In a z/OS environment, the SC name that is assigned to a volume in the ACS routine is directly passed to the TS7700 and mapped to the predefined constructs. Figure 2-6 shows this process.
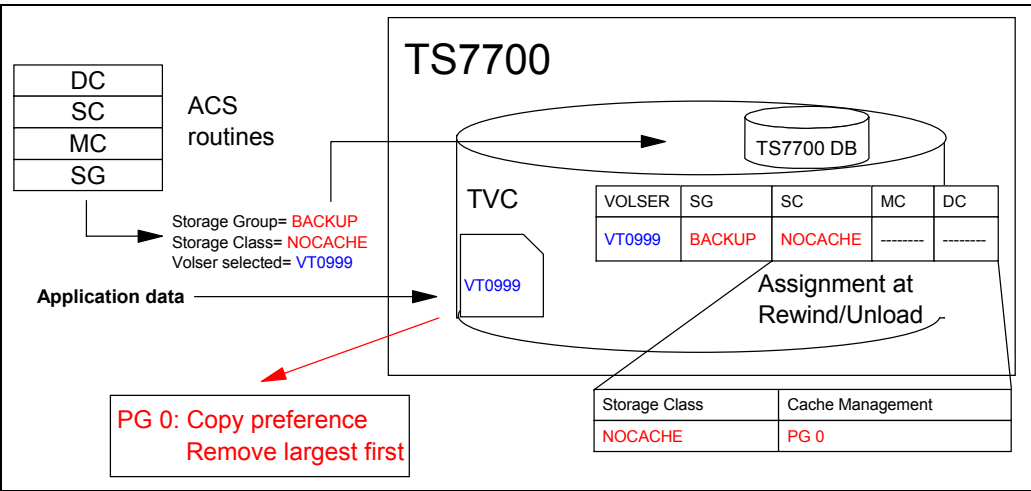


*Figure 2-6   TS7740 TVC management through Storage Class*

If the host passes a previously undefined SC name to the TS7700 during a scratch mount request, the TS7700 adds the name by using the definitions for the default SC.

**Define SCs:** Ensure that you predefine the SCs. The default SC might not support your needs.

For environments that are not z/OS (SMS) environments that use the MI, an SC can be assigned to a range of logical volumes during insert processing. The SC can also be updated to a range of volumes after they have been inserted through the MI.

To be compatible with the IART method of setting the preference level, the SC definition also enables a Use IART selection to be assigned. Even before Outboard Policy Management was made available for the previous generation VTS, you could assign a preference level to virtual volumes by using the IART attribute of the SC. The IART is an SC attribute that was originally added to specify the wanted response time (in seconds) for an object by using the OAM.

If you wanted a virtual volume to remain in cache, you assign an SC to the volume whose IART value is 99 seconds or less. Conversely, if you want to give a virtual volume preference to be out of cache, you assign an SC to the volume whose IART value was 100 seconds or more. Assuming that the Use IART selection is not specified, the TS7700 sets the preference level for the volume based on the Preference Level 0 or 1 of the SC assigned to the volume.