

# **《Upgrade Instructions for Data Interface LANDCex.dll》**

Wuhan LAND Electronics Co., Ltd

<http://www.whland.com>

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## 一、To LAND Customers

With the upgrade of software version, the data interface LANDCex.dll file has experienced a big adjustment and upgrade. The reason of such upgrade is that we hope to build a set of interface functions that can support various programming languages, and can be more general, more stable and unchangeable.

In order to help you use and understand these upgrade functions correctly, we write this upgrade instructions and also apologize for the inconvenience caused by the upgrade of files.

## 二、Brief description of Upgrade

Data interface changes include function upgrade (replacement of old and new functions) and partial function non-use. The old version function is upgraded to the new version function, which is completely replaced of old version function. The content is detailed in the old and new interface function comparison table. The old version interface function is now out of use, and its function is completely replaced by the upgraded function.

## 三、Interface Function Comparison Table (Current Version: LANDCEX\_DLL\_VER\_0\_3\_1\_3)

1. All **BOOL** (4 bytes) are upgraded to **bool** (1 byte).
2. The original two parameters **SUBTAB subTable** and **int nColIndex** are upgraded to a parameter **UINT columnID** (see CexConst.h).
3. The comparison table of the upgrade interface functions is as follows:

Index	Old version	New version
1	_variant_t __stdcall GetDescOfMode(BYTE cMode)	bool __stdcall GetDescriptionOfMode(BYTE cMode, VARIANT& vDesc);
2	Int __stdcall GetRows(HANDLE hDataObj, SUBTAB subTable)	int __stdcall GetRows(HANDLE hDataObj, UINT columnID) or: int __stdcall GetRows2(HANDLE hDataObj, const char* pszColIdStr)
3	_variant_t __stdcall GetData(HANDLE hDataObj, SUBTAB subTable, int nColIndex, int nRowIndex)	bool __stdcall GetDataEx(HANDLE hDataObj, UINT columnID, int nRow, VARIANT& vData) or: bool __stdcall GetDataEx2(HANDLE hDataObj, const char* pszColIdStr, int nRow, VARIANT& vData) or(Optional, but must ensure that it matches the type of data accessed): float __stdcall GetDataAsFloat(HANDLE hDataObj, UINT columnID, int nRow) BYTE __stdcall GetDataAsByte(HANDLE hDataObj, UINT columnID, int nRow)

4	_variant_t __stdcall GetDescOfCol(SUBTAB subTable, int nCollIndex)	bool __stdcall GetDescriptionOfColumn(UINT columnID, VARIANT& vDesc)
5	_variant_t __stdcall GetUnitNameOfCol(HANDLE hDataObj, SUBTAB subTable, int nCollIndex)	bool __stdcall GetUnitNameOfColumn(HANDLE hDataObj, UINT columnID, VARIANT& vName)
6	int __stdcall GetStartRecFromCycle(HANDLE hDataObj, int nCycleIndex)	int __stdcall GetFirstRecOfCycle(HANDLE hDataObj, int nCycle)
7	int __stdcall GetEndRecFromCycle(HANDLE hDataObj, int nCycleIndex)	int __stdcall GetLastRecOfCycle(HANDLE hDataObj, int nCycle)
8	int __stdcall GetChargeStartRecFromCycle(HANDLE hDataObj, int nCycleIndex)	int __stdcall GetFirstChargeRecOfCycle(HANDLE hDataObj, int nCycle)
9	int __stdcall GetChargeEndRecFromCycle(HANDLE hDataObj, int nCycleIndex)	int __stdcall GetLastChargeRecOfCycle(HANDLE hDataObj, int nCycle)
10	int __stdcall GetDischStartRecFromCycle(HANDLE hDataObj, int nCycleIndex)	int __stdcall GetFirstDischRecOfCycle(HANDLE hDataObj, int nCycle)
11	int __stdcall GetDischEndRecFromCycle(HANDLE hDataObj, int nCycleIndex)	int __stdcall GetLastDischRecOfCycle(HANDLE hDataObj, int nCycle)
12	int __stdcall GetStartRecFromPro(HANDLE hDataObj, int nProIndex)	int __stdcall GetFirstRecOfProc(HANDLE hDataObj, int nProc)
13	int __stdcall GetEndRecFromPro(HANDLE hDataObj, int nProIndex)	int __stdcall GetLastRecOfProc(HANDLE hDataObj, int nProc)
14	int __stdcall GetStartProFromCycle(HANDLE hDataObj, int nCycleIndex)	int __stdcall GetFirstProcOfCycle(HANDLE hDataObj, int nCycle)
15	int __stdcall GetEndProFromCycle(HANDLE hDataObj, int nCycleIndex)	int __stdcall GetLastProcOfCycle(HANDLE hDataObj, int nCycle)
16	int __stdcall GetChargeStartProFromCycle(HANDLE hDataObj, int nCycleIndex)	int __stdcall GetFirstChargeProcOfCycle(HANDLE hDataObj, int nCycle)
17	int __stdcall GetChargeEndProFromCycle(HANDLE hDataObj, int nCycleIndex)	int __stdcall GetLastChargeProcOfCycle(HANDLE hDataObj, int nCycle)
18	int __stdcall GetDischStartProFromCycle(HANDLE hDataObj, int nCycleIndex)	int __stdcall GetFirstDischProcOfCycle(HANDLE hDataObj, int nCycle)
19	int __stdcall GetDischEndProFromCycle(HANDLE hDataObj, int nCycleIndex)	int __stdcall GetLastDischProcOfCycle(HANDLE hDataObj, int nCycle)
20	_variant_t __stdcall GetProcedureName(HANDLE hDataObj, int nIndex, long* pnHappenTime)	bool __stdcall GetProcedureName(HANDLE hDataObj, VARIANT& vName, int nIndex, long* pnHappenTime)

