



K2 InSync

K2 MIRRORING SOFTWARE

User Guide



SOFTWARE VERSION 4.0

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Using K2 InSync

Introducing K2 InSync

Regardless of how reliable any broadcast device is, for mission-critical applications like broadcast, many facilities require full redundancy in their play-to-air servers. Disk mirroring, normally the responsibility of the controlling application, can add significantly to the complexity of the application. With K2 InSync, mirroring is accomplished within the K2 system. K2 InSync ensures that the contents of two systems are maintained as a mirrored pair. In the event of a failure the user routes control of replay function to the slave system, which K2 InSync keeps synchronized with the master.

K2 InSync can also provide bi-directional mirroring between two K2 systems. In this mode K2 InSync allows each system to operate as a master system while serving as slave to the other.

K2 System requirements

- K2 InSync and K2 system software versions must be compatible. Refer to *K2 Media Client Release Notes* and *K2 InSync Release Notes* for software compatibility information.
- Fibre Channel or Ethernet video network must be installed and configured, such that the K2 AppCenter application can make transfers between the K2s. For information about configuring a network, see the *K2 Media Client System Guide*.
- K2 InSync must be installed on the master K2. It can also be installed on the slave K2, but it should not be run simultaneously on both.

NOTE: Grass Valley recommends that the storage capacity of the master and slave K2 systems be the same. If the capacity of the slave unit is smaller, you must carefully manage the backup of material to avoid exceeding the storage capacity of the slave K2. You can use filters or specify a bin to avoid filling up a smaller system. Exceeding the capacity of the slave K2 can result in the excess material not being backed up.

Operational considerations when using K2 InSync

When using K2 InSync, keep in mind the following considerations:

- When using the bi-directional mirroring mode with initial duplicate, the clips in the master K2's Recycle bin are mirrored on the slave K2. If you do not want the Recycle Bin clips mirrored, select **Organize Bins | Recycle Bin** in K2 AppCenter and check the option to delete clips immediately.
- When you are using the bi-directional mirroring mode, do not create (or allow an automation program to create), a clip with the same name in the same directory **at the same time** on both units. Doing so can result in the loss of one of the clips created.
- When you are using the bi-directional mirroring mode, do not edit the same clip in the same directory at the same time on both units. Doing so results in the loss of edits to the clip closed first.
- Continuous recording cannot be used with K2 InSync.

- When a bin is created on the master and clip is put in that bin, InSync automatically creates the bin on the slave.
- When InSync automatically creates a bin, permissions on the bin are set to “Everyone”.
- If you restrict permission on a bin on the master, InSync does not automatically implement those same permissions on the slave.

Installing K2 InSync

The first step to installing K2 InSync is to run the Setup program on the K2 InSync CD-ROM. You must install K2 InSync on one of the K2s (the master) that you will use. You might want to install K2 InSync on the slave K2 as well as the master. Having K2 InSync installed and ready to run can be convenient if you need to operate the slave K2 as master and assign a new slave to maintain redundancy.

To install K2 InSync you must be logged on as Administrator. For information about logging on as Administrator, see the *K2 Media Client System Guide*.

1. Insert the CD-ROM into the drive on the K2 you’ve chosen to be master. Choose **Start | Run** and browse for *K2 InSync Setup.exe* on the CD-ROM.
2. Follow on-screen instructions, clicking **Next** and **Finish**, to work through the installation program.

Upgrading K2 InSync

Before you upgrade K2 InSync, uninstall the current version. Do not install an upgrade over an existing version of K2 InSync. Refer to *K2 InSync Release Notes* for upgrade information.

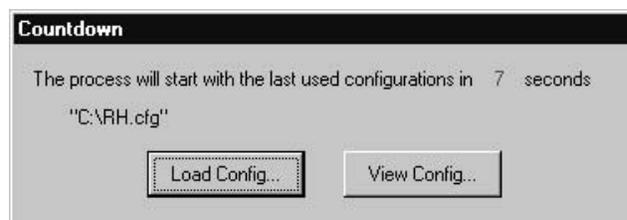
Starting and stopping K2 InSync

As K2 InSync runs, it provides continuous, automatic mirroring of the master K2 on the slave K2 (unless you configure it to only run manually).

Start K2 InSync by clicking on the K2 InSync icon on the desktop:

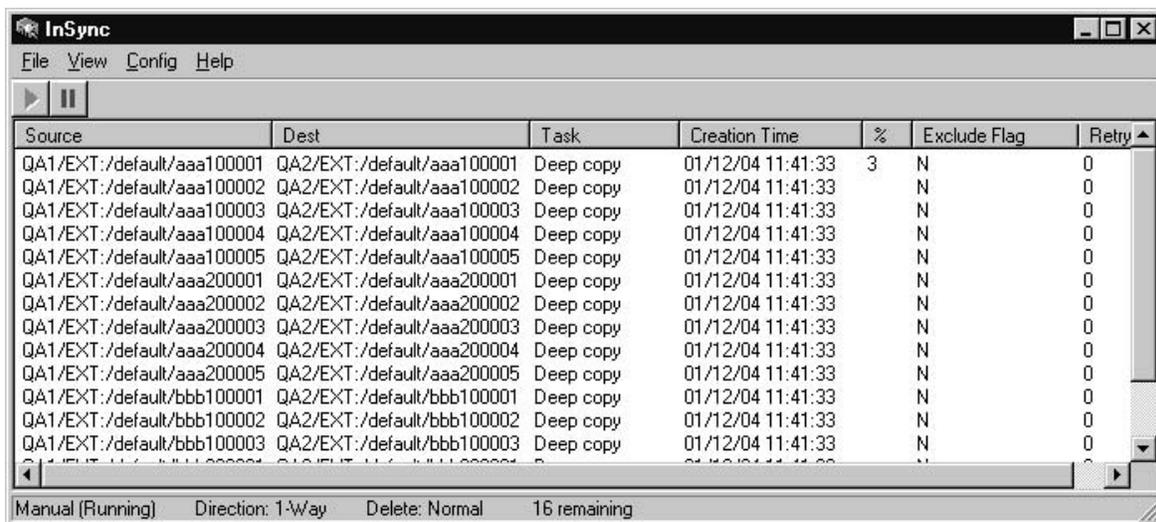


The Countdown dialog box appears.



This dialog box allows you to manually view or load a previously saved configuration file. If you do not manually view or load a configuration file before the countdown time period expires, K2 InSync automatically loads the configuration file that you used last. The first time you start K2 InSync, it loads a default configuration file, which is stored at *C:/InSync.cfg*.

There is a pause as the configuration file loads and K2 InSync gets a list of clips from the K2 system. This pause can last for several seconds, depending on the number of clips on the K2 system. After the pause, the K2 InSync main interface opens.



K2 InSync opens with the Synchronization List area displayed. The status area, at the bottom of the K2 InSync application window, displays a summary of the configuration currently loaded. Synchronization begins, depending on the current configuration, and a queue of synchronization tasks is displayed in the Synchronization List area. The progress of the task currently being processed is reported in the “%” column. When a task completes, it is purged from the queue.

To stop the current synchronization processes but leave the K2 InSync application open, click the Pause button. 

To close the K2 InSync application altogether, click **File | Exit**.

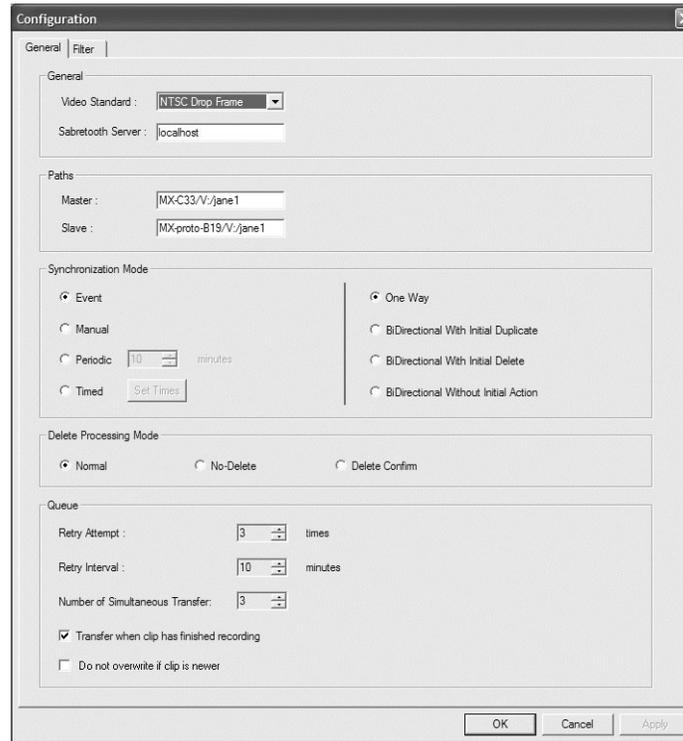
Continue with the following procedures to create, save, and use configurations to control K2 InSync operation.

Setting master and slave K2s

You must define a master K2 and a slave K2 before any synchronization takes place. The K2s must meet requirements as in “K2 System requirements” on page 6. To test the connectivity required for K2 InSync, use the K2 AppCenter application and do a transfer between the K2s.

To set master and slave K2s, do the following:

1. Click **Config | View**. The Configuration dialog box opens.



2. In the **Master** text field, enter the machine name and path to the volume or bin that contains the clips to be backed up or mirrored. Use forward slashes.
3. In the **Slave** text field, enter the machine name and path to the volume or bin to which clips are duplicated or mirrored. Use forward slashes.
4. When you are satisfied with your settings, click **Apply** to put settings into effect and leave the dialog box open, or click **OK** to put settings into effect and close the dialog box. When you click OK, the following occurs:
 - If the manual synchronization mode is currently selected, no synchronization processes begin.
 - If event, periodic, or timed synchronization mode is currently selected, a synchronization process might begin, depending on other settings. Refer to “Running synchronizations” on page 15.

About synchronization

There are two phases of synchronization, as follows:

Initial synchronization — This runs only when a configuration is first loaded. This occurs when the InSync application is first started. It also occurs when a configuration is modified and you click the **OK** button.

In preparation for initial synchronization, K2 InSync compares the clips on both the master and slave. The following conditions are detected:

- Clips present on one K2 system but not on the other

- Clips present on both K2 systems

Based on these conditions, K2 InSync runs the initial synchronization. The synchronization behavior is determined by the currently loaded configuration.

Ongoing synchronization — This is the primary synchronization process that runs on a regular basis for as long as the InSync application remains open. It runs only after the initial synchronization is complete and is triggered according to the synchronization rules in the currently loaded configuration. In preparation for an ongoing synchronization process, K2 InSync compares the clips on both the master and slave. The following conditions are detected:

- Clips present on one K2 system but not on the other
- Clips present on both K2 systems that are identical
- Clips present on both K2 systems that are not identical. This includes clips that have been created (recorded or copied), modified (trimmed or renamed), or otherwise modified on one or both K2 systems since the last ongoing synchronization occurred.

Based on these conditions, K2 InSync runs synchronization processes according to the currently loaded configuration.

Configuring synchronization rules

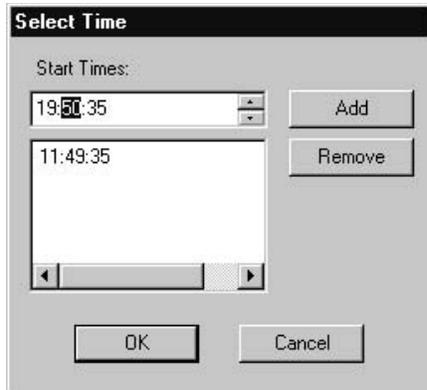
Configure the rules for K2 InSync’s synchronization processes as follows:

1. Click **Config | View**. The Configuration dialog box opens.
2. To control the behavior of initial synchronization, select one of the Synchronization Directions, as explained in the following table:

If you select this synchronization direction...	K2 InSync initially does this to clips on the master but not on the slave...	And this to clips on the slave but not on the master...
One Way	Copy to slave	Nothing
BiDirectional With Initial Delete	Delete from master	Delete from slave
BiDirectional With Initial Duplicate	Copy to slave	Copy to master
BiDirectional Without Initial Action	Nothing	Nothing

3. Select one of the following Synchronization Modes:
 - **Event** — Synchronizes each time K2 InSync detects a change in the master or slave file system, such as when a file is created (recorded or copied), modified (trimmed or renamed), or deleted.
 - **Manual** — Synchronizes only when you click the Start button.
 - **Periodic** — When a synchronization completes, K2 InSync waits for a specified time period, then automatically triggers another synchronization. Enter the time period that you want K2 InSync to wait between synchronizations.

- **Timed** — Synchronizes at specified times. To specify times, click the **Set Times** button. The Select Time dialog box opens.



Enter a synchronization start time and click **Add**. Repeat until all your desired start times are added, then close the dialog box.

4. To control the behavior of ongoing synchronization, select one of the Synchronization Directions, as explained in the following tables:

- If Event synchronization mode is selected, settings behave as follows:

If you select this synchronization direction...	K2 InSync does this to clips deleted from the slave only...	And this to clips deleted from the master only...	And does this to clips modified on the master only...	And this to clips modified on the slave only...
One Way	Nothing	Delete from slave	Copy to slave	Nothing
BiDirectional With Initial Delete	Delete from master	Delete from slave	Copy to slave	Copy to master
BiDirectional With Initial Duplicate	Delete from master	Delete from slave	Copy to slave	Copy to master
BiDirectional Without Initial Action	Delete from master	Delete from slave	Copy to slave	Copy to master

- If Manual, Period, or Time synchronization mode is selected, settings behave as follows:

If you select this synchronization direction...	K2 InSync does this to clips deleted from the slave only...	And this to clips deleted from the master only...	And does this to clips modified on the master only...	And this to clips modified on the slave only...
One Way	Copy to slave	Nothing	Copy to slave	Nothing
BiDirectional With Initial Delete	Delete from master	Delete from slave	Delete from master	Delete from slave

If you select this synchronization direction...	K2 InSync does this to clips deleted from the slave only...	And this to clips deleted from the master only...	And does this to clips modified on the master only...	And this to clips modified on the slave only...
BiDirectional With Initial Duplicate	Copy to slave	Copy to master	Copy to slave	Copy to master

5. To further control the behavior of ongoing synchronization, configure the **Do not overwrite if clip is newer** checkbox, as explained in the following table:

If you select this synchronization direction...	And the checkbox is unchecked, K2 Insync does this to clips modified on both the master and the slave.	And the checkbox is checked, K2 Insync does this to clips modified on both the master and the slave.
One Way	If clip newer on master, it overwrites clip on slave. If clip newer on slave, nothing occurs.	Nothing
BiDirectional With Initial Delete	Newer clip overwrites older clip	Nothing
BiDirectional With Initial Duplicate	Newer clip overwrites older clip	Nothing
BiDirectional Without Initial Action	Newer clip overwrites older clip	Nothing

6. Configure values for Queue Retry as follows:

- **Retry Attempt** — When K2 InSync cannot copy or delete a file, it can try the process again. Enter the number of times that you want K2 InSync to try again.
- **Retry Interval** — Enter the number of minutes that you want K2 InSync to wait between retries.
- **Transfer when clip has finished recording** — Check this box if you do not want K2 InSync to begin transferring while the clip is still recording.

7. Select one of the following Delete Processing Modes. These modes apply only when the Synchronization Direction is set to BiDirectional With Initial Delete:

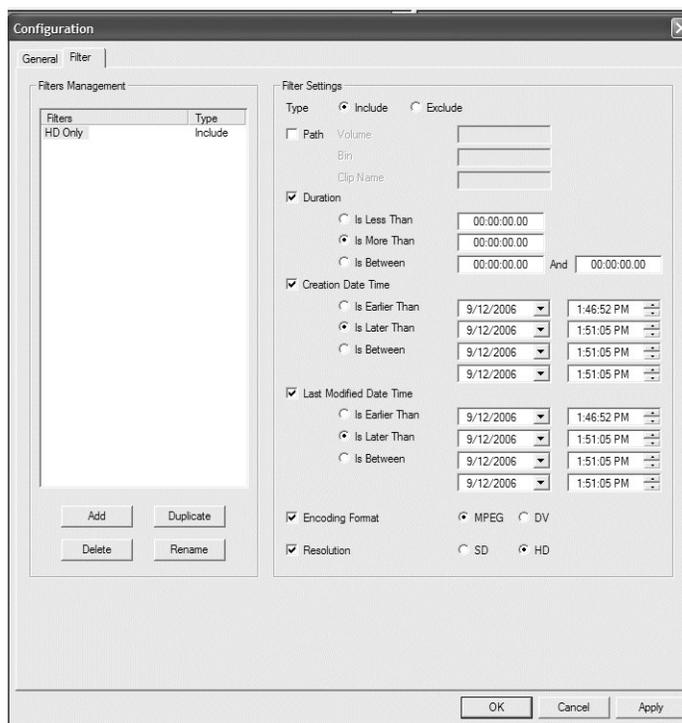
- **Normal** — When a clip has a delete task listed in the synchronization queue, K2 InSync processes the delete task and deletes the clip during the normal synchronization process. Each clip deletion is recorded in the History List.
- **No-Delete** — When a clip has a delete task listed in the synchronization queue, K2 InSync does not process the delete task and the clip remains untouched. These unprocessed delete tasks remain in the synchronization list until a new synchronization runs. K2 InSync does not retain any history or log entries of these unprocessed delete tasks.
- **Delete Confirm** — When a clip has a delete task listed in the synchronization queue, K2 InSync does not process the delete task during the synchronization process. Instead, K2 InSync places the clip’s delete task in the Confirm Delete List, so that you can later view the list and manually accept or reject each clip deletion. Refer to “Managing individual synchronization tasks” on page 16.

8. When you are satisfied with your settings, click **Apply** to put settings into effect and leave the dialog box open, or click **OK** to put settings into effect and close the dialog box. When you click OK, the following occurs:
 - If the manual synchronization mode is currently selected, no synchronization processes begin.
 - If event, periodic, or timed synchronization mode is currently selected, a synchronization process might begin, depending on other settings. Refer to “Running synchronizations” on page 15.

Defining filters

You can define a filter by which K2 InSync only processes certain files during synchronization, as follows:

1. Click **Config | View**. The Configuration dialog box opens.
2. Click the **Filter** tab.



3. Click **Add**. A filter name appears in the Filters list. Change the filter name to a name of your choosing.
4. With your new filter still selected in the **Filters** list, select the filter settings to include in that filter. As you select the check box for a filter setting, its parameters become enabled for modification.
5. For your selected filter settings, modify parameters as follows:
 - **Path** — Clips in the path are synchronized. Clips outside the path are not synchronized. Make sure that the path defined here is in “Master”, as defined on the General tab. Define the path by entering, in order, one of more of the

following:

- Volume (such as *EXT*:
 - Bin (such as *default*)
 - Clip Name
 - **Type** — Select **Include** or **Exclude** to specify how K2 InSync should treat the Filter criteria.
 - **Duration** — Select **Is Less Than**, **Is More Than**, or **Is Between** two given times. Enter Hours:Minutes:Seconds.Frames to define the length of the clips to synchronize.
 - **Creation Date Time** — Select **Is Earlier Than**, **Is Later Than**, or **In Between** two given times. Enter dates and times to define the age of the clips to synchronize or select from the drop-down list.
 - **Last Modified Date Time** — Select **Is Earlier Than**, **Is Later Than**, or **In Between** two given times. Enter dates and times to define the time last modified of the clips to synchronize or select from the drop-down list.
 - **Encoding Format** — Select the format-type of the clips to synchronize: **MPEG** or **DV**. If you want to synchronize both format-types, do not select this filter setting.
 - **Resolution Format** — Select the resolution type to synchronize: **SD** or **HD**. If you want to synchronize both types, do not select this filter setting.
6. Select filters in the **Filters** list and use the Add, Duplicate, Delete, and Rename buttons as necessary to create your required list of filters. For example, you could duplicate and rename a filter several times and for each duplication de-select some of the filter settings or otherwise modify certain parameters so as to create a series of “windows” for tight control of the clips to be synchronized. You can have a maximum of ten filters in the list. All filters in the list are processed when synchronization occurs.
7. When you are satisfied with your settings, click **Apply** to put settings into effect and leave the dialog box open, or click **OK** to put settings into effect and close the dialog box. When you click OK, the following occurs:
- If the manual synchronization mode is currently selected, no synchronization processes begin.
 - If event, periodic, or timed synchronization mode is currently selected, a synchronization process might begin, depending on other settings. Refer to “Running synchronizations” on page 15.

Saving a configuration file

The default configuration file is stored at *C:\InSync.cfg*. This default configuration file is updated whenever you modify K2 InSync configuration, unless you intentionally save a configuration file with a specific name or location, as explained in this procedure.

You can create and save multiple configuration files, as follows:

1. Configure settings as in “Setting master and slave K2s” on page 8, “Configuring

synchronization rules” on page 10, and “Defining filters” on page 13 to create a configuration that you want to save.

2. Click **OK** to retain current settings.
3. Click **Config | Save**. The Save Configuration File As dialog box opens.
4. Name the configuration file, navigate to a location, and save the file as type *.cfg.
5. Repeat this procedure to save other configuration files.

Loading a configuration file

You can load one of your previously saved configuration files as means of re-configuring all settings in a batch, as follows:

1. If K2 InSync is not already running, start it as in “Starting and stopping K2 InSync” on page 7. When the Countdown dialog box appears, click **Load Config**. The Load Configuration File dialog box appears. Continue with step 3 of this procedure.
2. If K2 InSync is already running, click **Config | Load**. The Load Configuration File dialog box appears.
3. Navigate to the location of your saved configuration file, select it, and load it. K2 InSync settings are re-configured accordingly.
4. Click **Config | View** to confirm that you have the correct settings.

Running synchronizations

K2 InSync is intended to be used primarily as an automatic synchronization tool that runs continuously in the background and triggers synchronization processes as defined by the rules that you configure. The mechanisms that run the synchronization processes are designed for this use, as follows:

- In the manual synchronization mode, click the Start button  to start a synchronization. Only in the manual synchronization mode can you directly control the start of a synchronization in this way. This is the only synchronization mode in which the Start button is enabled.
- In any synchronization mode you can pause a currently running synchronization by clicking the Pause button.  When you do so, the currently duplicating task, if any, is cancelled. Clicking the button again resumes processing at the same task.
- K2 InSync refreshes its synchronization rules at the following times: when K2 InSync starts up; when a configuration is changed and you click OK; or when you manually load a configuration file. If a synchronization is underway at any of these times, the synchronization is cancelled and a new synchronization runs as follows:
 - If the configuration is set to manual synchronization mode, no synchronization starts.
 - If the configuration is set to periodic synchronization mode, synchronization starts immediately.
 - If the configuration is set to event synchronization mode, synchronization starts immediately.

- If the configuration is set to timed synchronization mode, K2 InSync reads the start time in the configuration, and automatically starts synchronization when the time arrives.

Managing individual synchronization tasks

Individual synchronization tasks are listed as a queue in the synchronization list. The following procedures explain how you can manage the tasks as they appear in the list.

About task blocks

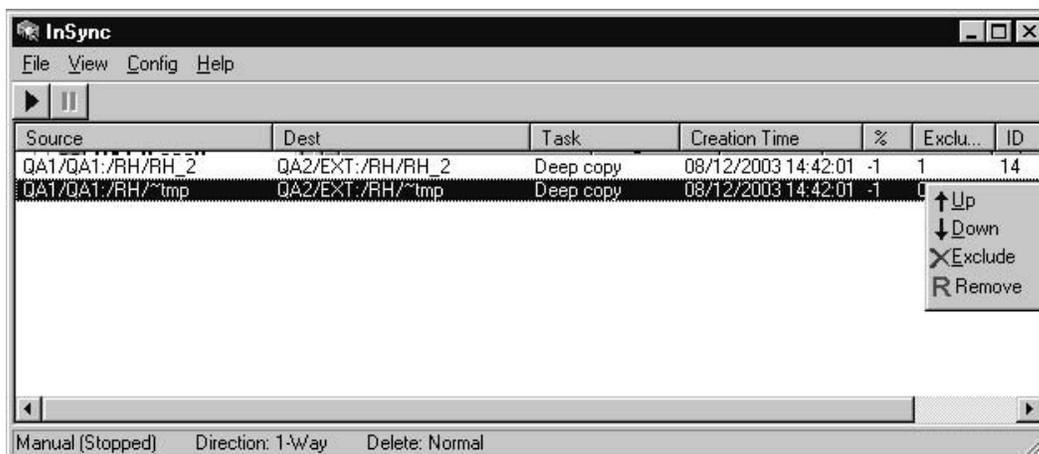
Individual tasks in the list can be related such that they form task blocks. For example, when a task uses a clip which is a result of an earlier copy or rename task, these two tasks are related. Multiple tasks can be inter-related in this way to form a task block.

As you manage individual tasks, you can do so only to the extent that you do not break task block relationships. For example, if you are moving a task up or down the list, you might find that it will not move past a related task if it creates an illogical sequence, such as renaming a clip after it has been deleted. In this case you need to move the related tasks as well and keep the task block intact.

Re-arranging the order of synchronization tasks

You can move tasks up or down the queue as follows:

1. Right-click a task in the synchronization list.



2. On the pop-up menu, select Up or Down. This moves the task one row in the direction selected. Repeat this step until the task is in the required position.

Excluding synchronization tasks

You can individually exclude a task so that it is not processed. This causes K2 InSync to skip the excluded task as it works down through the synchronization queue.

To exclude a task, do the following:

1. Right-click a task in the synchronization list for which the value in the Exclude

column is *N*. *N* is the value for a normally included task.

2. On the pop-up menu, select **Exclude**. This changes the value in the Exclude column from *N* to *Y*. K2 InSync will now skip the task (and other task-block related tasks) when the task reaches the currently processing position at the head of the queue. Excluded tasks move past the currently processing position and accumulate at the top of the synchronization list area while other tasks continue their processing beneath.

Including synchronization tasks

You can individually include an excluded task, as follows:

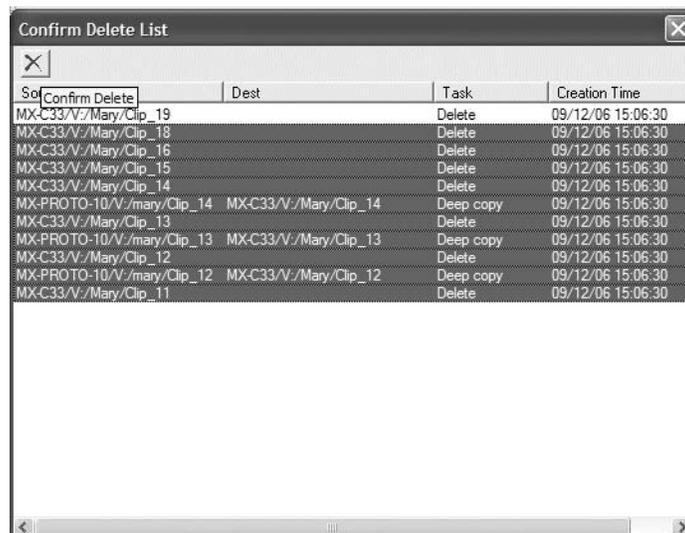
1. Right-click a task in the synchronization list for which the value in the Exclude column is *Y*. *Y* is the value for an excluded task.
2. On the pop-up menu, select **Include**. This changes the value in the Exclude column from *Y* to *N*. K2 InSync will now process the task. Excluded tasks that K2 InSync previously skipped and that remain at the top of the synchronization list area drop to the bottom of the list upon their inclusion.

Manually controlling deletions

These features apply only when the Synchronization Direction is set to BiDirectional With Initial Delete.

K2 InSync provides a process whereby no clip is deleted unless you individually confirm its deletion. To set up and use this process, do the following:

1. As explained in “Configuring synchronization rules” on page 10, set your current configuration to **Delete Confirm**.
2. Set Synchronization Direction to BiDirectional With Initial Delete.
3. Allow one or more synchronizations to run in which the configuration rules direct one or more clips to be deleted.
4. Click **View | Confirm Delete List**. The Confirm Delete List opens.



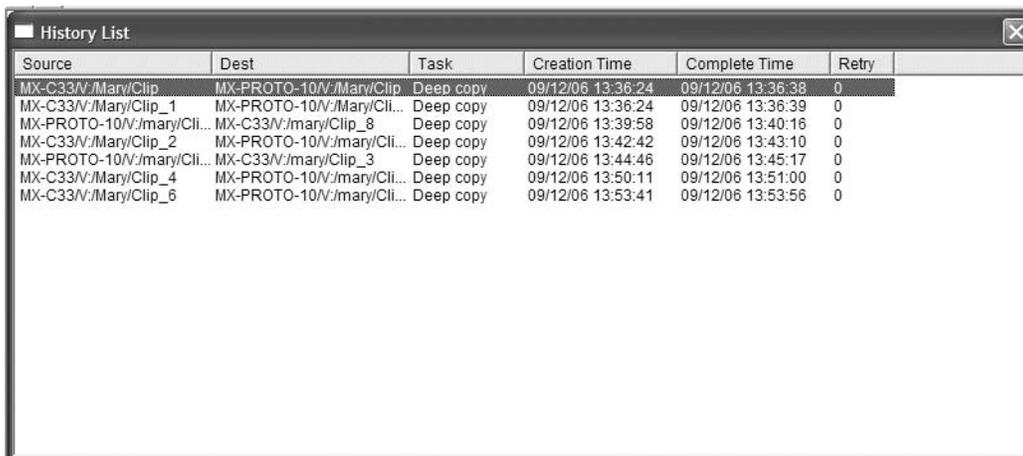
Delete tasks, including task-block related tasks, are listed for clips that should have been deleted, but were not. This is the result of setting the configuration to Confirm Delete.

- For each clip that you want to confirm for deletion, select the row and click the

Delete button.  You can use Ctrl + Click or Shift + Click to select multiple rows. K2 InSync immediately moves these delete tasks, with their task-block related tasks, to the bottom of the synchronization queue and then closes the Confirm Delete List window. K2 InSync processes the delete tasks when the tasks reach the currently processing position at the head of the queue.

Viewing synchronization history

To view a list of the synchronization tasks processed since K2 InSync was last started, click **View | History List**. The History List opens.



Source	Dest	Task	Creation Time	Complete Time	Retry
MX-C33V:/Mary/Clip	MX-PROTO-10V:/Mary/Clip	Deep copy	09/12/06 13:36:24	09/12/06 13:36:38	0
MX-C33V:/Mary/Clip_1	MX-PROTO-10V:/Mary/Cli...	Deep copy	09/12/06 13:36:24	09/12/06 13:36:39	0
MX-PROTO-10V:/mary/Cli...	MX-C33V:/mary/Clip_8	Deep copy	09/12/06 13:39:58	09/12/06 13:40:16	0
MX-C33V:/Mary/Clip_2	MX-PROTO-10V:/mary/Cli...	Deep copy	09/12/06 13:42:42	09/12/06 13:43:10	0
MX-PROTO-10V:/mary/Cli...	MX-C33V:/mary/Clip_3	Deep copy	09/12/06 13:44:46	09/12/06 13:45:17	0
MX-C33V:/Mary/Clip_4	MX-PROTO-10V:/mary/Cli...	Deep copy	09/12/06 13:50:11	09/12/06 13:51:00	0
MX-C33V:/Mary/Clip_6	MX-PROTO-10V:/mary/Cli...	Deep copy	09/12/06 13:53:41	09/12/06 13:53:56	0

Viewing the history log

K2 InSync saves history logs for the last 30 days of activity, which includes startup, shutdown, and the tasks completed by K2 InSync. Log files are stored in `C:\GVG\InSync History`. A history log file is named `InSynclog.xxyyy`, where `xx` is the day of the month and `yy` is the running number of total log files present. You can view a log file with WinTail or a text editor such as Notepad.

Changing the slave K2 to be master

If you must remove the master K2 (call it Unit A) from service and place the slave K2 (call it Unit B) on line, and you want to maintain redundancy, you must reassign K2 B to be master and assign a different K2 (call it Unit C) as slave. You can do this by preparing a configuration file in advance, so that you can quickly load it should the need arise, or you can simply change the current configuration. In either case, use the following procedure to create the required configuration.

To change the designation of K2 B from slave to master, do the following:

1. Install K2 InSync on K2 B (if it is not already installed). Follow the installation instructions given earlier.
2. On K2 B, set K2 B as master and K2 C as slave.
3. Select **Manual** synchronization mode so that you can control the start of the synchronization.
4. Make other configurations, according to your synchronization requirements.
5. Click **OK**.
6. If you do not want to use the configuration file immediately, save it with an appropriate name, then re-load your previous configuration.
7. If you do want to use the configuration immediately, first make sure that PortServer is running on K2 C, then click the Start button.
8. After the initial synchronization completes, you can change the synchronization mode according to your ongoing synchronization requirements.

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