

ALEPH v18 New Authority Control Setup and Testing

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Aleph 18.01 New Authority Control Setup

Introduction

This document is based on Stony Brook University Library's experience in implementing Authority Control in Aleph 18. It is a result of an intense development and testing effort that we undertook in the summer and fall of 2007.

The effort centered around three full conversions of Stony Brook University library data and extensive tests by a skilled and very attentive team. The team included authority catalogers/librarians, reference librarians and the Web OPAC committee. It was led by me and David Bolotine, who is head of cataloging and is an expert on Library of Congress Authority handling.

David developed many test scenarios to fully vet the logic and to figure out how to best implement it.

As a result of this effort, Stony Brook University was the first Aleph customer to fully implement full Authority Control in a production environment. We have been using this logic since December 2007. The professional librarians at Stony Brook University are very happy with the improved features of the system and continually notice where it returns better results. We have received positive comments from our users.

We developed this guide as a road map to implementing the logic on production. We have shared copies with over 30 universities now and have improved the document in response to their feedback.

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To implement Authority Control, Aleph has to be in version 18.01 with Service Pack 1117 or higher. SLGA18 in this document refer to Aleph Version 18.01 System Librarian's Guide – Authorities.

XXX01: The files need to be set up in the Bibliographic library

tab_acc_category : (xxx01)

This is a new file and can be copied from a_tree. Change the parameters of second column to 1 for the fields .

1 - The system will take into account the second and third
! positions of the tags for heading uniqueness and authority
! matching algorithms.

!!!!-!

100## 1

110## 1

111## 1

130## 0

240## 0

245## 1

246## 1

247## 1

430## 0

440## 0

600## 1

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610## 1
 611## 1
 630## 1
 648## 1
 650## 1
 651## 1
 655## 1
 700## 1
 710## 1
 711## 1
 730## 0
 800## 1
 810## 1
 811## 1
 830## 0

tab_filing: (xxx01)

Check tab00 ACC (browse index) section, column 5 which is the filing procedure that is specified in tab_filing. The filing procedure for Author, Title and Subjects are 01, 11 and 12 in the following case.

!BROWSE Index			tab00				
!	2	3	4	5	6	7	11
H	TTL	ACC		11	00	00	Titles
H	TTLC	ACC		61	00	00	Titles Chinese
H	TTLJ	ACC		62	00	00	Titles Japanese
H	TTLK	ACC		63	00	00	Titles Korean
H	TRT	ACC		11	00	00	Title/Related Titles
H	ATH	ACC		01	00	00	Authors
H	AUT	ACC		01	00	00	Authors/Names
H	AUTC	ACC		51	00	00	Authors Chinese
H	AUTJ	ACC		52	00	00	Authors Japanese
H	AUTK	ACC		53	00	00	Authors Korean
H	AWT	ACC		01	00	00	Authors+Titles
H	SRS	ACC		11	00	00	Series
H	SUB	ACC		12	00	00	Subjects (all)
H	SUL	ACC		11	00	00	LC Subjects
H	SUM	ACC		11	00	00	MeSH Subjects
H	SUE	ACC		11	00	00	NLC English Subjects
H	ACO	ACC		11	00	00	A.Corp
H	TUT	ACC		11	00	00	Uniform title
H	SPE	ACC		11	00	00	Person
H	SCO	ACC		11	00	00	Corp.
H	SME	ACC		11	00	00	Meeting
H	SUT	ACC		11	00	00	U.Title
H	SGE	ACC		11	00	00	Geographic
H	PST	ACC		22	00	00	LC Call Number
H	GNO	ACC		20	00	00	Gov.Doc.Number
H	IPS	ACC		20	00	00	Item Process Status
H	IPP	ACC		20	00	00	Sub Library Code+Ite
H	KYZ	ACC		12	00	00	Subjects -vxyz
H	SULX	ACC		11	00	00	LC Subjects -vxyz

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The following **lines in Blue** need to be added into tab_filing (xxx01) in author, title and subject filing procedures.

(F- filing routine for z01_rec_key in oracle table z01

N- Normalization filing routine for z01_normalized_text in oracle table z01.

D- display text filing routine for z01_display_text in oracle table z01)

tab_filing

```
01 D end_punctuation    :;=;/.
01 N end_sub_punctuation :;=;/.
01 N to_blank          #
01 N add_prefix_hash   7
01 F to_blank          #
01 F add_prefix_hash   7
01 F del_subfield
01 F to_lower
01 F abbreviation
01 F suppress
01 F compress           '
01 F to_blank           /-;;
01 F to_blank           !@$%^&*()_+={ }[]:";<>?./~`
01 F mc_to_mac
01 F pack_spaces
01 F char_conv          FILING-KEY-01
!*rem titles subjects
11 D end_punctuation    :;=;/.
11 N end_sub_punctuation :;=;/.
11 N to_blank          #
11 N add_prefix_hash   7
11 F to_blank          #
11 F add_prefix_hash   7
11 F del_subfield
11 F to_lower
11 F suppress
11 F abbreviation
11 F numbers
11 F non_filing
11 F compress           '
11 F to_blank           !@$%^&*()_+={ }[]:";<>?./~`
11 F expand_num
11 F pack_spaces
11 F char_conv          FILING-KEY-01
!* for subject (all)
12 D end_punctuation    :;=;/.
12 N end_sub_punctuation :;=;/.
12 N to_blank          #
12 N add_prefix_hash   7
```

12 F to_blank #
12 F add_prefix_hash 7
12 F to_lower
12 F del_subfield
12 F abbreviation
12 F suppress
12 F numbers
12 F compress ""^<>%
12 F to_blank ./-:;,{}[]()?!_
12 F pack_spaces
12 F char_conv FILING-KEY-01
12 F expand_num
12 F non_filing
12 F to_blank ^

Caution: Be sure, you need to have **to_blank #** filing routine before **add_prefix_hash 7**. The “#” shouldn’t appear in any filing routine after **add_prefix_hash** routine.

XXX10: The files need to set up in Authority library.

tab_acc_category: (xxx10)

This is a new file and can be copied from a_tree . Change the value of second column from 0 to 1.

! 1 2
!!!!-!
100## 1
110## 1
111## 1
130## 0
150## 1
151## 1
155## 1
400## 1
410## 1
411## 1
430## 0
450## 1
451## 1
455## 1
COR## 0
500## 1
510## 1
511## 1
530## 0
550## 1
551## 1

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Note: 5XX is optional in the tab_acc_category. If you use tab07 for defining links between authority headings for the creation of z103 link records, the 5XX has to be in the tab_acc_category. This is not in the SLGA18 doc. (Thanks to Allison from Harvard and Randy from Exlibris for discovering it).

tab11_acc: (xxx10)

The following two lines need to be added into tab11_acc of authority library (SLGA18 p13-14)

```
4##### 7*      DUP -7
5#####      GXX -wi056
```

tab_filing: (xxx10)

Add two lines to the ACC routine number 11. You may have a different number of filing procedures for ACC index routine. You can find it in tab00. It is the value of column 5 in ACC section. Make sure the “#” doesn’t appear in any routine (to_blank, compress,etc) after add_prefix_hash.

```
!ACC browse index stb10/tab00
H GEN ACC 11 00 General
H TOP ACC 11 00 LCSH
H LCN ACC 11 00 00 Class numbers
H PER ACC 11 00 00 Personal names
H COR ACC 11 00 00 Corporate names
H MET ACC 11 00 00 Meeting names
H TIT ACC 11 00 00 Uniform titles
H GEO ACC 11 00 00 Geographic names
H GNR ACC 11 00 00 Genre
H SBD ACC 11 00 00 GenSub-division
H CBD ACC 11 00 00 ChronSub-division
H GBD ACC 11 00 00 GeogSub-division
!--GXX for 5XX, DUP for Ambiguous heading 07/19/2007
H Z0101 ACC 11 00 00 General (Brief rec.)
H GXX ACC 11 00 00 General (Secondary)
H DUP ACC 11 00 00 Duplicate
```

tab_filing

```
11 F to_blank #
11 N add_prefix_hash 7
```

tab00 : (xxx10)

Added GXX for 5XX, DUP for Ambiguous headings in the ACC index section.

```
H Z0101 ACC 11 00 00 General (Brief rec.)
H GXX ACC 11 00 00 General (Secondary)
H DUP ACC 11 00 00 Duplicate
```

tab_fix: (xxx10)

Add fix_doc_aut_duplicate in INS, INS2 and UE-01. SLGA18 p.39 states: “add fix_doc_aut_duplicate in OCLC.” This is wrong and will create \$\$7 for every cross

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reference even though it is not a conflict heading. Be sure, no `fix_doc_aut_duplicate` is added to the OCLC fix routine. The `tab_fix` for `stb10` should look like:

```

UE-01 fix_doc_aut_duplicate
INS fix_doc_preferred
INS fix_doc_aut_duplicate
OCLC fix_doc_perferred
OCLC fix_doc_merge
INS2 fix_doc_aut_duplicate
UE-01 fix_doc_aut_duplicate
    
```

edit_field.eng (stb10)

Add "-7" to column 6 to strip out subfield \$\$7. Should look like:

1	2	3	4	5	6	7	8	9	10
1	#	GEN##	C		-7				
2						a	A		
2						b	A	^	
2						c	A	^	
2						d	A	^	
2						q	A	^	
2						t	A	^	^
2						z	A	^--^	
2						x	A	^--^	
2						y	A	^--^	
2						v	A	^--^	
2						P	A	^--^	
1	#	4####	S		-w297				
2						a	A	^	
2						a	8	^--^	
2						b	A	^	
2						c	A	^	
2						d	A	^	
2						v	A	^--^	
2						x	A	^--^	
1	#	4####	D		-w2897				
2						a	A	^	
2						b	A	^	
2						c	A	^	
2						d	A	^	
2						q	A	^	
2						t	A	^	
2						v	A	^--^	
2						x	A	^--^	
2						#	A		

Minimal Indexes necessary to run and activate New Authority Control:

Important:

Before running index jobs, you need have all of the above files ready and in place, then using p_manage_21 globally change UPD from “N” to “Y” in authority library. Then you can run the index as following sequence. The jobs can be run from Service Utility in the GUI or Command line in the Server.

STB01:

p_manage_102,

```
Aleph18>csh -f p_manage_102 stb01, stb10,1,000000000,999999999,1xxt,9,>&  
$alephe_scratch/p_manage_102.log &
```

p_manage_02

```
Aleph18>csh -f p_manage_02 stb01,0,000000000,999999999,,9,Y,N,>&  
$alephe_scratch/p_manage_02_stb01.log &
```

STB10:

p_manage_02,

```
Aleph18>csh -f p_manage_02 stb10,1,000000000,999999999,,7,Y,N,>&  
$alephe_scratch/p_manage_02_stb10.log &
```

p_manage_12 :

to create link table z103 if you use tab07 for link between authority headings.

```
Aleph18>csh -f p_manage_12 stb10,Y,N,000000000,999999999,06,>&  
$alephe_scratch/p_manage_12_stb10.log &
```

Testing

The list below is a sample of subject headings and cross references which were identified in version 17 as ambiguous or conflicting headings. After the new authority control implementation they were searched and all passed the test. What follows are illustrated examples of the types of problems encountered and their ultimate solution.

Portraits --- Used in Subject Heading (150) and Series title cross reference (430)

PAS --- Used as Corporate bodies cross reference (410) in 8 different records

China --- China used as geographic subject heading (151)

Sin --- Used as subject heading (150) and as cross reference (451) of ‘China’

Phonology --- Used as cross reference(450) in two separate subject headings

Mythology --- Used as Uniform tile 130 and topic heading 150

Environmental biotechnology --- X-ref 450 and 130

Developmental disabilities --- 150 and 130

Abstinence --- Two identical cross references (450) in separate headings

Arts, Useful --- as above

Let us see the difference before and after new authority implementation.

Example 1: Portraits

When a term in an index in the authority library matches the spelling of a term in another index the system cannot function correctly.

Screenshot 1-a confirms the duplication by identifying their different index locations on the brief list display: a subject heading and a matching cross reference for a series uniform title.

1-a:

Heading	Cross Reference	See Also Reference
Collection Portraits.	Portraits	
Portraits.	Portraiture	g Art

150 subject heading identical to 430 title X ref

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Screenshot 1-b indicates a problem when a subject browse search reveals existing documents and an adjacent x-ref symbol. This occurs when authority records in different indexes have identical texts.

1-b:

Before implementation:

Browse

Base: Include Expanded AUT Data

Headings List: Include BIB/HOL data

Enter Starting Text: ...

Enter Include Text:

# Docs	Ref.	Headings	Auth. info.
	+	Portraitists	STB10, 450 0, bab, UPD=Y
5	+	Portraits	STB10, 430 0, aaa, UPD=N
		Portraits, African	STB10, 150 0, bab, UPD=Y
1		Portraits, African -- Exhibitions	
10		Portraits, American	STB10, 150 0, bab, UPD=Y
1		Portraits, American -- 18th century	
1		Portraits, American -- 20th century -- Exhibitions	
9		Portraits, American -- Catalogs	
17		Portraits, American -- Exhibitions	

After implementation:

Base: Include Expanded AUT Data

Headings List: Include BIB/HOL data

Enter Starting Text: ...

Enter Include Text:

# Docs	Ref.	Headings	Auth. info.
	+	Portraitists	STB10, 450 0, bab, UPD=Y, 50
5		Portraits	STB10, 150 0, bab, UPD=Y, 50
		Portraits, African	STB10, 150 0, bab, UPD=Y, 50
1		Portraits, African -- Exhibitions	
11		Portraits, American	STB10, 150 0, bab, UPD=Y, 50
1		Portraits, American -- 18th century	
1		Portraits, American -- 19th century -- Exhibitions	
1		Portraits, American -- 20th century -- Exhibitions	
9		Portraits, American -- Catalogs	
17		Portraits, American -- Exhibitions	

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Screenshot 1-c confirms the problem in an authority library search when the conflict symbols of three question marks appear in the right column.

1-c:

Before implementation:

# Docs	Ref.	Headings	Auth. info.
1		Portraitists	STB10, 450 0, bab, UPD=Y
2		Portraits	???
1		Portraits, African	STB10, 150 0, bab, UPD=Y
1		Portraits, American	STB10, 150 0, bab, UPD=Y
1		Portraits, Ancient	STB10, 150 0, bab, UPD=Y
1		Portraits, British	STB10, 150 0, bab, UPD=Y
1		Portraits, Byzantine	STB10, 150 0, bab, UPD=Y

After implementation:

# Docs	Ref.	Headings	Auth. info.
1		Portraitists	STB10, 450 0, bab, UPD=Y, 50
1		Portraits	STB10, 150 0, bab, UPD=Y, 50
1		Portraits	STB10, 430 0, aaa, UPD=Y
1		Portraits, African	STB10, 150 0, bab, UPD=Y, 50
1		Portraits, American	STB10, 150 0, bab, UPD=Y, 50
1		Portraits, Ancient	STB10, 150 0, bab, UPD=Y, 50
1		Portraits, British	STB10, 150 0, bab, UPD=Y, 50
1		Portraits, Byzantine	STB10, 150 0, bab, UPD=Y, 50

correct information displayed

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Screenshot 1-d shows the results in the OPAC browse subject search. The term refers to the cross reference of the uniform title which is wrong and what is the result of clicking on heading information.

1-d:

Before Implementation:

Browse List: Subjects (all)

No. of Recs	Entry
	Portraitists - [Heading information] See: Portrait painters
3	Portraits - [Heading information]

Click on it and you get title heading instead of subject heading which is wrong

Sys. no.	000001478
Heading	Collection Portraits

After implementation:

Browse List: Subjects (all)

No. of Recs	Entry
	Portraitists - [Heading information] See: Portrait painters
3	Portraits - [Heading information]
	Portraits, Africa - [Heading information]

Click on it and you will see correct subject heading information

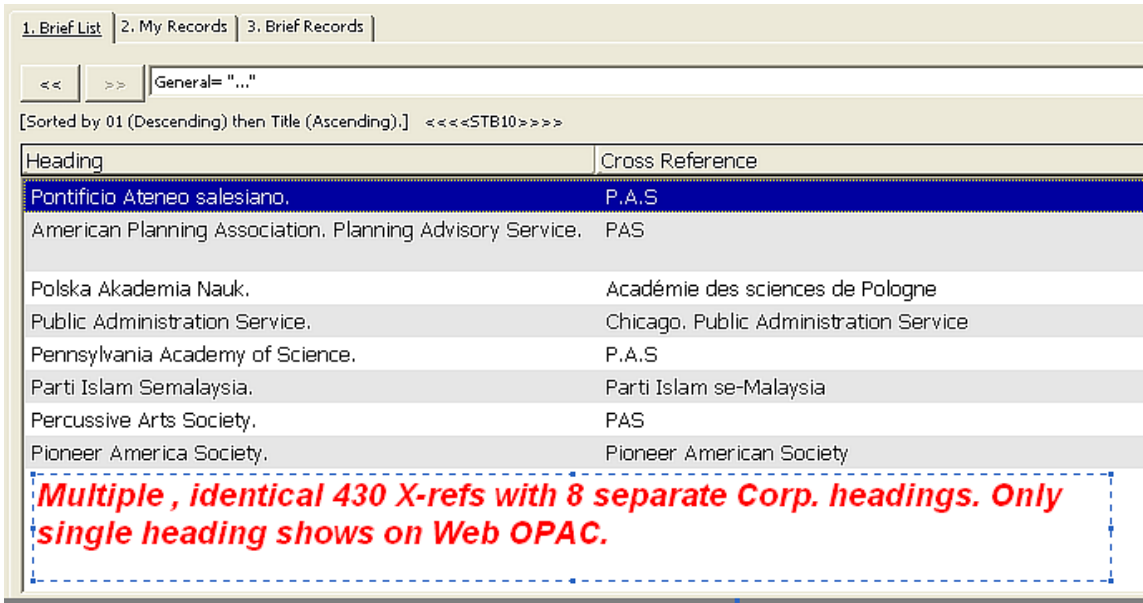
Sys. no.	000568101
Heading	Portraits
Search also under	subdivision Biography--Portraitsunder names of countries, cities subdivision Artunder names of individual persons who lived before individual persons who lived after 1400 and individual families, at wars, e.g. United States--History--Civil War, 1861-1865--Portraits
Broader topic	Art
Broader topic	Biography
Broader topic	Pictures

Example 2: PAS

This problem occurs when the identical cross references are used for different author headings. PAS is a cross reference for eight of corporate bodies.

Screenshot 2-a displays the eight corporate bodies the cross reference generated.

2-a



1. Brief List | 2. My Records | 3. Brief Records

<< >> General= "..."

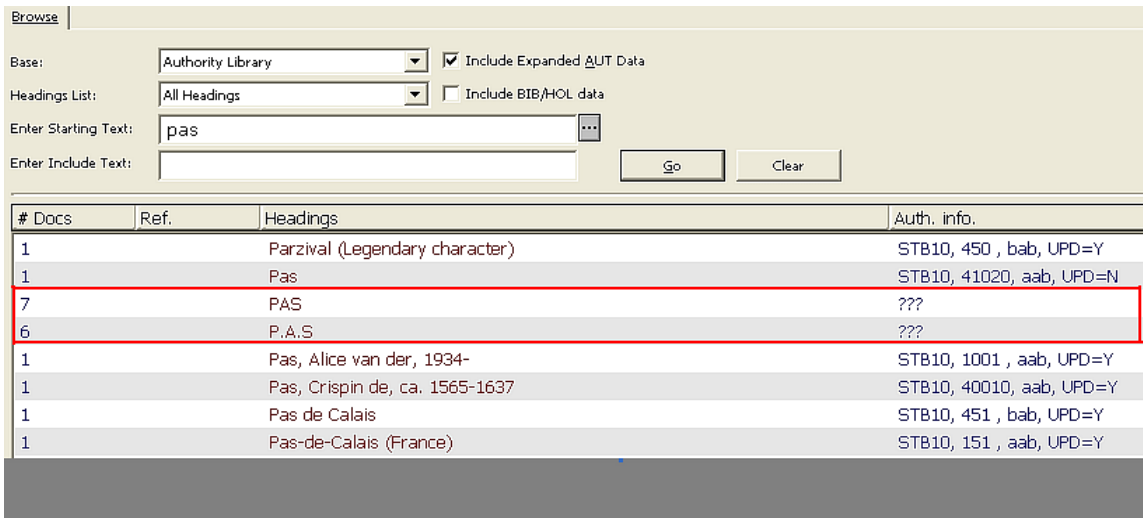
[Sorted by 01 (Descending) then Title (Ascending).] <<<<STB10>>>>

Heading	Cross Reference
Pontificio Ateneo salesiano.	P.A.S
American Planning Association. Planning Advisory Service.	PAS
Polska Akademia Nauk.	Académie des sciences de Pologne
Public Administration Service.	Chicago. Public Administration Service
Pennsylvania Academy of Science.	P.A.S
Parti Islam Semalaysia.	Parti Islam se-Malaysia
Percussive Arts Society.	PAS
Pioneer America Society.	Pioneer American Society

Multiple, identical 430 X-refs with 8 separate Corp. headings. Only single heading shows on Web OPAC.

Screenshot 2-b: The multiple hits by the same term in the Authority file are signaled by question marks.

2-b:



Browse

Base: Authority Library Include Expanded AUT Data

Headings List: All Headings Include BIB/HOL data

Enter Starting Text: pas

Enter Include Text:

Go Clear

# Docs	Ref.	Headings	Auth. info.
1		Parzival (Legendary character)	STB10, 450 , bab, UPD=Y
1		Pas	STB10, 41020, aab, UPD=N
7		PAS	???
6		P.A.S	???
1		Pas, Alice van der, 1934-	STB10, 1001 , aab, UPD=Y
1		Pas, Crispin de, ca. 1565-1637	STB10, 40010, aab, UPD=Y
1		Pas de Calais	STB10, 451 , bab, UPD=Y
1		Pas-de-Calais (France)	STB10, 151 , aab, UPD=Y

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Screenshot 2-c displays the result in the OPAC. Most corporate bodies do not display.

2-c:

Before implementation:

Browse List: Authors

No. of Recs	Entry
1	Parziale, Jim
	PAS - [Heading information] See: Percussive Arts Society
	P.A.S - [Heading information] See: Percussive Arts Society
	Pas - [Heading information] See: Public Administration Service
1	Pas, Alice van der, 1934- - [Heading information]

After implementation: All headings display.

Browse List: Authors

No. of Recs	Entry
1	Parziale, Jim
	Pas - [Heading information] See: Public Administration Service
	PAS American Planning Association. Planning Advisory Service - [Heading information] See: American Planning Association. Planning Advisory Service
	P.A.S American Planning Association. Planning Advisory Service - [Heading information] See: American Planning Association. Planning Advisory Service
	P.A.S Pennsylvania Academy of Science - [Heading information] See: Pennsylvania Academy of Science
	PAS Pennsylvania Academy of Science - [Heading information] See: Pennsylvania Academy of Science
	PAS Percussive Arts Society - [Heading information] See: Percussive Arts Society
	P.A.S Percussive Arts Society - [Heading information] See: Percussive Arts Society
	PAS Pioneer America Society - [Heading information] See: Pioneer America Society
	PAS Polska Akademia Nauk - [Heading information] See: Polska Akademia Nauk

Example 3: China and Sin

Subject headings share the same word. One is a Topical heading 150 (Sin) and the other a 451 (Sin) See cross reference for the Geographical heading 'China'. If UPD is set to Y this can be the most serious and dramatic scenario because the cross reference blocks the correct heading in the bibliographic record and converts it to a corrupted form resulting in the 650 "Sin" to be displayed as 650 "China".

Screenshot 3-a OPAC displays 'Sin' as subject. No number of bib records found since all replaced by 'China'. Authority record on right confirms the 150.

3-a:

Browse List: Subjects (all)

No. of Recs	Entry			
	Simyang-si (China) - [Heading information] See: Shenyang (Liaoning Sheng, China)			
	Sin - [Heading information]			No number of records has 'Sin' as subject. Because replaced by 'China'.
1	Sin (Assyro-Babylonian deity)			
5	Sin, Ch'ae-ho, 1880-1936 - [Heading information]	053	a	BT715 authority rec.
	Sin City (Imaginary place) - [Heading information]		b	BT721
1	Sin City (Imaginary place) -- Drama		c	Doctrinal theology
	Sin, Forgiveness of - [Heading information] See: Forgiveness of sin	053	a	BV4625
			c	Moral theology
1	Sin, Ho-yŏl, 1914-	150	a	Sin
14	Sin in literature - [Heading information]	550	w	g
			a	Man (Christian theology)
1	Sin in music			

Screenshot 3-b displays the presence of the Subject Authority for China. Just below is the 451 now a conflicting term. There are over 50+ bib records with 'China' as a subject.

3-b:

Browse List: Subjects (all)

No. of Recs	Entry			
	Chin, Yung, 1924- - [Heading information] See: Jin, Yong, 1924-			
50+	China - [Heading information]			50+ bib includes the 'Sin' records replaced by 'China'
1	China -- 1949- -- Economic cond	043	a	cc---
1	China -- 1949- -- Economic cond	151	a	China
4	China -- Administrative and polit	451	a	Sin
		451	a	khre
1	China -- Administrative and polit	451	a	Cathay
5	China -- Administrative and polit	451	a	Chinese National Government
		451	a	Chung-kuo kuo min cheng fu
		451	a	Republic of China (1912-1949)
		451	a	Kuo min cheng fu (China : 1912-1949)
		451	a	Chung-hua min kuo (1912-1949)

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Let us check the each record closely:

The dominant heading is the 651 (China) its x-ref reference (Sin) overlaid the 650 matching text (Sin) as following screenshot 3-c:

3-c

24500	6 01 a Hai wai xue zhe lun Zhongguo / c Zhang Jingfu zhu bian.
24500	6 01 a 海外学者论中国 / c 张劲夫主编.
250	6 02 a Beijing di 1 ban.
250	6 02 a 北京第1版.
260	6 03 a Beijing : b Hua xia chu ban she : b Xin hua shu dian jing xiao, c 1994.
260	6 03 a 北京 : b 华夏出版社 : b 新华书店经销, c 1994.
300	a 6, 5, 506 p. : b ill. ; c 21 cm.
504	a Includes bibliographical references.
651 0	a China. → This is correct geographical heading
7001	a Zhang, Qingfu 6 04
7001	6 04 a 张劲夫.
10010	a Pittenger, W. Norman q (William Norman), d 1905-
24510	a Cosmic love and human wrong : b the reconception of meaning of sin, in the light
2600	a New York : b Paulist Press, c c1978.
300	a v, 102 p. ; c 20 cm.
500	a "The chapters ... were originally delivered as lectures at Texas Christian University
650 0	a China. → Wrong, it was 'Sin' subject heading which
650 0	a Process theology replaced by 'China'

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After implementation:

The new program has separated the topical (650) from the geographic fields (651) even though they have the same text. In the screenshot below the “China” in 650 is separated from “China” in 651. To correct “China” in 650 to “Sin”, a manual effort has to be made.

Browse List: Subjects (all)

No. of Recs	Entry	
	Chin, Yung, 1924- - [Heading information] See: Jin, Yung, 1924-	651 field is correct geo heading
50+	China - [Heading information]	
18	China	650 text 'Sin' replaced by 'China' which must be corrected manually
1	China -- 1949- -- Eco	
1	China -- 1949- -- Eco	
4	China -- Administrative and political divisions	

After manually changing “China” to “Sin” in each record in the 650 bib records, search under this as a subject and the Heading information will display correctly.

Browse List: Subjects (all)

No. of Recs	Entry
	Simyang-si (China) - [Heading information] See: Shenyang (Liaoning Sheng, China)
18	Sin - [Heading information]
	Sin - [Heading information] See: China
1	Sin (Assyro-Babylonian deity)
2	Sin -- Biblical teaching

The Problem and Solution:

Problem 1: OCLC export authority record didn't overlay older records.

Solve: Created a new overlay routine for authority library.

tab_match
tab_merge
tab_merge_overlay

add following line in OCLC routine of tab_fix
!--added for overlay authority records
!--files need to change on tab_match, tab_merge, tab_merge_overlay
OCLC fix_doc_merge

Problem 2: New/updated authority record didn't change bib record headings.

This heading was not a conflict heading. After exporting new authority record by overlaying the older one, there was \$\$7 generated and appended to cross reference which causing the heading not match.

Base: Authority Library Include Expanded AUT Data
Headings List: All Headings Include BIB/HOL data
Enter Starting Text: Mukden Incident, 1931
Enter Include Text:

# Docs	Ref.	Headings	Auth. info.
1		Mukden (China)	STB10, 451 0, aab, UPD=Y, 51
1		Mukden Incident, 1931	STB10, 450 , bab, UPD=Y, 50
1		Mukden Incident, China, 1931	STB10, 150 , bab, UPD=Y, 50
1		Mukenai (Extinct city)	STB10, 451 0, bab, UPD=Y, 51
1		Mukenge, Ida Rousseau, 1941-	STB10, 10010, aab, UPD=Y, 00
1		Mukerdschi, Dhan Gopal, 1890-1936	STB10, 40010, aab, UPD=Y, 00
1		Mukerjea, Devabrata	STB10, 10010, aab, UPD=Y, 00
1		Mukerjee, Hiren, 1907-	STB10, 40010, aab, UPD=Y, 00

This heading has no conflict headings which overlaid by new record

New export overlaid original record. But created \$\$7 for every cross reference.

Aleph 18.01 New Authority Control Setup

AU System No. 560909 (Mukden Incident, China, 1931) Year:

Leader	EDR	----	^^^^cz^^a2200181n^^45^0
Control No. ID	003	----	OCoLC
Date and time	005	----	20070730024911.0
Fixed Data	008	----	050301 ^anannbabn^^^^^^^^^^^^ ^a^ana^^^^^^
LC Control No.	010	----	sh 85088295
Catalog. Source	040	----	DLC eng DLC ICU DLC
LC Class. No.	053	0	DS783.8
Topic term	150	----	Mukden Incident, China, 1931
SeeI.Trac.Topic	450	----	Manchurian Incident, China, 1931
SeeI.Trac.Topic	450	----	Mukden Incident, China, 1931
SeeI.Trac.Topic	450	----	Mukden Incident, 1931
SeeI.Trac.Geo.N	451	----	Mukden Incident, China, 1931 Manchuria (China) History Incident, 1931
SAF.Trac.Topic	550	----	Mukden Incident, China, 1931 Sino-Japanese Conflict, 1931-1933
Sourc.Dat.found	670	----	g Britannica Micro. (Mukden Incident, also called Manchurian Incident (1931), seizure of the Manchurian city of Mukden by Japanese troops, followed by the Japanese invasion of all of Manchuria and the establishment of the Japanese-dominated state of Manchukuo in the area)

Solve:

Command out fix_dic_aut_duplicate from OCLC routine.

!OCLC fix_doc_aut_duplicate

!--remove fix_doc_aut_duplicate from OCLC routine added UE-01 for overlay not generate \$\$7

UE-01 fix_doc_aut_duplicate

Problem 3: New/updated authority records did not generate bib links.

(The Subjects (all) does not display new Auth Info in OPAC and GUI. It displays in Subjects (LC))

The subject heading of authority was updated. The heading was flipped to bib records. But only LC subject index(SUL) linked to the authority record. All subject headings (SUB) were not linked to authority records.

stb01.tab_aut : add line SUB 2 STB10

stb01.tabl20 : add 2 lines

```

1 SUB SUB 150##          0
2          450##        -wi5      0 SEEF

1 SUB SUB 151##          0
2          451##        -wi5      0 SEEF

```

** Can't add '!' with comments between the group. Otherwise, after '!... ' won't work.

Aleph 18.01 New Authority Control Setup

Problem 4: ACC sorting is fine in stb10, but the sorting in stb01 is still not right.

This is in stb10

DES
D.E.S.
Des Abbayes, H. (Henry)
Des Abbayes, Henry

This is in stb01

Des Granges, Charles Marc, 1861-
DES (\$\$7 Great Britain. Dept. of Education and Science)
D.E.S.
Des Hons, Gabriel
Des Houlières, Antoinette, ca. 1634-1694
Des Houlières, Madame (Antoinette), ca. 1634-1694
DES (\$\$7 International Committee of the Red Cross)
D.E.S.
Des Issarts, Jean Henri Bancal, 1750-1826

Solve: Add following lines and rerun indexing.

```
01 N to_blank #  
01 N add_prefix_hash 7  
01 F to_blank #  
01 F add_prefix_hash 7  
(F- filing z01_rec_key, N- Normalization – z01_normalized_text, D- display text –  
z01_display_text in z01)
```

Problem 5: 'See Also' (5XX) disappeared from Web OPAC “heading information” after using new authority mechanism.

Solve: add 5XX in the stb10/tab_acc_category and run p_manage_12 to recreate z103 link table.