

Wandi-SASL Capabilities	<i>Free</i>	<i>Silver</i>	<i>Gold</i>
Simple APIs			
LoggerStartUp() starts the logger.	x	x	x
LoggerAppMsg() logs message using printf() format style.			
LoggerShutDown() stops the logger.			
Robust APIs			
Fail safe APIs to minimize abnormal impact to applications.	x	x	x
Informational codes provide details about API execution behavior.	x	x	x
LoggerStartUp() allocates internal data and starts services.	x	x	x
LoggerAppMsg() analyzes and validates log message.	x		
LoggerAppMsg() analyzes and validates log message, encodes to reduce storage capacity and protects using confidentiality, integrity, and authenticity.		x	x
LoggerShutDown() frees internal data and stops services.		x	x
Adjustable Parameters			
Number of format string specifiers types per log message.	1y	x	x
Different types of format string specifiers.	2y	x	x
Length for format string specifier %s arguments.	3y	x	x
Length for message format string specification.	4y	x	x
Subset of ASCII characters for both format string specification and string argument.	5y	x	x
Number of severity id=value pairs and length of value string.	6y	x	x
Number of logical message grouping id=value pairs and length of value string.	7y	x	x
Number of unique format strings.			x
Multiple sequential log files each limited to N messages.			x
One log file with the most recent N log messages.		x	
One log file with all log messages.	x		
Generate all log messages during development only.	x	x	x
Generate all log messages in production only.			x
Select log messages for production environment only.			x
Fault Prevention			
Invalid NULL, 0, -1 pointer for %s format string specifier.	x	x	x
String argument that is not properly NULL terminated.	x	x	x
Untrusted or malicious format string specifiers.	x	x	x
Ill-formed or non-standard format specifiers.	x	x	x
Cybersecurity			
Decompose and encode to protect arguments/value separately.			x
Encrypt log messages for confidentiality.			x
Hash and sign log messages for integrity.			x
Certify log messages for authenticity.			x
Separation of duties for logging and viewing log messages.			x
OpenSSL/TLS Certificate Authority support.			x
OpenSSL/TLS for secure communication.			x
Error codes reporting instead of verbose text descriptions.	x	x	x
Log file viewed by only authenticated users.			x
Fail safe and robust APIs.	x	x	x

Log message protected before written to disk.			X
Reduce Storage			
Encode log messages to reduce RAM storage usage.			X
Encode log messages to reduce disk storage usage.			X
Remove duplicate log message format strings to reduce storage needs.			X
Fixed size circular RAM queue for fast access and processing.			X
Fixed size circular RAM queue to report the most recent N number of log messages			
Output Log Message File			
Log message files are protected on disk.			X
Protected log message files are viewable using a browser command.			X
Log message file name includes date, timestamp, and sequence number.	X	X	X
Deployable Architectures			
Single processor secure deployment.		X	X
Multi-processor secure deployment.			X
Lightweight library for user application.	X	X	X
Single-processor unsecure deployment.	X	X	
Multi-processor unsecure deployment.		X	
AI Capabilities			
AI to support near real-time analysis of log messages.			
AI to support on-demand reporting of log messages.			
These adjustable parameters are fixed for the Free Version			
<p>The Free version Adjustable Parameters are fixed as follows:</p> <ul style="list-style-type: none"> • 1y – Maximum number of format string specifier types allowed per message is 6. • 2y – Different types of supported format string specifiers are %s, %d, %f, %c, %x, %p. • 3y – Maximum length for format string specifier %s argument is 64 characters. • 4y – Maximum length format string specification is 256 characters. • 5y - Subset of ASCII characters allowed are upper/lower case alphanumeric and !"#%&'()*+,-./:;<=>@[\\]^_{}~ characters. • 6y – Maximum number of severity levels is 4 and length of value is 8 characters. • 7y – Maximum number of logical message groups is 32 and length of value is 16 characters. 			