

# ONDEMAND NEWSLETTER

## NEWS AND TIPS ABOUT IBM CONTENT MANAGER ONDEMAND 4<sup>TH</sup> QUARTER 2013

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### NEWS

#### Top 5 reasons to attend

## Information On Demand 2013

#### 1. Discover new skills

Attend education sessions and deep dives to learn best practices and success strategies.

#### 2. Build your network

Get inspired by talking face-to-face with thought leaders, subject matter experts and peers.

#### 3. Learn from professionals

Tap into the knowledge of industry experts, fellow IBM clients and IBM executives – just to name a few.

#### 4. Experience new technology

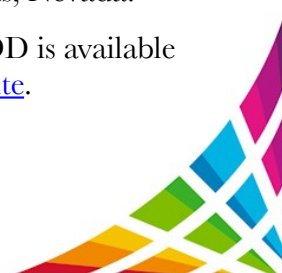
Interact with cutting-edge products, see solutions in action and discover innovative services that can benefit your business.

#### 5. Win big in Vegas ...

... at Information On Demand. Gain a fresh perspective, fuel your focus on innovation and have some fun, too.

IOD will be held November 3 – 7 at the Mandalay Bay, Las Vegas, Nevada.

More information on IOD is available on the [conference web site](#).



### ODUG Technical Conference

The OnDemand Users Group is happy to announce that ODUG will be hosting its annual ODUG Technical Conference on Thursday, November 7th, 2013 at 8:30 Pacific Time, at the IBM Information On Demand (IOD) conference in Las Vegas, Nevada.

If you would like to attend the ODUG Technical Conference without attending IOD, you must pre-register for access to the conference center. Send an e-mail to: [Neil Parrott](#) or [Geoff Wilde](#).

In addition to the regular product updates by IBM, and the popular Birds-Of-A-Feather sessions, IBM has arranged for a number of sessions to be available via web cast.

Sessions that will be available to you online:

#### The New IBM Content Navigator

**8:30 AM - 9:30 AM PT / 11:30 AM - 12:30 PM ET**

IBM's Senior Product Manager Ian Story will lead a guided tour of the new IBM Content Navigator & its benefits to OnDemand users, including Mobile ECM capabilities, CM8 and OnDemand federation, e-Client / pClient replacement functions and much more.

Click [here](#) to register for this session.

#### Enhanced Retention Panel Discussion

**1:30 PM - 2:15 PM PT / 4:30 - 5:15 PM ET**

AT&T's Benny Ormson will lead a panel discussion consisting of other OnDemand users who have deployed Enhanced Retention features in OnDemand.

Click [here](#) to register for this session.

#### Lifecycle Governance Panel Discussion

**3:45 PM - 4:30 PM PT / 6:45 PM - 7:30 PM ET**

Lorilei Puthuff of BlueCross BlueShield of South Carolina will lead a panel discussion on best practices for Defensible Disposal and Governance with OnDemand.

Click [here](#) to register for this session.

These live broadcasts represent something new for ODUG and if feedback is favorable, the Board may consider trying more ideas like this. If you register for any of the above sessions, ODUG will send you a brief reminder just before the event. We hope to see you there.

### IBM Content Navigator 2.0.2 for Mobile available on iTunes

IBM Content Navigator 2.0.2 for Mobile is now available for [download on iTunes](#).

This new release extends the value of IBM Case Manager as a rapid solution design platform that enables mobile case management in the iPad experience. Features include the following and more:

- Image compression and resolution adjustments when using camera
- Creation of new searches from mobile device
- Email links & download documents as PDFs
- App can now be opened using a custom URL scheme
- Desktops can be automatically configured
- iOS 7 support

### Updated Redbook Available

The IBM Content Manager OnDemand Guide, SG24-6915, has been updated with Version 9 features and functions. All the chapters of the book were updated. New chapters were added.

The guide is intended to complement the existing Content Manager OnDemand documentation and provide insight into the issues that might be encountered in the setup and use of Content Manager OnDemand.

The [updated guide](#) is available on the IBM Redbooks website.

### Server Fix Pack 8.5.0.8 Available

OnDemand server fix pack 8.5.0.8 is now available for IBM Content Manager OnDemand for Multiplatforms and IBM Content Manager OnDemand for z/OS.

More information on the enhancements in version 8.5 of OnDemand is available in the [Information Center Version 8.5](#), previous newsletters, and in the Tips section of this newsletter.

#### OnDemand for Multiplatforms

The fix pack files are available from the IBM [Fix Central](#) site.

#### OnDemand for z/OS

To upgrade your system, choose the applicable PTF from the list in [support item 1260192](#).

### IBM WEBi 1.0.4 Fix Pack 5 released

#### 64-bit support

This fix pack includes support for 64-bit operating systems. For more information on the supported 64-bit operating systems, see the [hardware and software requirements](#).

If you want to use IBM WEBi on a 64-bit operating system, you must install this fix pack as a new installation or upgrade an existing 64-bit installation.

#### Support for additional file types

This fix pack includes partial support for the following MIME types:

For email: application/vnd.eml (.eml)

For iCalendar: text/calendar (.ics)

The read-me for this fix pack is [here](#).

### CommonStore End of Service

IBM CommonStore will reach End of Service in April 2014. If you are using CommonStore, you should be planning your migration to IBM Content Collector (ICC). You can also purchase extended service if you need more time to migrate to ICC.

### OnDemand for i v5.4 End of Service

Content Manager OnDemand for i v5.4 reached End of Service on Sept. 30, 2013.

If you are using Content Manager OnDemand for i v5.4, you should upgrade to either v6.1 or v7.1 as soon as possible.

Note that v5.4 was the final release to support Spool File Archive (SFA). Customers using SFA must migrate to Common Server before upgrading either OnDemand or IBM i.

IBM announced the Service Extension for i5/OS V5R4 offering in announcement letter [614-004](#). This service extension does not include OnDemand for i v5.4. Customers needing extended service for OnDemand for i v5.4 should contact IBM Software Support.

### About this Newsletter

This newsletter is designed to keep you better informed about IBM Content Manager OnDemand on all platforms. The newsletter will be published quarterly.

Previous editions of this newsletter can be found on the OnDemand support web sites. Just search for 'OnDemand Newsletter'. They are also available on the OnDemand Users Group web site under the heading '[Presentations, Newsletters, and such](#)'.

Correspondence related to this bulletin should be directed to [odnews@us.ibm.com](mailto:odnews@us.ibm.com).

# TIPS – CROSS PLATFORMS

## What are the maximum supported document sizes?

When an input file is indexed, it is usually broken up into smaller documents called groups that are concatenated together in an .out file.

The limit on the input file size is determined by the file system of the operating system, with the exception of PDF. The limit of the input file size is 4 GB for PDF, however IBM recommends that the size of a PDF input file not exceed 500 MB.

A single group (including large objects) cannot be larger than 2 GB. This is true for all data types. Groups larger than 2 GB have not been tested with all the components and are not guaranteed to work. As a best practice, IBM recommends that a single group should not be larger than 50 MB.

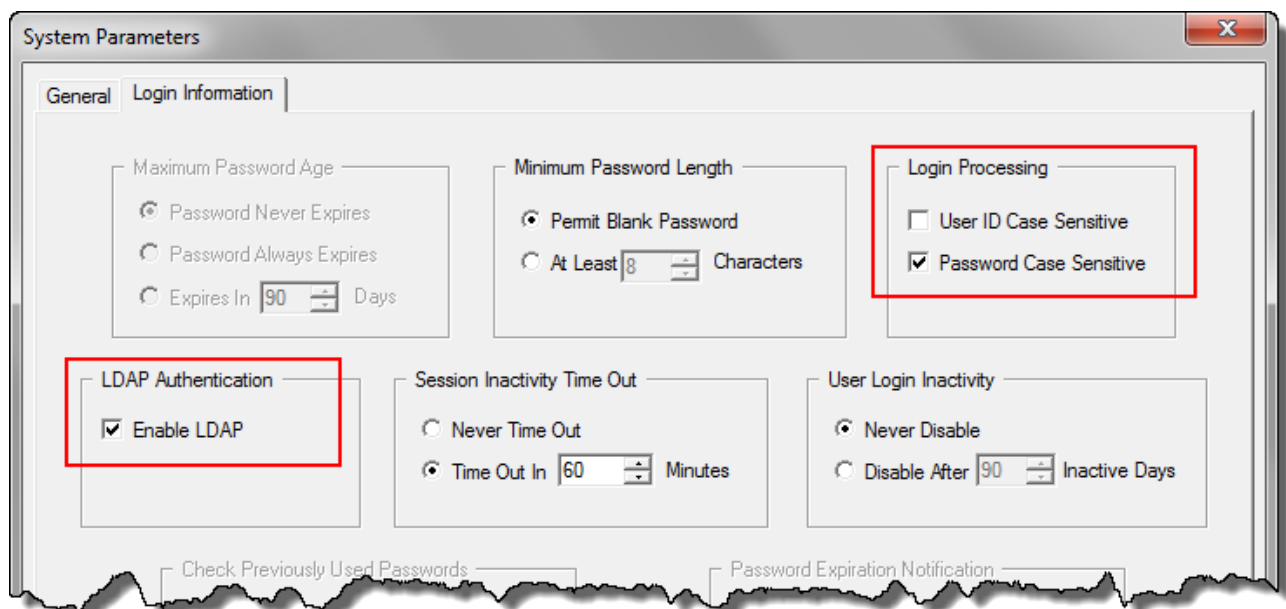
The .out file can be as large as the file system, memory, and operating system permit.

This tip is adapted from support items [1170676](#).

## LDAP and case sensitivity

When LDAP authentication is enabled, the Password Case Sensitive box needs to be checked. For non-Microsoft Active Directory LDAP servers, the User ID Case Sensitive box may also need to be checked if the LDAP server user ID is case sensitive.

When User ID Case Sensitive box is checked, make sure the corresponding OnDemand user ID is in exactly the same case or the login will fail. For example, if the LDAP user ID is **john**, the OnDemand server must also have a user ID, **john**, defined in the same case. Note when the User ID Case Sensitive box is not checked, OnDemand uppercases a user ID when it is added or updated so **john** would become **JOHN**.



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### User summary

In OnDemand version 9.0, more information is added to the summary that is created when you select one or more users and create a summary without checking any of the options. The last login, last password change, and number of failed logins are added to the summary.

From the OnDemand Administrator client, select one or more users, right click and select Summarize from the pop-up menu. Next, click on the Create button to create a summary. Click on the View button to view the information. Below shows a summary with the additional information.

```
SUMMARY CREATION DATE:    Wednesday, October 09, 2013 7:38:12 AM
CLIENT VERSION:          9.0.0.2
SERVER VERSION:          9.0.0.2
SUMMARY BY:              SMITH
```

```
*****
* USERS SUMMARY *
*****
```

```
*****
USERID:  USER1          UID:      54  DISABLE USER:  No   LAST
LOGIN:   08/01/2013 16:22:20  LAST PASSWORD CHANGE:
# FAILED LOGINS:  0  USER TYPE:  User
USERID:  USER2          UID:      10  DISABLE USER:  No   LAST
LOGIN:   07/25/2013 11:56:56  LAST PASSWORD CHANGE: 05/28/2013
05:05:19 # FAILED LOGINS:  0  USER TYPE:  System Administrator
USERID:  USER3          UID:      53  DISABLE USER:  No   LAST
LOGIN:   12/03/2012 03:51:35  LAST PASSWORD CHANGE: 06/29/2012
00:10:06 # FAILED LOGINS:  0  USER TYPE:  User
USERID:  USER4          UID:      52  DISABLE USER:  No   LAST
LOGIN:   08/01/2013 16:22:20  LAST PASSWORD CHANGE:
# FAILED LOGINS:  0  USER TYPE:  User
USERID:  USER5          UID:      11  DISABLE USER:  No   LAST
LOGIN:   06/11/2013 09:26:49  LAST PASSWORD CHANGE: 11/19/2012
09:29:34 # FAILED LOGINS:  0  USER TYPE:  User - Create Users,
Groups
```

This tip is adapted from a [forum item](#).

### Export and import of server connection information

How do I export and import OnDemand server connection information for the OnDemand Administrator and end-user client?

OnDemand stores the server connection information in the Windows registry.

- The servers are listed as separate keys with their particular values under:

```
HKEY_CURRENT_USER\Software\IBM\OnDemand32\Common
```

- There is a separate key with the list of servers under:

```
HKEY_CURRENT_USER\Software\IBM\OnDemand32\Common\Servers
```

The list of servers is a string value containing a comma separated list of all the servers in the OnDemand client installation. This list should contain the same number of OnDemand servers as listed in HKEY\_CURRENT\_USER\Software\IBM\OnDemand32\Common.

You can export these registry keys using regedit or another registry editor.

This tip is adapted from support items [1240033](#)

### Importing a list of servers during client installation

User-defined files are installed during the OnDemand client installation if they are stored in the CUSTOM subdirectory under the installation directory on the distribution media. By default, the Windows client installation directory is ARS32.

To configure the distribution media to install user-defined files:

1. Create a CUSTOM directory under the Windows 32-bit client directory. For example:

```
mkdir \ars32\custom
```

2. Create a REGISTRY directory under the CUSTOM directory. For example:

```
mkdir \ars32\custom\registry
```

3. Copy the registry files containing the keys to the REGISTRY directory.

These files are imported into the registry on the user's workstation during the installation.

Note: It is easy to accidentally destroy important data and render a system completely unusable by importing registry files. Be careful when using this function.

For more information, see the Windows Client Customization Guide.

## Search retrieve positioning on initial open of a transaction report document in the OnDemand client

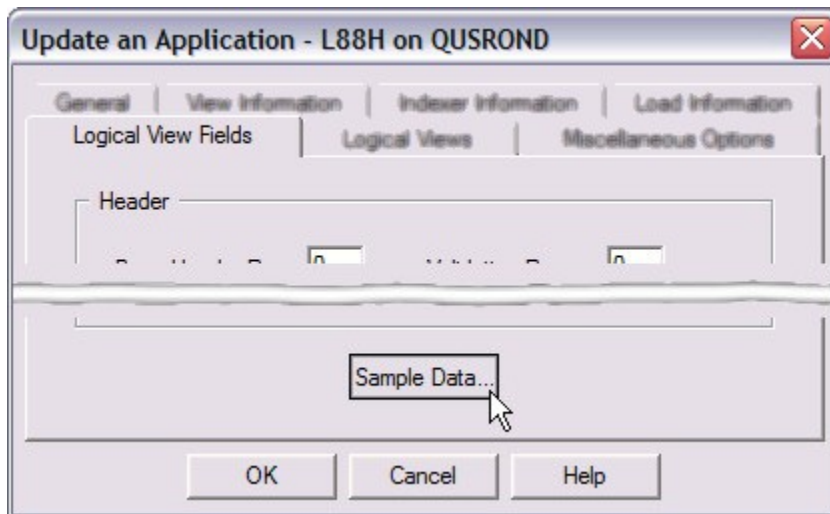
This tip explains how you can set up the search retrieve positioning feature for transaction reports. Search retrieve positioning automatically opens a transaction report document to the page that contains the value specified on the search criteria screen.

A transaction report is a report that contains pages of detail lines with one or more columns of sorted data and where it is not practical to store every value in the database.

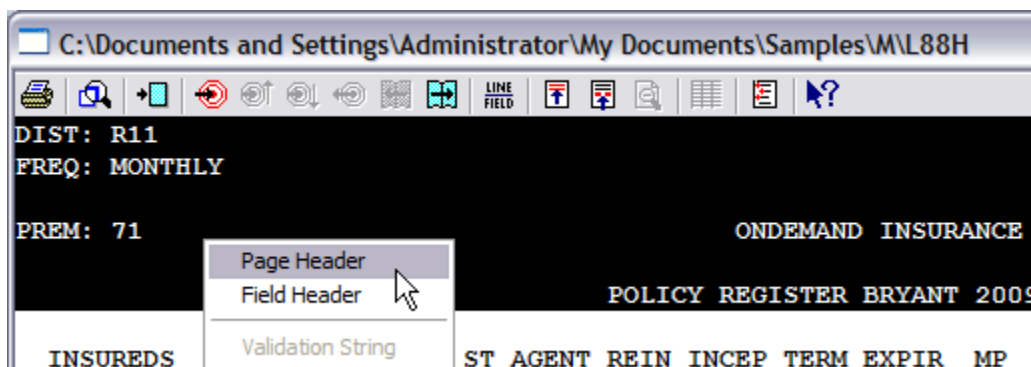
### Enabling Search Retrieve Positioning for Initial Open of Document:

Use the following steps to enable the search retrieve positioning feature:

1. Using the OnDemand Administrator client, update the Application. Click the Logical View Fields tab, then click Sample Data, as shown below.



2. Download sample data or use sample data that you downloaded previously.
3. Mark the page headers, right click, select Page Header, as shown below:



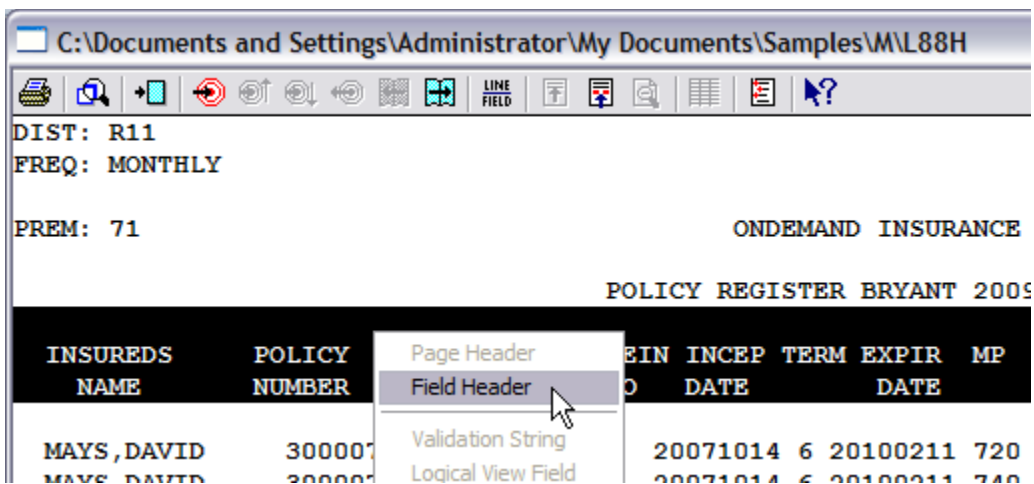


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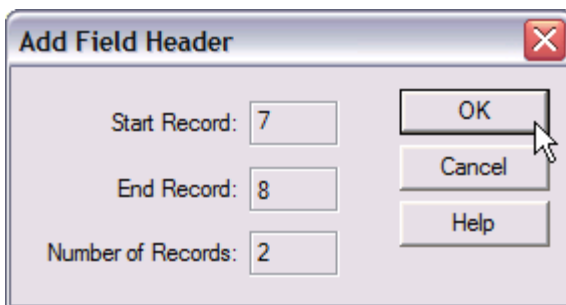
4. On the Add Page Header dialog, click OK.



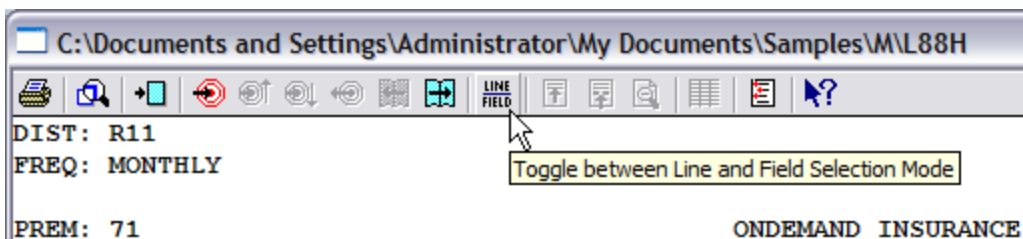
5. Mark the field headers, right click, select Field Header, as shown below:



6. On the Add Field Header dialog, click OK.



7. Switch from Line to Field selection mode by clicking the Line / Field button on the tool bar.





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8. Select the first field, working from left to right. Right click and select Logical View Field.

The screenshot shows a window titled "C:\Documents and Settings\Administrator\My Documents\Samples\ML88H". The window displays the following text:

DIST: R11  
 FREQ: MONTHLY  
 PREM: 71

ONDEMAND INSURANCE

POLICY REGISTER BRYANT 2005

INSUREDS NAME	POLICY NUMBER	TRAN	ST	AGENT	REIN CO	INCEP DATE	TERM	EXPIR DATE	MP
MAYS, DAVID				1 08110		20071014	6	20100211	720
MAYS, DAVID				1 08110		20071014	6	20100211	740
MAYS, DAVID				1 08110		20071014	6	20100211	701
MAYS, DAVID				1 08110		20071014	6	20100211	720
MAYS, DAVID				1 08110		20071014	6	20100211	740
MAYS, DAVID				1 08110		20071014	6	20100211	701

A context menu is open over the first row, with the following options: Page Header, Field Header, Validation String, Logical View Field (highlighted), and ...

9. On the Add a Logical View Field dialog, click OK.

The screenshot shows a dialog box titled "Add a Logical View Field". The fields are filled as follows:

- Field Name: insured\_name
- Field#: 1
- Appl Group: (empty)
- DB Name: (empty)
- Start Column: 2
- End Column: 15
- Reference String: MAYS, DAVID

Buttons: OK, Cancel, Help. The OK button is highlighted with a mouse cursor.

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10. Select the second field, working from left to right. Right click and select Logical View Field.

The screenshot shows a window titled 'C:\Documents and Settings\Administrator\My Documents\Samples\ML88H'. The main content area displays a table with the following data:

INSUREDS NAME	POLICY NUMBER	TRAN	ST	AGENT	REIN CO	INCEP DATE	TERM	EXPIR DATE	MP
MAYS, DAVID	300007					20071014	6	20100211	720
MAYS, DAVID	300007					20071014	6	20100211	740
MAYS, DAVID	300007					20071014	6	20100211	701
MAYS, DAVID	300007					20071014	6	20100211	720
MAYS, DAVID	300007					20071014	6	20100211	740
CACCIATO, V	300007					20071014	6	20100211	701

A context menu is open over the 'POLICY NUMBER' column for the first row. The menu items are: Page Header, Field Header, Validation String, Logical View Field (highlighted), and Delete.

11. In the Add a Logical View Field dialog, map the Field Name defined as the Load ID Name to the Application Group Database Name. For example, map policy\_number to begin\_policy\_number, and define a start and end column for the field, as shown below.

The screenshot shows the 'Add a Logical View Field' dialog box overlaid on the table. The dialog contains the following information:

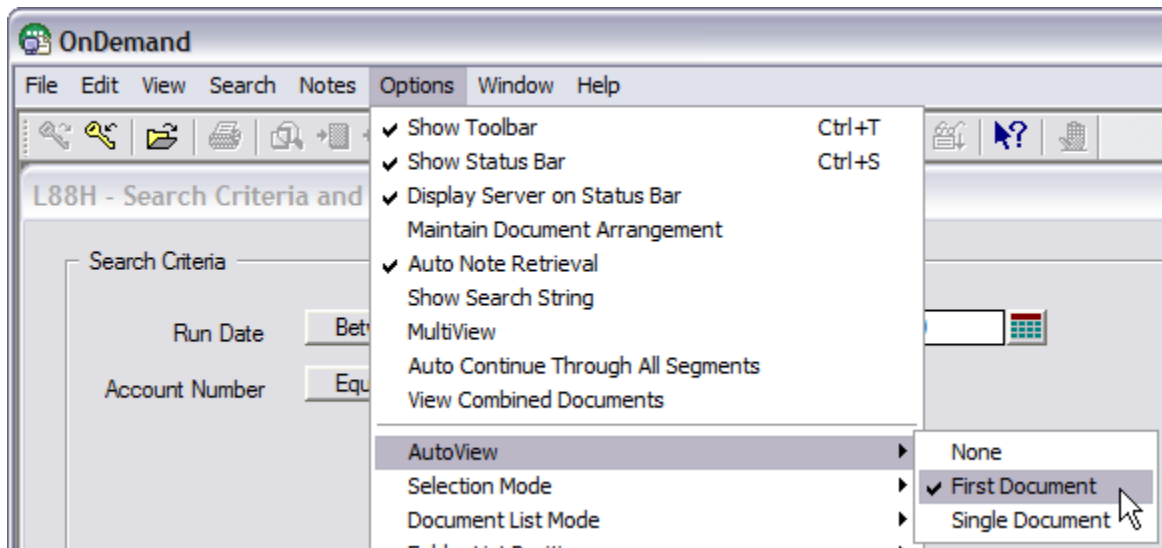
- Field Name:  field#:
- Appl Group DB Name:  (highlighted with a red box)
- Start Column:  End Column:
- Reference String:

Buttons at the bottom: OK, Cancel, Help.

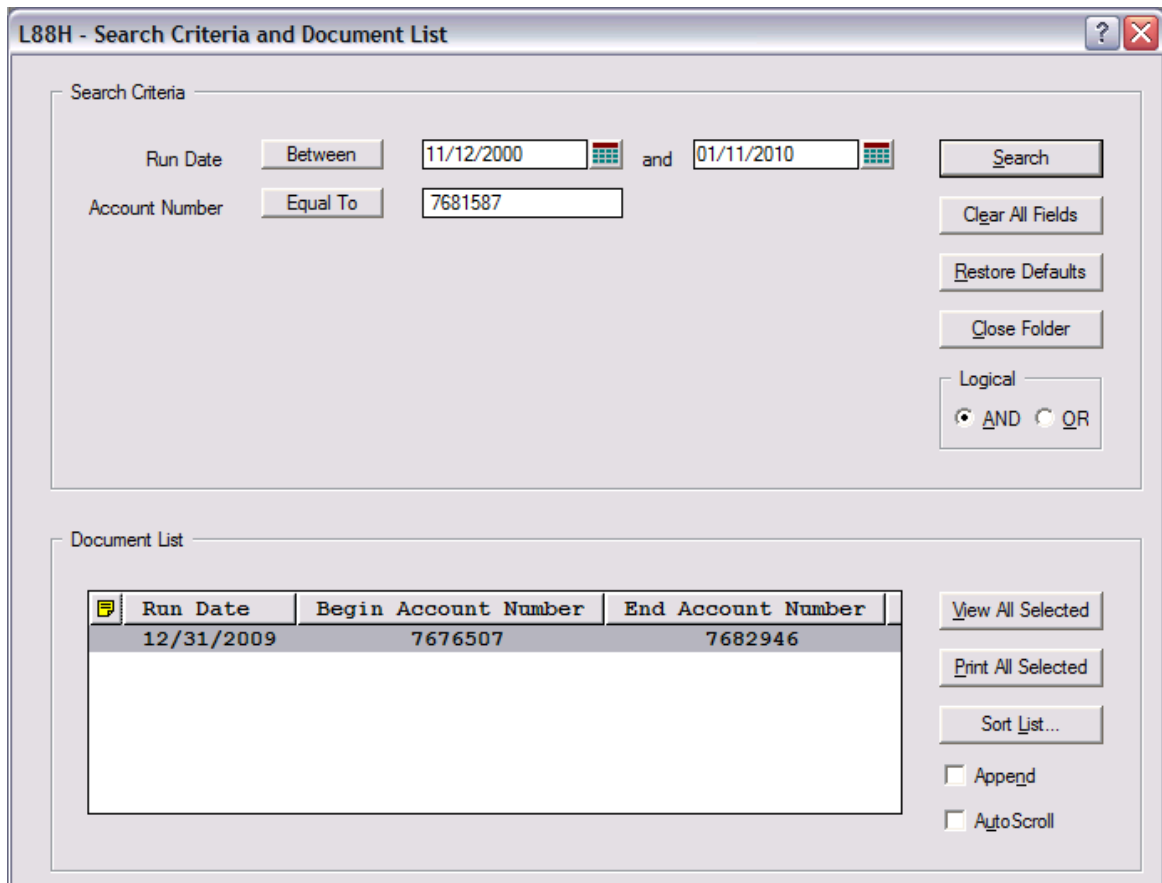
12. Define a validation row, column, and string. See the online help for the OnDemand Administrator client for assistance defining them.
13. Save the Application.

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14. Then, in the OnDemand end-user client, set the Autoview option to First Document or Single Document, as shown below.



15. After the definitions are updated, the user enters a search value for the transaction field in the Search Criteria dialog. For example, a value for Account Number, as shown below.



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16. The document is opened to the page and line that contains the search value, as shown below.

DIST: R11  
FREQ: MONTHLY  
PREM: 71

ONDEMAND INSURANCE COMPANY  
POLICY REGISTER BRYANT 2009/12/31

INSUREDS NAME	POLICY NUMBER	TRAN	ST	AGENT	REIN CO	INCEP DATE	TERM	EXPIR DATE	MP	BOOKED DATE	PREMIUMS
CURTIS, DON	7681587	10D	31	00301		20071101	1	20101101	721	20070927	231.0
CURTIS, DON	7681587	10D	31	00301		20071101	1	20101101	722	20070927	174.0
CURTIS, DON	7681587	10D	31	00301		20071101	1	20101101	723	20070927	.3.0
CURTIS, DON	7681587	10D	31	00301		20071101	1	20101101	761	20070927	5.0
CURTIS, DON	7681587	10D	31	00301		20071101	1	20101101	761	20070927	5.0
MALOCHA, DA	7681599	21D	31	08610		20071119	1	20101021	721	20071127	122.0
MALOCHA, DA	7681599	21D	31	08610		20071119	1	20101021	722	20071127	92.0
MALOCHA, DA	7681599	21D	31	08610		20071119	1	20101021	723	20071127	3.0
MALOCHA, DA	7681599	21D	31	08610		20071119	1	20101021	740	20071127	100.0
MALOCHA, DA	7681599	21D	31	08610		20071119	1	20101021	740	20071127	5.0

For more information, see the following topics in the OnDemand Administrator help:

- Application group database name
- Define a logical view field
- Define a logical view header

And the following topics in the OnDemand end-user client help:

- Autoview

### Configuring the PDF Indexer on Windows to load to another system

This tip describes how to setup an OnDemand for Windows server to run the PDF Indexer and load the data and indexes to OnDemand running on another system. The reason you might do this is that the performance of the PDF Indexer is optimized on Windows.

The other system could be any OnDemand for Multiplatforms server, OnDemand for z/OS server, or OnDemand for i server.

#### **Step 1. Install OnDemand for Multiplatforms on the Windows system**

Download the version of OnDemand for Windows server that matches the version of the OnDemand server running on the other system. For example, if your existing OnDemand server is at version 8.5, you should install OnDemand for Windows version 8.5.

After downloading OnDemand for Windows, unpack the files. Execute the file odwin.exe. During the install process just click on the 'Next' button and accept all the default values.

#### **Step 2. Install the matching Fix Pack**

Next, install the fix pack required to bring the OnDemand for Windows system to the same level as the other system, for example 8.5.0.7.

#### **Step 3. Setup OnDemand on the Windows system**

1. Select: Start > All Programs > IBM OnDemand for Windows > Configurator
2. Select: File > New Server
3. In the Add a Server dialog, enter the following values:
  - a. Server: LocalWin
  - b. Host Name: LocalWin
  - c. Enable option: Local Windows Server
4. Click the OK button to add the server definition
5. Expand server: LocalWin
6. Double-click Instances
7. In the Instance dialog window, enter the instance name and click the Next button.
  - For example: ARCHIVE2 << this value is used for the arslod -I option
8. In the Server dialog window:
  - a. Select option: Remote Library Server

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- b. Enter the Host Name of the other system
- c. Click the Communications button.
  - i. Enter the Port Number of the OnDemand server on the other system.
  - ii. Click the OK button.
  - iii. Back in the Server dialog window, click the Finish button to save the ARCHIVE2 instance definition.

### **Step 4. Load data from the Windows system to the other OnDemand system**

1. Select: Start > All Programs > IBM OnDemand for Windows > Command Window
2. At the OnDemand Command Prompt window, enter an arslload command.

For example:

```
arsload -I ARCHIVE2 -u <userid on other system> -p <password on other system>  
-g <Application Group> -nvf <PDF data file being loaded>
```

# TIPS – MULTIPLATFORMS

## Understanding the correct format for loading line data

It is critical to have a good understanding of the format of your data before indexing it. Let's use line data as an example. It sounds simple but line data can be complex. You must understand the following characteristic of line data:

- Are there carriage controls? If so, what type?
- Are there Table Reference Characters (TRCs)?
- What is the code page?
- What is the record length?
- Is the record length variable, stream, or fixed?
- Are there record delimiters? If so, what type?

Aside from the other characteristics, the ideal line data should contain either ANSI or machine carriage controls. This is so important that OnDemand for Multiplatforms provides an indexing exit just to insert carriage controls into the data. When there are no carriage controls, indexing or loading might fail. For example, without carriage controls, a 100 MB document might index as one page and fail to load because the system runs out of memory.

The line data characteristics are specified on the View Information tab in the Application:

The screenshot shows the 'Add an Application' dialog box with the 'View Information' tab selected. The configuration options are as follows:

- Data Type:** Line
- Orientation:** 0
- File Extension:** (empty)
- Line Count:** (empty)
- Paper Size:** Autosize
- Code Page:** 500
- CC (Carriage Control):** Yes (selected)
- PRMode (Print Record Mode):** None (selected)
- RECFM (Record Format):** Fixed (selected), with **LRECL (Logical Record Length):** 133
- CC Type (Carriage Control Type):** ANSI (selected)
- TRC (Table Reference Character):** No (selected)

This tip is adapted from a [developer works blog post](#).



### Understanding the correct format for loading AFP data

What is the correct format for loading Advanced Function Presentation (AFP) data into OnDemand for Multiplatforms? The following is a text dump of the correct format.

```
1 BDT Begin Document
2   BNG Begin Named Page Group 00000001
3     TLE Tag Logical Element
4     TLE Tag Logical Element
5     TLE Tag Logical Element
6   BPG Begin Page 00000001
7     BAG Begin Active Environment Group
8       MCF2 Map Coded Font2
9       NOP No Operation
0       PGD Page Descriptor
1       PTD2 Presentation Text Desc2
2     EAG End Active Environment Group
3     BCT Begin Composed-Text Block
4       PTX Presentation Text Data
5     ECT End Composed-Text Block
6   EPG End Page
    < next page and so on... >
72  ENG End Named Group
    < next BNG - ENG section >
385 EDT End Document
```

The essential characteristics are the following:

- The file must contain BNG - ENG pairs.
- The Tagged Logical Elements (TLEs) must be between the BNG and BPG for each document.

If the file does not have these, then you must work with your AFP producer to get the data into the correct format.

This tip is adapted from a [developer works blog post](#).

# TIPS – z/OS

## OnDemand for z/OS Quick Hits

### JCL Toolkit

IBM support recommends you have the following JCL in your toolkit whenever you encounter a problem:

```
//ARSDISPL JOB
//*
//* Begin section that works on 8.5 and 9.0
//*
//OMVSWAIT EXEC PGM=SDSF,PARM='/D OMVS,W'
//ISFOUT DD SYSOUT=*
//ISFIN DD DUMMY
//SMS$PDSE EXEC PGM=SDSF,PARM='/V SMS,PDSE,ANALYSIS'
//ISFOUT DD SYSOUT=*
//ISFIN DD DUMMY
//OAM EXEC PGM=SDSF,PARM='/F ARSSOCK3,D,OAM'
//ISFOUT DD SYSOUT=*
//ISFIN DD DUMMY
//*
//* End of section that works on 8.5 and 9.0
//* The rest of these commands are for 9.0 only
//*
//CONFIG EXEC PGM=SDSF,PARM='/F ARSSOCK3,D,CONFIG'
//ISFOUT DD SYSOUT=*
//ISFIN DD DUMMY
//ENVAR EXEC PGM=SDSF,PARM='/F ARSSOCK3,D,ENVAR'
//ISFOUT DD SYSOUT=*
//ISFIN DD DUMMY
//ICSF EXEC PGM=SDSF,PARM='/F ARSSOCK3,D,ICSF'
//ISFOUT DD SYSOUT=*
//ISFIN DD DUMMY
//STATUS EXEC PGM=SDSF,PARM='/F ARSSOCK3,D,STATUS'
//ISFOUT DD SYSOUT=*
//ISFIN DD DUMMY
```

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### How do I override HOME in my BPXBATCH job?

I'm trying to run arsdbs exports via batch but the output is always written to /u/oduser1 (my home directory).

I changed HOME in my dot-profile. I verified that HOME is not specified in /etc/profile. But every command I run is being executed with PWD = /u/oduser1. What's going on?

When you are using BPXBATCH to run a program, you typically pass the program a file that sets the environment variables. If you do not pass an environment variable file when running a program with BPXBATCH, or if the HOME and LOGNAME variables are not set in the environment variable file, those two variables are set from your logon RACF® profile. LOGNAME is set to the user name, and HOME is set to the initial working directory from the RACF profile.

When you run TSO LU ODUSER1 NORACF OMVS, the output is similar to the following:

```
OMVS INFORMATION
-----
UID= 0000000203
HOME= /u/oduser1
PROGRAM= /bin/sh
CPUTIMEMAX= NONE
ASSIZEMAX= NONE
FILEPROCMAX= NONE
PROCUSERMAX= NONE
THREADSMAX= NONE
MMAPAREAMAX= NONE
```

More information on [passing environment variables to BPXBATCH](#) is available in the z/OS Infocenter.

## Carriage control and the OS/390 Indexer

*The following item was included as part of a tip in the 2nd Quarter 2013 Newsletter. It is being reprinted here with some additional information regarding the x'89' carriage control character.*

When the INDEXSTYLE is DOC, PAGE, PDOC or NODX, the load file must contain carriage control characters in column 1. These can be ANSI or MCC carriage control characters.

If MCC carriage control characters are used, any x'89' characters found are converted to x'8B' characters by changing the x'89' into a x'09' and inserting a blank line with a x'8B'. This conversion is done prior to using the various TRIGGER and INDEX indexing parameters to determine when new documents start or to extract index values. Therefore, the TRIGGER values should never include the x'89' character when looking in the carriage control column. It will not be found. Instead, specify the x'8B' character.

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If a line data report does not contain carriage control characters, an INPUT exit can be used to add them.

The LINECNT parameter is not used by the OS/390 Indexer and should not be specified on the Application's View Information tab.

Mixed mode AFP can be stored as DOC, PAGE, PDOC or NODX reports as well. This means that line print data can include the occasional AFP record, which has a x'5A' in the carriage control position.

When the INDEXSTYLE is AFP, all records in the load file must have a x'5A' in column 1.

When using an ANYSTORE exit, there are no checks made concerning carriage control characters.

### Page size and the OS/390 Indexer

When loading a report using the OS/390 Indexer, each page can contain as many as 1,048,320 characters. Just to clarify some terminology:

A **load file** is split into one or more **documents**, based on the indexing parameters defined for the application.

A **document** consists of one or more **pages**, based on the carriage control characters.

A **page** is made up of one or more **lines**. The length of the line depends on the FILEFORMAT indexing parameter. The lines in the load file can be captured as either fixed length records or as variable length records.

The computation used to calculate the size of a page depends on the record type.

For example, if the indexing parameters contain *FILEFORMAT=RECORD,133* then the lines will be stored as fixed length records of 133 characters each. That means that there can be no more than 7,882 lines on a page. ( $1,048,320 \div 133 = 7,882$  rounded down)

If the indexing parameters contain *FILEFORMAT=RECORD* then the lines will be stored as variable length records. Each line of the report is stored with a two byte prefix containing the length of the line. Each line on a page can be a different length. If there are 60 lines on a page, then an extra 120 characters are stored as part of that page. These 120 characters are counted as part of the maximum 1,048,320 characters on a page.

Also note that the OS/390 Indexer does not support the LINECNT indexing parameter. The Line Count field on the View Information tab of the Application Definition should be left blank for reports loaded with the OS/390 Indexer.

## Getting creative with FIELD indexing parameters

When you use an INDEX indexing parameter to extract an index value from a document, you can specify one or more FIELD indexing parameters.

```
INDEXn=name, FIELDnn[ , . . . FIELDnn ], TYPE=type
```

### Example 1

Suppose you want to remove dashes from a field you are using as an index.

To do this with an index user exit program, you could modify the sample index exit program that is shipped with for use with the OS/390 Indexer.

You would define a single FIELD to extract the value that includes the dashes:

```
FIELD2=1, 87, 11, (TRIGGER=4, BASE=0)
INDEX2=X'E2E2D56D6D6DE3C1E76DC9C4', FIELD2, (TYPE=GROUP, BREAK=NO) /*
    SSN__TAX_ID */
```

Then an index exit is used to remove the dashes that appear in column 4 and 7.

You could also remove dashes from a field without using an exit program by using multiple FIELD parameters. Simply define the multiple FIELD parameters to extract the three pieces of the index value, skipping over the dashes:

```
FIELD2=1, 87, 3, (TRIGGER=4, BASE=0)
FIELD3=1, 91, 2, (TRIGGER=4, BASE=0)
FIELD4=1, 94, 4, (TRIGGER=4, BASE=0)
```

Then concatenate the three fields together as shown here:

```
INDEX2=X'E2E2D56D6D6DE3C1E76DC9C4', FIELD2, FIELD3, FIELD4,
    (TYPE=GROUP, BREAK=NO) /* SSN__TAX_ID */
```

### Example 2

Suppose the opposite is the case. The page contains a nine character field and you want to insert dashes into positions 4 and 7. To do this without an index exit, create a FIELD constant for the dash, and include it in the list of fields for the INDEX parameter.

```
FIELD1=X'60'
FIELD2=1, 87, 3, (TRIGGER=4, BASE=0)
FIELD3=1, 90, 2, (TRIGGER=4, BASE=0)
FIELD4=1, 92, 4, (TRIGGER=4, BASE=0)
INDEX2=X'E2E2D56D6D6DE3C1E76DC9C4', FIELD2, FIELD1, FIELD3, FIELD1, FIELD4,
    (TYPE=GROUP, BREAK=NO) /* SSN__TAX_ID */
```

# TIPS – IBM I

## Starting and ending the OnDemand for i servers

Are you still calling program QRDARS/QRLMCTL to start and end your OnDemand servers?

A better method is available! You can start and end your OnDemand servers by using the Start TCP/IP Server (STRTCPSVR) and End TCP/IP Server (ENDTCPSVR) commands, specifying SERVER(\*ONDMD) and INSTANCE(yourinstancename).

### STRTCPSVR

The INSTANCE parameter permits the special values \*DFT, \*ALL, and \*AUTOSTART as well as the specification of the name of an instance. The default value for the INSTANCE parameter is \*DFT. You also have the option of creating a data area to further control the behavior of the STRTCPSVR command.

#### Autostart

An instance is set to autostart if the ARS.CFG file for that instance contains ARS\_AUTOSTART\_INSTANCE=1.

#### Verbose option

You also have the option, when starting a named instance, to specify the verbose option. For example:

```
STRTCPSVR SERVER(*ONDMD) INSTANCE(QUSROND verbose)
```

This can also be abbreviated by using the letter 'v'.

```
STRTCPSVR SERVER(*ONDMD) INSTANCE(QUSROND v)
```

The verbose option includes information from the ARS.INI and ARS.CFG files in the server job log. That information is also written to a spooled file in output queue QUSRRDARS/QRDARS400 when the server is ended.

#### Without the data area

Without the data area, the values of \*DFT and \*AUTOSTART work identically, all instances that are set to autostart are started. Use of the special value \*ALL will start all instances configured on the system. You can also specify the name of a single instance to start, for example:

```
STRTCPSVR SERVER(*ONDMD) INSTANCE(ONDTEST)
```

#### With the data area

With the data area, the value of \*DFT will start only the instance named in the data area. The data area must be named STRTCPSVR and located in library QUSRRDARS. The data area should be created with the type set to character and the length set to 10. To create the data area, use the command:

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```
CRTDTAARA DTAARA(QUSRRDARS/STRTCPSVR) TYPE(*CHAR) LEN(10) VALUE(QUSROND)
TEXT('Autostart instance name for STRTCPSVR *ONDMD *DFT')
```

where QUSROND is the name of the instance to start.

The special values \*ALL and \*AUTOSTART work the same with the data area as without the data area.

### Which instances autostart?

How can you tell which instances will start when STRTCPSVR SERVER(\*ONDMD) INSTANCE(\*AUTOSTART) is executed?

Use the grep command in qshell (qsh) to search the contents of all the ARS.CFG files for the string ARS\_AUTOSTART\_INSTANCE=1.

```
$
grep -n 'ARS_AUTOSTART_INSTANCE=1' /qibm/userdata/ondemand/*/ars.cfg
/qibm/userdata/ondemand/ONDDemo/ars.cfg:53:ARS_AUTOSTART_INSTANCE=1
/qibm/userdata/ondemand/ONDDEU/ars.cfg:53:ARS_AUTOSTART_INSTANCE=1
/qibm/userdata/ondemand/ONDENU/ars.cfg:53:ARS_AUTOSTART_INSTANCE=1
/qibm/userdata/ondemand/QUSROND/ars.cfg:53:ARS_AUTOSTART_INSTANCE=1
$
```

The output of this command indicates that instances ONDDemo, ONDDEU, ONDENU, and QUSROND will be started when STRTCPSVR SERVER(\*ONDMD) INSTANCE(\*AUTOSTART) is executed.

### ENDTCPSVR

The INSTANCE parameter permits the special values \*DFT and \*ALL as well as the specification of the name of an instance. The default value for the INSTANCE parameter is \*DFT. You also have the option of creating a data area to further control the behavior of the ENDTCPSVR command.

#### Without the data area

Without the data area, the values of \*DFT and \*ALL work identically, all instances that are active are ended. You can also specify the name of a single instance to end, for example:

```
ENDTCPSVR SERVER(*ONDMD) INSTANCE(ONDTEST)
```

#### With the data area

With the data area, the value of \*DFT will end only the instance named in the data area. The data area must be named STRTCPSVR and it must be located in library QUSRRDARS.

Note that even though the data area is named STRTCPSVR, it controls both the STRTCPSVR and ENDTCPSVR commands. This is by design, so that \*DFT starts and ends the same instance.



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### Summary

The following table summarizes the behavior of STRTCPSVR.

<b>STRTCPSVR</b>	<b>*DFT</b>	<b>*ALL</b>	<b>*AUTOSTART</b>	<b>Named instance</b>
Without the data area	All instances set to autostart are started	All instances configured on the system are started	All instances set to autostart are started	The named instance is started
With the data area	Only the instance named in the data area is started	All instances configured on the system are started	All instances set to autostart are started	The named instance is started

The following table summarizes the behavior of ENDTCPVSR.

<b>ENDTCPVSR</b>	<b>*DFT</b>	<b>*ALL</b>	<b>Named instance</b>
Without the data area	All active instances are ended	All active instances are ended	The named instance is ended
With the data area	Only the instance named in the data area is ended	All active instances are ended	The named instance is ended

This tip is adapted from [support item 1372886](#).

## OS/400 Indexer START ON parameters

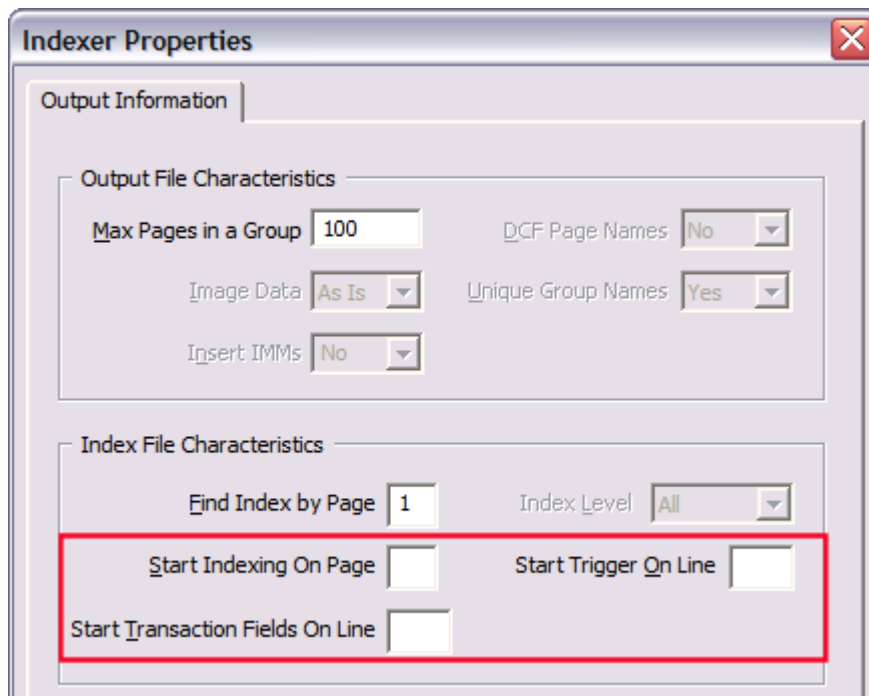
The OS400 Indexer makes it easy for you to index complex documents. If the indexing techniques you normally use do not work, these indexing parameters might solve your problem. The indexing parameters are:

STARTINDEXINGONPAGE - Start indexing on page

STARTTRANSACTIONFIELDSONLINE - Start transaction fields on line

STARTTRIGGERSONLINE - Start triggers on line

These parameters are also supported by the graphical indexer, on the Indexer Properties dialog.



### STARTINDEXINGONPAGE

Indicates the page number on which the OS/400 Indexer should begin indexing. Any pages prior to the starting page are discarded.

#### How to implement

Update the indexer parameters to include

```
STARTINDEXINGONPAGE=x
```

where x is a number between 1 and 99

#### Limitations

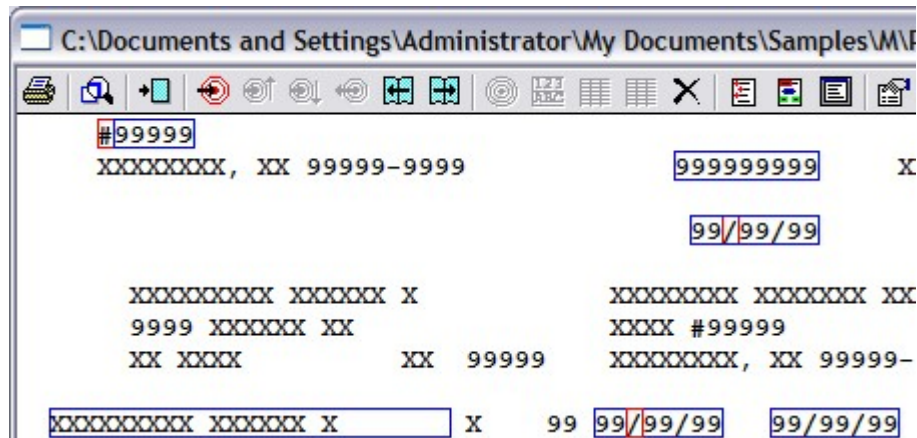
Only data type SCS is supported. The value must equal 1 or not be present for data types AFP, LINE, and SCS-Extended.

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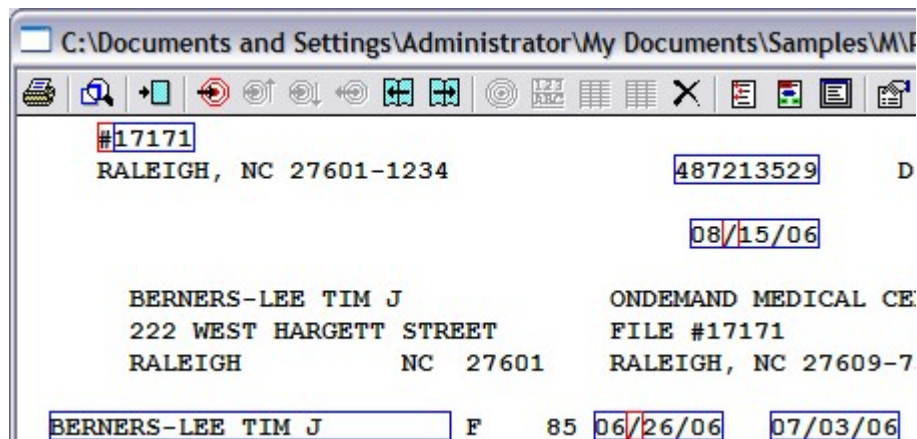
## When to use

Use when there is no possible trigger 1 that excludes the alignment page. In the example shown below, all of the triggers that can be used to locate the fields are found on both the alignment page and on the pages containing data to be indexed. By adding STARTINDEXINGONPAGE=2 to the indexer parameters, the first page of the spooled file is discarded and indexing starts with the second page.

Page 1



Page 2



## STARTTRANSACTIONFIELDSONLINE

Indicates the line number on which the OS/400 Indexer should begin searching for transaction fields.

## How to implement

Update the indexer parameters to include

STARTTRANSACTIONFIELDSONLINE=x

where x is a number between 1 and 510.

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## When to use

When the mask used to select transaction fields also selects data from the page or field headers, as shown in the example below. In our example, the field header matches our mask of:

```
MASK='@@====='
```

By adding STARTTRANSACTIONFIELDSONLINE=10 to the indexer parameters, all lines before line 10 will be skipped before the indexer begins searching for the transaction field.

C:\Documents and Settings\Administrator\My Documents\Samples\M\LATECHARGE - Warning! Thi

REPORT NO.	NC3190.302	ONDEMAND MEDICAL CENTER				
DATE	3/09/01	TIME 11:59				
LATE CHG/ADJ REPORT						
*****						
UNIT	PATIENT NUMBER	PATIENT NAME	BATCH FC NO.	CHARGE CODE	G/L ACCT.	TRAN DATE
*****						
	9893103	ACOSTA, LAWRENCE	MT 12091	12002028	4111	1/12/01
			MT 12094	12002036	4111	1/16/01
	9893103	ACOSTA, LAWRENCE	** PATIENT TOTAL **			
	9872223	ADAMS, ROBERT	MF 12091	12002028	4111	1/12/01
	9901065	ADDISON, PERCY	IO 12094	12002036	4111	1/13/01
			IO 12094	12002036	4111	1/14/01

## STARTTRIGGERSONLINE

Indicates the line number on which the OS/400 Indexer should begin searching for triggers. All triggers must be located on or below this line.

### How to implement

Update the indexer parameters to include

```
STARTTRIGGERSONLINE=x
```

where x is a number between 1 and 510.

### When to use

When the same trigger appears more than once in the same column and you don't want to use the first occurrence of the trigger. Note that ALL triggers must be located on or below the line number specified.

In the example shown below, there are a variable number of invoices listed before the check. All the fields are located within the check, not in the list of invoices. Therefore, we need to skip the

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list of invoices before searching the triggers.

By adding STARTTRIGGERSONLINE=40 to the indexer parameters, all lines before line 40 will be skipped before the indexer begins searching for the triggers.

C:\Documents and Settings\Administrator\My Documents\Samples\M\ATMC\_CHK - Warr

\*\*\*\*\* INVOICE LISTING \*\*\*\*\*

INVOICE #	INV DATE	GROSS AMT	FREIGHT	LESS DSC	NET P.
742675	12/11/07	39642.92	.00	00	39642
742686	12/11/07	4130.13	.00	.00	4,130..

CATV SERVICES

364 ELECTRONIC CONDUCTORS AND DEVICES 1665.69

\*\*\*\*\* PLEASE SEE NEXT PAGE \*\*\*\*\*

\*\*\* COPY 1 \*\*\*

CHECK NUMBER: 11507

DATE	VENDOR CODE	CHECK NO.	AMOUNT
1/05/08	1787	11507	\$105,431.59

ONE HUNDRED FIVE THOUSAND FOUR HUNDRED THIRTY-ONE DOLLARS  
AND 59 CENTS

ONDEMAND ENGINEERING COMPANY  
2385 OLDFIELD ROAD \*\*\*\*\*  
ATLANTA GA 30327

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## Publication Libraries - Containing all PDF versions of the documentation

OnDemand for Multiplatforms Version 9.0 [Publication Library](#)

OnDemand for Multiplatforms Version 8.5 [Publication Library](#)

OnDemand for z/OS Version 9.0 [Publication Library](#)

OnDemand for z/OS Version 8.5 [Publication Library](#)

OnDemand for i Version 7.1 [Publication Library](#)

## Product System Requirements

OnDemand for Multiplatforms Version 9.0 [System Requirements](#)

OnDemand for z/OS Version 9.0 [System Requirements](#)

OnDemand for i Version 7.1 [System Requirements](#)

## More OnDemand Web Sites

OnDemand [Product Overview](#)

OnDemand [Information Roadmap](#)

[Compatibility Matrix](#) for the OnDemand Client and Servers

## OnDemand User Group

The primary objective of the [OnDemand User Group](#) (ODUG) is to create an environment and network encouraging the exchange and development of information regarding Content Manager OnDemand and its associated products.

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