**The BDS2 Visual Basic Application Protocol Interface**

The BDS2 VB API is a wrapper interface to the BDS2 C++ (CPP) API.

**BDS2 DLL Information Functions:**

VbGetDLLRevision interfaces to the bds2dll\_getDLLRevision function to retrieve the BDS2 CPP DLL revision information.

VbFinalize interfaces to the bds2dll\_finalize function to finalize/cleanup the CPP DLL.

**BDS2 Connection Functions:**

VbConnectTCPIP interfaces to the bds2dll\_connectTCPIP function to establish a connection to the target BDS2.

VbdDisconnect interfaces to the bds2dll\_disconnect function to disconnect from the target BDS2.

**BDS2 Information Functions:**

VbGetBDS2Revision interfaces to the bds2dll\_getBDS2Revision function to retrieve the revision information of the target BDS2.

VbSetSystemTime interfaces to the bds2dll\_setSystemTime function to retrieve the date and time of the target BDS2.

VbGetSystemTime interfaces to the bds2dll\_getSystemTimeto function to set the target BDS2 date and time.

VbGetSystemInfo interfaces to the bds2dll\_getSystemInfo function to retrieve the target BDS2 receiver, cable and probe information such as component name, model and serial number.

**BDS2 Gain Settings Functions:**

VbInitAttenuation interfaces to the bds2dll\_initAttenuation function to initialize the Gain structure.

VbSetAttenuation interfaces to the bds2dll\_setAttenuation function to set the target BDS2 Gain.

VbGetAttenuationinterfaces to the bds2dll\_getAttenuation function to retrieve the target BDS2 Gain.

**BDS2 Tracking Configuration Functions:**

VbSetAvgConfig interfaces to the bds2dll\_setAvgConfig function to set the target BDS2 average configuration.

VbInitStdConfig interfaces to the bds2dll\_initStdConfig function to initialize the target BDS2 tracking configuration.

VbSetStdConfig interfaces to the bds2dll\_setStdConfig function to set the target BDS2 tracking configuration.

VbGetStdConfig interfaces to the bds2dll\_getStdConfig function to get the target BDS2 tracking configuration.

**BDS2 Data Collection Functions:**

VbStartScan interfaces to the bds2dll\_startScan function to start the target BDS2 data collection.

VbStopScan interfaces to the bds2dll\_stopScan function to stop the target BDS2 data collection.

VbGetStdNumMeasurements interfaces to the bds2dll\_getStdNumMeasurements function to retrieve the number of measurements required.

VbGetStdSingleDataset interfaces to the bds2dll\_getStdSingleDataset function to collect the target BDS2 data.

VbGetLastError interfaces to the bds2dll\_getLastError function to retrieve the target BDS2 or BDS2 DLL last error.

**VB API Helper Functions:**

VbConvertStringToInt converts a VB string to an integer.

VbConvertBytesToString converts a VB byte array into a string.

VbInitFunds initializes the fundamental structure and buffers.

VbInitStates initializes the states structure and buffers.