INTRODUCTION This page describes the process for adding newly created (or updated) VASL boards to the VASL system, including the addition of LOSData to enable LOS checking. It includes all of the steps required to ensure that new boards can be accessed by the automatic board synchronization feature contained in VASL 6.4.x and higher. In addition, it describes the process for manually adding/updating boards on http://vasl.info/. This page does not describe the process for creating new VASL map images using graphical tools. Instructions for doing so are found elsewhere.

AUTOMATIC BOARD SYNCING The automatic board synchronization feature in VASL, introduced in version 6.3 uses the GitHub VASL board repository as the "source of truth" for the current version of the boards along with the board version document, located in the VASL code base, which maintains the active version of each board. These two vehicles need to be kept in sync when a board is created or updated. As of VASL6.4.3, an updated methodology for board synchronization was introduced, using an .xml metadata board version document. As a result, the VASL6.3.x process no longer works, and this document has been amended to reflect new requirements for adding boards to the GitHub repository.

VASL BOARDS VASL board files (or boardarchive files as they are often called) are .zip files with the extension .zip removed from the file name. (for example, bd20 is bd20.zip without the .zip extension). As such, a VASL board file is a collection of other files, including the map graphic, all of which are required for the board to function properly in VASL. A VASL board must contain the following files:

1.   A .gif file which is the actual graphical image of the map (for example, bd20.gif). The name of the .gif file should follow the pattern "bd" & yourboardname & ".gif". When VASL6.5 is released, .png files may be used as well.

2.   A file named boardmetadata.xml, which is an .xml file following a prescribed structure. See example at vasl-developers/vasl/dev documentation/BoardMetadata - sample.xml for details.

3.   A file named data which is a .txt file with the .txt extension removed from the name. It follows a prescribed structure: Version x.x. Data is a legacy file used before the Boardmetadata.xml file was introduced but in some testing is still needed if using overlaySSR (which is pretty much every geo board). Comments, such as who created the board graphic or updated it can be added on a separate line and should be proceed by "//".

4.   Four additional txt files, all without the .txt extension in their name, named "colors", "colorSSR", "overlaySSR", and "SSRControls". These files are used to govern terrain transformations on the map when being used in VASL. They are all created during the map-making process, following the requirements set out for them. Colors defines the color palette used to enable colorSSR terrain changes. ColorSSR defines the rules which substitute one color for another when certain SSR terrain settings are applied (i.e. snow, mud). These 2 files (colors and colorSSR) are really only needed if the colors or rules need to be customized for a particular board since a certain version of them is included in the VASL build, but they should be included in every bdXX file just to be safe and consistent). OverlaySSR defines any overlay image files and placement coordinates, called upon by certain SSR terrain changes (i.e. DenseJungle, LightWoods).

In addition, a VASL board may contain the following files:

5.	A number of additional .gif files representing overlay files specific to the board. The map-making process includes directions on creating and naming these files.

6.	A file named LOSData, which contains the LOS data used by VASL when performing LOS checks on the board. This file is created from an initial version of the VASL board file as described below.

CREATING OR UPDATING VASL BOARDS Map elves create a VASL board file as the output of the map-making process. Having first created all of the mandatory and optional files required (with the exception of the LOSData file which is not created at this state), a number of steps are necessary to create the board file and add it to the VASL system:

1.	For new boards, assign a version number to the board in the boardmetadata.xml file. For board updates, change the version number (to enabled auto-synching).

2.	Add all of the required files to a directory/folder in the VASL code repository in the at github.com/vasl-developers/vasl/develop/boards/src. The folder should follow the naming convention evident in the /src directory.

3.	Compile/build (the terms are interchangeable), the board file manually or by using BoardBuilder. See separate instructions on the Wiki for using Boardbuilder.

4.	Place a copy of the VASL board file into the VASL board repository at github.com/vasl-developers/vasl/develop/boards/bdFiles.

5.	Update the board version documents named "v5boardVersions.xml" and "v5boardVersions.txt" in the VASL code repository /boards directory.

6.	Step 3 must be completed before step 4 and the two should be done in close succession.

In addition, map elves are asked to place the layered file (PSD/XCF) used in the map-making process into the VASL code repository /src/bdxx directory along with the other files as per step 1 above. This would include the matching layered file for each of the .gif/.png files in the board. These layered files should not be included in the boardarchive file produced in step 2 above.

Updating an existing board involves the same steps, but first, map elves should clone a copy of the VASL code repository and the vasl board repository. They will use the code repository to obtain the necessary files from the /src directory.

Using those files, map elves can make changes to the board. They should then use steps 1 to 4 above to update the board files in the VASL code repository and VASL board repository as appropriate.

ADDING LOSDATA TO A BOARD Adding LOSData to a board begins with an already existing board file and involves the following steps, which are very similar to those in the preceding section with one major addition.

1.   Obtain a VASL board file from the VASL board repository at github.com/vasl-developers/vasl/develop/boards/bdFiles.

2.   Open the VASL board file using the LOS-GUI program that is part of the VASL code repository.

3.   Edit the LOSEditor.properties file in the VASL.LOS-GUI folder to set BoardDirectory to the local folder containing the VASL board file.

4.   The LOS-GUI program uses the boardmetadata.xml file and the map .gif file contained in the VASL board file to automatically generate most of the LOS data required. Add any missing data or correct errors by using the LOS-GUI functionality.

5.   Save the board file from within the LOS-GUI program. At this step a LOSData file is created and automatically added to the VASL board file.

6.   Update the board version number in boardmetadata.xml.

7.   Add the LOSData file and the updated boardmetadata.xml file to the board folder in the VASL code repository in the at github.com/vasl-developers/vasl/develop/boards/src. This can be done via SourceTree in certain circumstances.

8.   Compile/build the board file by using BoardBuilder. See separate instructions on the Wiki for using Boardbuilder.

9.   Place a copy of the updated VASL board file into the VASL board repository at github.com/vasl-developers/vasl/develop/boards/bdFiles.

10.   Update the board version number in "v5boardVersions.xml" and "v5boardVersions.txt" in the VASL code repository /boards directory.

11.   Step 7 must be completed before step 8 and the two should be done in close succession.

At this stage the process is complete. All of the source files are stored in the VASL code repository boards/src directory. The compiled VASL board file is in the VASL board repository /bdFiles directory. VASL 6.4.3 and higher will use this repository to automatically check for updates of the board and download them when VASL users select the board for use in a scenario.

ADDING OR UPDATING A BOARD ON THE VASL.INFO WEBSITE For gamers not using VASL 6.4.3 and higher, updating to the latest version of the boards is a manual process that starts by downloading the boards from http://vasl.info. So, the final version of the board file in the VASL board repository must be enclosed in a zip file and transferred to vasl.info for downloading. This is a separate and distinct process.

1.   create a new branch in vasl-developers/vasl-website and clone it to your local machine

2.   enclose any new or updated bd files in a zip file. Note: it is not sufficient to add a .zip prefix and a bdXX file (which is in fact already a zip file). You must zip the bdXX file itself, which should end up with the name bxXX.zip.

3.   add the zip files of any new or updated boards to the boards directory of the cloned branch of vasl-developers/vasl-website created in step 1.

4.   update the version numbers of these new or updated boards in the versions.json file in that same boards directory

5.   When adding new boards it is also necessary to edit the .htm file associated with the board publisher. For MMP non-HASL boards this is the board.htm file; for MMP HASL boards and TPP boards this is the other.htm file. Both files are found in the top level directory of the website branch. Edit the file by adding new lines for each board according to the existing .htm pattern.

6.   commit local changes made in steps 3 and 4 (and 5 if required) to the branch on GitHub created in step 1

7.   create a pull request for your branch to get merged into the main trunk (gh-pages)