

Document

Project: WAsys Lib Log  
Title: Lib overall view  
Doc version: 0.2(Oct 26, 2019)  
Author(s):  
Arashi (@911992) {principal author}

Meta Legends

«Lib related  
user code implementation»

«user business code»

«Lib core/essential part»

«Lib default behavior»

Version History

v0.2  
(Oct 26, 2019)  
Author: Arashi

Initial release

The diagram illustrates the architecture of the WAsys Lib Log, organized into three main layers: Codebase/Application, HAL/OS, and HW.

**Codebase/Application Layer:**

- User Business Layer (Light Red Box):** Contains a large cyan box labeled "Logging" and two smaller cyan boxes: "Log IO Handler" and "System timestamp/tick handler".
- WAsys Lib Log (Light Green Box):** Contains a "Time formatter" box (which includes a "Default Time Handler (time())" sub-box), a "Log formatter" box, and a "Default Log IO Handler (STDOUT)" box.

**Interactions within Codebase/Application:**

- An arrow labeled "«callback»" points from the "Time formatter" to the "Log IO Handler".
- An arrow labeled "«Initializing»" points from the "Logging" box to the "Time formatter".
- An arrow labeled "«logging»" points from the "Logging" box to the "Log formatter".
- An arrow labeled "«callback»" points from the "Log formatter" to the "System timestamp/tick handler".
- An arrow points from the "Default Log IO Handler (STDOUT)" to the "Default Log IO Handler (STDOUT)" box.

**HAL/OS Layer:**

- Contains a "Communication Protocol (RS485, RS232, etc...)" box, a "time()" box, and a "STDOUT" box.
- Arrows point from the "Log IO Handler" and "System timestamp/tick handler" boxes in the User Business Layer to the "Communication Protocol" box.
- Arrows point from the "Time formatter" and "Log formatter" boxes in the WAsys Lib Log to the "time()" and "STDOUT" boxes respectively.

**HW Layer:**

- Contains a "Physical IO (e.g. 1 wire, 2 wires, etc...)" box.
- An arrow points from the "Communication Protocol" box to the "Physical IO" box.