



Aleph Reporting Center 3.0 Release Notes

Version 3.0
Aleph 21

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Purpose of This Document

This document describes the new enhancements made for ARC 3.0.

The following topics are discussed in this document:

- **Complete Incremental** – a new run mode of the ETL Process
- **Update Time Stamp field** – a new field added to Aleph tables
- **Z900 Aleph table** – a new Aleph table
- **New database triggers** – new triggers added to Aleph
- **Photocopy Requests** – new fields, based on the Z38 Aleph table.
- **Circulation Logger** – a new package, based on the Aleph Z309 table.
- **Additional 'Bib Information' fields** – new fields, based on Z13x and tab22_arc
- **Other additional database Fields, Tables and Links** – new fields based on Z16, Z30, Z303, Z30H, Z31, Z35, Z36, Z37, Z68, Z69, Z108 and pc_tab_exp_field.lng

The following enhancements have been made to the infrastructure:

- ARC 3.0 uses IBM Cognos 8.4.1
Oracle Database 11g – Release 11.2.

The enhancements are included in Aleph 21.

Upgrading From ARC 2.0 to ARC 3.0

Reports remain the same from ARC 2.0 to ARC 3.0.

Note that no upgrade is needed.

Customers that want to use their customized reports can export from ARC 2.0 and import to ARC 3.0. For details, refer to the **Backing Up Customized Reports** and **Backup and Recovery** sections of the *ARC 3.0 System Administration Guide*.

New Run Mode for ETL – Complete Incremental

The ETL process can now run in a new Complete Incremental mode. In this mode, the ETL process performs an Extract and Load only to the records that have been changed, added, or deleted in Aleph since the last run. In this new mode, the ETL duration is significantly reduced compared to the ETL in Full mode.

This new mode is specified with a `c`.

The following is an example of the execution of the ETL:

```
csh -f $aleph_proc/p_arc_01 USM50,ALL,N,06,c
```

The default run mode is `incremental - I` if the parameter is not specified.

The new Complete Incremental ETL mode is based on the "Update Time Stamp" field that has been added to several Aleph Oracle tables.

In order to activate the "Complete Incremental" extract mode – the Aleph Z900 Oracle table, index and related triggers must be defined in local "file_list" of the ADM, BIB, USR, ILL and Course Reading libraries.

For more information about how to configure Z900 Oracle table, index and related triggers refer to the document: "ALEPH Configuration for ARC 3.0" - appendix C. Aleph Z900 Oracle table, index and related triggers.

New Parameter for ETL – Multi-ADM

A new parameter has been added to the ETL process - Multi-ADM.

Possible values are "Y" or "N".

The default value is "N". This means that the ETL runs in a single ADM environment. The Z900 (ARC trigger) Oracle table is cleaned at the end of the ETL process and in the related BIB library and USR libraries.

Setting the parameter value to "Y" means that that the ETL runs in a Multi-ADM environment. The Z900 (ARC trigger) Oracle table is not cleaned at the end of the ETL process and in the related BIB library and USR libraries.

When running ETL in a Multi-ADM environment, the Z900 table of the BIB and USR libraries are not cleaned until all related ADM libraries run the ETL and include the information about the changed BIB or USR library records. This is so that the first ADM that runs ETL (FULL or

Complete Incremental) does not override the changes made in the BIB and USR library records. These changes would then not be included in the ETL of other related ADM libraries.

For more information, refer to the **Run ETL Process** section of the *Aleph Configuration for ARC 3.0* document.

New Time Stamp Field

To support the new Complete Incremental mode, a new Update Time Stamp field has been added to several Aleph Oracle tables. This field is updated every time a record is changed or added. When running in Complete Incremental mode, the ETL process takes the Aleph records based on this field.

The following is a list of the Aleph Oracle tables that have been updated with new the Update Time Stamp field.

<u>ALEPH Oracle Table</u>	<u>Description</u>	<u>Update Date Field</u>
Z08	Serial publication cycle (prediction pattern)	Z08-UPD-TIME-STAMP
Z106	CAT field	Z106-UPD-TIME-STAMP
Z108	Course reading	Z108-UPD-TIME-STAMP
Z12	Serials prediction pattern	Z12-UPD-TIME-STAMP
Z13	Short doc	Z13-UPD-TIME-STAMP
Z16	Subscription information	Z16-UPD-TIME-STAMP
Z20	Serials claim	Z20-UPD-TIME-STAMP
Z30	Items	Z30-UPD-TIME-STAMP
Z30H	Items - History	Z30H-UPD-TIME-STAMP
Z31	Cash	Z31-UPD-TIME-STAMP
Z35	Events	Z35-UPD-TIME-STAMP
Z36	Loans	Z36-UPD-TIME-STAMP
Z36H	Loans - History	Z36H-UPD-TIME-STAMP
Z37	Hold requests	Z37-UPD-TIME-STAMP

<u>ALEPH Oracle Table</u>	<u>Description</u>	<u>Update Date Field</u>
Z37H	Hold requests - History	Z37H-UPD-TIME-STAMP
Z38	Photocopy requests	Z38-UPD-TIME-STAMP
Z38H	Photocopy requests - History	Z38H-UPD-TIME-STAMP
Z302	Virtual record created from Z303 and Z304	Z302-UPD-TIME-STAMP
Z303	Patrons	Z303-UPD-TIME-STAMP
Z304	Addresses	Z304-UPD-TIME-STAMP
Z305	Local patron information	Z305-UPD-TIME-STAMP
Z308	Patron ID	Z308-UPD-TIME-STAMP
Z309	Circulation Logger	Z309-UPD-TIME-STAMP
Z501	Acquisition claims	Z501-UPD-TIME-STAMP
Z601	Transactions - Budget	Z601-UPD-TIME-STAMP
Z68	Order	Z68-UPD-TIME-STAMP
Z69	OPAC events	Z69-UPD-TIME-STAMP
Z70	Vendor	Z70-UPD-TIME-STAMP
Z76	Budget	Z76-UPD-TIME-STAMP
Z77	Invoice header (General invoice)	Z77-UPD-TIME-STAMP
Z78	Arrival information	Z78-UPD-TIME-STAMP

New Z900 Table and Database Triggers

A new table has been added to the Aleph database – Z900. This table contains the data about records deleted in Aleph. When a deletion is made to a record in one of the tables listed in the following table, a trigger records the table and the deletion in the Z900 Oracle table.

Aleph Oracle Table	Description
Z08	Serial publication cycle (prediction pattern)
Z13	Short doc
Z16	Subscription information
Z20	Serials claim
Z30	Items
Z30H	Items - History
Z303	Patrons
Z304	Addresses
Z305	Local patron information
Z308	Patron ID
Z309	Circulation Logger
Z31	Cash
Z36	Loans
Z36H	Loans - History
Z37	Hold requests
Z38	Photocopy requests
Z501	Acquisition claims
Z601	Transactions - Budget
Z68	Order
Z70	Vendor
Z76	Budget
Z77	Invoice header (General invoice)
Z78	Arrival information

To enable the recording in Z900 of the tables in which a deletion occurred, new database triggers have been added. The triggers' names are identical to the Aleph tables recorded in Z900.

Photocopy Requests

Photocopy requests information – including photocopy requests history – has been added to ARC (based on Z38 and Z38H Aleph Oracle tables). It is available for use in ReportStudio and QueryStudio, under the `Requests` package.

In the ARC DWH, it is under `DWH_FACT_REQUEST`.

The following tables list the new photocopy request fields added in ARC:

- The following fields are extracted to `DWH_FACT_REQUEST`.

Source (Aleph)	Destination Field
Z38-NUMBER PHOTO	REQUEST_NUMBER
Z38-CHARGE	PHOTO_CHARGE
Z38-FILTER-PAGES	PHOTO_FILTER_PAGES
Z38-ADDITIONAL-INFO PHOTO	ADDITIONAL_INFO
Z38-UPDATE-DATE	PHOTO_UPDATE_DATE

- The following fields are extracted to `DWH_DIM_PHOTO_CHARGE`.

Source (Aleph)	Destination Field
pc_tab_exp_field.lng: PHOTO-CHARGE	PHOTO_CHARGE_ID
pc_tab_exp_field.lng: PHOTO-CHARGE	PHOTO_CHARGE_DESCRIPTION

A new folder – Photocopy Requests – has been added in the `Requests` package with a new pre-authored report – Photocopy Request Statistics.

This report includes information about Photocopy Request Status, Count, and Percentage sorted by Photocopy Request Status. The report includes graphs and is generated using ReportStudio.

Circulation Logger Package

The Circulation Logger package has been added to ARC. This package includes information on Circulation activities registered as transactions in the Aleph Circulation Logger (Z309). This package contains pre-authored reports and is available for use in ReportStudio and QueryStudio.

The following is a list of the pre-authored reports that have been added to the Circulation Logger package:

Report Name	Description
Activities by Action ID	This report shows the Circulation Logger transactions between the dates set in the filter. It is sorted by action (transaction) type and item status and includes the action year and month.
Activities by Cataloger	This report shows Circulation Logger transactions grouped by Cataloger name/IP between the dates set in the filter. The report is sorted by activity date and includes the action year and month.
Activities by Month and Material Type	This report shows Circulation Logger transactions between the dates set in the filter, grouped by Item Material Type. The report is sorted by year, month, and action type.
Activities by Patron Profile	This report shows Circulation Logger transactions between the dates set in the filter, grouped by Patron Profile and sorted by action type, year, and month.
Activities by Sublibrary and Collection	This report shows Circulation Logger transactions between the dates set in the filter, grouped by Sub Library and Collection. It is sorted by action type, year, and month.
Summary of Transactions by Sublibrary Filter	This report shows Circulation Logger transactions between the dates set in the filter and per sub-library set in the filter. It is grouped by sub library and contains a chart graph and table for each sub-library.

The following tables list the new photocopy request fields added in ARC:

- The following fields are extracted to DWH_FACT_CIRC_LOGGER:

Source (Aleph)	Destination Field
Z309-ID	PATRON_ID
Z309-SEQUENCE	CIRC_LOGGER_SEQUENCE
Z309-LOAN-NUMBER	LOAN_NUMBER

Source (Aleph)	Destination Field
Z309-DOC-NUMBER	DOC_NUMBER
Z309-ITEM-SEQUENCE	ITEM_SEQUENCE
Z309-CASH-ID	CASH_PATRON_ID
Z309-CASH-SEQUENCE	CASH_SEQUENCE
Z309-REQUEST-NUMBER	REQUEST_NUMBER
Z309-CATALOGER-NAME	CATALOGER_NAME
Z309-CATALOGER-IP	CATALOGER_IP
Z309-CATALOGER-IP-V6	CATALOGER_IP_V6
Z309-DATE	CIRC_LOGGER_DATE
Z309-HOUR	CIRC_LOGGER_TIME
Z309-ACTION	CIRC_LOGGER_ACTION
Z309-OVERRIDE	OVERRIDE
Z309-DATA	SYSTEM_NOTE
	USER_NOTE

- The following fields are extracted to DWH_DIM_CIRC_LOG_ACTION.

Source (Aleph)	Destination Field
tab_circ_log.lng (col. 1)	CIRC_LOGGER_ACTION_ID
tab_circ_log.lng (col. 4)	CIRC_LOGGER_ACTION_DESC

Additional Bibliographic Information Fields

It is now possible to define up to 70 bibliographic fields that are extracted to ARC.

These bibliographic information fields are defined in the new `tab22_arc` Aleph configuration table. This configuration table is located in the `$data_tab` directory of the BIB library.

The fields should be defined in column 1 as:

- ARC-DEF-1 = library defined field 1

- ARC-DEF-2 = library defined field 2
- ARC-DEF-3 = library defined field 3
- ARC-DEF-4 = library defined field 4
- ARC-DEF-5 = library defined field 5

And so on, until:

- ARC-DEF-70 5 = library defined field 70

Each line is used to define a unique alternative library-defined field. Note that if a similar line of tag + subfield + position + length repeats, the system takes the first of the alternative fields that it finds (group of columns of: tag + subfield + position + length).

When Col.2 is set to 2, the data is taken from the Bib record, using `edit_paragraph`. In this case, col.3 is used to list the paragraph number, and the remaining columns are left blank.

These fields are extracted to DWH_DIM_BIB_INFO and can be seen in ARC under the following packages:

- Acquisitions
- Circulation Based on Events
- Circulation and Cash
- Collection Management
- Bibliographic Data
- Loans
- Cash
- Requests
- Events
- Course Reading
- Inventory
- Acquisition Orders
- Acquisition Budgets
- Circulation Logger

Adding Expanded Fields as Library-Defined Fields

It is also possible to define expanded bibliographic fields, to be extracted from Aleph to ARC. This can be done in `tab_expand`, by using the new entry `CREATE-ARC` in Col. 1 of `tab_expand`, and defining expand procedures (Col. 2) and arguments (Col. 3).

After defining the expanded field in `tab_expand`, also define it in `tab22_arc`.

For example:

The expand program `expand_doc_bib_avail` brings items and holdings availability information and presents it in an AVA field.

Define it for ARC in `tab_expand` as follows:

```
! 1 2 3
!!!!!!!!!!!!-!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!>
CREATE-ARC expand_doc_bib_avail THRESHOLD=020;AVA=NE,RE;
```

Define the following in `tab22_arc`:

```
! 1 2 3 4 5 6
!!!!!!!!!!!!-!-!!!!-!-!!!!-!!!!

ARC-DEF-61 1 AVA a
ARC-DEF-62 1 AVA b
ARC-DEF-63 1 AVA c
ARC-DEF-64 1 AVA d
ARC-DEF-65 1 AVA e
ARC-DEF-66 1 AVA f
ARC-DEF-67 1 AVA g
ARC-DEF-68 1 AVA h
ARC-DEF-69 1 AVA i
```

For more information about how to configure the bibliographic fields that are extracted to ARC, refer to the document *Aleph Configuration for ARC 3.0*.

Additional Fields, Tables, and Links

New fields have been added to the ARC database and extracted from Aleph in the ETL process.

The following is a list of the new Aleph fields that can be extracted to ARC.

Fields Extracted to DWH_FACT_ITEMS and DWH_FACT_HISTORY_ITEMS

Source (Aleph)	Destination Field
Z30-ENUMERATION-A	ENUMERATION_A
Z30-ENUMERATION-B	ENUMERATION_B
Z30-ENUMERATION-C	ENUMERATION_C
Z30-ENUMERATION-D	ENUMERATION_D

Source (Aleph)	Destination Field
Z30-ENUMERATION-E	ENUMERATION_E
Z30-ENUMERATION-F	ENUMERATION_F
Z30-ENUMERATION-G	ENUMERATION_G
Z30-ENUMERATION-H	ENUMERATION_H
Z30-CHRONOLOGICAL-I	CHRONOLOGICAL_I
Z30-CHRONOLOGICAL-J	CHRONOLOGICAL_J
Z30-CHRONOLOGICAL-K	CHRONOLOGICAL_K
Z30-CHRONOLOGICAL-L	CHRONOLOGICAL_L
Z30-CHRONOLOGICAL-M	CHRONOLOGICAL_M
Z30-DATE-LAST-RETURN	LAST_RETURN_DATE
Z30-HOUR-LAST-RETURN	LAST_RETURN_TIME
Z30-IP-LAST-RETURN	LAST_RETURN_IP
Z30-IP-LAST-RETURN-V6	LAST_RETURN_IP_V6
Z30-LAST-SHELF-REPORT-DATE	LAST_SHELF_REPORT_DATE
Z30-SHELF-REPORT-NUMBER	SHELF_REPORT_NUMBER
Z30-ON-SHELF-DATE	ON_SHELF_DATE
Z30-ON-SHELF-SEQ	ON_SHELF_SEQUENCE
Z30-SCHEDULE-SEQUENCE-2	SCHEDULE_SEQUENCE
Z30-INVOICE-NUMBER	INVOICE_NUMBER
Z30-LINE-NUMBER	LINE_NUMBER
Z30-PAGES	PAGES
Z30-EXPECTED-ARRIVAL-DATE	EXPECTED_ARRIVAL_DATE
Z30-COPY-ID	COPY_ID

Source (Aleph)	Destination Field
Z30-HOL-DOC-NUMBER	HOL_DOC_NUMBER
Z30-TEMP-LOCATION	TEMP_LOCATION
Z30-SUPP-INDEX-O	SUPP_INDEX
Z30-85X-TYPE	ITEM_85X_TYPE
Z30-DEPOSITORY-ID	DEPOSITORY_ID
Z30-LINKING-NUMBER	LINKING_NUMBER
Z30-GAP-INDICATOR	GAP_INDICATOR
Z30-MAINTENANCE-COUNT	MAINTENANCE_COUNT

Fields Extracted to DWH_FACT_CASH

Source (Aleph)	Destination Field
Z31-CREDIT-DEBIT	CREDIT_DEBIT
Z31-PAYMENT-IP-V6	PAYMENT_IP_V6
Z31-PAYMENT-MODE	PAYMENT_MODE
Z31-PAYMENT-IDENTIFIER	PAYMENT_IDENTIFIER
Z31-DESCRIPTION	DESCRIPTION
Z31-KEY-TYPE	KEY_TYPE
Z31-RELATED-Z31-KEY	RELATED_CASH_KEY
Z31-RELATED-Z31-KEY-TYPE	RELATED_CASH_KEY_TYPE

Fields Extracted to DWH_FACT_EVENT

Source (Aleph)	Destination Field
Z35-QUERY	QUERY

Source (Aleph)	Destination Field
Z35-NOTE	NOTE
Z35-IP-ADDRESS-v6	EVENT_CATALOGER_IP_V6

Fields Extracted to DWH_FACT_LOANS

Source (Aleph)	Destination Field
Z36-NOTE-1	NOTE_1
Z36-NOTE-2	NOTE_2
Z36-PROXY-ID	PROXY_ID
Z36-RETURN-LOCATION	RETURN_LOCATION
Z36-RETURN-SUB-LOCATION	RETURN_SUB_LOCATION
Z36-DELIVERY-TIME	DELIVERY_TIME
Z36-TAIL-TIME	TAIL_TIME
Z36-LOAN-CATALOGER-IP-V6	LOAN_CATALOGER_IP_V6
Z36-RETURN-CATALOGER-IP-V6	RETURN_CATALOGER_IP_V6
Z36-RENEW-CATALOGER-IP-V6	RENEW_CATALOGER_IP_V6

Fields Extracted to DWH_FACT_REQUEST

Source (Aleph)	Destination Field
Z37_EXPAND	EXPAND
Z37_OPEN_HOUR	OPEN_TIME
Z37_LETTER_STATUS	LETTER_STATUS
Z37_LETTER_DATE	LETTER_DATE

Source (Aleph)	Destination Field
Z37_AUTHOR	AUTHOR
Z37_TITLE	TITLE
Z37_PAGES	PAGES
Z37_NOTE_1	NOTE_1
Z37_NOTE_2	NOTE_2
Z37_REQUESTER_ID	REQUESTER_ID
Z37_CATALOGER_IP_V6	REQUEST_CATALOGER_IP_V6
Z37_RECALL_TYPE	RECALL_TYPE
Z37_FILTER_SUB_LIBRARY	FILTER_SUB_LIBRARY
Z37_FILTER_ITEM_STATUS	FILTER_ITEM_STATUS
Z37_FILTER_COLLECTION	FILTER_COLLECTION
Z37_FILTER_COPY	FILTER_COPY
Z37_ENUMERATION_A	ENUMERATION_A
Z37_ENUMERATION_B	ENUMERATION_B
Z37_ENUMERATION_C	ENUMERATION_C
Z37_CHRONOLOGICAL_I	CHRONOLOGICAL_I
Z37_CHRONOLOGICAL_J	CHRONOLOGICAL_J
Z37_CHRONOLOGICAL_K	CHRONOLOGICAL_K
Z37_BOOKING_ORIG_START_TIME	ORIG_BOOKING_START_DATE, ORIG_BOOKING_START_TIME
Z37_BOOKING_ORIG_END_TIME	ORIG_BOOKING_END_DATE, ORIG_BOOKING_END_TIME
Z37_RELEASE_TIME	RELEASE_TIME
Z37_DELIVERY_TIME	DELIVERY_TIME
Z37_HEAD_TIME	HEAD_TIME
Z37_TAIL_TIME	TAIL_TIME

Source (Aleph)	Destination Field
Z37_DELIVERY_SUB_LOCATION	DELIVERY_SUB_LOCATION
Z37_RETURN_LOCATION	RETURN_LOCATION
Z37_RETURN_SUB_LOCATION	RETURN_SUB_LOCATION
Z37_DELIVERY_METHOD	DELIVERY_METHOD
Z37_EFFECTIVE_START_TIME	EFFECTIVE_START_DATE, EFFECTIVE_START_TIME
Z37_EFFECTIVE_END_TIME	EFFECTIVE_END_DATE, EFFECTIVE_END_TIME
Z37_GROUP_ID	GROUP_ID
Z37_GROUP_SEQUENCE	GROUP_SEQUENCE
Z37_BALANCER_STATUS	BALANCER_STATUS
Z37_BALANCER_DATE	BALANCER_DATE
Z37_REQUEST_IDENTIFIER	REQUEST_IDENTIFIER
Z37_REQUESTER_NAME	REQUESTER_NAME

Fields Extracted to DWH_FACT_OPAC

Source (Aleph)	Destination Field
Z69-CLIENT-ADDRESS-V6	WORKSTATIONIP_V6

Fields Extracted to DWH_FACT_COURSE_READING

Source (Aleph)	Destination Field
Z108-COURSE-SEQUENCE	COURSE_SEQUENCE

Fields Extracted to DWH_FACT_ORDERS

Source (Aleph)	Destination Field
Z68-SEND-METHOD	METHOD

Fields Extracted to DWH_DIM_SUBSCRIPTION

Source (Aleph)	Destination Field
Z16-VENDOR-CODE	VENDOR-ID

Fields Extracted to DWH_DIM_PATRON_GLOBAL_INFO

Source (Aleph)	Destination Field
Z303-CON-LNG	LNG-CODE

Fields Extracted From pc_tab_exp_field.lng

New tables have been added to the ARC database to contain more information from the Aleph `pc_tab_exp_field.lng` configuration table.

The following is a list of the new fields that are extracted from the Aleph `pc_tab_exp_field.lng` table of the ADM library with a new destination created in ARC. The Aleph source of the following ARC fields named with `ID` or `CODE` at the end is `pc_tab_exp_field.lng` col. 4 (Code). The Aleph source of the following ARC fields named with `DESCRIPTION` at the end is the `pc_tab_exp_field.lng` Col. 3 (Description).

Source (Aleph) - <code>pc_tab_exp_field.lng</code>	Destination	Destination Field
<code>pc_tab_exp_field.lng: ITEM-DEPOSITORY-ID</code>	DWH_DIM_ITEM_DEPOSITORY	ITEM-DEPOSITORY-ID, ITEM-DEPOSITORY-DESCRIPTION
<code>pc_tab_exp_field.lng: ITEM-GAP-INDICATOR</code>	DWH_DIM_ITEM_GAP_INDICATOR	ITEM_GAP_INDICATOR_CODE, ITEM_GAP_INDICATOR_DESCRIPTION
<code>pc_tab_exp_field.lng: PAYMENT-MODE</code>	DWH_DIM_PAYMENT_METHOD	PAYMENT_MODE_CODE, PAYMENT_MODE_DESCRIPTION

pc_tab_exp_field.lng: RECALL-TYPE	DWH_DIM_ RECALL_TYPE	RECALL_TYPE_CODE, RECALL_TYPE_DESCRIPTION
pc_tab_exp_field.lng: DELIVERY-METHOD	DWH_DIM_ DELIVERY_METHOD	DELIVERY_METHOD_CODE, DELIVERY_METHOD_DESCRIPTION
pc_tab_exp_field.lng: ITEM-STATISTIC	DWH_DIM_ ITEM_STATISTIC	ITEM_STATISTIC_ID, ITEM_STATISTIC _DESCRIPTION
pc_tab_exp_field.lng: ACQ_ORDER_GROUP	DWH_DIM_ORDER_GRO UP	ORDER_GROUP_ID, ORDER_GROUP_DESCRIPTION
pc_tab_exp_field.lng: PATRON-LANGUAGE	DWH_DIM PATRON_LANGUAGE	LNG_CODE, LNG_DESCRIPTION
pc_tab_exp_field.lng: ACQ_SEND_METHOD	DWH_DIM ORDER_SEND_METHOD	SEND_METHOD_ID, SEND_METHOD DESCRIPTION