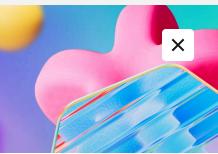
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## 3.2.4.3 NetrWkstaUserEnum (Opnum 2)

Article • 04/27/2022

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The NetrWkstaUserEnum method returns details about users who are currently active on a remote computer.

unsigned long NetrWkstaUserEnum( [in, string, unique] WKSSVC\_IDENTIFY\_HANDLE ServerName, [in, out] LPWKSTA\_USER\_ENUM\_STRUCT UserInfo,

2)
3.2.4.4
NetrWkstaTran
sportEnum
(Opnum 5)

```
[in] unsigned long PreferredMaximumLength,
  [out] unsigned long* TotalEntries,
  [in, out, unique] unsigned long* ResumeHandle
);
```

ServerName: A WKSSVC\_IDENTIFY\_HANDLE structure (section 2.2.2.1) that identifies the server (2). The client MUST map this structure to an RPC binding handle ([C706] ☑ sections 4.3.5 and 5.1.5.2). The server MUST ignore this parameter.

**UserInfo**: A pointer to the buffer to receive the data. The data MUST be returned as a **WKSTA\_USER\_ENUM\_STRUCT** structure (section 2.2.5.14) that contains a **Level** member that specifies the type of structure to return.

**PreferredMaximumLength:** The number of bytes to allocate for the return data.

**TotalEntries:** The total number of entries that could have been enumerated if the buffer were big enough to hold all the entries.

ResumeHandle: A pointer that, if specified, and if this method returns ERROR\_MORE\_DATA, MUST receive an implementation-specific value<34> that can be passed in subsequent calls to this method, to continue with the enumeration of currently logged-on users.

If this parameter is NULL or points to zero, the enumeration MUST start from the beginning of the list of currently logged-on users.

**Return Values:** When the message processing result matches the description in column two of the following table, this method MUST return one of the following values ([MS-ERREF] section 2.2). The most common error codes are listed in the following table.

**Expand table** 

Value/code	Meaning
NERR_Success	The operation completed successfully.

0x00000000	
ERROR_ACCESS_DENIED	Access is denied.
0x0000005	
ERROR_INVALID_LEVEL	The information level is invalid.
0x0000007C	
ERROR_MORE_DATA	More entries are available. The <i>UserInfo</i> buffer was
0x000000EA	not large enough to contain all the entries.

Any other return value MUST conform to the error code requirements in **Protocol Details** (section 3).

The server (2) SHOULD<35> enforce security measures to verify that the caller has the required permissions to execute this routine. If the server enforces security measures, and the caller does not have the required credentials, the server MUST fail the call with ERROR\_ACCESS\_DENIED. Specifications for determining the identity of the caller for the purpose of performing an access check are in [MS-RPCE] section 3.3.3.1.3.

If the **Level** member of the **WKSTA\_USER\_ENUM\_STRUCT** structure passed in the *UserInfo* parameter does not equal 0x00000000 or 0x00000001, the server MUST fail the call.

If the **Level** member equals 0x00000000, the server MUST return an array of the names of users currently logged on the computer by filling the **WKSTA\_USER\_INFO\_0\_CONTAINER** structure (section 2.2.5.14) in the **WkstaUserInfo** field of the *UserInfo* parameter.

If the **Level** member equals 0x00000001, the server MUST return an array of the names and domain details of each user currently logged on the computer, and a list of **OtherDomains** (section 3.2.1.3) in the computer.

If the *PreferredMaximumLength* parameter equals

MAX\_PREFERRED\_LENGTH (section 2.2.1.3), the server MUST return all

the requested data. Otherwise, if the *PreferredMaximumLength* is insufficient to hold all the entries, then the server MUST return the maximum number of entries that fit in the *UserInfo* buffer and return ERROR\_MORE\_DATA.

The following rules specify processing of the *ResumeHandle* parameter:

- If the ResumeHandle parameter is either NULL or points to 0x00000000, the enumeration MUST start from the beginning of the list of the currently logged on users.<36>
- If the ResumeHandle parameter points to a non-zero value, the server MUST continue enumeration based on the value of ResumeHandle. The server is not required to maintain any state between calls to the NetrWkstaUserEnum method.
- If the client specifies a *ResumeHandle*, and if the server returns ERROR\_MORE\_DATA, the server MUST set the value to which *ResumeHandle* points to an implementation-specific value that allow the server to continue with this enumeration on a subsequent call to this method, with the same value for *ResumeHandle*.

The server is not required to maintain any state between calls to the NetrWkstaUserEnum method. If the server returns NERR\_Success or ERROR\_MORE\_DATA, it MUST set the *TotalEntries* parameter to equal the total number of entries that could have been enumerated from the current resume position.

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