

# GLORIA MIDI Files Specs

First a caveat: You can add songs to Gloria any time you wish. We give you the parameters of the file below. However, be also advised that to code an entire hymnal into Gloria with full orchestral sound, took us three years and cost nearly \$100,000. That said, anyone with a keyboard and a computer with a MIDI file generator like "Cakewalk" can digitize hymns for Gloria. For full orchestration, 16 different files are generated for each hymn. A simpler version, used by most churches, only requires 6 files for each hymn. The process consists of recording one instrument, usually the soprano melody, then listening to that melody as you add each of the other parts – each with their own MIDI track. So it is not difficult for a musician used to MIDI recording, but it is time-consuming. The point is, it can be done.

We advise you to check the hymns already available in Gloria's memory first, to see if your favorites are there. If not, a relatively competent musician can record those few other hymns that your church sings regularly, instead of the whole hymnal, where most hymns will never be used. Just keep in mind that you are responsible for any copyright issues for songs you record.

If you want to just add a few random songs, you can record anything you want (in MIDI format), and then download it into Gloria.

If you want it to play with the normal Gloria features (able to switch instruments, etc.) you need to assign various parts to the proper channels. If you want to compile a complete hymnal, there is a lot more involved to include the intros, key changes, and final stanzas, etc.

The files used are **Type 1 MIDI**

The primary or "p" version of the song will be the orchestral (or modern) version of the hymn (full orchestra). The alternate or "a" version of the song will be the traditional piano/organ version (simpler version). The default will be the "p" version in most cases, and where a 16-channel recording exists.

The music will dictate the file size required for a song and could grow to 80-100K or more for some longer or more complex songs. Average size per hymn will most likely be around 40K.

The MIDI channels will be mapped as follows:

MIDI Channel	Description	User can modify patch	Gloria Button assignment	Variable Pitch
1	Soprano (S)	Yes	Soprano	Yes
2	Alto (A)	Yes	Alto	Yes
3	Tenor (T)	Yes	Tenor	Yes
4	Bass (B)	Yes	Bass	Yes
5	Piano/Organ	Yes	Accompaniment	Yes

6	Orchestra	No	Accompaniment	Yes
7	Orchestra	No	Accompaniment	Yes
8	Orchestra	No	Accompaniment	Yes
9	Orchestra	No	Accompaniment	Yes
10	Drums	No	Drums	No
11	Orchestra	No	Accompaniment	Yes
12	Orchestra	No	Accompaniment	Yes
13	Orchestra	No	Accompaniment	Yes
14	Orchestra	No	Accompaniment	Yes
15	Orchestra	No	Accompaniment	Yes
16	Orchestra	No	Accompaniment	Yes

Any MIDI channels assigned to a particular Gloria button can be separately soloed or muted. The volume can be adjusted separately for each button, or for the song as a whole. The default volume should be 100% and be adjustable downward. The tempo will be determined by the MIDI song files and can vary within each song's files. The overall tempo adjustment will change the tempo up or down for the entire song by a user selected amount.

Whenever an Intro is used, it will contain MIDI data on tracks 1-4 to assist the singers' entrance.

**IMPORTANT:** A special MIDI control (22) event needs to be inserted in the last tick of the last bar of each MIDI file for proper looping. This event will be replaced with the end of track marker during final compile.

The file naming convention will be as follows:

The filename will contain exactly 8 alphanumeric characters followed by a 3 letter extension. The first two characters shall specify the hymnal (Celebration = CE, Celebros = CS, Military = MI, or your designation). Characters 3-6 shall designate the 4 digit hymn number with leading zeroes. Character 7 shall be either P (primary) or A (alternate). Character 8 shall be I (intro), M (main), P (penultimate), L (last), F (fanfare or other) or K (keychange). The 3 letter extension shall be "mid" for MIDI.

An example file name of the orchestral main stanza for hymn 346 in the Celebration Hymnal would be: ce0346pm.mid