Motivation:		
To overcome <b>native switch</b> limitation	ns:	
<ul><li>one parameter per switch</li><li>the parameter restricted to only</li></ul>	integral types( int	char, enum).
<pre>eswitch supports any number of parari.e. has operator== ).</pre>	meters and almost	vithout restriction on their type, as long as the type is
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Why it is important?		
	d 4 1 G	
Here is the most viewed questions on		_
FEATURE	VIEWS	
Multiple conditions in switch case <sup>[7]</sup>	850k	
Switch for string[1]	693k	7
Case match in range <sup>[9]</sup>	133k	7

Over a million views indicate how many people out there are disappointed with limited functionality of **switch**. Building parallels with such operators as **if/while**... it is expected by default that **switch** should have the same possibilities:

- be able to work with **non-integral** types as well
- be able to compose complex conditions like we do in other operators if/while...

Unfortunately it is not the case up till now, despite of the fact that there were attempts to extend **switch** functionality before.

There was a proposal in 2013 "Relaxed switch statement" [12], and committee agreed about importance of this topic [13]. There also was "StringSwitch" [11] implementation by LLVM and "Case ranges" [10] non-standard extension which is supported by gcc, intel C/C++ and clang. Nevertheless, we still don't have common and universal solution. People want to overcome current switch limitation either by implementing their own solution, non-standard extension or even trying to standardize it.

Making proposed **eswitch** functionality part of the **Boost-Library** will provide millions of developers useful, universal and agile functionality in order to finally fulfill their needs.

Repository:	
https://github.com/rabdumalikov/eswitch	<u>v4</u>
References:	

## "switch for string" on stackoverflow

- 1. https://stackoverflow.com/questions/650162/why-the-switch-statement-cannot-be-applied-on-strings
- 2. https://stackoverflow.com/questions/16388510/evaluate-a-string-with-a-switch-in-c
- 3. https://stackoverflow.com/questions/5452188/switch-case-statement-in-c-with-a-gstring-type
- 4. https://stackoverflow.com/questions/19273092/character-in-switch-statement-c
- 5. https://stackoverflow.com/questions/4165131/c-c-switch-for-non-integers
- 6. https://stackoverflow.com/questions/27536575/switch-case-on-char

### "Multiple conditions" on stackoverflow

- 7. https://stackoverflow.com/questions/8644096/multiple-conditions-in-switch-case
- 8. https://stackoverflow.com/questions/68578/multiple-cases-in-switch-statement

#### "Ranges in case" on stackoverflow

9. https://stackoverflow.com/questions/9432226/how-do-i-select-a-range-of-values-in-a-switch-statement/24133078# 24133078

## "Case ranges" - non-standard extension

10. https://gcc.gnu.org/onlinedocs/gcc/Case-Ranges.html

# LLVM "StringSwitch"

11. http://llvm.org/doxygen/classllvm\_1\_1StringSwitch.html

"Relaxed switch statement" proposal
12. http://www.open-std.org/jtc1/sc22/wg21/docs/papers/2013/n3627.html

# "N3627 Relaxed switch statement" c++ committee status

13. <a href="https://cplusplus.github.io/EWG/ewg-active.html">https://cplusplus.github.io/EWG/ewg-active.html</a>