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Using outsource data of digital resources in creating our own bibliographic records: Lingnan University Library's experience in converting Naxos Music Library and Spoken Word Library online titles to MARC records

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Meeting:	**123 Cataloguing**
Simultaneous Interpretation:	**Yes**

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ABSTRACT

This paper documents Lingnan University Library's recent experience in converting the outsource data acquired from Naxos Digital Services, Ltd. to the bibliographic records, via the use of a locally developed System Software, featuring:

1. *The technical procedures on how to convert Naxos Spoken Word Library (NSWL) and Naxos Music Library (NML) titles into individual MARC records (based on MARC21 format).*

2. *The necessary manpower and expertise involved for the preparation and implementation of the project.*

3. *The project's subsequent finds, as well as its impacts on the cataloguers and the end-users.*

4. *The techniques in bringing consistency to the bibliographic records, and authority control to names of individual composers, lyrists, musician-performers, as well as other professional music groups, after the NML titles were successfully uploaded onto the bibliographic database.*

I. INTRODUCTION - NAXOS RIGHTS INTERNATIONAL LTD. & NAXOS ONLINE LIBRARIES:

1. Naxos Rights International Ltd.

Although based in Hong Kong, Naxos Rights International Ltd. is a transnational company which owns a number of classical labels such as ***Naxos***, ***Naxos AudioBooks*** and ***Marco Polo***, etc., and the tens of thousands of recordings available on these labels. The physical products, CDs and DVDs, are distributed world-wide through its affiliated company, Naxos Global Distribution Ltd. and its wholly or partly owned subsidiaries in all major music markets. The Naxos Online Libraries are marketed through a subsidiary of Naxos Global Distribution Ltd., Naxos Digital Service Ltd.

2. Naxos Online Libraries

In 2004, Naxos Digital Services, Ltd. developed 2 major online audio databases for coping with the new educational trends, and they are:

1. ***Naxos Spoken Word Library*** (**NSWL**) (http://www.NaxosSpokenWordLibrary.com)

2. ***Naxos Music Library*** (**NML**) (http://www.NaxosMusicLibrary.com/)

For details regarding contents and coverage of Naxos Spoken Word Library and Naxos Music Library, please refer to (Appendix I).

II. ADVANTAGES OF USING OUTSOURCE DATA OF DIGITAL RESOURCES IN CREATING OUR OWN BIBLIOGRAPHIC RECORDS

One of the main goals for using a locally developed software programme to convert the NSWL and NML titles (outsource data of digital resources) into our own bibliographic records is to provide a ***One-Stop*** and concurrent searching for our end-users – enabling them to search across, as well as to link up the libraries defined information resources in digital format via a centralized gateway, i.e., our library WebPAC. This setup ultimately leads to easy access to much broader and readily available information for the library end-users, without the burden of inputting and maintaining by the library staff themselves. As both the NSWL and NML contain the largest collection of audio-books, and music recordings available online, the advantages of linking it to the bibliographic database / WebPAC will lead to a significant enrichment of the bibliographic database's both size and coverage.

In addition, the NSWL, and NML MARC records developed by Lingnan Library can also be shared among other existing NSWL and NML and subscribing libraries -- thereby saving their

own time and manpower from creating their own set of records for these 2 online databases.

III. FUNCTIONS & PURPOSE OF IN-HOUSE DEVELOPED SOFTWARE:

(a) Functions & Purpose of the MARC Conversion Software

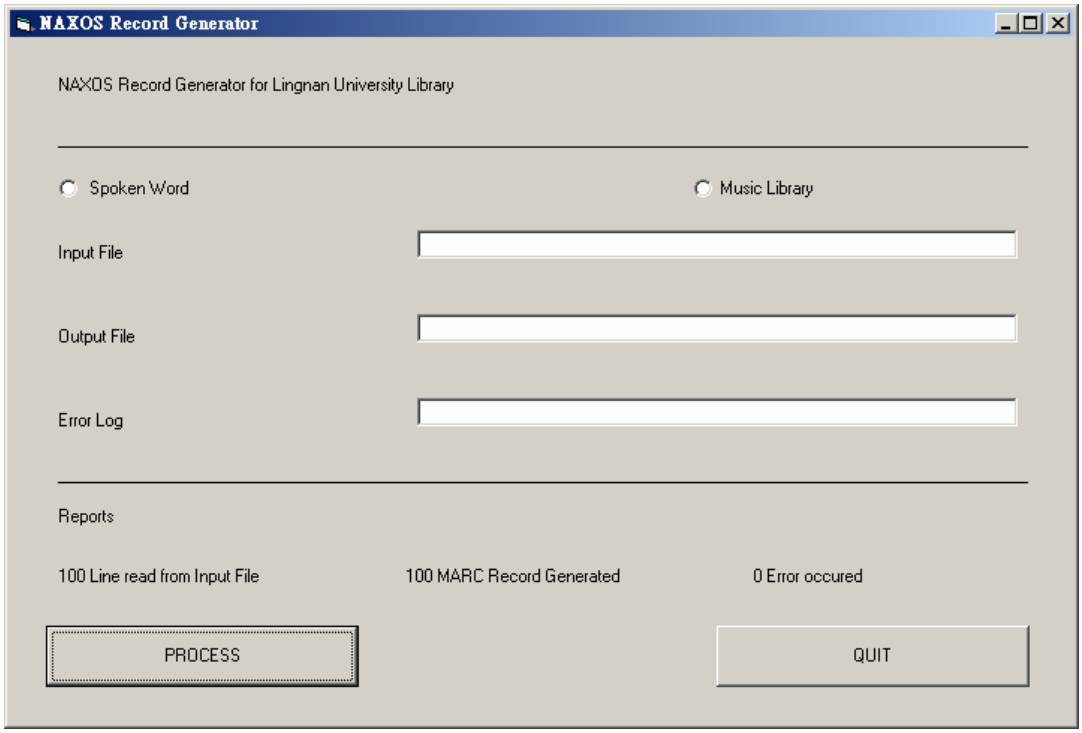
The in-house developed software programme was designed to automatically generate MARC records in large batches, based on the raw data supplied by the Naxos Digital Services, Ltd. in Excel file format. *(NML & NSWL title & other data information was output directly from the 2 databases' server, & data was separated/grouped neatly into different columns, e.g., Item code, label, title, composer, etc., under Excel before supplying to Lingnan Library.)* (Appendix II)

The MARC records generated by this software programme followed the MARC21 standards, and can also be processed by the Loading Table built inside Lingnan Library's INNOPAC system. The hardware and software specifications, as well as other system requirements of the Naxos automatic MARC conversion software are as follows:

Figure 4.
SYSTEM REQUIREMENTS:

HARDWARE PLATFORM	
CPU:	● Intel Pentium 4 2.8 GHz CPU or greater
RAM:	● 512 MB or above
Hard disk:	● 100MB of free hard disk space
SOFTWARE PLATFORM	
Operating System:	● Microsoft Windows XP SP1 or later
Development Tools:	● Microsoft Visual Basic 6.0 SP5 ● Microsoft Excel XP

Figure 5. Software Programme Screenshot -- the following is a screenshot of the in-house developed software programme, designed and developed by the Systems Staff of the Lingnan University Library. The function of this unique software programme is to automatically converting the NML and NSWL titles and data from Excel into individual MARC records:



IV. CONVERTING OUTSOURCE DATA INTO BIBLIOGRAPHIC RECORDS – PROCEDURES & WORKFLOW:

1. To collect all ***313*** NSWL titles and ***6,986*** NML titles and other content information in Excel file from Naxos Digital Services Ltd. *(The NSWL and NML titles and content information were extracted directly from the online NSWL and NML.)* Inside the Excel file, the NSWL and NML recording information was neatly separated into individual categories/columns, e.g., main titles, composers, narrators, ensembles, orchestras, soloists, etc., and details are as follows: (Appendix II)

   (a) **Item code** – number for identifying individual CD recordings held inside NML.

   (b) **Label** – names of different CD labels or series titles held inside NML, e.g., ***Marco Polo Chinese CD***, ***Naxos Historical Recordings CD***, ***Naxos Nostalgia CD***, etc.

   (c) **Title** – titles of individual CD recordings held inside NML.

   (d) **Composer** – names of different composers, with works being featured.
   (Appendix II -- Column (e) – (j)) – feature names of different professional music groups, as well as individual musician-performers, such as **Conductor, Chorus, Ensemble, Orchestra** , **Soloist** (e.g., pianists, singers, cellists, violinists, etc.), as well as the different types of **Instruments** that they play.

2. To specify how the NSWL, and NML Excel file data should be read and processed by

the in-house developed Software Programme. (Appendix IX)

3. Followed by converting the Excel-file data to individual (ISO2709)/MARC records by using MARC-MAKER.

4. MARC records were then automatically created/generated, following the MARC21 standards by adding the following main and sub-fields:

MARC Fields:	Descriptions & Content Added:
Field 006 – 028 Leader:	● Field **(006)**, **(007)** and **(008)** for specifying the material characteristics, physical descriptions of the Naxos title being catalogue. ● Field **(028)** – for recoding individual publication numbers for the music/aduio recordings, e.g., <**$aNA222812$bNaxos Digital Services Ltd**>; and field **(040)** – <**$aHkLN**> is used for specifying that Lingnan University Library was the original cataloguing agency.
Field 245 Title Statement:	● Field **(245)** for main title entry, based on the NML and NSWL title information, and add the GMD in subfield (**$h**) as <**$h[electronic resource]**>.
Field 260 Imprint Information:	● Field **(260)** – (imprint) to specify publication, distribution, i.e., <**$aHong Kong :$bNaxos Digital Services Ltd.,$c[2004]**>.
Field 440 Series Statement:	● Field **(440)** for different recording series, e.g., <**$aNaxos Light Classics CD> OR <$aNaxos Blues Legends**>, etc.
Field 5xx Note Fields:	● Field **(500)** for "**Streaming audio**" note. ● Field **(506)** as <**$a Access restricted to Lingnan University users**>. ● Field **(511)** for specifying different composers being featured by this particular CD, and additional field **(511)** is added to list out performers being featured in this particular recording, e.g., musician-performers, conductors, lyrists, ensemble groups, etc. ● Field (538) – System details note as, <$aMinimum system requirements: MS Windows 98SE, 2000, XP with MS IE 6.0 / Mozilla 1.7.1 / FireFox 1PR / Netscape 7.1 / Opera 7.53 and Media Player 9.0 / 10.0>. ● Additional field **(538) -** <**$aMode of Access: World Wide Web browser**> note.
Field 650 Subject Entries:	● Field **(650)**, with 2nd indicator = (0), with LC Subject Heading as: <**$aMusic$xComputer network resources**>.
Field 7XX:	● Field **(700)** and **(710)** – to give added entries for composers, musician-performers (singers, players), arrangers, lyrists, and professional music groups listed in field **(511)** – so that they could be searchable under **AUTHOR** in OPAC afterwards. And field **(710)** is added entry for corporate name as: <**$aNaxos Digital Services**> ● Additional field **(773)**, with 1st indicator = (0), with host item entry as, <**$tNaxos Music Library**>.

Field 856 Electronic Location & Access:	● Field **(856)**, with 1st and 2nd indicator = (**40**), and with electronic location and access as hyperlink connected directly to NML as, ● <**$zConnect to Naxos Music Library$uhttp://0-www.ln.naxosmusiclibrary.com.innopac.ln.edu.hk/streamcat.asp?s=4014%2flnu01&item_code=8.553347**>
Field 9xx Local Note:	● Field **(997)** as <**$anaxos**>, to help library staff identify that these records were generated from NML or NSWL.

For details regarding the display of NSWL, and NML titles under Web-OPAC and data processing during MARC conversion, please refer to the following Appendixes:

- **(Appendix III) – Part 1.** – WebPAC display example: to search <**Naxos Spoken Word Library**> under TITLE, all NML titles will be retrieved and displayed alphabetical order.

- **(Appendix III) – Part 2.** – WebPAC display example: to search <**Naxos Music Library**> under TITLE, all NML titles will be retrieved and displayed alphabetical order.

- **(Appendix VIII)** -- Flowchart of Naxos Automatic MARC Conversion Programme in Progress.

V. OTHER KEY ISSUES CONCERNING MARC CONVERSION:

1. Compared with Naxos Spoken Word Library, the Naxos Music Library titles are more complicated to handle. This is because under a single CD title, there could be many different people and corporate bodies involved in the production of a single CD recording. For example, in addition to the composers, there are also the arrangers, lyrists, music groups *(e.g., orchestras, chamber music groups, choruses, choirs, etc.)*, as well as individual soloists *(e.g., musician-performers, playing different musical instruments, etc.)* being featured under a single recording. As a result, detailed information must be listed out in performer note field **(511)**, and extensive added entries must be provided for the individual ensemble groups, and soloists in field **(700)** and **(710)** -- so that they could be searchable under **AUTHOR** in OPAC. Authority control must also be brought to these people and corporate name entries afterwards, to ensure precision and consistency in retrieval. For some of the compilation CD titles, e.g., ***21st Century Cinema Classics***, its bibliographic record carries the works of 14 different composers, 15 soloists, as well as 10 different ensemble groups. (Appendix IV & V)

(i) **Treatments of Individual Track Titles** -- It was decided that information for individual audio track titles would NOT be added to the note field **(505)**. The reason behind this decision is because NML contains many compilation CD titles, with individual audio tracks extracted from a great number of different Naxos recordings, creating contents notes would be complicated, e.g.:

- **(COMPILATION EXAMPLE A -- *WAGNER, Richard : Scenes from Goetterdaemmerung)*:**

  <505 0 $a***Goetterdaemmerung: Act III, Scene 3:*** $gTrack 1. $tStarke Scheite schichtet mir dort $g(03:32) – $g2.$tWie Sonne lauter strahlt mir sein Licht $g(02:10) – $g3.$tO ihr, der Eide ewige Huter! -- $g(03:42) – $t4. $tMein Erbe nun nehm ich zu eigen $g(02:32) – $g5.$tFliegt heim, ihr Raben! $g(01:27) –$g6. $tGrane, mein Ross! Sei mir gegrusst! $g(02:10) – $g7. $tApotheosis (05:11)>

- **(COMPILATION EXAMPLE B - *Naxos Best of Opera*)** – *a compilation recording for operas:*

  <**505** 0 $gTrack 1.$tLe Nozze di Figaro: Overture /$rW.A. Mozart$g(04:06) –$g2.$tLa Boheme: Che gelida manina /$Giacomo Puccini$g(04:30) –$g3.$tMadama Butterfly: Un bel di vedremo /$Giacomo Puccini$g(04:43) –$g4.$tLa Traviata: Un di felice /$rGiuseppe Verdi$g(03:11)>

- **(COMPILATION EXAMPLE C -- *CHOPIN: Piano Favourites (Yin Chengzhong*)** – *a compilation recording of Chopin's popular piano works:*

  <505 0 $gTrack 1.$tFantasie In F Minor, Op. 49 $g(13:21) – $g2.$tImpromptu No. 1 In A Flat Major, Op. 29$g(04:00) – $g3.$tImpromptu No. 2 In F Sharp Major, Op. 36 $g(05:32) – $g4.$tImpromptu No. 3 In G Flat Major, Op. 51$g(05:38) – $g5.$tImpromptu No. 4 In C Sharp Minor, Op. 66 (Fantasie-Impromptu)$g(04:36) – $g6.$tBerceuse In D Flat Major, Op. 57$g(05:03)>

As you can see in the above (**Example A, B & C**), if individual track titles had been added to the MARC records, users would be presented with long strings of foreign words *(mostly in Italian, French or German & sometimes in romanized Russian, Chinese, Japanese, etc.)*, which would present little meaning for most users. Besides, users would be crowded with too much information -- discouraging them from reading the bibliographic record properly. In addition, users in general do not search by titles of individual opera arias or individual movements of a musical work. Furthermore, given that the current URL setup in field **(856)** already enables the end-users to access the individual CDs/recordings directly from the WebPAC. If

they wish to learn more about a particular recording, e.g., during (timing information), they could simply click on the hyper link, "**Connect to Naxos Music Library**" provided by the bibliographic record under WebPAC to read more about it while listening. (Appendix IV)

2. **Treatments Of Subject Headings** -- Currently, only a very general LC subject heading, <**$aMusic$xComputer network resources**> is assigned for all NML titles, as the existing System Software is incapable of assigning specific subject headings for individual NML titles rendering on different themes or different forms of music. If adequate manpower and resources are available in the future, cataloguing staff would consider enhancing/upgrading these records as the second phase, i.e., to assign specific LC subject headings for individual NML titles manually.

VI. NAME AUTHORITY CONTROL FOR MUSIC-PERFORMERS, COMPOSERS, & ENSEMBLE GROUPS

After successfully introducing all ***7,299*** Naxos Spoken Word Library and Naxos Music Library MARC records into the bibliographic database, Lingnan Library's cataloguing staff then began to perform authority control on both Western and Chinese names for different literary authors, musicians, composers, and ensemble groups, etc., brought by these newly added NSWL and NML titles.

Although Lingnan Library is currently outsourcing their Western-language bibliographic records to a library-service vendor in USA for the automatic name authority control service, vendor's existing system is unable to match the name headings *(i.e., name headings taken directly from NSWL, and NML)* against the LC/NAF[1], and create a fuller form. It should be highlighted that the name headings supplied by Naxos Digital Services, Ltd. did not follow the LC AACR2 form. In addition, name headings supplied by Naxos did not come with birth or death dates either. As a result, authority control must be performed by local staff.

These 7,299 newly added NML and NSWL titles brought over ***15,500*** new name headings of mostly Western-music composers (e.g., *Mozart, Wolfgang Amadeus* OR Chopin, *Fryderyk*, etc.), music-performers (e.g., Callas, Maria OR Karajan, Herbert von, etc.), and ensemble groups (e.g., Vienna State Opera Chorus OR New York Metropolitan Opera Chorus, etc.) to the bibliographic database. Owing to the limited manpower, local cataloguing staff could only perform authority control for these name headings in a selective fashion, i.e., choosing only 400 name headings of relatively famous composers, performers, and ensemble groups, and standardizing them according to the LC AACR2 form.

[1] LCNAF – Library of Congress/NACO Authority File.

For Chinese and Japanese music composers, and performers, because a majority of their names could not find matching records under the LCNAF, as a result, most of these authority records needed to be created manually. And around **120** Chinese and Japanese authority records were created manually for these Naxos titles -- in other words, these records were created with the intervention of a fully-trained cataloguer. The cataloguer read the bibliographic records, and then determined the need to create an authority record. He/she then extracted the relevant information from either the bibliographic records or the hard-copy CDs, and then formulated it into the authority records. The Chinese and Japanese authority records created also contain original Chinese and Japanese characters, with the aim to facilitate bi- and multi-directional linking between bibliographic records of different media. For the cataloguers, as well as for the end-users, these newly created authority records provided the important contextual clues, which aided in telling one composer from another musician or literary author that happened to bear the same name or same romanization.

All the unique forms of the Chinese and Japanese name headings established for this project did not only include those bearing responsibilities for the recording *(composers, librettists, lyrists, arrangers),* but also other people related to the performance *(singers, players, conductors, ensembles, etc.).* All the new headings created are most useful for the cataloguers and reference librarians to identify each person *(musician-performers)* or corporate body *(professional music groups, e.g., Hong Kong Philharmonic Orchestra)*. The result is that it enhanced the overall precision and comprehensiveness in terms of OPAC retrieval for the users. In addition to helping the users retrieve music, these authority records were also very useful for users for tracking lyrics, melodies, and information pertaining to finished original songs or those being written. In other words, it improves the overall efficiency, and eliminates redundancy for both the cataloguers and the users. Examples of authority records created for the Naxos Music Library are as follows:

Name Authority Records – Example A:

008	041213nceacnnnaabn |n aaa nz n
040	HkLN|cHkLN
066	|c$1
100 1	Wang, Changyuan,|d1945-
670	[SR], 1996:|bcontainer(:)
670	, viewed Dec. 10, 2004:|b (, . . 1945 . .)
700 1	,|d1945-

Name Authority Records – Example B:

008 041126nceacnnnaabn |n aaa nz n

040 HkLN|cHkLN

066 |c$1

100 1 Li, Zhengui,|d1941-

670 [SR] p1991:|bcontainer (,)

670 NLC catalogue, Nov. 26, 2004|b(hdg.: , 1941-)

700 1 ,|d1941-

VII. SAVING LIBRARY RESOURCES:

As shown in **Figure 6**, one full-time cataloguer would require ***434*** working days to catalogue all the ***7,299*** NSWL and NML titles manually (*even without assigning specific LC subject headings in field 6XX, descriptive content notes or individual audio-track titles in individual bibliographic records).* On the other hand, as shown in **Figure 7**, when the in-house developed Conversion Software Programme was deployed for generating the same kind of MARC records in an automatic fashion, only a total of ***11*** working days were required to complete the entire project. In other words, the in-house developed software programme enabled the library to save a great deal of manpower and resources -- a total of ***423*** working days.

Figure 6.
If All 7,299 NSWL & NML Titles Had been Manually Catalogued

Manual Cataloguing	Total Time required for Processing	Manpower Involved
● Average time required to cataloguing 1 title manually	20 minutes	1 cataloguing staff
● Record checking after preliminary cataloguing *(including time for checking authority records against LCNA for personal & corporate names)*	5 minutes	1 professional cataloguer
● Total time required to cataloguing	25 minutes	
● Total time required to catalogue all titles manually	25 minutes x 7,299 titles = **3,041** hr. **TOTAL = 434 working days** *(approximately)*	

Figure 7. **Total Manpower & Staff Time Involved in the Project**		
Operations	**Total Time required for Processing**	**Manpower Involved**
● Developing in-house software programme to convert Excel to MARC	5 working days	1 technical staff in System Team
● Pre-processing of data in Excel file before actual MARC conversion/loading	2 working days	1 cataloguing staff
● Running Software Programme for MARC conversion	20 min. for converting all 7,299 NSWL & NML titles	The same cataloguing staff
● Upload to converted MARC records to INNOPAC	30 minutes	Supervised by same technical staff in System Team
● Authority control & final manual editing	3 working days	1 professional cataloguer, plus the same cataloguing staff
● Final random checking	1 day	The same professional cataloguer
● **TOTAL:**	**11** *working days (approximately*)	

VIII. CONCLUSION

1. Advantages:

The major advantage of this automatic MARC conversion project is that it has enabled many NSWL and NML data to be converted into MARC format, and then be added to Lingnan Library's bibliographic database in an automatic fashion. Especially for NML, because it has the largest collection of classical music online, the advantages of linking it to the bibliographic database will lead to a significant enrichment of the database's size and coverage. This has the following benefits:

- Users can perform comprehensive searching and retrieval of entire collections of NSWL and NML, as well as Lingnan Library in a simultaneous fashion. NSWL and NML titles are now inter-searchable with other collections, further reinforcing the concept of One-Stop Searching via the ***WebPAC as the Library Resources Portal*** for the end-users, and "***Making the Library OPAC Sing***".

- Much of the staff time and efforts that would originally be required for manual cataloguing can now be eliminated. It is also an effective way to avoid errors caused by human input.

2. Future Developments:

- Naxos Digital Services, Ltd. adds an average number of 30 new titles to NSWL, and 2,000 new titles to NML each year. In 2005, it was agreed that Naxos will provide the title list of new additions in Excel file to Lingnan

Library in summer each year, provided Lingnan Library continue to subscribe to the NSWL and NML. In order words, more MARC records will be added to Lingnan Library's WebPAC in the future.

3. MARC Records Acquired by Naxos Digital Services, Ltd.:

- Naxos Digital Services, Ltd. acquired the full set of NML and NSWL MARC records (***7,299*** records) for distributing to their subscribing libraries throughout the world free of charge. For examples, Lingnan Library's NML and NSWL records are now being used by the following libraries:
  (i) Chinese University of Hong Kong Library
  (ii) Hong Kong Academy of Performing Arts Library
  (iii) Hong Kong Polytechnic University Library
  (iv) Korean National University of Arts Library

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Appendix I

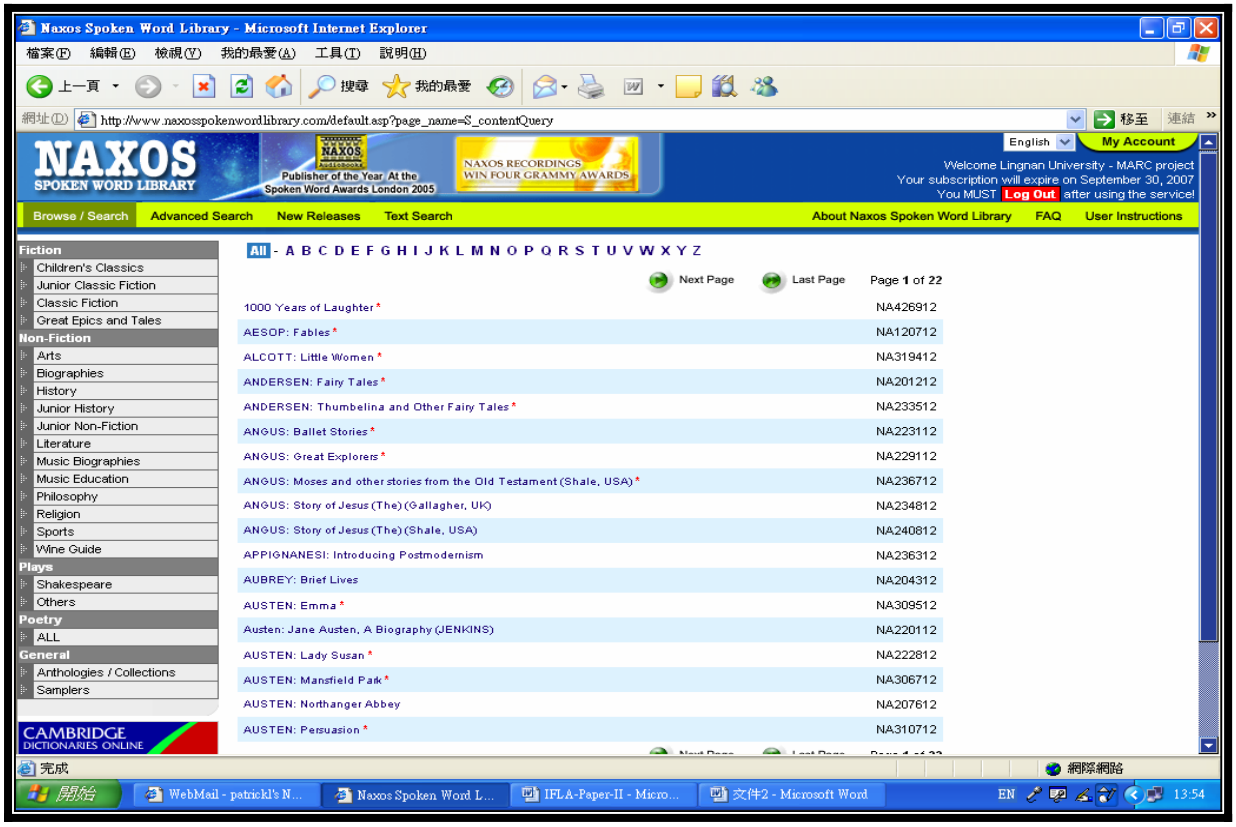
Figure 1. *Naxos Spoken Word Library* -- Basic Facts & Content Highlights[2] (as of April 2006)	
Current size of collection:	● **384** titles, over **600** works and stories ● Over **1,300** hours of spoken word.
Coverage, scope & series included:	● Complete Naxos AudioBooks catalogue, plus releases from Naxos Educational.
Number of authors, playwrights & poets represented:	● **322**
Numbers of new releases:	● Approx. **30** new titles added automatically annually ***(35 titles in 2005)***
Natures of literature featured:	**1.** Many classical novels, plays & poetry, from medieval times to 20th century. **2.** Many unabridged titles, from Shakespeare to James Joyce, etc. **3.** Several newly commissioned texts, e.g., *The History of English Literature*, etc.
Content Highlights:	***1.*** *The Decline & Fall of the Roman Empire* ***2.*** *A Guide to Wine* ***3.*** *The History of English literature* ***4.*** *The History of World Cup* ***5.*** *The Life & Works of Mozart* ***6.*** *The Life of Oscar Wilde* **7.** *The Voice of the Buddha*

[2] About Naxos Spoken Word Library. Available from: http://www.naxosspokenwordlibrary.com/

Figure 2. ***Naxos Music Library*** **-- Basic Facts & Content Highlights** (as of April 2006)	
Size of Database:	● **8,734** titles *(featuring **140,000** tracks of music)* ● Over **90 %**of company catalogue consists of classical titles.
No. of Composers Represented in NML:	● Close to **7,000** different composers
Ave. Growth of Catalogue:	● New **150-200** CD titles/year *(overall industry is releasing **35** CDs/month in 2005)*
Highlights of Catalogue Lines in NML:	**1.** American Classics **2.** British Light Music **3.** Chinese Music and Artists **4.** Early Music Collection **5.** Film Music Classics **6.** Guitar Collection, Opera Classics **7.** Organ Collection **8.** Naxos 21st Century Classics **9.** Naxos Historical, Jazz Legends **10.** Nostalgia, Naxos World **11.** Naxos Crossover
Other Independent Labels Held Inside NML:	● **22** other independent labels, including: Analekta, ARC, Artek, BIS, Bridge Records, CBC *(Canadian Broadcasting Corporation)*, Celestial Harmonies, Collegium, Dacapo, First Edition, Gimell, Hänssler Classic, Morrison Music Trust, PentaTone, Prophone, Proprius, Toccata Classics, etc.
Other Online Resources	● Music glossary & other music-related are also available under NML. (Appendix VI & VII).

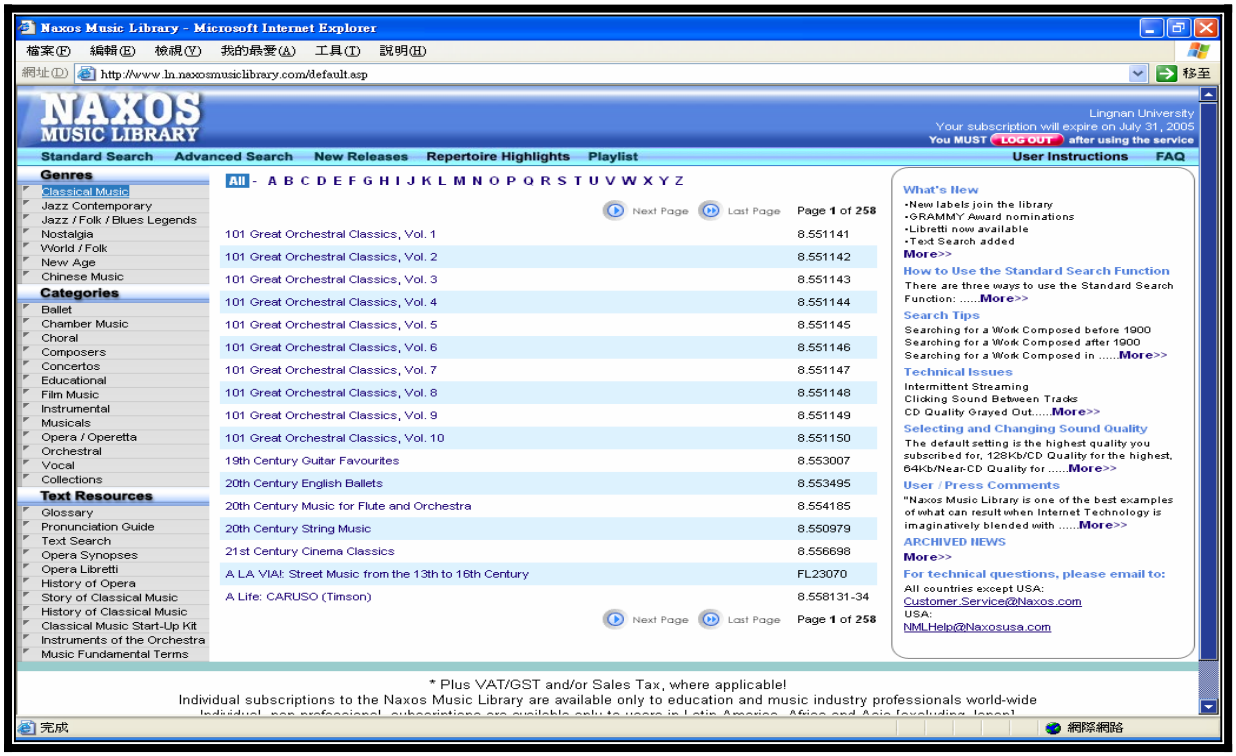
Appendix I – Part 2.

- **Naxos Spoken Word Library – Layout of User Interface & Contents.**



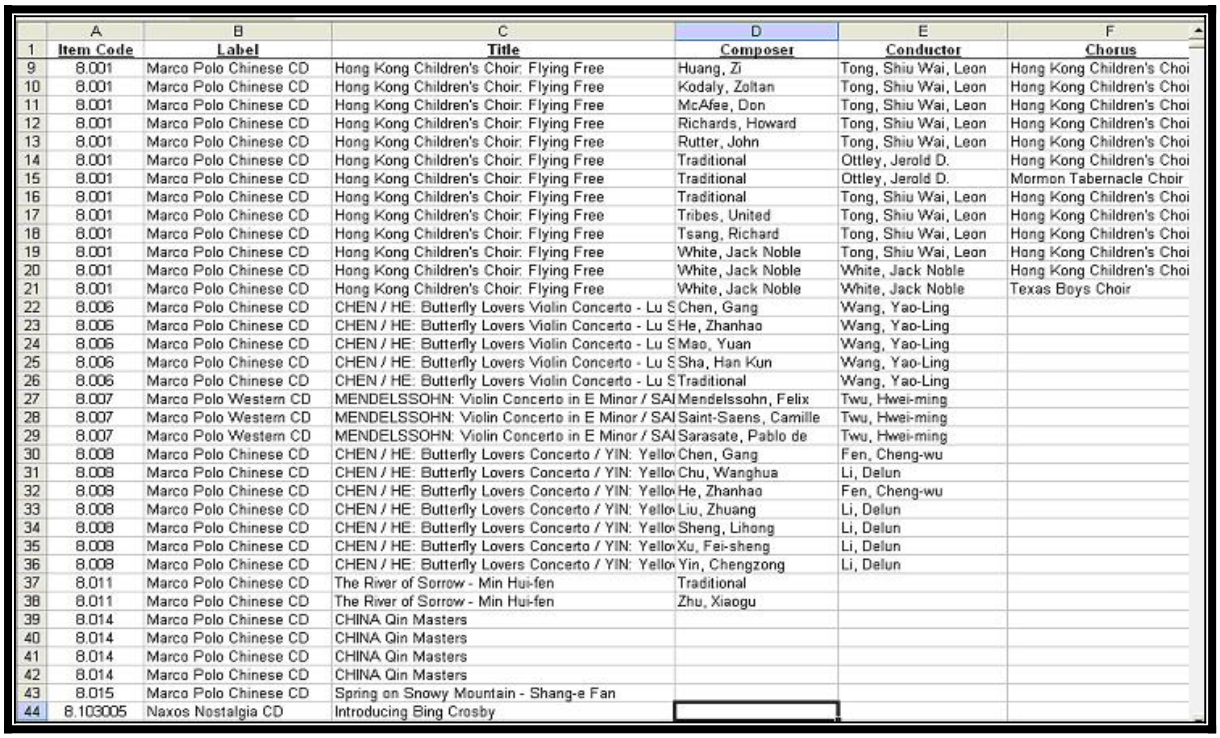
Appendix I – Part 3.

- **Naxos Music Library – Layout of User Interface & Contents.**



Appendix II

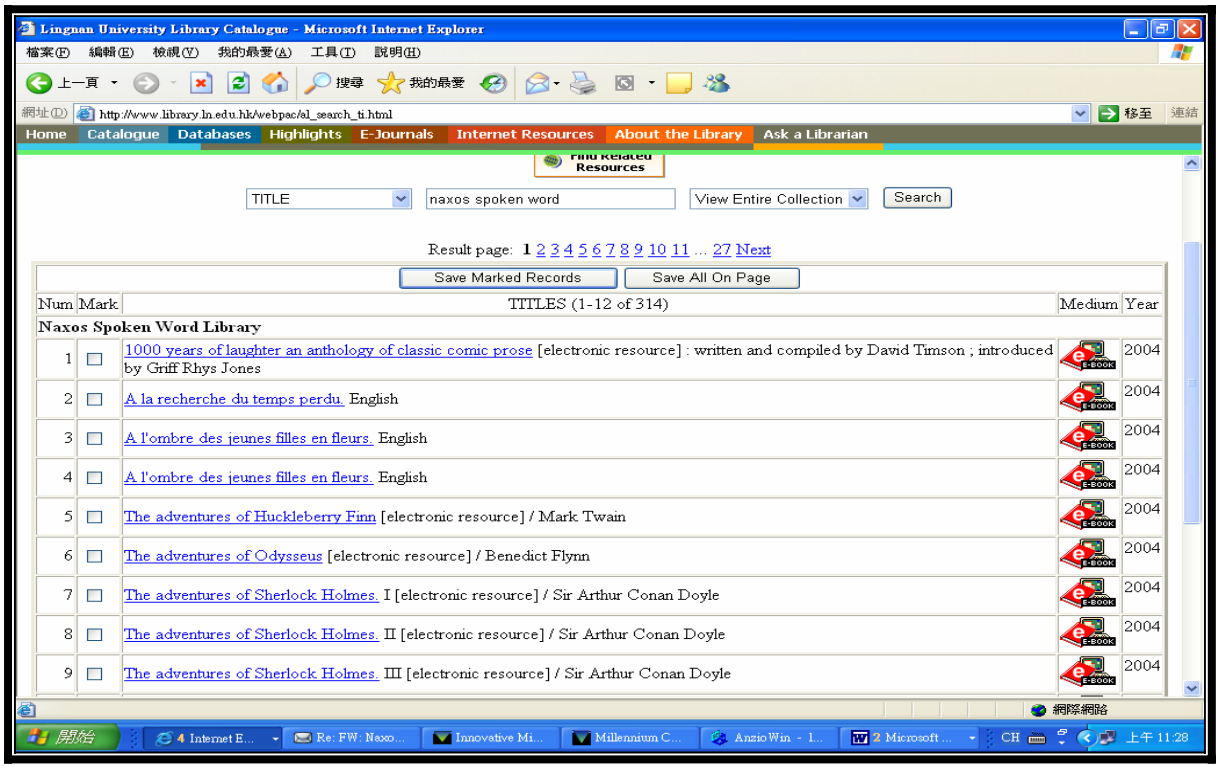
- **Sample of Raw Data Obtained from Naxos Digital Services, Ltd.** (NML titles in Excel file)



	A	B	C	D	E	F
1	Item Code	Label	Title	Composer	Conductor	Chorus
9	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	Huang, Zi	Tong, Shiu Wai, Leon	Hong Kong Children's Choi
10	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	Kodaly, Zoltan	Tong, Shiu Wai, Leon	Hong Kong Children's Choi
11	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	McAfee, Don	Tong, Shiu Wai, Leon	Hong Kong Children's Choi
12	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	Richards, Howard	Tong, Shiu Wai, Leon	Hong Kong Children's Choi
13	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	Rutter, John	Tong, Shiu Wai, Leon	Hong Kong Children's Choi
14	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	Traditional	Ottley, Jerold D.	Hong Kong Children's Choi
15	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	Traditional	Ottley, Jerold D.	Mormon Tabernacle Choir
16	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	Traditional	Tong, Shiu Wai, Leon	Hong Kong Children's Choi
17	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	Tribes, United	Tong, Shiu Wai, Leon	Hong Kong Children's Choi
18	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	Tsang, Richard	Tong, Shiu Wai, Leon	Hong Kong Children's Choi
19	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	White, Jack Noble	Tong, Shiu Wai, Leon	Hong Kong Children's Choi
20	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	White, Jack Noble	White, Jack Noble	Hong Kong Children's Choi
21	8.001	Marco Polo Chinese CD	Hong Kong Children's Choir: Flying Free	White, Jack Noble	White, Jack Noble	Texas Boys Choir
22	8.006	Marco Polo Chinese CD	CHEN / HE: Butterfly Lovers Violin Concerto - Lu S	Chen, Gang	Wang, Yao-Ling	
23	8.006	Marco Polo Chinese CD	CHEN / HE: Butterfly Lovers Violin Concerto - Lu S	He, Zhanhao	Wang, Yao-Ling	
24	8.006	Marco Polo Chinese CD	CHEN / HE: Butterfly Lovers Violin Concerto - Lu S	Mao, Yuan	Wang, Yao-Ling	
25	8.006	Marco Polo Chinese CD	CHEN / HE: Butterfly Lovers Violin Concerto - Lu S	Sha, Han Kun	Wang, Yao-Ling	
26	8.006	Marco Polo Chinese CD	CHEN / HE: Butterfly Lovers Violin Concerto - Lu S	Traditional	Wang, Yao-Ling	
27	8.007	Marco Polo Western CD	MENDELSSOHN: Violin Concerto in E Minor / SAI	Mendelssohn, Felix	Twu, Hwei-ming	
28	8.007	Marco Polo Western CD	MENDELSSOHN: Violin Concerto in E Minor / SAI	Saint-Saens, Camille	Twu, Hwei-ming	
29	8.007	Marco Polo Western CD	MENDELSSOHN: Violin Concerto in E Minor / SAI	Sarasate, Pablo de	Twu, Hwei-ming	
30	8.008	Marco Polo Chinese CD	CHEN / HE: Butterfly Lovers Concerto / YIN: Yello	Chen, Gang	Fen, Cheng-wu	
31	8.008	Marco Polo Chinese CD	CHEN / HE: Butterfly Lovers Concerto / YIN: Yello	Chu, Wanghua	Li, Delun	
32	8.008	Marco Polo Chinese CD	CHEN / HE: Butterfly Lovers Concerto / YIN: Yello	He, Zhanhao	Fen, Cheng-wu	
33	8.008	Marco Polo Chinese CD	CHEN / HE: Butterfly Lovers Concerto / YIN: Yello	Liu, Zhuang	Li, Delun	
34	8.008	Marco Polo Chinese CD	CHEN / HE: Butterfly Lovers Concerto / YIN: Yello	Sheng, Lihong	Li, Delun	
35	8.008	Marco Polo Chinese CD	CHEN / HE: Butterfly Lovers Concerto / YIN: Yello	Xu, Fei-sheng	Li, Delun	
36	8.008	Marco Polo Chinese CD	CHEN / HE: Butterfly Lovers Concerto / YIN: Yello	Yin, Chengzong	Li, Delun	
37	8.011	Marco Polo Chinese CD	The River of Sorrow - Min Hui-fen	Traditional		
38	8.011	Marco Polo Chinese CD	The River of Sorrow - Min Hui-fen	Zhu, Xiaogu		
39	8.014	Marco Polo Chinese CD	CHINA Qin Masters			
40	8.014	Marco Polo Chinese CD	CHINA Qin Masters			
41	8.014	Marco Polo Chinese CD	CHINA Qin Masters			
42	8.014	Marco Polo Chinese CD	CHINA Qin Masters			
43	8.015	Marco Polo Chinese CD	Spring on Snowy Mountain - Shang-e Fan			
44	8.103005	Naxos Nostalgia CD	Introducing Bing Crosby			

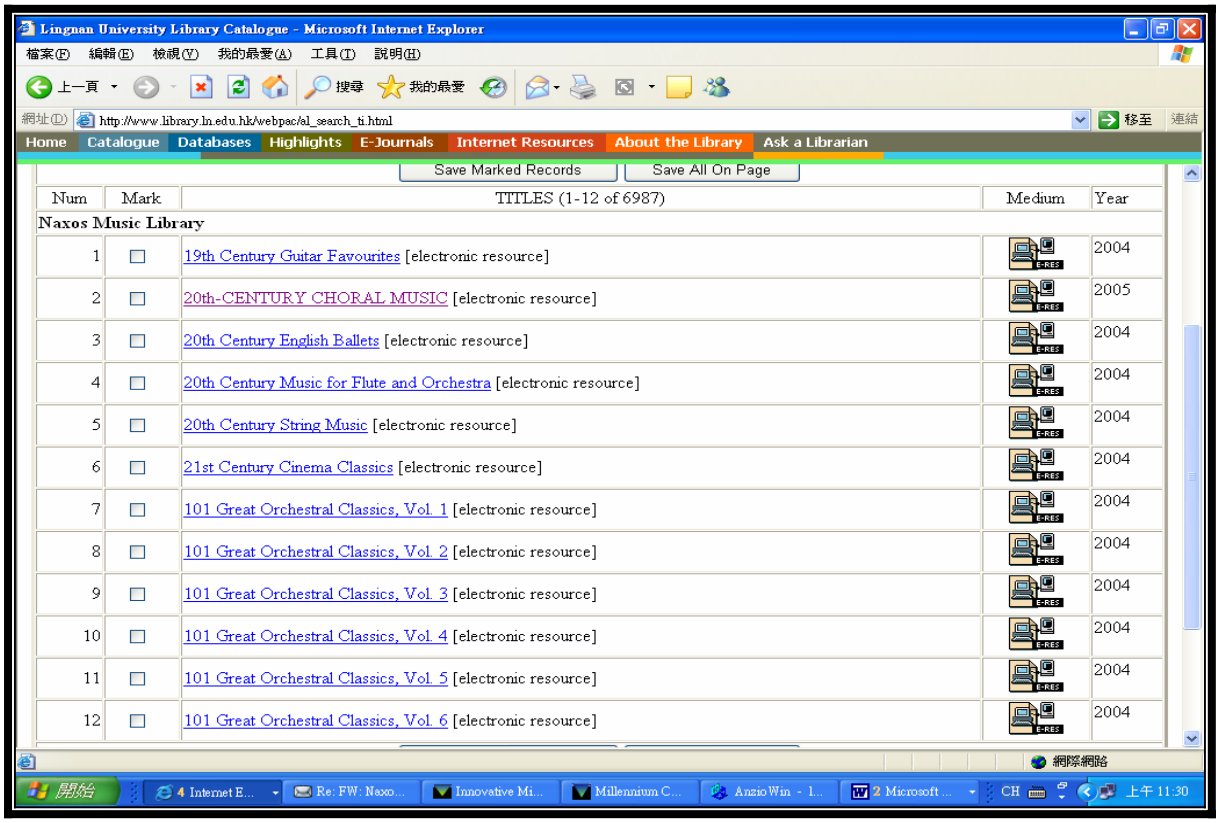
Appendix III – Part 1

- **NSWL Titles Displayed Alphabetically under Lingnan Library's WebPAC.**



Appendix III – Part 2

- **NML Titles Displayed Alphabetically under Lingnan Library's WebPAC.**



Appendix IV

Skovhus, Bo (baritone) / Amps, Kym (soprano) / Jando, Jeno (piano) / Ramiro, Yordy (tenor)
Minimum system requirements: MS Windows 98SE, 2000, XP with MS IE 6.0 / Mozilla 1.7.1 / FireFox 1PR / Netscape 7.1 / Opera 7.53 and Media Player 9.0 / 10.0
Mode of Access: World Wide Web browser

Subject: Music -- Computer network resources

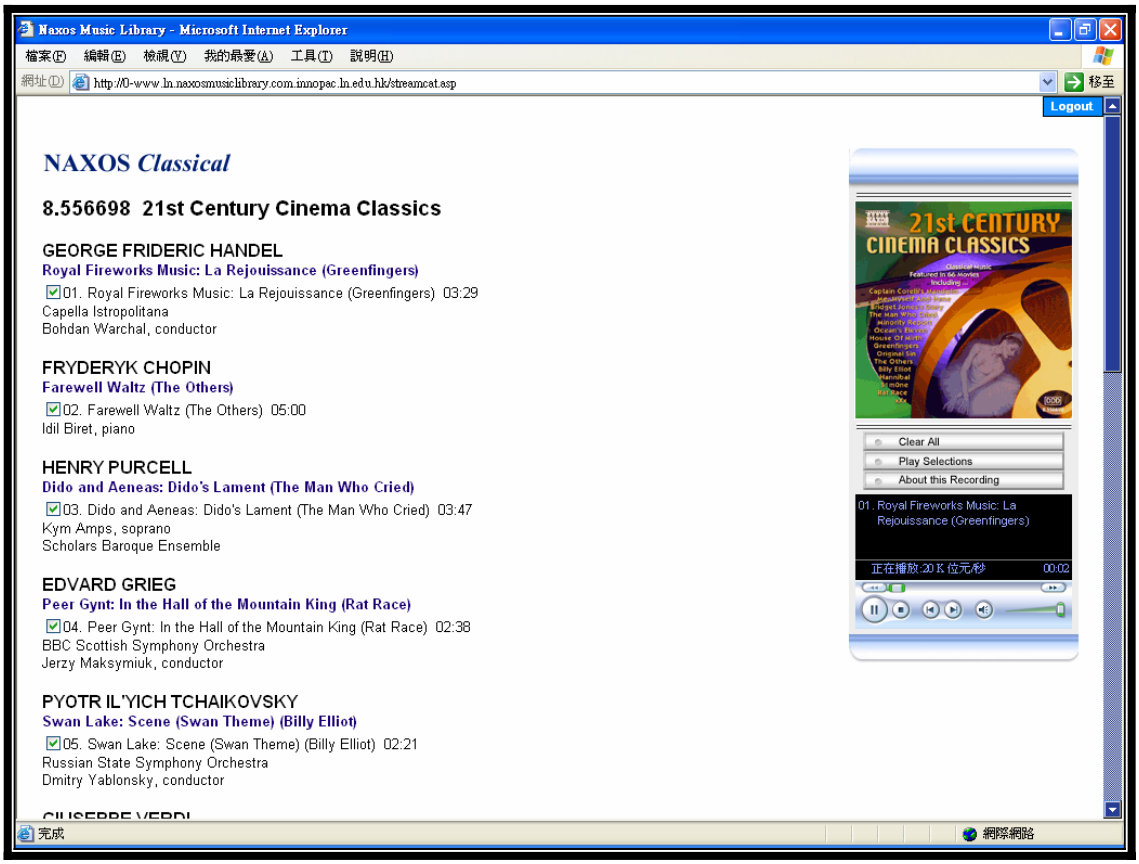
Alt author:
Chopin, FrÃ©dÃ©ric, 1810-1849
Debussy, Claude, 1862-1918
Faure, Gabriel, 1845-1924
Grieg, Edvard, 1843-1907
Handel, George Frideric, 1685-1759
Haydn, Joseph, 1732-1809
Mendelssohn-Bartholdy, Felix, 1809-1847
Mozart, Wolfgang Amadeus, 1756-1791
Purcell, Henry, 1659-1695
Schubert, Franz, 1797-1828
Schumann, Robert, 1810-1856
Strauss, Johann, 1825-1899
Tchaikovsky, Peter Ilich, 1840-1893
Verdi, Giuseppe, 1813-1901
Summerly, Jeremy
Maksymiuk, Jerzy
Warchal, Bohdan
Bramall, Anthony
Halasz, Michael
Wildner, Johannes
Yablonsky, Dmitry
Rahbari, Alexander
Biret, Idil
Thiollier, Francois-Joel
Beckley, Lisa
Skovhus, Bo
Amps, Kym
Jando, Jeno, 1952-
Ramiro, Yordy, 1949-
Scholars Baroque Ensemble
Kodaly Quartet
Oxford Camerata
BBC Scottish Symphony Orchestra
Capella Istropolitana
SlovenskÃ¡ filharmÃ³nia
Nicolaus Esterhazy Sinfonia
Slovak State Philharmonic Orchestra, Kosice
Russian State Symphony Orchestra
SymfonickÃ½ orchester Ã‰s. rozhlasu v Bratislave
Naxos Digital Services

Alt. title: Naxos Music Library
Music #: 8.556698 Naxos Digital Services Ltd

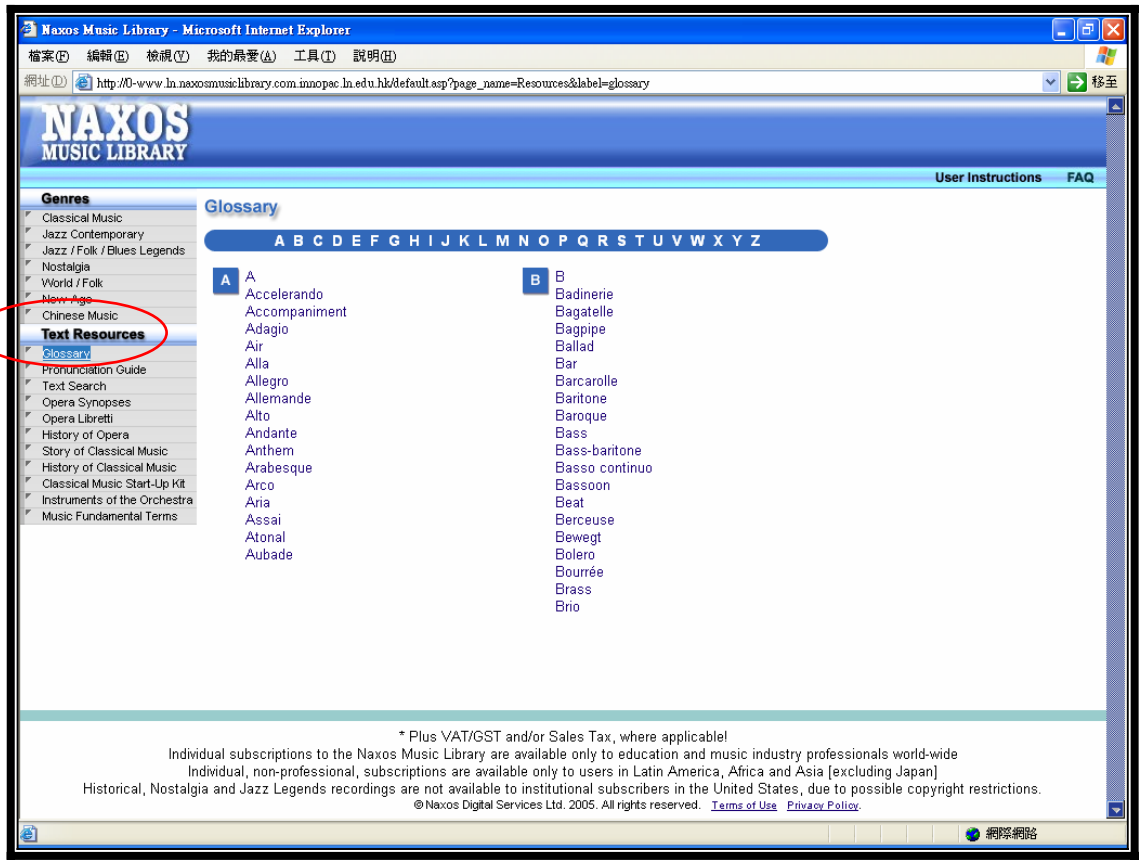
Record: Prev Next

START OVER | REQUEST | EXPORT | MARC DISPLAY | SEARCH HKALL | SEARCH OTHER HKLIBRARIES | SEARCH BRITANNICA | ANOTHER SEARCH | (Search History)

Appendix V


Naxos Music Library - Microsoft Internet Explorer
檔案(F) 編輯(E) 檢視(V) 我的最愛(A) 工具(T) 說明(H)
網址(D) http://0-www.ln.naxosmusiclibrary.com.innopac.ln.edu.hk/streamcat.asp
移至
Logout
NAXOS Classical
8.556698 21st Century Cinema Classics
GEORGE FRIDERIC HANDEL
Royal Fireworks Music: La Rejouissance (Greenfingers)
01. Royal Fireworks Music: La Rejouissance (Greenfingers) 03:29
Capella Istropolitana
Bohdan Warchal, conductor
FRYDERYK CHOPIN
Farewell Waltz (The Others)
02. Farewell Waltz (The Others) 05:00
Idil Biret, piano
HENRY PURCELL
Dido and Aeneas: Dido's Lament (The Man Who Cried)
03. Dido and Aeneas: Dido's Lament (The Man Who Cried) 03:47
Kym Amps, soprano
Scholars Baroque Ensemble
EDVARD GRIEG
Peer Gynt: In the Hall of the Mountain King (Rat Race)
04. Peer Gynt: In the Hall of the Mountain King (Rat Race) 02:38
BBC Scottish Symphony Orchestra
Jerzy Maksymiuk, conductor
PYOTR IL'YICH TCHAIKOVSKY
Swan Lake: Scene (Swan Theme) (Billy Elliot)
05. Swan Lake: Scene (Swan Theme) (Billy Elliot) 02:21
Russian State Symphony Orchestra
Dmitry Yablonsky, conductor
21st CENTURY CINEMA CLASSICS
Clear All
Play Selections
About this Recording
01. Royal Fireworks Music: La Rejouissance (Greenfingers)
00:02
完成
網際網路

Appendix VI


Naxos Music Library - Microsoft Internet Explorer
http://0-www.ln.naxosmusiclibrary.com.innopac.ln.edu.hk/default.asp?page_name=Resources&label=glossary
NAXOS
MUSIC LIBRARY
User Instructions
FAQ
Genres
Classical Music
Jazz Contemporary
Jazz / Folk / Blues Legends
Nostalgia
World / Folk
New Age
Chinese Music
Text Resources
Glossary
Pronunciation Guide
Text Search
Opera Synopses
Opera Libretti
History of Opera
Story of Classical Music
History of Classical Music
Classical Music Start-Up Kit
Instruments of the Orchestra
Music Fundamental Terms
Glossary
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
A
A
Accelerando
Accompaniment
Adagio
Air
Alla
Allegro
Allemande
Alto
Andante
Anthem
Arabesque
Arco
Aria
Assai
Atonal
Aubade
B
B
Badinerie
Bagatelle
Bagpipe
Ballad
Bar
Barcarolle
Baritone
Baroque
Bass
Bass-baritone
Basso continuo
Bassoon
Beat
Berceuse
Bewegt
Bolero
Bourrée
Brass
Brio
* Plus VAT/GST and/or Sales Tax, where applicable!
Individual subscriptions to the Naxos Music Library are available only to education and music industry professionals world-wide
Individual, non-professional, subscriptions are available only to users in Latin America, Africa and Asia [excluding Japan]
Historical, Nostalgia and Jazz Legends recordings are not available to institutional subscribers in the United States, due to possible copyright restrictions.
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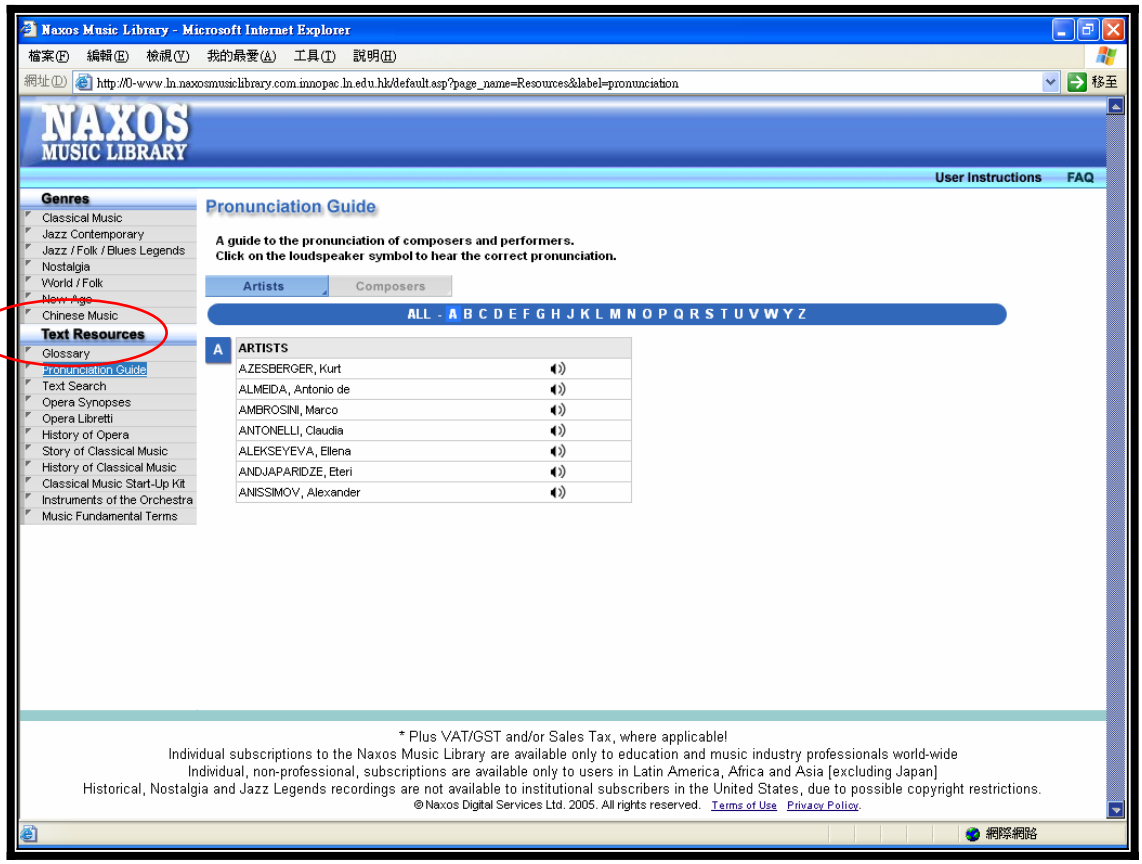
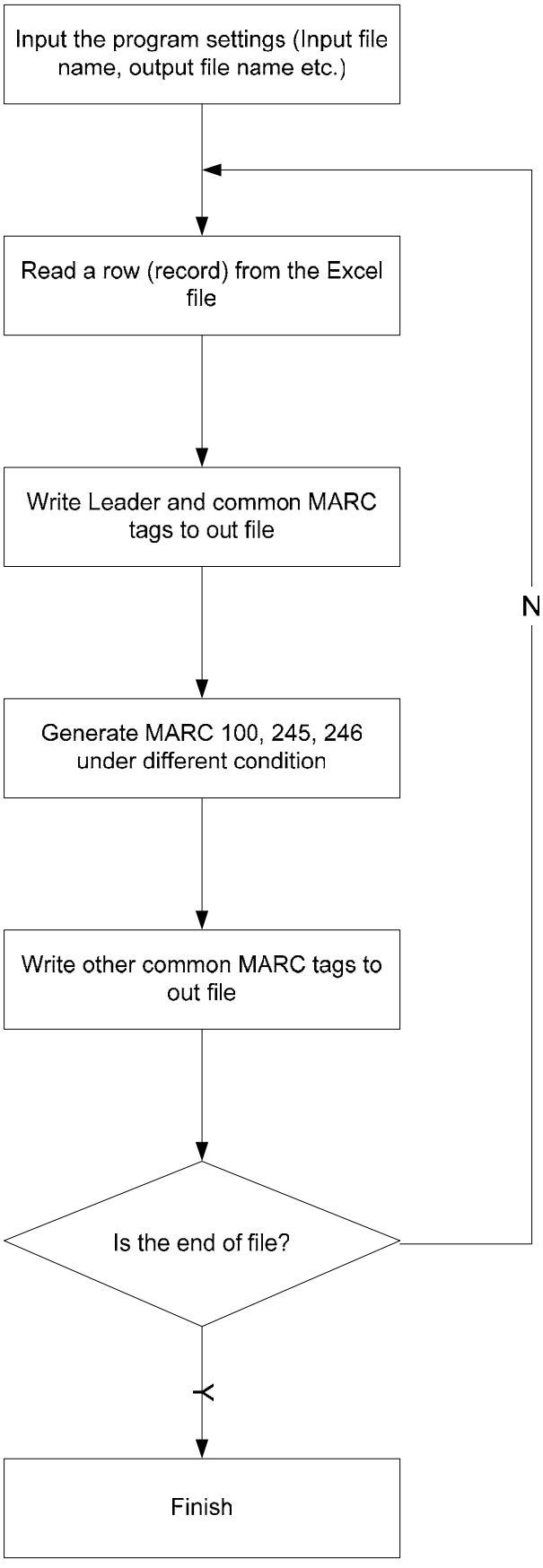
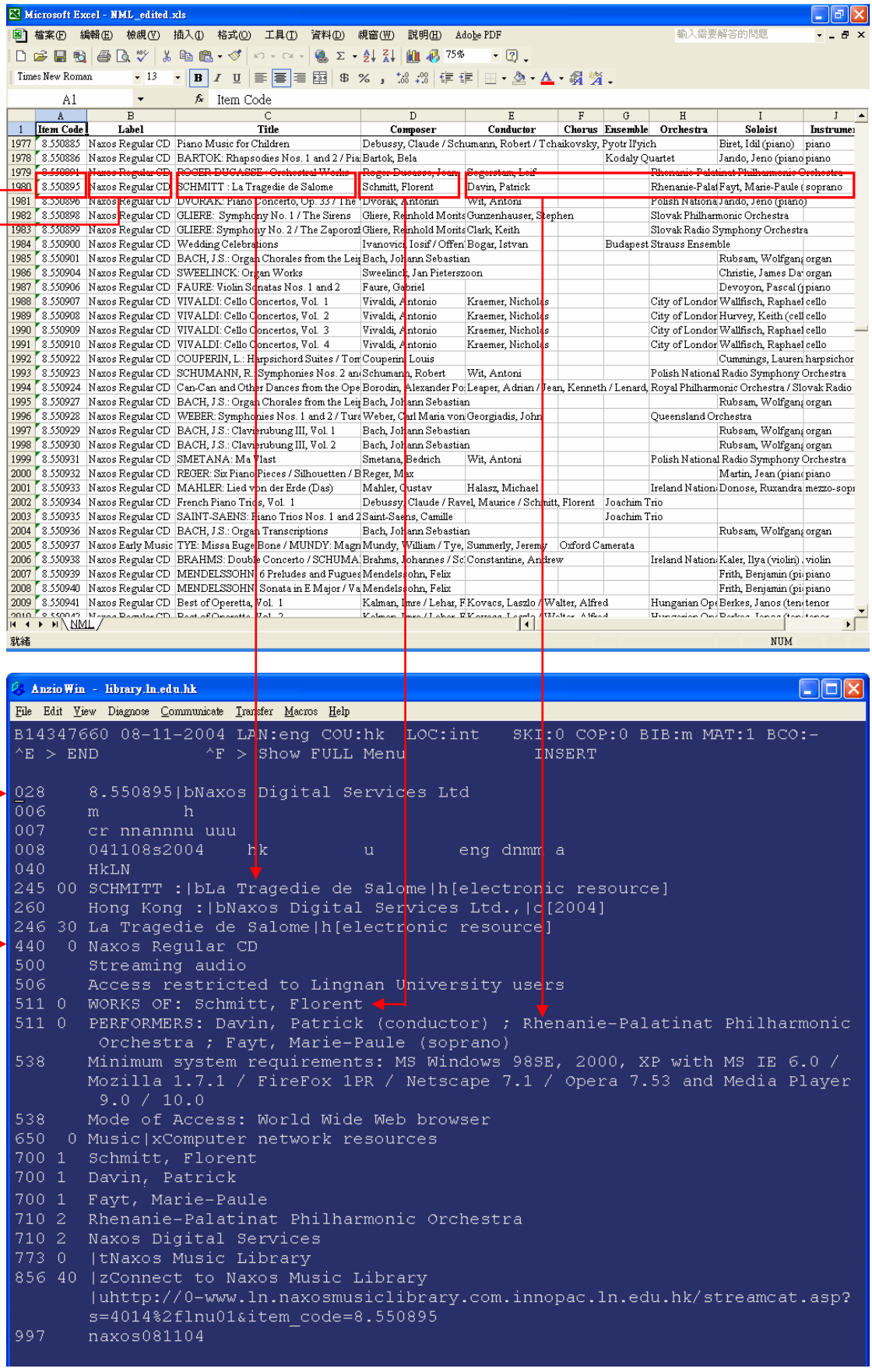
Appendix VII



Appendix VIII -- Flowchart of Converting NML Excel Data into MARC



Appendix IX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AnzioWin - library.ln.edu.hk
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^E > END ^F > Show FULL Menu INSERT
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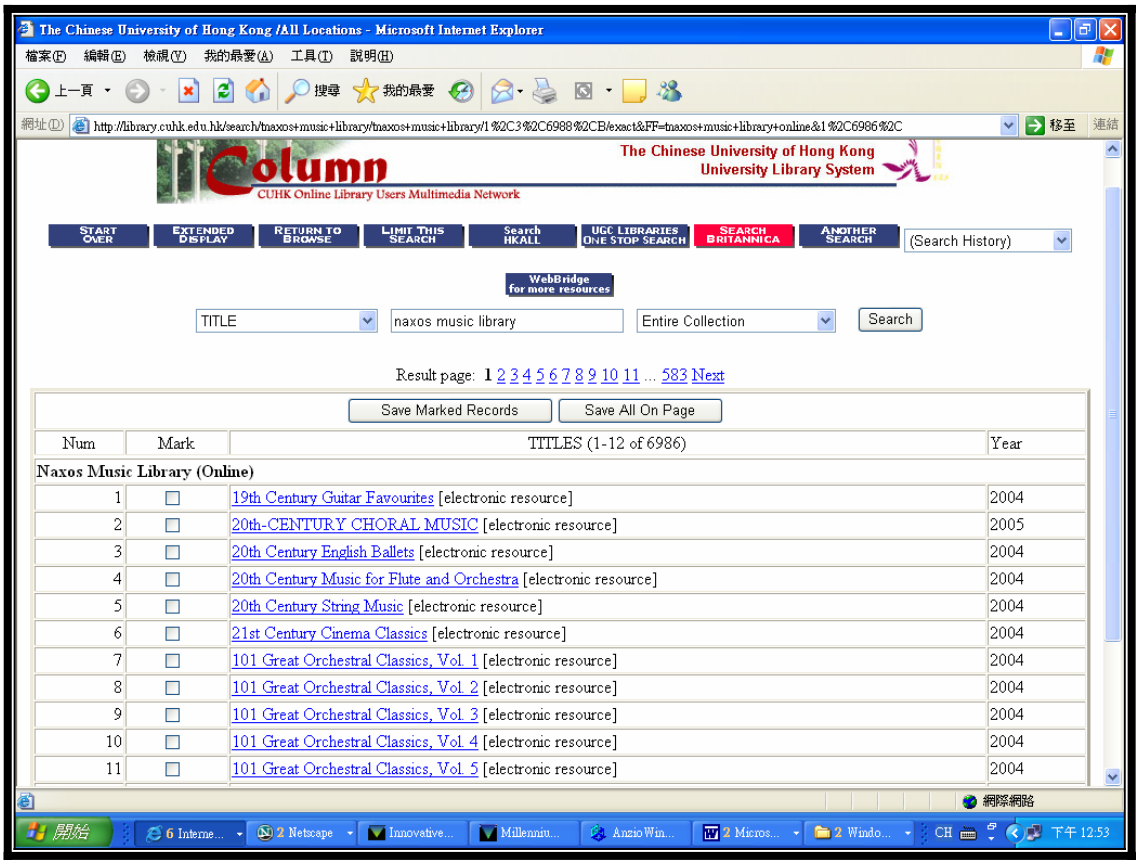
260 Hong Kong :|bNaxos Digital Services Ltd.,|c[2004]
246 30 La Tragedie de Salome|h[electronic resource]
440 0 Naxos Regular CD
500 Streaming audio
506 Access restricted to Lingnan University users
511 0 WORKS OF: Schmitt, Florent
511 0 PERFORMERS: Davin, Patrick (conductor) ; Rhenanie-Palatinat Philharmonic Orchestra ; Fayt, Marie-Paule (soprano)
538 Minimum system requirements: MS Windows 98SE, 2000, XP with MS IE 6.0 / Mozilla 1.7.1 / FireFox 1PR / Netscape 7.1 / Opera 7.53 and Media Player 9.0 / 10.0
538 Mode of Access: World Wide Web browser
650 0 Music|xComputer network resources
700 1 Schmitt, Florent
700 1 Davin, Patrick
700 1 Fayt, Marie-Paule
710 2 Rhenanie-Palatinat Philharmonic Orchestra
710 2 Naxos Digital Services
773 0 |tNaxos Music Library
856 40 |zConnect to Naxos Music Library
|uhttp://0-www.ln.naxosmusiclibrary.com.innopac.ln.edu.hk/streamcat.asp?s=4014%2flnu01&item_code=8.550895
997 naxos081104

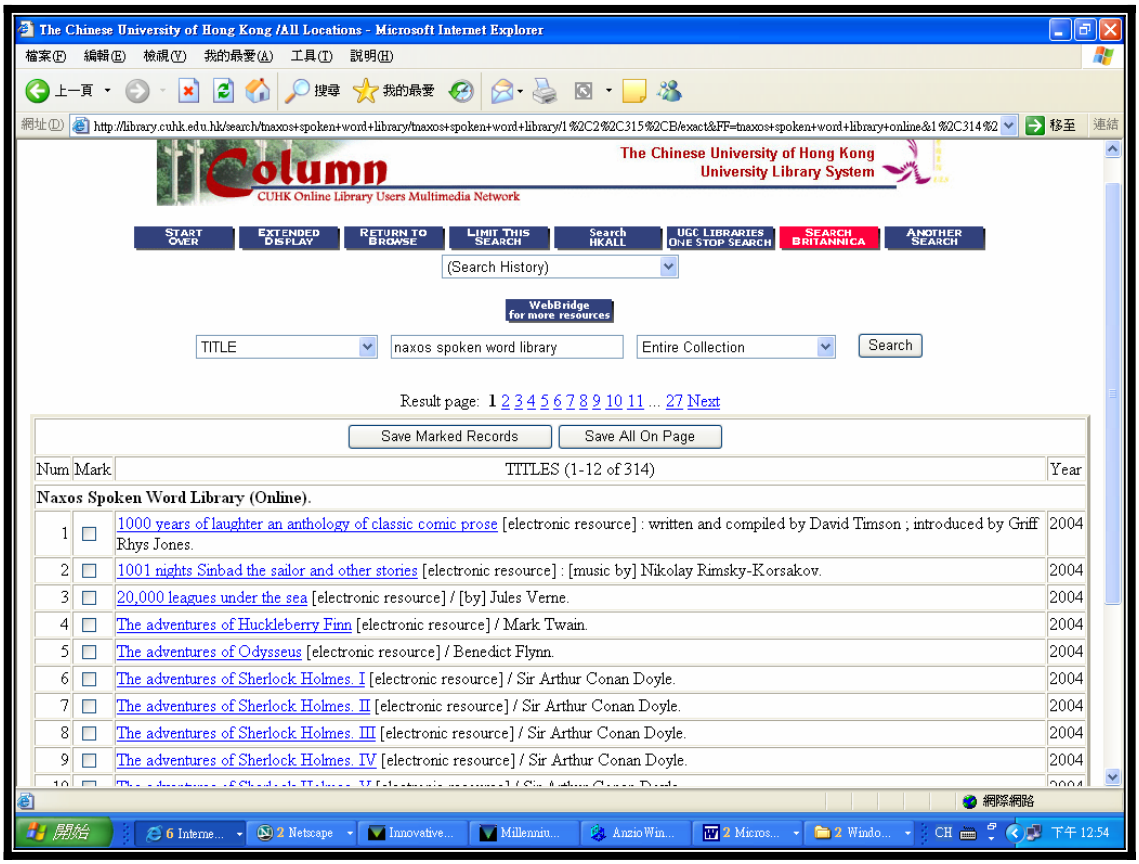
Appendix X – Part 1.

- Full set of NML records available under Chinese University of Hong Kong Library's OPAC:



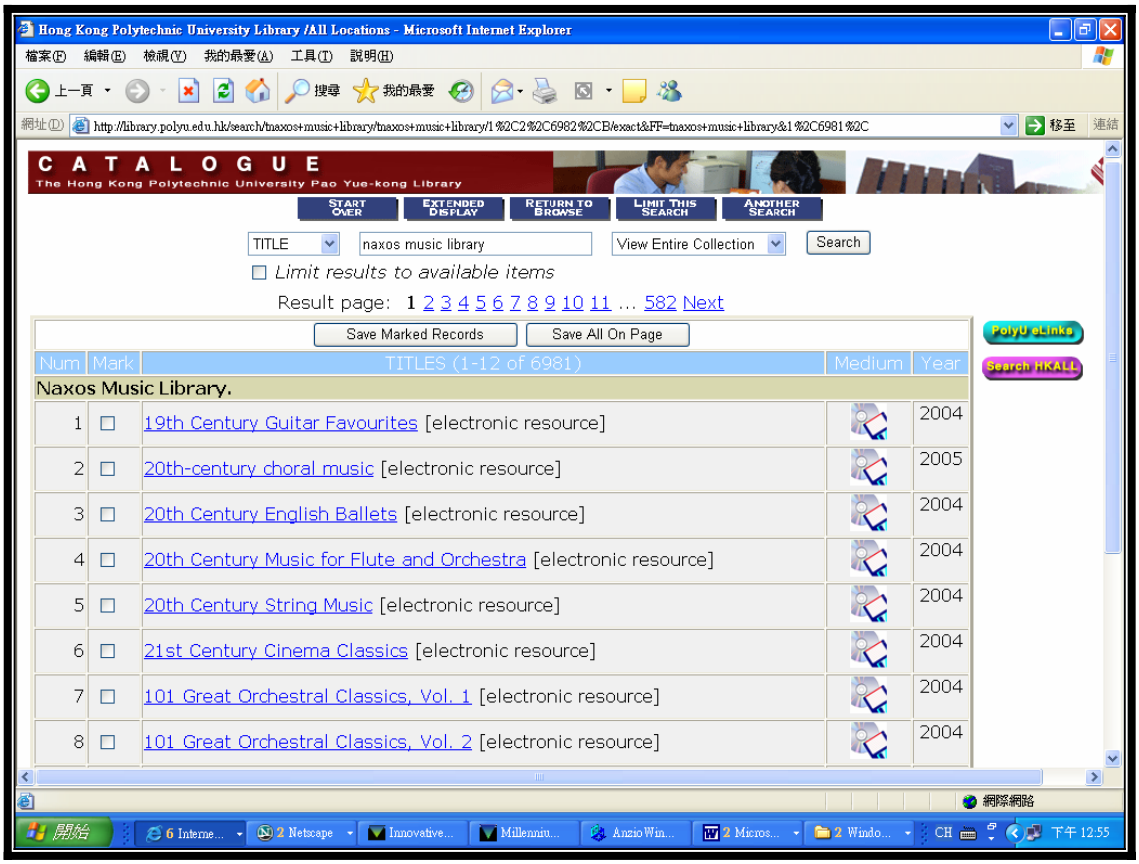
Appendix X – Part 2.

- Full set of NSWL records available under Chinese University of Hong Kong Library's OPAC:



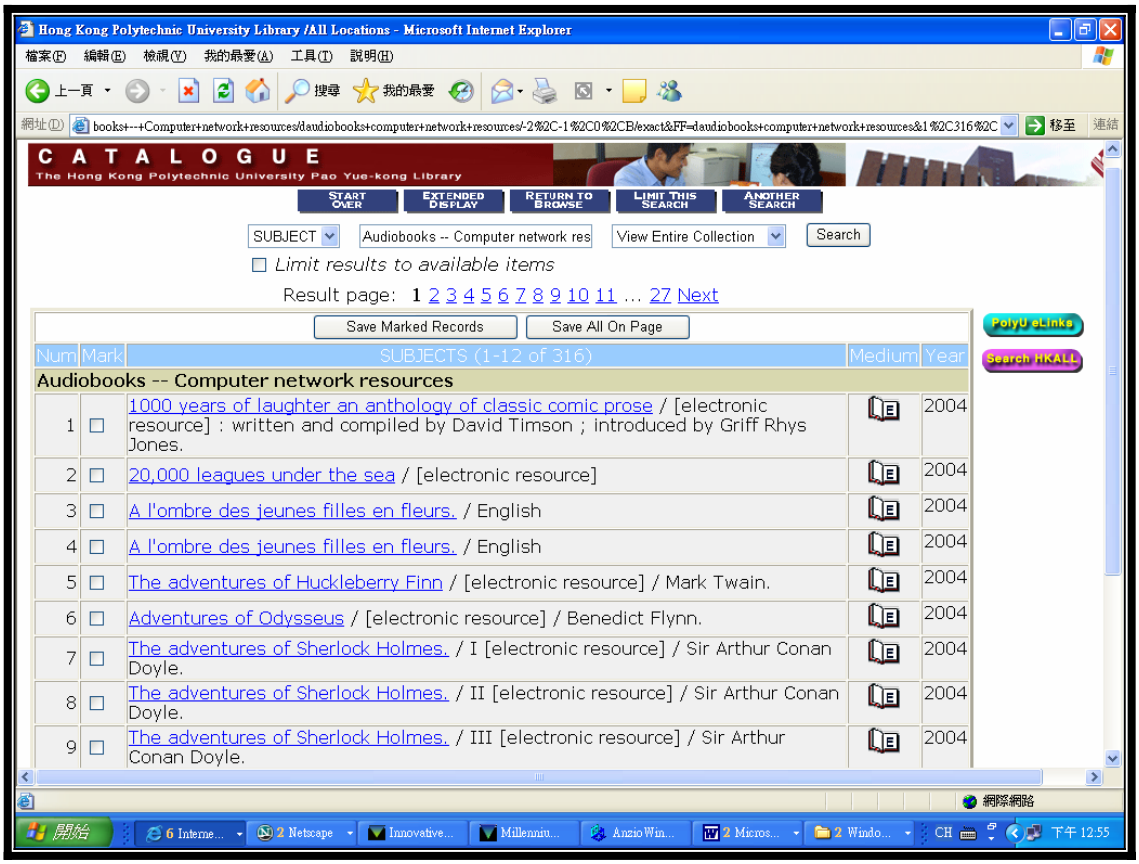
Appendix X – Part 3.

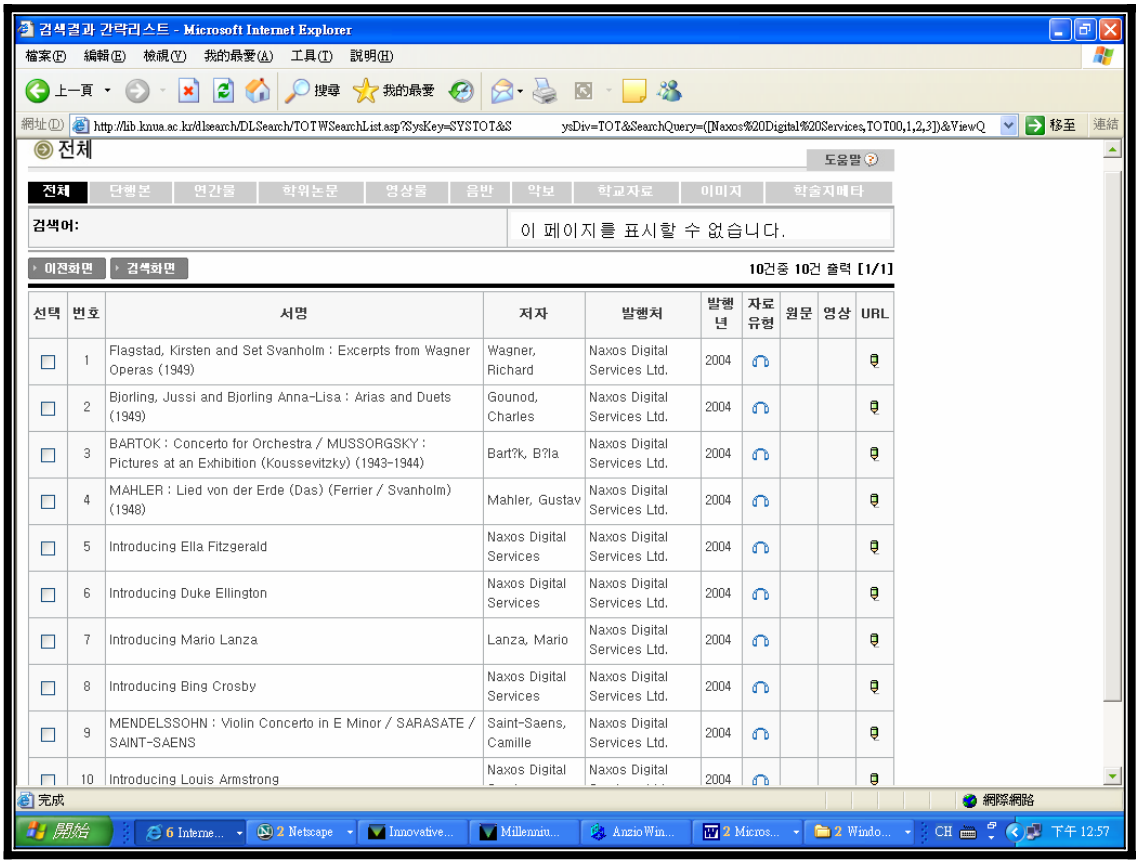
- Full set of NML records available under Hong Kong Polytechnic University Library's OPAC:



Appendix X – Part 4.

- Full set of NSWL records available under Hong Kong Polytechnic University Library's OPAC:



Appendix X – Part 5.

- NML sample records available under Korean National University of Arts Library: