

# 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