

Rules & Behaviors Compatibility Between EclipseSuite 1.3x and EclipseSuite 1.40

There has been some questions recently regarding the compatibility of the Rules and Behavior files created with EclipseSuite version 1.3x when used in EclipseSuite 1.40. Hopefully, this will clarify any confusion.

Rules Compatibility

By the time EclipseSuite 1.30 was released, a new branch of code had already been started for the 1.40 version. As the development of 1.40 progressed, many new rules were being introduced. The IDs for the new rules incremented from where version 1.30 left off. Soon after the release of 1.30, we identified some minor problems that required the release of 1.31. Two of the changes in v1.31 were related to the Plextor CD-ROM drives and some where enhancements to the U-matic interface (see v1.31 release notes for full details). In version 1.31, the two new rules were introduced. Since the last rule ID used in version 1.30 was 409, the new rules were added as 410 and 411. Unfortunately, by this time, version 1.40 beta had already implemented these rule IDs for other new DVD rules. When they were created in 1.40 beta, they were added as IDs 472 and 475. The table below shows the rules that were affected:

Rule Title	ID in 1.31	ID in 1.40 Beta	ID in 1.40 Release
Input stream missing 24 bytes of data	410	472	410
ROM Subheader comparison error	411	475	411
DVD-Audio missing essential files	N/A	410	578
Number of Audio Title Sets	N/A	411	579

This created a problem for customers who were running both versions of EclipseSuite. For instance, if [EclipseSuite 1.31](#) was run with [a Beta version of the EclipseSuite 1.40 help](#) and the software triggered rules 410 or 411, then the wrong help information would be displayed. Similarly, if [a Beta version EclipseSuite 1.40](#) was run with [a 1.31 version of the EclipseSuite help](#) and the software triggered rules 472 or 475, then no help information would be available since those rule IDs were not implemented in 1.31.

This problem was corrected prior to the release of EclipseSuite 1.40. In the released version of 1.40, the rule IDs for "*DVD-Audio missing essential files*" and "*Number of Audio Title Sets*" were changed to 578 and 579, respectively. Then, rule IDs for "*Input stream missing 24 bytes of data*" and "*ROM Subheader comparison error*" were changed to 410 and 411, respectively. Rule IDs 472 and 475 are currently unassigned. These changes in version 1.40 made all the rule IDs up to 411 compatible with previous versions of EclipseSuite. Now, no matter which version of EclipseSuite application or help file you were using, the correct help information will be shown.

IMPORTANT! There is a side effect when making these changes. If you use a rules file that was created with 1.40 Beta software, switching of the IDs between rules causes the severity levels to be switched as well. For instance, the default severity level for "*Number of Audio Title Sets*" is set to INFO and "*Subheader comparison error*" is set to ERROR. Assuming that the rules file has the same setting, once the rule IDs are switched, it causes the severity level for "*ROM Subheader comparison error*" to be set to INFO. This only occurs if the rules file was created with a Beta version of EclipseSuite 1.40.

There are two other changes that were made in version 1.40. The severity level for the following two rules was changed.

Rule Title	Default Setting in 1.3x	Default Setting in 1.40
Checksum file missing	Ignore	Info
Invalid incrementing ATIME in Subchannel	Warning	Error

These changes are considered minor. In fact, if you are currently using a rules file, you will not notice any difference since the severity for these two rules will be set according to the rules file. The only time you will see a difference is if you are not using a rule file (i.e. you are using the factory default rule settings). If analyzing or verifying an image that does not include a checksum, you will see the "*Checksum file missing*" as an info message. The other rule, "*Invalid incrementing ATIME in Subchannel*", is only triggered when the ATIME in the Subchannel does not increment properly. Instead of a WARNING, it will be shown as an ERROR.

Behaviors Compatibility

In EclipseSuite 1.40, there were also some changes made to the program behaviors. Four new behaviors were added, two were changed and another removed. For details on all the behaviors, refer to the EclipseSuite User's Manual.

General Behaviors

In the General behaviors, the following behaviors were added:

- ◆ Do not pad DVD to be a multiple of 16
- ◆ Prompt for Media Key Block (MKB) location
- ◆ Write RID/SID

The behavior "*Do not pad DVD to be a multiple of 16*" is only used by ImageCopy. In ImageEncoder, this behavior is only available in ImageEncoder version 1.31 beta series. The default setting for "*Verify After Copy*" was changed from **Yes** to **No**. The behavior "*Do not write initial pause of a session*" was moved from the **General** behaviors to the **Output** behaviors with some changes.

Output Behaviors

There were two changes in the **Output** behaviors. First, the behavior "*Do not write initial pause of a session*" was changed so that you could select this behavior based on the image format (audio or ROM). If you are using a behaviors file that was created with a previous version of EclipseSuite and this behavior is selected, opening the behaviors file with EclipseSuite 1.40 causes the software to select "Ignore Initial Pause of Session" on **ROM** images only. If you want to ignore pauses on audio images, then you have to select the **Audio** behavior. However, be aware that the new **Audio** behavior omits the pause even if the pause contains data, whereas the previous version only omitted the pause if it contained zero-data.

Omit Initial Pause Of Session

- Audio**
- ROM**

The other change in the **Output** behaviors is the removal of the behavior "*DDP 1.0 ISRCs*".

Postgap Behaviors

In the Postgap behaviors, a new behavior was added to control whether the **Postgap** behavior should be applied to an audio session. In previous versions of EclipseSuite, the Postgap behaviors would be applied to both audio and CD-ROM images. Since a Postgap only applies to CD-ROM images, the customer can now control whether it should be applied to audio as well.

NOTE A Postgap can only be applied to the final session of an image. The reason for this is that if it was applied to an intermediate session, it would cause data to be shifted from that point forward.