



HLMS for Windows Discussion Paper

The purpose of this document is to outline the key changes to the HLMS system for Windows currently in development. Any comments are gratefully received.

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Why Windows?

While the current DOS version performs well, the prospect of moving to the Windows platform has been encouraged by a number of factors:

- Development – Many of the programs used to write HLMS have ceased development which means that solutions to some problems cannot be resolved.
- Windows – One of the great advantages of Windows is to use computers to their full extent – running multiple applications simultaneously, greater printing resources, sharing data between applications and greater flexibility of screen and printer output.
- Internet – The Internet has become a major force in communication, and accessing this resource from DOS is impractical
- Market Acceptance – For the growth of HLMS, customers are demanding a Windows interface.

HLMSW Overview

HLMS for Windows (HLMSW) will be developed with the Delphi and C programming languages for the 32-bit Windows platform (Windows 95/98 and Windows NT). The database formats will continue to use driver supplied by Luxent (DBF/SMT) due to their speed and reliability.

The core processes will remain unchanged, but there will be major changes in these areas:

- Printing – A special printing program will allow for complete freedom in form design.
- Search Capabilities – Greater search facilities on all data
- Flexible Instrumentation – HLMSW will have a new system for entering instrumentation. You can continue with the Totals only approach, but you may also list individual instruments. The instrumentation will be divided into 6 sections
 1. Scores (Full/Mini/Piano Reductions etc)
 2. Vocal Scores (VS/CS/Libretti etc)
 3. Winds
 4. Brass
 5. Other (Percussion/Keyboard etc)
 6. Strings

Each section can have up to 256 categories that are user-defined. You will have only one entry for each instrument (ie Flute) with a separate field for the instrument # (ie Flute 2). Printing of breakdowns will be limited to a maximum of 200 separate entries in a table format.

When first displaying sets, only the Totals of each section will be displayed, but a full breakdown is only 1 mouse-click away. You will not have to enter complete breakdowns if you do not want to.

- Internet Connectivity – There will be a strong push for greater interaction with the Internet. This will include:
 - Automatic E-mail confirmations of order status for those that request it.
 - Online cataloguing and ordering
 - Automatic program updates
- Multiple Data Sets – You will be able to have multiple sets of HLMS data for manipulating other collections in addition to the Hire Library and for keeping complete stock lists of agencies and associate companies.

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- Multi Transactions – A single transaction may be associated with multiple sets.
- Sets – All sets will be effectively what are now know as Master Sets with a full 5 character code. All transactions will retain information about what was sent in History.
- Group Editing – The ability to make the same changes to more than one item at a time.
- Work Numbers – HLMS will now use a unique Work Number for finding works (instead of the composer/work scheme previously in use).
- Region - The old region scheme is being dropped to allow for country of Birth/Death. How this will work for countries that have changed their names or boundaries, I am not really sure. Perhaps it is enough to indicate if the composer is of YOUR nationality or not. Comments please.
- Condition – I propose to save the condition of a set as a number that is incremented on each hiring. The ranges of the status can be defined along the line of 0 (New) 1-20 (Good) 21-40 (Fair) 41+ (Poor)

For a better understanding of the new capabilities, please find below a breakdown of the proposed database structures.

Entries that have changed are marked with the ‡ symbol (a number in brackets indicates the old size)

New entries are marked by the ✕ symbol.

C items are Text

I/N are numbers

D are Dates

V are free-text fields

The fields EDITDATE and EDITTYPE are common to all databases to allow HLMSW to record dates and types of changes made to a record.

COMPOSER DATABASE

1. COMPCODE	C	6	‡ (4)
2. ALIAS	C	6	✕ A cross-reference to another composer
3. SURNAME	C	30	‡ (25)
4. FIRSTNAME	C	30	‡ (25)
5. BORN	I	5	
6. BORNCNTRY	I	2	✕ Country of Birth
7. DIED	I	5	
8. DIEDCNTRY	I	2	✕ Country of Death
9. HF_PERC	N	6. 2	
10. PF_PERC	N	6. 2	
11. COPYRIGHT	L	1	
12. OPUSTYPE	C	5	✕ Type of Opus Class (eg BWV, K, Op, RV)
13. EDITDATE	D	3	✕
14. EDITTYPE	C	2	✕

WORKS DATABASE

1. WORKNO	C	20	‡ (6)
2. ALTWORKNO	C	20	⊠ Alternate Work Number (for other number systems)
3. ALIAS	C	20	⊠ A cross-reference to another work
4. COMPCODE	C	6	‡ (4)
5. EDNAME	C	30	
6. EDTYPE	C	1	⊠ Type of Editorial (Arranged, Edited, Transcribed etc)
7. PREFIX	C	10	⊠ Title Prefix not included in Index (eg "The", "A")
8. TITLE	C	50	‡ (35)
9. SUBTITLE	C	50	‡ (35)
10. ALTTITLE	C	50	⊠ Alternate Title
11. COMPDATE	C	15	
12. OPUS	C	15	
13. PUBCODE	C	10	‡ (3) Publishers now stored in Client Database
14. DURATION	I	4	
15. DESCRIPT	V	30	
16. ORCH	V	6	
17. LOCATION	C	30	‡ (15)
18. COPYRIGHT	L	1	
19. HF_PERC	N	6.2	
20. PF_PERC	N	6.2	
21. INCEMC	L	1	⊠ Include in EMCW
22. NOTES	V	6	⊠ Work Notes
23. CATEGORY	C	10	⊠ Work Categories
24. EDITDATE	D	3	⊠
25. EDITTYPE	C	2	⊠

SET DATABASE

1. COMPCODE	C	6	‡ (4)
2. WORKNO	C	20	‡ (6)
3. SET	C	5	‡ (4)
4. SETTYPE	C	1	⌘ Type of Set
5. FS	I	4	⌘ Full Scores Total
6. FSLIST	V	6	⌘ Full Scores List
7. VS	I	4	⌘ Vocal Material Total
8. VSLIST	V	6	⌘ Vocal Material List
9. WIND	I	4	⌘ Wind Total
10. WINDLIST	V	6	⌘ Wind List
11. BRASS	I	4	⌘ Brass
12. BRASSLIST	V	6	⌘ Brass List
13. OTHER	I	4	⌘ Other Total
14. OTHERLIST	V	6	⌘ Other List
15. STR	I	4	⌘ Strings Total
16. STRLIST	V	6	⌘ Strings List
17. LANGUAGE	C	10	‡ (3)
18. D_ORDERED	D	3	
19. TRANSNO	N	8	
20. NOTES	V	6	
21. CONDITION	I	4	‡ Condition now kept as a number of times hired
26. SUBLOC	C	30	‡ (15)
27. EDITDATE	D	3	⌘
28. EDITTYPE	C	2	⌘

ACCOUNT DATABASE

1. ACCOUNT	C	10	
2. ACCTYPE	C	1	☒ Account Type (Normal, Temporary, Publisher etc)
3. TITLE	C	20	☒ Title (Mr/Mrs/Dr/Prof)
4. FIRSTNAME	C	25	☒
5. LASTNAME	C	25	☒
6. SALUTATION	C	25	
7. POSITION	C	30	
8. COMPANY	C	30	
9. ADDRESS1	C	30	
10. ADDRESS2	C	30	
11. CITY	C	30	
12. STATE	C	10	
13. POSTCODE	C	10	
14. COUNTRY	C	30	
15. P1	C	20	☒ Phone 1
16. P1Type	C	4	☒ Phone 1 Type
17. P2	C	20	☒ Phone 2
18. P2Type	C	4	☒ Phone 2 Type
19. P3	C	20	☒ Phone 3
20. P3Type	C	4	☒ Phone 3 Type
21. P4	C	20	☒ Phone 4
22. P4Type	C	4	☒ Phone 4 Type
23. EMAIL	V	6	☒
24. WWW	V	6	☒
25. PADD1	C	35	
26. PADD2	C	35	
27. PADD3	C	35	
28. PADD4	C	35	
29. PADD5	C	35	
30. CHCODE	C	2	
31. TAX	N	6.2	
32. ISNOTES	N	1	
33. NOTES	V	6	
34. REF	C	8	
35. PREPAYMENT	L	1	
36. MMETHOD	C	30	Default Dispatch Method
37. DPERF	V	6	☒ Default Performer
38. DCOND	V	6	☒ Default Conductor
39. DVENUE	V	6	☒ Default Venue
40. SPARE	C	30	
41. EXPDATE	D	3	☒ Account Expiry Date
42. EDITDATE	D	3	☒
43. EDITTYPE	C	2	☒

TRANSACTION DATABASE

1. TRANSNO	N	8	
2. TRANSTYPE	C	1	☒ Transaction Type
3. COMPCODE	C	6	‡ (4)
4. WORKNO	C	20	‡ (4)
5. SET	C	5	‡ (4)
6. ACCOUNT	C	10	
7. FS	I	4	☒ Full Scores Total
8. FSLIST	V	6	☒ Full Scores List
9. VS	I	4	☒ Vocal Material Total
10. VSLIST	V	6	☒ Vocal Material List
11. WIND	I	4	☒ Wind Total
12. WINDLIST	V	6	☒ Wind List
13. BRASS	I	4	☒ Brass
14. BRASSLIST	V	6	☒ Brass List
15. OTHER	I	4	☒ Other Total
16. OTHERLIST	V	6	☒ Other List
17. STR	I	4	☒ Strings Total
18. STRLIST	V	6	☒ Strings List
19. PERFS	N	3	
20. DTFIRST	D	3	
21. DTLAST	D	3	
22. DTREQ	D	3	
23. DTSENT	D	3	
24. DTRET	D	3	
25. LTRET	D	3	
26. HCNO	N	8	
27. PERFTYPE	N	2	☒ Performance Type (concert, broadcast etc)
28. PERFORMER	V	6	☒ Performer (Orchestra/Ensemble)
29. CONDUCTOR	V	6	☒
30. SOLOIST	V	6	☒
31. VENUE	V	6	☒
32. PERFDET	V	6	
33. CH1	C	20	☒ Charge 1
34. CH1TYPE	C	2	☒ Charge 1 Type
35. CH1AMT	N	12.2	☒ Charge 1 Amount
36. CH2	C	20	☒ Charge 2
37. CH2TYPE	C	2	☒ Charge 2 Type
38. CH2AMT	N	12.2	☒ Charge 2 Amount
39. CH3	C	20	☒ Charge 3
40. CH3TYPE	C	2	☒ Charge 3 Type
41. CH3AMT	N	12.2	☒ Charge 3 Amount
42. CH4	C	20	☒ Charge 4
43. CH4TYPE	C	2	☒ Charge 4 Type
44. CH4AMT	N	12.2	☒ Charge 4 Amount
45. CH5	C	20	☒ Charge 5
46. CH5TYPE	C	2	☒ Charge 5 Type
47. CH5AMT	N	12.2	☒ Charge 5 Amount
48. TAX	N	12.2	
49. TAXPERC	N	5.2	
50. NOTE	V	6	☒ Office Notes
51. ORDERNO	C	20	
52. INVOICE	N	8	
53. CREDIT	N	8	
54. INVDUE	D	3	☒ Date Invoice Due

55. INVDATA	D	3	
56. DTPAID	D	3	
57. STMT	C	8	‡ (1) Now saves history file with entry
58. MMETHOD	C	30	
59. PERFSTMT	L	1	⊗ Include in Performance Statements
60. EDITDATE	D	3	⊗
61. EDITTYPE	C	2	⊗

Naturally with all of this additional information, the size of your HLMS databases will probably increase 3-fold. Despite this, a core objective of my development in the new platform of HLMS will be to improve the efficiency of data entry and review so that HLMS for Windows will remain the best tool for this music hire business.

While I am in design mode, NOW is the time to make suggestions for change.

I look forward to your comments.

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