# System library 1.00

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# **System Library**

namespace:Lib::System

2 System Library

# **Topic Index**

# 2.1 Topics

Here is a list of all topics with brief descriptions:

System																				,	
Version		 							 											 -10	
Produce Date																				11	1

**Topic Index** 

# **Namespace Index**

# 3.1 Namespace List

Here is a list of all namespaces with brief descriptions:

Lib	 	 				 		 										13
Lib::System																		
System library		 				 		 					 					13

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# **Class Index**

# 4.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Lib::System::Configuration	
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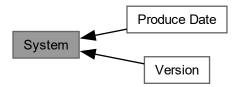
8 Class Index

# **Topic Documentation**

# 5.1 System

# 5.1.1 Detailed Description

Collaboration diagram for System:



# **Topics**

- Version
- Produce Date

10 Topic Documentation

## 5.1.2 Version

### 5.1.2.1 Detailed Description

Collaboration diagram for Version:



#### Classes

- class Lib::System::Version::Hardware Hardware Version.
- class Lib::System::Version::Firmware
   Firmware Version.

### **Variables**

- Version::Firmware Lib::System::System::firmwareVersion

  Instance of the Firmware version.
- Version::Hardware Lib::System::System::hardwareVersion Instance of the Hardware version.

### 5.1.2.2 Variable Documentation

### 5.1.2.2.1 firmwareVersion

Version::Firmware Lib::System::System::firmwareVersion

Instance of the Firmware version.

### 5.1.2.2.2 hardwareVersion

Version::Hardware Lib::System::System::hardwareVersion

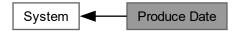
Instance of the Hardware version.

5.1 System 11

## 5.1.3 Produce Date

### 5.1.3.1 Detailed Description

Collaboration diagram for Produce Date:



#### Classes

• class Lib::System::ProduceDate Produce Date class.

### **Variables**

- ProduceDate Lib::System::produceDate
  - Instance of the Produce date.
- ProduceDate Lib::System::System::saleDate

Instance of the Sale date.

### 5.1.3.2 Variable Documentation

## 5.1.3.2.1 produceDate

ProduceDate Lib::System::System::produceDate

Instance of the Produce date.

# 5.1.3.2.2 saleDate

ProduceDate Lib::System::System::saleDate

Instance of the Sale date.

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# **Namespace Documentation**

# 6.1 Lib Namespace Reference

## **Namespaces**

namespace System
 System library.

# 6.2 Lib::System Namespace Reference

# 6.2.1 Detailed Description

System library.

### Classes

· class Configuration

System configuration class.

class Parameters

System parameters class.

class ProduceDate

Produce Date class.

class SerialNumber

Serial Nubmer class.

· class System

System class.

class Version

System Version.

Names	pace	Docur	mentatior

# **Class Documentation**

# 7.1 Lib::System::Configuration Class Reference

# 7.1.1 Detailed Description

System configuration class.

This class stores a configuration word for the system. It defines some constant parameters that the system maintains.

Collaboration diagram for Lib::System::Configuration:

+ Configuration()
+ ~Configuration()
+ operator uint32\_t()
+ operator=()
+ isEmpty()

## **Public Member Functions**

• Configuration (uint32\_t offset)

Configuration ctor.

virtual ∼Configuration ()=default

Configuration dtor.

• operator uint32\_t () const

Reads the value from OTM Rom.

void operator= (uint32\_t value)

Writes value to OTP Rom.

• virtual bool isEmpty () const

Checks if the field in the OTP Flash memory where the date should be empty.

## 7.1.2 Constructor & Destructor Documentation

## 7.1.2.1 Configuration()

```
Lib::System::Configuration::Configuration ( uint32_t offset) [inline]
```

Configuration ctor.

**Parameters** 

```
offset - offset in OTP flash memory
```

## 7.1.2.2 ∼Configuration()

```
virtual Lib::System::Configuration::~Configuration () [virtual], [default]
```

Configuration dtor.

### 7.1.3 Member Function Documentation

### 7.1.3.1 isEmpty()

```
virtual bool Lib::System::Configuration::isEmpty () const [inline], [virtual]
```

Checks if the field in the OTP Flash memory where the date should be empty.

Returns

bool - is empty

Here is the caller graph for this function:



### 7.1.3.2 operator uint32\_t()

```
Lib::System::Configuration::operator uint32_t () const [inline]
```

Reads the value from OTM Rom.

Returns

value

# 7.1.3.3 operator=()

Writes value to OTP Rom.

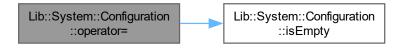
### **Parameters**

value -	value
---------	-------

### Returns

returns true on successful save

Here is the call graph for this function:

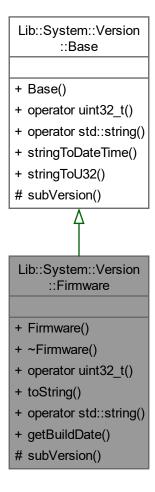


# 7.2 Lib::System::Version::Firmware Class Reference

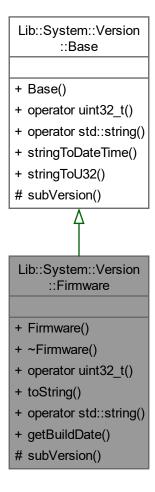
# 7.2.1 Detailed Description

Firmware Version.

Inheritance diagram for Lib::System::Version::Firmware:



Collaboration diagram for Lib::System::Version::Firmware:



### **Public Member Functions**

• Firmware (const std::string &string, uint32\_t subVersion)

Firmware ctor.

• ∼Firmware ()=default

Firmware dtor.

• virtual operator uint32\_t () const

Gets the firmware version.

• virtual std::string toString () const

Converts version to string.

· virtual operator std::string () const

Type convertion operator.

virtual const std::string getBuildDate () const

Gets the build date.

### **Protected Member Functions**

 virtual uint32\_t subVersion () const override Gets a sub version.

#### **Static Protected Member Functions**

- static const Lib::Helper::DateTime stringToDateTime (const char \*timeStr, const char \*dateStr)

  Converts the Date/Time Strings To DateTime.
- static uint32\_t stringToU32 (const std::string &string)

Converts the version string to uint32\_t.

### 7.2.2 Constructor & Destructor Documentation

## 7.2.2.1 Firmware()

Firmware ctor.

**Parameters** 

string

### 7.2.2.2 ∼Firmware()

```
Lib::System::Version::Firmware::~Firmware () [default]
```

Firmware dtor.

### 7.2.3 Member Function Documentation

### 7.2.3.1 getBuildDate()

```
virtual const std::string Lib::System::Version::Firmware::getBuildDate () const [inline],
[virtual]
```

Gets the build date.

Returns

returns a string of the compilation date

Here is the caller graph for this function:



### 7.2.3.2 operator std::string()

```
virtual Lib::System::Version::Firmware::operator std::string () const [inline], [virtual]
```

Type convertion operator.

Returns

std::string

Here is the call graph for this function:



### 7.2.3.3 operator uint32\_t()

```
virtual Lib::System::Version::Firmware::operator uint32_t () const [inline], [virtual]
```

Gets the firmware version.

Returns

uint32\_t

### 7.2.3.4 stringToDateTime()

Converts the Date/Time Strings To DateTime.

### **Parameters**

timeStr	
dateStr	

Returns

DateTime

## 7.2.3.5 stringToU32()

Converts the version string to uint32\_t.

Returns

uint32\_t

Note

format of version string must be  ${\tt x.xx}$ 

### 7.2.3.6 subVersion()

```
virtual uint32_t Lib::System::Version::Firmware::subVersion () const [inline], [override],
[protected], [virtual]
```

Gets a sub version.

Returns

## 7.2.3.7 toString()

virtual std::string Lib::System::Version::Firmware::toString () const [inline], [virtual]

Converts version to string.

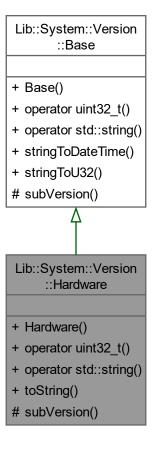
Returns

# 7.3 Lib::System::Version::Hardware Class Reference

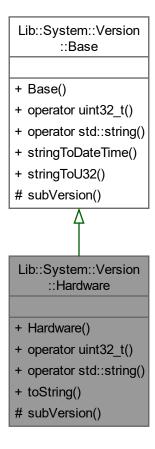
# 7.3.1 Detailed Description

Hardware Version.

Inheritance diagram for Lib::System::Version::Hardware:



Collaboration diagram for Lib::System::Version::Hardware:



# **Public Member Functions**

Hardware (const std::string &string, uint32\_t subVersion)

Hardware version ctor.

• virtual operator uint32\_t () const override

Get Hardware Version.

• virtual operator std::string () const override

Get The Version String.

• virtual std::string toString () const

Convert version to string.

## **Protected Member Functions**

• virtual uint32\_t subVersion () const override

### **Static Protected Member Functions**

• static const Lib::Helper::DateTime stringToDateTime (const char \*timeStr, const char \*dateStr)

Converts the Date/Time Strings To DateTime.

static uint32\_t stringToU32 (const std::string &string)

Converts the version string to uint32\_t.

### 7.3.2 Constructor & Destructor Documentation

### 7.3.2.1 Hardware()

Hardware version ctor.

**Parameters** 

string

### 7.3.3 Member Function Documentation

### 7.3.3.1 operator std::string()

```
virtual Lib::System::Version::Hardware::operator std::string () const [inline], [override],
[virtual]
```

Get The Version String.

Returns

std::string

### 7.3.3.2 operator uint32\_t()

```
virtual Lib::System::Version::Hardware::operator uint32_t () const [inline], [override],
[virtual]
```

Get Hardware Version.

Returns

uint32 t

### 7.3.3.3 stringToDateTime()

Converts the Date/Time Strings To DateTime.

**Parameters** 

timeStr	
dateStr	

Returns

DateTime

## 7.3.3.4 stringToU32()

Converts the version string to uint32\_t.

Returns

uint32 t

Note

format of version string must be  ${\tt x.xx}$ 

### 7.3.3.5 subVersion()

```
virtual uint32_t Lib::System::Version::Hardware::subVersion () const [inline], [override],
[protected], [virtual]
```

### 7.3.3.6 toString()

```
virtual std::string Lib::System::Version::Hardware::toString () const [inline], [virtual]
```

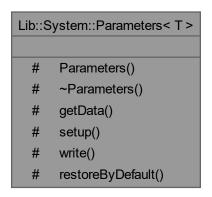
Convert version to string.

Returns

# 7.4 Lib::System::Parameters < T > Class Template Reference

# 7.4.1 Detailed Description

Collaboration diagram for Lib::System::Parameters < T >:



## Classes

• class StorageBase
StorageBase class.

## **Protected Member Functions**

• Parameters (StorageBase \*storage)

Parameters ctor.

•  $\sim$ Parameters ()=default

Parameters dtor.

virtual T & getData ()

Get the reference of data.

• virtual bool setup ()

Setup the storage.

• virtual bool write ()

Write the system parameters data.

• virtual void restoreByDefault ()=0

## 7.4.2 Constructor & Destructor Documentation

### 7.4.2.1 Parameters()

Parameters ctor.

**Parameters** 

```
storage - pointer to storage instance
```

## 7.4.2.2 ~Parameters()

```
template<class T >
Lib::System::Parameters< T >::~Parameters () [protected], [default]
```

Parameters dtor.

### 7.4.3 Member Function Documentation

### 7.4.3.1 getData()

```
template<class T >
virtual T & Lib::System::Parameters< T >::getData () [inline], [protected], [virtual]
```

Get the reference of data.

Returns

## 7.4.3.2 restoreByDefault()

```
template<class T >
virtual void Lib::System::Parameters< T >::restoreByDefault () [protected], [pure virtual]
```

Here is the caller graph for this function:



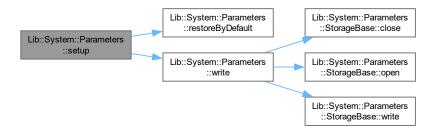
### 7.4.3.3 setup()

```
template<class T >
virtual bool Lib::System::Parameters< T >::setup () [inline], [protected], [virtual]
```

Setup the storage.

Returns

Here is the call graph for this function:



### 7.4.3.4 write()

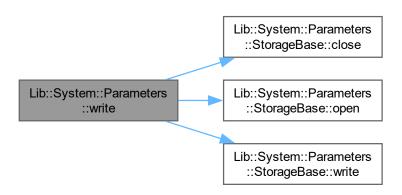
```
template<class T >
virtual bool Lib::System::Parameters< T >::write () [inline], [protected], [virtual]
```

Write the system parameters data.

Returns

true if success

Here is the call graph for this function:



Here is the caller graph for this function:

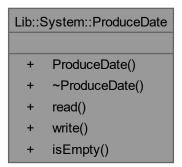


# 7.5 Lib::System::ProduceDate Class Reference

# 7.5.1 Detailed Description

Produce Date class.

Collaboration diagram for Lib::System::ProduceDate:



# **Public Types**

• using DateTime = Lib::Helper::DateTime

#### **Public Member Functions**

ProduceDate (uint32\_t offset)

ProduceDate ctor.

virtual ∼ProduceDate ()=default

Produce Date dtor.

· virtual bool read (DateTime &result) const

Read the Produce Date.

• virtual bool write (const DateTime &value)

Write Produce Date in OTP ROM.

• virtual bool isEmpty () const

Checks if the field in the OTP Flash memory where the date should be empty.

# 7.5.2 Member Typedef Documentation

#### 7.5.2.1 DateTime

using Lib::System::ProduceDate::DateTime = Lib::Helper::DateTime

#### 7.5.3 Constructor & Destructor Documentation

#### 7.5.3.1 ProduceDate()

ProduceDate ctor.

**Parameters** 

```
offset - offset in OTP Flash Memory
```

#### 7.5.3.2 ∼ProduceDate()

```
virtual Lib::System::ProduceDate::~ProduceDate () [virtual], [default]
```

Produce Date dtor.

# 7.5.4 Member Function Documentation

# 7.5.4.1 isEmpty()

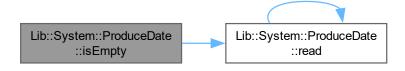
```
virtual bool Lib::System::ProduceDate::isEmpty () const [inline], [virtual]
```

Checks if the field in the OTP Flash memory where the date should be empty.

Returns

bool - is empty

Here is the call graph for this function:



Here is the caller graph for this function:



# 7.5.4.2 read()

Read the Produce Date.

#### **Parameters**

result reference to result	
----------------------------	--

# Returns

bool

Here is the call graph for this function:



Here is the caller graph for this function:



# 7.5.4.3 write()

Write Produce Date in OTP ROM.

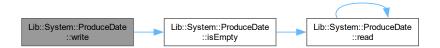
#### **Parameters**

```
value - reference to DateTime instance
```

#### Returns

bool - truth in a successful record

Here is the call graph for this function:



# 7.6 Lib::System::SerialNumber Class Reference

# 7.6.1 Detailed Description

Serial Nubmer class.

Collaboration diagram for Lib::System::SerialNumber:

# + SerialNumber() + ~SerialNumber() + operator uint32\_t() + operator std::string() + toString()

# **Public Member Functions**

• SerialNumber ()

Serial Number ctor.

virtual ∼SerialNumber ()=default

Serial Number dtor.

• virtual operator uint32\_t () const

Type Convertion operator.

• virtual operator std::string () const

Type Convertion operator.

• virtual std::string toString () const

get Serial Number as string

# 7.6.2 Constructor & Destructor Documentation

#### 7.6.2.1 SerialNumber()

```
Lib::System::SerialNumber::SerialNumber () [inline]
```

Serial Number ctor.

# 7.6.2.2 ∼SerialNumber()

```
\label{lib::System::SerialNumber::} \verb|\| SerialNumber::| \verb|\| SerialNumber::| one of the context of the conte
```

Serial Number dtor.

# 7.6.3 Member Function Documentation

# 7.6.3.1 operator std::string()

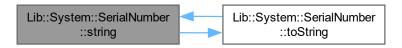
```
virtual Lib::System::SerialNumber::operator std::string () const [inline], [virtual]
```

Type Convertion operator.

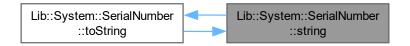
Returns

uint32\_t

Here is the call graph for this function:



Here is the caller graph for this function:



# 7.6.3.2 operator uint32\_t()

virtual Lib::System::SerialNumber::operator uint32\_t () const [inline], [virtual]

Type Convertion operator.

Returns

uint32\_t

# 7.6.3.3 toString()

virtual std::string Lib::System::SerialNumber::toString () const [inline], [virtual]

get Serial Number as string

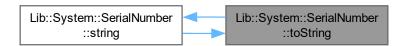
Returns

const std::string

Here is the call graph for this function:



Here is the caller graph for this function:



# 7.7 Lib::System::Parameters < T >::StorageBase Class Reference

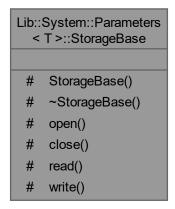
# 7.7.1 Detailed Description

 $template\!<\!class\;T\!>$ 

 $class\ Lib:: System:: Parameters < T>:: Storage Base$ 

StorageBase class.

Collaboration diagram for Lib::System::Parameters < T >::StorageBase:



#### **Protected Member Functions**

• StorageBase ()=default

Storage Base ctor.

- virtual  $\sim$ StorageBase ()=default
- virtual bool open ()=0

 $Open \ the \ \_storage.$ 

• virtual bool close ()=0

Close the \_storage.

• virtual bool read (void \*dst, size\_t len)=0

Read the parameters data.

virtual bool write (void \*src, size\_t len)=0

Write the parameters data.

#### **Friends**

class Parameters

# 7.7.2 Constructor & Destructor Documentation

# 7.7.2.1 StorageBase()

```
template<class T >
Lib::System::Parameters< T >::StorageBase::StorageBase () [protected], [default]
```

Storage Base ctor.

# 7.7.2.2 ∼StorageBase()

```
template<class T >
virtual Lib::System::Parameters< T >::StorageBase::~StorageBase () [protected], [virtual],
[default]
```

# 7.7.3 Member Function Documentation

# 7.7.3.1 close()

```
template<class T >
virtual bool Lib::System::Parameters< T >::StorageBase::close () [protected], [pure virtual]
```

Close the \_storage.

Returns

Here is the caller graph for this function:



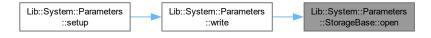
# 7.7.3.2 open()

```
template<class T >
virtual bool Lib::System::Parameters< T >::StorageBase::open () [protected], [pure virtual]
```

Open the \_storage.

Returns

Here is the caller graph for this function:



# 7.7.3.3 read()

Read the parameters data.

Returns

# 7.7.3.4 write()

Write the parameters data.

Returns

Here is the caller graph for this function:



# 7.7.4 Friends And Related Symbol Documentation

# 7.7.4.1 Parameters

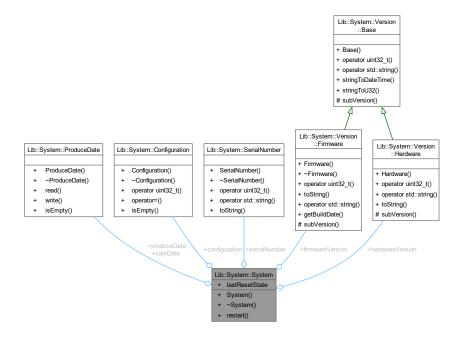
```
template<class T >
friend class Parameters [friend]
```

# 7.8 Lib::System::System Class Reference

# 7.8.1 Detailed Description

System class.

Collaboration diagram for Lib::System::System:



# **Public Types**

• using LastResetState = Lib::HAL::LastResetState::State

# **Public Member Functions**

• System (const std::string &fwVersionString, uint32\_t fwSubversion, const std::string &hwVersionString, uint32\_t hwSubversion)

System ctor.

• ∼System ()=default

System dtor.

· void restart ()

Restarts the system.

# **Public Attributes**

· LastResetState lastResetState

Instance of the Last reset state.

• ProduceDate produceDate

Instance of the Produce date.

• ProduceDate saleDate

Instance of the Sale date.

• Configuration configuration

Instance of the System configuration word.

• SerialNumber serialNumber

Instance of the system serial number.

Version::Firmware firmwareVersion

Instance of the Firmware version.

· Version::Hardware hardwareVersion

Instance of the Hardware version.

# 7.8.2 Member Typedef Documentation

# 7.8.2.1 LastResetState

```
using Lib::System::System::LastResetState = Lib::HAL::LastResetState::State
```

# 7.8.3 Constructor & Destructor Documentation

# 7.8.3.1 System()

#### System ctor.

#### **Parameters**

fwVersionString	Firmware version string
fwSubversion	Firmware sub-version
hwVersionString	Hardware version string
hwSubversion	Hardware sub-version

# 7.8.3.2 $\sim$ System()

```
Lib::System::~System () [default]
```

# System dtor.

# 7.8.4 Member Function Documentation

# 7.8.4.1 restart()

void Lib::System::System::restart () [inline]

Restarts the system.

# 7.8.5 Member Data Documentation

# 7.8.5.1 configuration

Configuration Lib::System::Configuration

Instance of the System configuration word.

#### 7.8.5.2 lastResetState

LastResetState Lib::System::System::lastResetState

Instance of the Last reset state.

# 7.8.5.3 serialNumber

SerialNumber Lib::System::System::serialNumber

Instance of the system serial number.

# 7.9 Lib::System::Version Class Reference

# 7.9.1 Detailed Description

System Version.

Collaboration diagram for Lib::System::Version:

Lib::System::Version

# Classes

- class Firmware
  - Firmware Version.
- class Hardware

Hardware Version.

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