# MPA 1000 sw-master Doxygen documentation

Peformed by trainee - Zheleznoy A.S.

Main points.

1) Analysis of theoretical material

2) Creating a doxyfile configuration file

3) Adding comments directly to the project codes.

### Analysis of theoretical material



### Creating a doxyfile configuration file

Tag	Appointment	Default
DOXYFILE_ENCODING	The encoding used for all characters in this settings file	UTF-8
OUTPUT_LANGUAGE	Sets the language in which the documentation will be generated	English
PROJECT_NAME	Project name, which can be a single word or a sequence of words (if you are editing outside of Doxywizard, the sequence of words must be enclosed in double quotes)	My Project
PROJECT_NUMBER	This tag can be used to indicate the project number or version	
PROJECT_BRIEF	A short one-line project description, which is placed at the top of each page and gives an overview of the purpose of the project	
OUTPUT_DIRECTORY	An absolute or relative path where the documentation will be generated	Текущая директория
INPUT	A space-separated list of files and / or directories that contain the source code of the project	Текущая директория
RECURSIVE	Used when you need to scan source codes in subfolders of specified directories	NO

## Adding comments directly to the project codes.

```
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🗎 host_pkt_int_tx_api_class.cpp 🗵 📙 Doxyfile 🗵 📙 api_c 🗵 📙 api_display.c 🗵 📙 api_net.c 🗵 📙 api_platform-am.c 🗵 🗎 api_platform-mips.c 🗵 📙 api_platform-powerpc.c 🖟 🚺 host_pkt_int_tx_api_class.cpp 🗵
       // Macnica
                                                                                                                    // Macnica
       // 380 Stevens Avenue, Suite 206
                                                                                                                     // 380 Stevens Avenue, Suite 206
       // Solana Beach, CA 92075
                                                                                                                     // Solana Beach, CA 92075
        // www.macnica.com
                                                                                                                        www.macnica.com
       // Host TX Packet Interface (LPO) API
                                                                                                                    // Host TX Packet Interface (LPQ) API
       // Version:
                                                                                                                    // Version:
                                                                                                                    // Version Date: 27-nov-18
       // Version Date: 27-nov-18
          Version Date: 27 Nov 2018
                                                                                                                    // Version Date: 27 Nov 2018
          Author:
                                                                                                                    // Author:
                          Marc Levy
                                                                                                                                        Marc Levy
          Description : Initial Creation
                                                                                                                    // Description : Initial Creation
        * @file host pkt int tx api class.cpp
                                                                                                                    #include <stdio.h>
        * @author Marc Levy
                                                                                                                    #include <stdlib.h>
        * @brief Initial Creation - Host TX Packet Interface (LPQ) API
        * @version 0.1
                                                                                                                    #include "host pkt int tx api class.h"
        * @date 2018-11-27
                                                                                                                    /* Net driver access with pread, pwrite */
        * @copytight Copyright © 2018 Macnica. All rights reserved.
                                                                                                                    #include <unistd.h>
```

### Adding comments directly to the project codes.

```
150
151
     E/**
       * @brief Reset function
       * @return 0 No error, 1 if Hardware I/O Failure, 2 if Hardware check fail, or module not initi
154
       int host pkt int tx api class::host rst(bool rst)
156
157
          int err;
158
          unsigned int u1;
159
160
          if (!hw check done)
161
162
             return 2;
163
164
165
          u1 = (unsigned int) rst;
166
167
          err = write reg(HOST PKT INT TX CTRL, u1);
168
169
          if (err)
170
171
             err = 1:
172
174
          return err;
175
176
```

```
141
         // Reset function
         // Return Values:
        // 0: No error
 144
 145
        // 1: Hardware I/O Failure
        // 2: Hardware check fail, or module not initialized
        int host pkt int tx api class::host rst(bool rst)
 148
 149
           int err;
 150
           unsigned int u1;
 151
 152
           if (!hw check done)
  153
 154
              return 2;
 155
 156
 157
           u1 = (unsigned int) rst;
 158
 159
           err = write reg(HOST PKT INT TX CTRL, u1);
 160
 161
           if (err)
 162
 163
              err = 1;
 164
 165
 166
           return err;
167
```

Command	Meaning	
\authors	Indicates the author or authors	
\version	Used to indicate version	
\date	Designed to indicate the development date	
\bug	List of known bugs	
\warning	Warning for use	
\copyright	Used license	
\example	The command added to the comment to provide a link to the source with the example (added after the command)	
\todo	Command used to describe the changes that need to be made (TODO).	
\param	\param [ <direction>] <name_param> {param_description}</name_param></direction>	
\return	{return_value_description}	

#### Used literature

- 1) <a href="https://www.doxygen.nl/index.html">https://www.doxygen.nl/index.html</a>
- a) <a href="https://habr.com/ru/post/252101/">https://habr.com/ru/post/252101/</a>
- ☐ 3) <a href="https://cutt.ly/hhjlFXE">https://cutt.ly/hhjlFXE</a>

Thank you for you attention!