

16 Zabbix sender dynamic link library for Windows

In a Windows environment applications can send data to Zabbix server/proxy directly by using the Zabbix sender dynamic link library (zabbix_sender.dll) instead of having to launch an external process (zabbix_sender.exe).

The dynamic link library with the development files is located in bin\winXX\dev folders. To use it, include the zabbix_sender.h header file and link with the zabbix_sender.lib library. An example file with Zabbix sender API usage can be found in build\win32\examples\zabbix_sender folder.

The following functionality is provided by the Zabbix sender dynamic link library:

int zabbix_sender_send_values(const char *address, unsigned short port, const char *source, const zabbix_sender_value_t *values, int count, char **result);
Description
Sends an array of value structures to the proxy/server. A value structure contains host name, item key and item value. <i>Note:</i> Windows sockets must be initialized with WSStartup call before using the zabbix_sender_send_values function.
Parameters
address - [in] the server/proxy address port - [in] the trapper port on the server/proxy source - [in] the source IP (optional) values - [in] an array of values to send count - [in] the number of items in values array result - [out] the server response or an error message (optional)
Return value
0 - operation completed successfully -1 - operation failed
Comments
If the result variable is specified this function allocates the necessary memory to store server response/error message. It must be always freed afterwards with zabbix_sender_free_result() function. If operation was successful the result contains server response which can be parsed with zabbix_sender_parse_result() function. In the case of error the error message will be stored into result instead.
int zabbix_sender_parse_result(const char *result, int *response, zabbix_sender_info_t *info);
Description
Parses the result returned from zabbix_sender_send_values() function.
Parameters
result - [in] the result returned by zabbix_sender_send_values() function. response - [out] the operation response: 0 - success, -1 failed. info - [out] the detailed information about operation, optional.
Return value
0 - operation completed successfully -1 - operation failed
Comments

If info parameter was specified, but the function failed to parse the result info field, then the info structure field total is set to -1.

```
void zabbix_sender_free_result(void *result);
```

Description

Frees data allocated by zabbix_sender_send_values() function.

Parameters

result - the result returned by zabbix_sender_send_values() function.

The following data structures are used by the Zabbix sender dynamic link library:

```
typedef struct
{
    /* host name, must match the name of target host in Zabbix */
    char    *host;
    /* the item key */
    char    *key;
    /* the item value */
    char    *value;
}
zabbix_sender_value_t;

typedef struct
{
    /* number of total values processed */
    int    total;
    /* number of failed values */
    int    failed;
    /* time in seconds the server spent processing the sent values */
    double    time_spent;
}
zabbix_sender_info_t;
```

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<https://www.zabbix.com/documentation/5.0/> - **Zabbix Documentation 5.0**

Permanent link:

https://www.zabbix.com/documentation/5.0/manual/appendix/zabbix_sender_dll

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