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# SosenProgrammer API

## V1.0

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Note: The DLL folder is placed under the sibling directory of the executable EXE.

## 1. Version

Construct a function that reads version data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecBuildGetVersion(  
    /*OUT*/char* lpOutputBuffer,  
    /*IN,OUT*/int* lpnOutputSize  
);
```

**lpOutputBuffer**    The output data holds the buffer.

**lpnOutputSize**    The length of the data.

Decode the function that reads version data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecDecodeGetVersion(  
    /**/char* lpVersion,  
    /*IN,OUT*/int* lpnOutputSize,  
    /*IN*/char* lpInputBuffer,  
    /*IN*/int nInputSize  
);
```

**lpVersion**    Version number.

**lpnOutputSize**    Output data length.



**lpInputBuffer**      Input data holds the buffer.

**nInputSize**      The length of the data.

## 2. Save

Construct a function that holds the data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecBuildGetSave(  
    /*OUT*/char* lpOutputBuffer,  
    /*IN,OUT*/int* lpnOutputSize  
);
```

**lpOutputBuffer**      The output data holds the buffer.

**lpnOutputSize**      The length of the data.

Decode the function that holds the data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecDecodeGetSave(  
    /*0/1*/int* lpnSave,  
    /*IN*/char* lpInputBuffer,  
    /*IN*/int nInputSize  
);
```

**lpnSave**      Whether the save was successful.

**lpInputBuffer**      Input data holds the buffer.

**nInputSize**      The length of the data.

### 3. Set Working Current

Construct a function that reads current data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecBuildGetIset(  
    /*OUT*/char* lpOutputBuffer,  
    /*IN,OUT*/int* lpnOutputSize  
);
```

**lpOutputBuffer**    The output data holds the buffer.

**lpnOutputSize**    The length of the data.

Decode the function that reads the current data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecDecodeGetIset(  
    /*mA*/int* lpnlset,  
    /*mA*/int nlmax,  
    /*IN*/char* lpInputBuffer,  
    /*IN*/int nInputSize  
);
```

**lpnlset**    Percentage of current.

**nlmax**    Maximum current.



**lpInputBuffer**      Input data holds the buffer.

**nlInputSize**      The length of the data.

Construct a function that writes current data.

**SSCOMM\_CODEC\_API int SosenProgrammerCodecBuildSetIset(**

**/\*mA\*/int nlset,**

**/\*mA\*/int nlmax,**

**/\*OUT\*/char\* lpOutputBuffer,**

**/\*IN,OUT\*/int\* lpnOutputSize**

**);**

**nlset**      Percentage of current.

**nlmax**      Maximum current.

**lpOutputBuffer**      The output data holds the buffer.

**lpnOutputSize**      The length of the data.

Decode the function of writing current data.

**SSCOMM\_CODEC\_API int SosenProgrammerCodecDecodeSetIset(**

**/\*mA\*/int nlset,**

**/\*mA\*/int nlmax,**

**/\*IN\*/char\* lpInputBuffer,**

**/\*IN\*/int nlInputSize**



);

**nlset** Percentage of current.

**nlmax** Maximum current.

**lpInputBuffer** Input data holds the buffer.

**nlInputSize** The length of the data.

## 4. Set Working Voltage

Construct a function that reads voltage data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecBuildGetVset(
```

```
    /*OUT*/char* lpOutputBuffer,
```

```
    /*IN,OUT*/int* lpnOutputSize
```

```
);
```

**lpOutputBuffer** The output data holds the buffer.

**lpnOutputSize** The length of the data.

Decode the function that reads the voltage data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecDecodeGetVset(
```

```
    /*mV*/int* lpnVset,
```

```
    /*mV*/int nVmax,
```

```
    /*IN*/char* lpInputBuffer,
```

```
    /*IN*/int nInputSize
```



);

**lpnVset**      Voltage percentage.

**nVmax**      Maximum voltage.

**lpInputBuffer**      Input data holds the buffer.

**lnInputSize**      The length of the data.

Construct a function that writes voltage data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecBuildSetVset(
```

```
    /*mV*/int nVset,
```

```
    /*mV*/int nVmax,
```

```
    /*OUT*/char* lpOutputBuffer,
```

```
    /*IN,OUT*/int* lpnOutputSize
```

```
);
```

**nVset**      Voltage percentage.

**nVmax**      Maximum voltage.

**lpOutputBuffer**      The output data holds the buffer.

**lpnOutputSize**      The length of the data.

Decode the function of writing voltage data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecDecodeSetVset(
```

```
    /*mV*/int* lpnVset,
```

```
/*mV*/int nVmax,
```

```
/*IN*/char* lpInputBuffer,
```

```
/*IN*/int nInputSize
```

```
);
```

**lpnVset**      Voltage percentage.

**nVmax**      Maximum voltage.

**lpInputBuffer**      Input data holds the buffer.

**nInputSize**      The length of the data.

## 5. Adjust Output Current

Adjust the scope:

**-12.7% <= lpnladjust <= 12.7%**

Construct a function that reads adjustment data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecBuildGetladjust(
```

```
/*OUT*/char* lpOutputBuffer,
```

```
/*IN,OUT*/int* lpnOutputSize
```

```
);
```

**lpOutputBuffer**      The output data holds the buffer..

**lpnOutputSize**      The length of the data.



Decode the function that reads the adjustment data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecDecodeGetladjust(
```

```
    /*mA*/int* lpnladjust,
```

```
    /*mA*/int nlmax,
```

```
    /*IN*/char* lpInputBuffer,
```

```
    /*IN*/int nInputSize
```

```
);
```

**lpnladjust**      Adjust the percentage.

**nlmax**          Maximum current.

**lpInputBuffer**      Input data holds the buffer.

**nInputSize**      The length of the data.

Construct a function that writes adjustment data.

```
SSCOMM_CODEC_API int SosenProgrammerCodecBuildSetladjust(
```

```
    /*mA*/int nladjust,
```

```
    /*mA*/int nlmax,
```

```
    /*OUT*/char* lpOutputBuffer,
```

```
    /*IN,OUT*/int* lpnOutputSize
```

```
);
```

**nladjust**      Adjust the percentage.



**nlmax** Maximum current.

**lpOutputBuffer** The output data holds the buffer.

**lpnOutputSize** The length of the data.

Decode the function of writing adjustment data.

**SSCOMM\_CODEEC\_API int SosenProgrammerCodecDecodeSetladjust(**

**/\*mA\*/int nladjust,**

**/\*mA\*/int nlmax,**

**/\*IN\*/char\* lpInputBuffer,**

**/\*IN\*/int nInputSize**

**);**

**nladjust** Adjust the percentage.

**nlmax** Maximum current.

**lpInputBuffer** Input data holds the buffer.

**nInputSize** The length of the data.

## 6. Set Dimming level

Set Dimming level:

0%-100%

255(De-dimming the settings)

Construct a function that reads dimming level data.



SSCOMM\_CODEC\_API int

SosenProgrammerCodecBuildGetDimmingLevel(

/\*OUT\*/char\* lpOutputBuffer,

/\*IN,OUT\*/int\* lpnOutputSize

);

lpOutputBuffer    The output data holds the buffer.

lpnOutputSize    The length of the data.

Decode the function that reads the dimming level data.

SSCOMM\_CODEC\_API int

SosenProgrammerCodecDecodeGetDimmingLevel(

/\*0.01%\*/int\* lpnLevelSet,

/\*IN\*/char\* lpInputBuffer,

/\*IN\*/int nInputSize

);

lpnLevelSet        Dimming level percentage.

lpInputBuffer      Input data holds the buffer.

nInputSize        The length of the data.

Construct a function that writes dimming level data.

SSCOMM\_CODEC\_API int



## SosenProgrammerCodecBuildSetDimmingLevel(

```
/*0.01%*/int nLevelSet,  
/*OUT*/char* lpOutputBuffer,  
/*IN,OUT*/int* lpnOutputSize  
);
```

**nLevelSet**      Dimming level percentage.

**lpOutputBuffer**    The output data holds the buffer.

**lpnOutputSize**    The length of the data.

Decoding functions that write dimming level data.

**SSCOMM\_CODEC\_API** int

## SosenProgrammerCodecDecodeSetDimmingLevel(

```
/*0.01%*/int nLevelSet,  
/*IN*/char* lpInputBuffer,  
/*IN*/int nInputSize  
);
```

**nLevelSet**      Dimming level percentage.

**lpInputBuffer**    Input data holds the buffer.

**nInputSize**    The length of the data.

## 7. Error code

SsCommError_NoError	(9000)
SsCommError_Null	(0)
SsCommError_InvalidParameter	(9001)
SsCommError_OutOfMemory	(9002)
SsCommError_InvalidLength	(9003)
SsCommError_Overflow	(9004)
SsCommError_InvalidSigns	(9005)
SsCommError_InvalidTag	(9006)
SsCommError_InvalidCrc	(9007)
SsCommError_InvalidCommand	(9008)
SsCommError_InvalidResponseData	(9009)
SsCommError_InvalidPrecision	(9010)
SsCommError_FailedDecode	(9011)
SsCommError_FailedEncode	(9012)
SsCommError_Unrecognized	(9013)
SsCommError_OutOfValidLength	(9014)
SsCommError_IncompleteData	(9015)
SsCommError_InvalidValueRange	(9016)
SsCommError_InvalidDeviceHandle	(9017)



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SsCommError_DeviceOpenFailed	(9018)
SsCommError_DeviceCloseFailed	(9019)
SsCommError_DeviceWriteError	(9020)
SsCommError_DeviceReadError	(9021)
SsCommError_OpenFailedDeviceNotFound	(9022)
SsCommError_OpenFailedAccessDenied	(9023)
SsCommError_OpenFailedSignalTimeout	(9024)
SsCommError_SetupCommBuffers	(9025)
SsCommError_SetCommTimeouts	(9026)
SsCommError_GetCommState	(9027)
SsCommError_SetCommState	(9028)
SsCommError_PurgeComm	(9029)
SsCommError_ReadDataTimeout	(9030)
SsCommError_ReadDataError	(9031)
SsCommError_WriteDataTimeout	(9032)
SsCommError_WriteDataError	(9033)
SsCommError_LoadDbModelFailed	(9034)
SsCommError_UnkownError	(9999)
SsCommEvent_DeviceOpenSucceed	(8000)



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Versions	Date
V1.0	2022/01/21