

Unofficial Nord Lead A1 File Structure Documentation

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Nord Lead A1 Program File Structure

This mapping corresponds to the Nord Lead A1 program file (file extension nlas).

| offset | bits | description |
|--------|----------|--|
| 0x0000 | cccccccc | ascii C - 0x43, 4-byte Clavia ID |
| 0x0001 | cccccccc | ascii B - 0x42 |
| 0x0002 | cccccccc | ascii I - 0x49 |
| 0x0003 | cccccccc | ascii N - 0x4E |
| 0x0004 | ffffffff | (f) file format |
| 0x0005 | ----- | 0 |
| 0x0006 | ----- | 0 |
| 0x0007 | ----- | 0 |
| 0x0008 | cccccccc | ascii n - 0x6E, 4-byte NLA1 Program file ID |
| 0x0009 | cccccccc | ascii l - 0x6C, |
| 0x000A | cccccccc | ascii a - 0x61, |
| 0x000B | cccccccc | ascii s - 0x73, |
| 0x000C | -----bb | (b) bank (0 = A, 1 = B . . .) |
| 0x000D | ----- | 0 |
| 0x000E | --111111 | (l) location lsb (0 = 01:1, 1 = 01:2 . . .) |
| 0x000F | ----- | 0 |
| 0x0010 | cccccccc | (c) program category |
| 0x0011 | ----- | |
| 0x0012 | ----- | |
| 0x0013 | ----- | |
| 0x0014 | iiiiiii | (i) file version (16-bit) |
| 0x0015 | iiiiiii | |
| 0x0016 | ----- | |
| 0x0017 | ----- | |
| 0x0018 | cccccccc | CRC1 (32-bit) |
| 0x0019 | cccccccc | |
| 0x001A | cccccccc | |
| 0x001B | cccccccc | |
| 0x001C | ----- | |
| 0x001D | ----- | |
| 0x001E | ----- | |
| 0x001F | ----- | |
| 0x0020 | ----- | |
| 0x0021 | ----- | |
| 0x0022 | ----- | |
| 0x0023 | ----- | |
| 0x0024 | ----- | |
| 0x0025 | ----- | |
| 0x0026 | ----- | |
| 0x0027 | ----- | |
| 0x0028 | ----- | |
| 0x0029 | ----- | |
| 0x002A | ----- | |
| 0x002B | ----- | |
| 0x002C | ----- | |
| 0x002D | ----- | |

| offset | bits | description |
|--------|-------|-------------|
| 0x002E | ----- | |
| 0x002F | ----- | |
| 0x0030 | ----- | |
| 0x0031 | ----- | |
| 0x0032 | ----- | |
| 0x0033 | ----- | |
| 0x0034 | ----- | |
| 0x0035 | ----- | |
| 0x0036 | ----- | |
| 0x0037 | ----- | |
| 0x0038 | ----- | |
| 0x0039 | ----- | |
| 0x003A | ----- | |
| 0x003B | ----- | |
| 0x003C | ----- | |
| 0x003D | ----- | |
| 0x003E | ----- | |
| 0x003F | ----- | |
| 0x0040 | ----- | |
| 0x0041 | ----- | |
| 0x0042 | ----- | |
| 0x0043 | ----- | |
| 0x0044 | ----- | |
| 0x0045 | ----- | |
| 0x0046 | ----- | |
| 0x0047 | ----- | |
| 0x0048 | ----- | |
| 0x0049 | ----- | |
| 0x004A | ----- | |
| 0x004B | ----- | |
| 0x004C | ----- | |
| 0x004D | ----- | |
| 0x004E | ----- | |
| 0x004F | ----- | |
| 0x0050 | ----- | |
| 0x0051 | ----- | |
| 0x0052 | ----- | |
| 0x0053 | ----- | |
| 0x0054 | ----- | |
| 0x0055 | ----- | |
| 0x0056 | ----- | |
| 0x0057 | ----- | |
| 0x0058 | ----- | |
| 0x0059 | ----- | |
| 0x005A | ----- | |
| 0x005B | ----- | |
| 0x005C | ----- | |
| 0x005D | ----- | |
| 0x005E | ----- | |
| 0x005F | ----- | |
| 0x0060 | ----- | |
| 0x0061 | ----- | |
| 0x0062 | ----- | |
| 0x0063 | ----- | |
| 0x0064 | ----- | |
| 0x0065 | ----- | |
| 0x0066 | ----- | |
| 0x0067 | ----- | |
| 0x0068 | ----- | |

| offset | bits | description |
|--------|---------|---------------|
| 0x0069 | ----- | |
| 0x006A | ----- | |
| 0x006B | ----- | |
| 0x006C | ----- | |
| 0x006D | ----- | |
| 0x006E | ----- | |
| 0x006F | ----- | |
| 0x0070 | ----- | |
| 0x0071 | ----- | |
| 0x0072 | ----- | |
| 0x0073 | ----- | |
| 0x0074 | ----- | |
| 0x0075 | ----- | |
| 0x0076 | ----- | |
| 0x0077 | ----- | |
| 0x0078 | ----- | |
| 0x0079 | ----- | |
| 0x007A | ----- | |
| 0x007B | ----- | |
| 0x007C | ----- | |
| 0x007D | ----- | |
| 0x007E | ----- | |
| 0x007F | ----- | |
| 0x0080 | ----- | |
| 0x0081 | ----- | |
| 0x0082 | ----- | |
| 0x0083 | ----- | |
| 0x0084 | ----- | |
| 0x0085 | -----o- | (o) reverb on |
| 0x0086 | ----- | |
| 0x0087 | ----- | |
| 0x0088 | ----- | |
| 0x0089 | ----- | |
| 0x008A | ----- | |
| 0x008B | ----- | |
| 0x008C | ----- | |

NLA1 Reverb On

Offset in file: 0x85 (b2)

0 = off, 1 = on

NLA1 File Version

Offset in file: 0x14 and 0x15

See: [Nord Lead A1 - Update History](#)

Nord Lead A1 - OS Update

v1.02 (2014-03-10)

v1.12 (2014-04-02)

v1.14 (2014-04-04)

v1.20 (2014-04-25)

v1.24 (2014-04-28)

v1.30 (2014-05-12)

v1.32 (2014-05-22)

v1.34 (2015-10-07)

16-bit integer value in Little Endian format

current supported version are 6 and 7

NLA1 File Format

Offset in file: 0x04

0 = header type 0 - legacy format no CRC (Byte 0x18 to 0x2B are missing)

1 = header type 1 - new format with additional bytes 0x18 to 0x2B (20 bytes).

All files exported with Nord Sound Manager v7.40 (2018-12-18) or later are in type 1.

NLA1 Program Category

Offset in file: 0x10

0 = Acoustic

1 = Bass

2 = Wind

4 = Fantasy

5 = FX

6 = Lead

7 = Organ

8 = Pad

10 = Pluck

11 = String

12 = Synth

13 = Vocal

14 = User

17 = None

21 = Grand

22 = Upright

23 = EPiano1

24 = EPiano2

27 = Clavinet

28 = Harpsi

30 = Arpeggio

255 = Undefined