeric digits of the TSI UMD frame name.



K EDIT Alarm Monitor

Set the Alarm Monitor Name

Name :

Select or Enter an Alarm Group:

Alarms List

Type	Assignment
Gateway	Input01

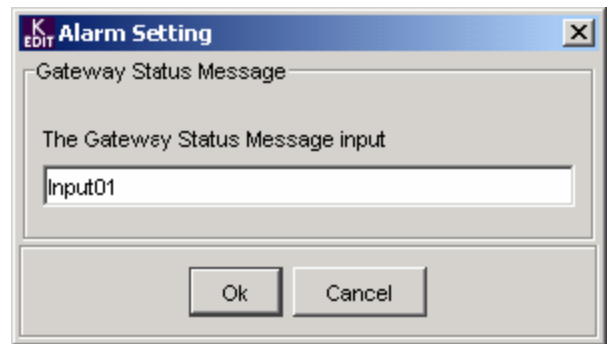
Assign Actions to trigger

Disabled state:

OK state:

Warning state:

Error state:



K EDIT Alarm Setting

Gateway Status Message

The Gateway Status Message input

Update this dialog box in the K2 Layout Editor to allow the colour of a K2 dynamic text UMD to be controlled from a TSI1000. The key information to be entered here is the "Assign Alarm Monitor" list. Select an alarm monitor which has been programmed to be updated from the Gateway. You can also program the foreground and background text colours.

The screenshot shows the 'K2 EDIT UMD' dialog box with the 'Alarm' tab selected. The dialog is divided into several sections: 'Display Options', 'Assign Alarm Monitor', 'Error Latching', and 'Channel INPUT 01'. The 'Display Options' section contains a 'Background' group with four rows: 'Disable', 'Normal', 'Warning', and 'Error'. Each row has a color dropdown (all set to 'Black'), a font color icon (all set to 'A'), and checkboxes for 'Transparency' and 'Flashing'. The 'Assign Alarm Monitor' section has an 'Alarm' dropdown set to 'Input01'. The 'Error Latching' section has three radio buttons: 'No Latch' (selected), 'Latch', and 'Hold', followed by a 'Duration' field set to '10' and the unit 'Sec.'. The 'Channel INPUT 01' section has an 'Alarm Link Order' field set to '1'. An 'Apply' button is at the bottom.

State	Background Color	Font Color	Transparency	Flashing
Disable	Black	A	☒	☐
Normal	Black	A	☒	☐
Warning	Black	A	☒	☐
Error	Black	A	☒	☐

Assign Alarm Monitor

Alarm: Input01

Error Latching

☒ No Latch
☐ Latch
☐ Hold Duration: 10 Sec.

Channel INPUT 01

Alarm Link Order: 1

Apply

Use this dialog box to set a tally block for control by the TSI1000. An Gateway-updateable alarm monitor needs to be assigned in the "Tally Assignment" list, and the tally block colours can also be programmed here.

K EDIT Tally [X]

Assignment | Action

Tally States Colors

Disabled		Select...	☐ Flashing
Ok		Select...	☐ Flashing
Warning		Select...	☐ Flashing
Error		Select...	☐ Flashing

Tally Assignment

Input02 ▼

Transparency



Opaque 0 % Transparent

Channel INPUT 02

Tally Link Order 2

Apply

Alto Setup

The only setup required on the Alto itself is the IP address. A mouse needs to be connected into one of the USB ports, and taking the mouse pointer to the very bottom of the screen brings up a Windows-style task bar. Select "Settings" -> "Network Configuration", then set the IP address and subnet mask. The other three settings ("Default Gateway", "DNS" and "WINS") can all be set to 0.0.0.0 if the TSI1000 is on the same network as the Alto.

To edit and send configuration information to the Alto, use K2Edit, but do not use "File" -> "Open Online" to update Alto, as is done with G2 or K2 to transmit the configuration.

Instead, click "File" -> "Export Layout", and enter the Alto IP address. The "Alarms" and "Channels" checkboxes must be checked in order for all of the required information to be transmitted to the Alto. Then click "Export".

For testing the TSI1000 / Alto interface, K2Edit Release 5.02 Build 088 was used.

External and Internal Gateway

The standard K2 setup uses the "External Gateway", however even with K2 the "Internal Gateway" is preferred. This means setting up the Miranda Alto type of the UMDs in the Image Video Tally System Console. Note that K2 must be running version 5.10 or higher to do this.

To switch to the "Internal Gateway" in the K2, follow the procedure below:

Step 1 (Disabling External Gateway)

Open Windows Services application via MS Control Panel\Administrative tool\Services and make sure the MT_Gateway Windows service is settled to Disable startup type (use right click menu)

Step 2 (Enabling Internal Gateway)

Edit the `c:\liControl\startup\kaleido.properties` file with notepad on the Kaleido. Go at the end of the file and set the `activateInternalGateway` variable to `true` instead of false.

Example text in the Kaleido.property file:

```
#Enable Internal Gateway using port 10001 and 13000  
#port 10001 support only <ListNodes/> command and the 13000 port support all kaleido/GatewayAPI  
# Possible values --> true or false (default true)  
activateInternalGateway=true
```

This will become:

```
#Enable Internal Gateway using port 10001 and 13000  
#port 10001 support only <ListNodes/> command and the 13000 port support all kaleido/GatewayAPI  
# Possible values --> true or false (default true)  
activateInternalGateway=true
```

