



# CA Database Management for Db2 for z/OS 20.0 (Db2 Tools) Customer Community Update

**Team Product Owners**

September 13<sup>th</sup>, 2021

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# Product Owners

Andrew Badgley

andrew.badgley@broadcom.com

Jakub Hofman

jakub.hofman@broadcom.com

Javier Estrada Benavides

javier.estradabenavides@broadcom.com

Rabah Beggar

rabah.beggar@broadcom.com

Srinivas Adupa

srinivas.adupa@broadcom.com

# Agenda

## Sysview for Db2

- History Browsing Mode
- Data Sharing Group wide reports for IFCID 369 data
- Update of the SYSVIEW for Db2 Archive Tables

## Detector

- Collection of Autonomous NSP activity

## Plan Analyzer

- Choose which Strategy HVersion to Compare against

## Level Set 20.0.01

- What's new

# Please Provide Feedback...



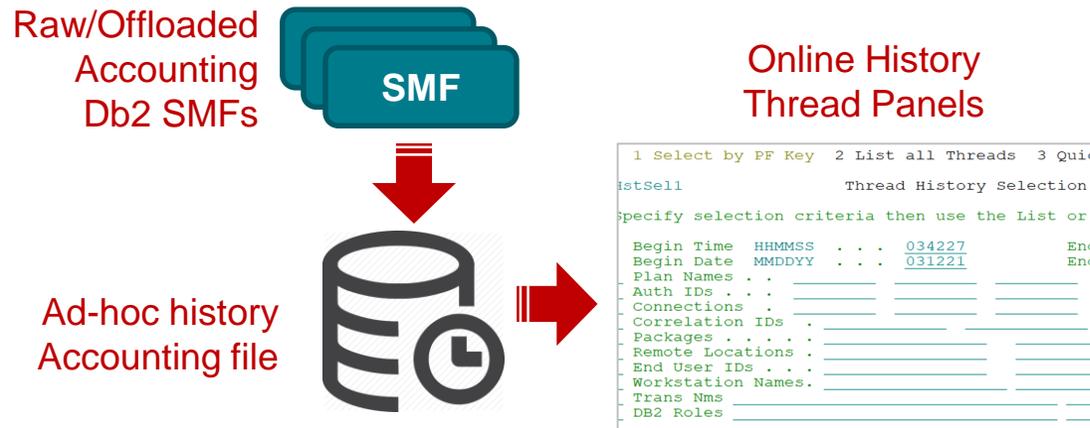


# SYSVIEW for Db2 History Browsing Mode

**Rabah Beggar**

[Rabah.beggar@Broadcom.com](mailto:Rabah.beggar@Broadcom.com)

# SYSVIEW for Db2 History Browsing Mode



- In Db2 environments with high transactional workload, the near-time history keeps a short time period of accounting data, when further history analysis is required, users cannot take the advantage of available online history reports in SYSVIEW for Db2 .

# SYSVIEW for Db2 History Browsing Mode

We introduced a specialized data collector mode as an online alternative to batch reports for analysis of history data (PTF **LU02118**).

Users can designate a data collector for history access only using the new system parameter **DC-HISTORY-MODE**, and dynamically switch between the allocated SYSVIEW for DB2 history files.

# SYSVIEW for Db2 History Browsing Mode

To get started, simply submit a job that executes the following steps:

1. Allocates new history files.
2. Loads the history files with Db2 statistics from an SMF file.
3. Starts the data collector in History-Only DC mode.

New sample JCLs that include all these steps are available in the SOURCE library.

Submit IDB2HDCJ (job) or IDB2HDCS (started task) to start the data collector in History-Only mode.

# History-Only Data Collector Mode - Main Menu

```
Menu Print Tools Help  CA SYSVIEW for DB2  HIST CA31  07/28/21 03:21:47
                        20.0                HISTDV20                JIRAN01
Copyright (c) 2017 CA Technologies

History                History-Only Mode Menu
                        — 1 System History
                        2 Thread History
                        3 SQL Exec History

                        0 Manage History Datasets

Command ==> █
F1=Help                3=End                6=PickDB2
```

# History-Only Data Collector Mode - Manage history files

```
Menu Print Tools Help CA SYSVIEW for DB2 HIST CA31 07/28/21 03:43:37
                        20.0 HISTDV20 JIRAN01

Manage History Datasets

Location HISTDV20

Accounting . . : TSPROD.IDB2.DEV200.HIST.HSTACCT
Statistics . . : TSPROD.IDB2.DEV200.HIST.HSTSTAT
SQL Database . :

Specify a fully qualified name with no quotation marks.
This command immediately reallocates history datasets for all users.

Command ==>
F1=Help      3=End      4=End      5=RFind      6=RChange
F7=Up        8=Down
```

# History-Only Data Collector Mode - Thread History List

```

Menu Print Tools Help CA SYSVIEW for DB2 FAKE CA11 07/28/21 06:04:01
                        20.0 FAKEDV20 JIRAN01

Actions: S=Select for more detail
R/HTLIST Thread History List Item 55/1100
SORT OFF Records Read First 03/10/16 10:13:50
From 03/10/16 10:13:54 To 03/10/16 10:29:58 306212 Last 03/10/16 10:29:58
DB2 HHH:MM:SS M
SSID Time Auth ID Plan Connect Correlation Exc PM DB2 Dur
-----
. D11A 10:17:41.2322 STAST14 DISTSERV SERVER gtdatamaker. 0 0
. D11A 10:17:48.1496 STAST14 DISTSERV SERVER gtdatamaker. 0 0
. DH3G 10:17:50.8963 PLATDEV DB2CALL INTERNAL 0 0
. DH3G 10:18:15.2027 ZEIMA02 DB2CALL INTERNAL 0 0
. D11A 10:18:33.1134 XCOMSTC DISTSERV SERVER db2jcc_appli 0 0
. DD2G 10:18:48.0661 PLATDEV IDBSQ18B DB2CALL PTX88IDC 0 0
. D11A 10:18:48.2293 PLATDEV IDBSD18B DB2CALL PTX77IDC 0 0
. D12A 10:18:57.1235 PLATDEV DB2CALL INTERNAL 0 0
. D12A 10:18:57.1633 PLATDEV DB2CALL INTERNAL 0 0

Command ==>
F1=Help 3=End
F7=Up 8=Down 10=Left 11=Right 12=Return
    
```

# Please Provide Feedback...

**PTF: LU02118**

For further readings, please check:

- [Using History-Only DC Mode](#)
- [History-Only DC Mode](#)
- [Load Online History Files \(IDB2UIFI REQ=LOADHIST\)](#)

**Rabah Beggar**

rabah.beggar@broadcom.com





# **SYSDVIEW for Db2 for z/OS: Data sharing group wide reports for IFCID 369 data (aggregated accounting).**

**Rabah Beggar**

[Rabah.beggar@Broadcom.com](mailto:Rabah.beggar@Broadcom.com)

# Data sharing group wide reports for IFCID 369 data (aggregated accounting).

- SYSVIEW for Db2 provides a real time report for aggregated accounting data aggregated by connection type. So a user can quickly identify what kind of workload (CICS, Batch, Utilities, etc.) is taking most of resources. This report is limited a single subsystem view only – while it is important to get a similar information for the whole data sharing group.
- We extended SYSVIEW for Db2 navigation and introduce new reports that display aggregated accounting information for both a single member and the data sharing group.

# Data sharing group wide reports for IFCID 369 data (aggregated accounting).

- The following new SYSVIEW for Db2 real-time reports are introduced:
  - CSACCTSG – displays accounting statistics that are aggregated by connection type summarized across the members of a data sharing group
  - CSACCTDG – displays the detailed accounting statistics aggregated for the selected connection type across all members of a data sharing group.
  - CSACCTSL – displays accounting statistics aggregated for the selected connection type and split by group members
- Existing CSACCTS and CSACCTD reports are updated to retrieve information from other members of a data sharing group

# Data sharing group wide reports for IFCID 369 data (aggregated accounting).

- The system menu navigation is expanded to include new reports. Selecting the Data Sharing Group Summary ("\*" row in the "DB2 Group Members" SYSPLEX report) now navigates to other two menu choices:
  - 1. "SnapShot" GRPSTATS report (original)
  - 2. "Acct Sum" CSACCTSG report (new)

# “1” System Statistics -> “Select Db2 subsystem” ->“5” Acct Sum

```

Menu  Print  Tools  Help      CA SYSVIEW for DB2  DT11 CA11      07/26/21 11:43:09
                               20.0              DTGPENDK3      SNOOL01
_  1 Snapshot  2 Buffer Pool  3 EDM Pool  4 Logs  5 Acct Sum  6 More...

R/CSACCTS      Acct Stats by Conn Type - Accum      Item 1/8
SORT OFF      Accum
Actions: S=Select for more detail

```

Connection Type	DB2 DT11	Trans Count	Commits + Aborts	App Elap HHHH:MM:SS	DB2 Elap HHHH:MM:SS	DB2 CPU HHHH:MM:SS	DB2 CP HHHH:MM:SS	DB2 zIIP HHHH:MM:SS
ALL	DT11	7496	56707	32:59:17	2:52:08	17:05	13:06	3:59
IMS	DT11	0	0	0	0	0	0	0
CICS	DT11	0	0	0	0	0	0	0
RRSAF	DT11	0	0	0	0	0	0	0
UTILITY	DT11	601	31825	5:11:14	1:59:58	13:53	10:05	3:47
BATCH	DT11	4707	22676	27:34:33	47:05	2:51	2:51	0
DISTRIB	DT11	2188	2206	13:29	5:03	20	8	11
REST API	DT11	0	0	0	0	0	0	0

“1” System Statistics -> “Select Db2 subsystem” -> “5” Acct Sum -> “S=Select for more details”

```

Menu  Print  Tools  Help      CA SYSVIEW for DB2  DT11 CA11      07/26/21 11:15:49
                        20.0      DTGPENDK3      SNOOL01

R/CSACCTD      Acct Stats by Conn Detail - Accum      Row 1/29
SORT N/A      Accum
Data collection enabled since 07/26/21 10:56:14
Connection      CICS Commits      0 Log Recs Write      0
Transactions      0 Aborts      0 Log Bytes Write      0
Child Rollup      0      Savepoint Requests      0
Subsystem      DT31      Savepoint Rel Req      0
                        Savepoint Rolb Req      0

Application Times      --- Total --- - Avg Trans -
(Class 1)      HHHH:MM:SS.TT  HHHH:MM:SS.TT  % App      1      3      5      7      9
Elapsed Time App      0.00      0.00  Elpsd      ..0...0...0...0...0..

```

# “1” System Statistics -> “Selecting the Data Sharing Group Summary”

```

Menu  Print  Tools  Help  CA SYSVIEW for DB2  DT31 CA31  07/26/21 11:22:23
                        20.0  DTGPENDK3  SNOOL01
_  1 Snapshot  2 Acct Sum
R/GRPSTATS      System Snapshot - DS Group - Accumulate      Row 1/26
                        Accum
DATA SHARING ( 2 )
DB2 Group: DSNDTGP  DC Group: SNOLDTGP
Members:  DT11 DT31

EXCEPTIONS Crit Warn Info  BUFFERS  EDM POOL
Subsystem    0    0    0  Warnings  11104  DBD Lds 22763K  % Rqsts  97.4
Database     0    0    2  Act Pools   19  CT Lds   71  % Rqsts   0.8
Applicatn   0    0    0  % Act Pgs   0.4  PT Lds  297  % Rqsts   0.3
                        Pct  Max StIn Getpages 1947M  Dyn Ins  2865  % Rqsts   2.4
LIMITS Current Max  HWM  HWM Sync Rds 41110K
Users        21   1   22  14 Read Eff  47.4
TSO           3   0   2   2 Buf Updts 144M
Batch        18   1   22  12 Pg Writes 63012K
DDF Actv     5   0  10   4 Write I/O 7838K
DDF Inac    46   4  35
Dataset     939   2

SQL
Dynamic      95968  DB2 Pct CPU 0.3
Ins+Upd+Dlt  4220K  DB2 WSS (K) 2911504
Open+Select  2073K  DB2 Up Time 38:23:05
Accelerator   0

ADDRESS SPACES
POOL FAILURES
RID          0
EDM          0
Starjoin    0

LOCKING
Suspend     177K
Escalate    33
Timeout     0
Deadlock    0

LOGGING
Dlyd Wrts   71
Arch Read   4M
Min/Chkpt  21
Warnings    0

THREADS
Active      21
Actv+Cmplt 14386
Count       21
Commits     8
Aborts      0
DB2 CPU     239.976
    
```

# “1” System Statistics -> “Selecting the Data Sharing Group Summary” -> “2 Acct Sum”

```

Menu  Print  Tools  Help      CA SYSVIEW for DB2  DT31 CA31      07/26/21 11:24:35
                        20.0                DTGPENDK3      SNOOL01

_  1 SnapShot  2 Acct Sum

R/CSACCTSG      DSG Acct Stats by Conn Type - Accum
SORT OFF
Actions: S=Select for details, L=List by member

```

Connection Type	Trans Count	Commits + Aborts	App Elap HHHH:MM:SS	DB2 Elap HHHH:MM:SS	DB2 CPU HHHH:MM:SS	DB2 CP HHHH:MM:SS	DB2 zIIP HHHH:MM:SS	DB2 Other HHHH:MM:SS
ALL	19902	174418	141:30:29	13:03:53	40:00	33:46	6:14	1:43:15
IMS	0	0	0	0	0	0	0	0
CICS	0	0	0	0	0	0	0	0
RRSAF	462	1319	3:18	1:15	22	21	0	20
UTILITY	2385	78195	8:59:32	3:34:05	25:23	19:42	5:40	51:33
BATCH	13166	90949	131:25:57	8:45:26	13:21	13:21	0	13:12
DISTRIB	3889	3955	1:01:41	43:05	53	20	32	38:09
REST API	0	0	0	0	0	0	0	0

“1” System Statistics -> “Selecting the Data Sharing Group Summary” -> “2 Acct Sum” -> “S=Select for details”

```

Menu  Print  Tools  Help      CA SYSVIEW for DB2  DT31 CA31      07/26/21 11:28:02
                               20.0           DTGPENDK3      SNOOL01

R/CSACCTDG      DSG Acct Stats by Conn Detail - Accum      Row 1/58
SORT N/A
Data collection enabled since 07/26/21 10:56:14
Connection      UTILITY Commits      78195 Log Recs Write      438450
Transactions    2385 Aborts          0 Log Bytes Write    800425771
Child Rollup    0
Datashr Group   DSNDTGP              Savepoint Requests   0
                                          Savepoint Rel Req    0
                                          Savepoint Rolb Req   0

Application Times      --- Total --- - Avg Trans -
(Class 1)              HHHH:MM:SS.TT HHHH:MM:SS.TT  % App
Elapsed Time App      8:59:32.16    13.57 Elpsd  ..0...0...0...0...0..
CPU Time Appl         31:47.64      0.79   5.9
TCB Time Appl         26:06.79      0.65   4.8
zIIP Appl CPU         5:40.85       0.14   1.1

DB2 Times              --- Total --- - Avg Trans -
(Class 2)              HHHH:MM:SS.TT HHHH:MM:SS.TT  % DB2
Total DB2 Elapsed    3:34:05.63    5.38 Elpsd  ..0...0...0...0...0..
Total DB2 CPU        25:23.22      0.63  11.9
TCB Time DB2         19:42.37      0.49   9.2
Local DB2 zIIP       5:40.85       0.14   2.7
Other DB2 Time       51:33.00      1.29  24.1

Eligible Times        --- Total --- - Avg Trans -  % DB2
                        HHHH:MM:SS.TT HHHH:MM:SS.TT  Elpsd  ..0...0...0...0...0..
zIIP Not Used        0.38          0.00   0.0
Elig Accel Elaps     0.00          0.00   0.0
    
```

“1” System Statistics -> “Selecting the Data Sharing Group Summary” -> “2 Acct Sum” -> “L=List by member”

```

Menu  Print  Tools  Help      CA SYSVIEW for DB2  DT31 CA31      07/26/21 11:30:47
                        20.0                DTGPENDK3      SNOOL01

R/CSACCTSL          DSG Acct Stats for Conn Type - Accum          Item 1/2
SORT OFF
Actions: S=Select for more detail
Connection DB2      Trans      Commits      App Elap      DB2 Elap      DB2 CPU      DB2 CP      DB2 zIIP      DB2 Other
Type        *          Count      + Aborts     HHHH:MM:SS   HHHH:MM:SS   HHHH:MM:SS   HHHH:MM:SS   HHHH:MM:SS   HHHH:MM:SS
-----
- BATCH     DT11      4651        22589        27:31:12     46:08        2:51         2:51         0             3:45
- BATCH     DT31      8591        68498        104:19:18    8:02:07      10:30        10:30         0             9:52
  
```

“1” System Statistics -> “Selecting the Data Sharing Group Summary” -> “2 Acct Sum” -> “L=List by member” -> “S=Select for more detail”

```

Menu  Print  Tools  Help      CA SYSVIEW for DB2  DT31 CA31      07/26/21 11:36:43
                               20.0              DTGPENDK3      SNOOL01

R/CSACCTD      Acct Stats by Conn Detail - Accum      Row 1/60
SORT N/A      Accum
Data collection enabled since 07/26/21 10:56:14
Connection      BATCH Commits      68443 Log Recs Write      59815019
Transactions      8615 Aborts      91 Log Bytes Write      14381760K
Child Rollup      0      Savepoint Requests      0
Subsystem      DT31      Savepoint Rel Req      0
                               Savepoint Rolb Req      0

Application Times      --- Total --- - Avg Trans -
(Class 1)      HHHH:MM:SS.TT  HHHH:MM:SS.TT  % App
Elapsed Time App      104:25:05.55      43.63  Elpsd  ..0...0...0...0...0..
Storeproc Elpsd      4.13      0.00      0.0
CPU Time Appl      12:51.35      0.08      0.2
TCB Time Appl      12:51.14      0.08      0.2
TCB Time StorPrc      0.21      0.00      0.0

```

# Please Provide Feedback...

PTF: LU02303

**Rabah Beggar**  
rabah.beggar@broadcom.com





# Update of the SYSVIEW for Db2 Archive Tables

**Rabah Beggar**

[Rabah.beggar@Broadcom.com](mailto:Rabah.beggar@Broadcom.com)

# Context

- Previously, the documentation was only showing Db2 column names and IQL field names for each archive table.
- We received feedback from several customers who wanted to see the content of the fields in the archive tables.

# Solution

- We matched IQL fields with the descriptions from our help panels.
- The output also includes Db2 field names.
- We prepared a sample table, for which we got a positive feedback from the customer.
- The data was moved to the doc, making sure that display and readability are fine.

# Before



## Columns with Common IQL Field Names

The following table lists the DB2 column name in the SUBSYS\_BP\_PARMS table with the corresponding common IQL field name:

DB2 Column Name	Characteristics	Common IQL Field Name
RECORD_DATE_TIME	TIMESTAMP	EVENT-TIME
SYSTEM_ID	CHAR(4)	MVS-SMF-ID
SUBSYSTEM	CHAR(4)	SUBSYS

# After

## Columns with Common IQL Field Data



The following table lists the Db2 column name in the SUBSYS\_BP\_PARMS table, with the corresponding IQL field name and Db2 field name.

Db2 Column Name	Characteristics	IQL Field Name	Db2 Field Name	Field Description
RECORD_DATE_TIME	TIMESTAMP	EVENT-TIME	QWHSSTCK	The store clock time when the trace record was produced.
RELEASE	CHAR(4)	DB2-RLSE-NUM	N/A	The Db2 version and release in the vv.r format.
SUBSYSTEM	CHAR(4)	SUBSYS	QWHSSSID	The Db2 subsystem name as defined in SYS1.PARMLIB(IEFSSNxx).

# Outcome and Follow-up

- The Subsystem archive tables were fully updated (21 tables).
- Half of the Application archive tables were updated (6/12).
- All remaining archive tables will be updated in the next Quarter.

# Please Provide Feedback...

- SYSVIEW for DB2  
<https://techdocs.broadcom.com/us/en/ca-mainframe-software/database-management/ca-sysview-performance-management-option-for-db2/20-0.html>
- Subsystem Archive Tables  
<https://techdocs.broadcom.com/us/en/ca-mainframe-software/database-management/ca-sysview-performance-management-option-for-db2/20-0/reference/archive-tables/subsystem-archive-tables.html>

**TIP:** If you are on a small screen, minimize the left menu for the best possible display.

**Rabah Beggar**

rabah.beggar@broadcom.com





# Collection of Autonomous NSP activity

**Andrew Badgley**

[andrew.badgley@broadcom.com](mailto:andrew.badgley@broadcom.com)

# | ANSPs

- Autonomous Native Stored Procedures (ANSPs) were added in Db2 11
- ANSPs execute under their own units of work, separate from the calling program, and commit when they finish without committing the work of the calling program.
- Because ANSPs run under their own unit of work their activity is not being collected by Detector

# | PDT ANSP Collection

- Detector® for DB2 for z/OS now supports autonomous native stored procedures (ANSPs).
- Specify Triggered SQL=Y on the Start Collection panel or TRG(Y) in your START(DTR) command when you start the collection.
- This option collects statistics from native stored procedures (including ANSPs), triggered SQL, and native SQL UDFs.

# | ANSP Collection

```
20.0 ----- DETECTOR Start Collection Display ----- 21/09/10 15:20
Command ==>

DB2 SSID ==> D12A

Specify collection options:
Triggered SQL ==> Y (Y/N) Plan Excl/Incl List ==> Y (Y/N)

SQL collection options:
Standard Activity ==> Y (Y/N)
Dynamic SQL Stats ==> Y (Y/N) (Requires profile)
View By Keys ==> Y (Y/N) (Requires profile)
Dynamic Exceptions ==> Y (Y/N) (Requires profile)
Static Exceptions ==> Y (Y/N) (Requires profile)
SQL Errors ==> Y (Y/N/A) (Requires profile)
SQL Error Text ==> Y (Y/N)
Host variables ==> Y (Y/N) (applies to all options)

Collection Profile ==> COLLALL_ Exception cache size MB ==> 0020 (1-20)
```

# Please Provide Feedback...

Collection of Autonomous NSP activity  
PTF: LU02554

**Andrew Badgley**  
andrew.badgley@broadcom.com





# Choose which Strategy HVersion to Compare against

**Andrew Badgley**

[andrew.badgley@broadcom.com](mailto:andrew.badgley@broadcom.com)

# | Can only use prior Strategy version

- When comparing Strategy versions in Plan Analyzer's Explain Strategy Services the Strategy version used is always the prior one.
- There is no way to create a Baseline Strategy version and run multiple compares against it..
- Running your second compare would will compare against the previous compare's HVersion.
- This behavior is specific to Strategy HVersions.

# | Select Historical Strategy Version

Plan Analyzer® for DB2 for z/OS now allows you to choose which historical strategy version of an explain strategy to compare against your SQL source version.

# Select Historical Strategy Version

```
----- PPA Compare Versions Report Options ----- 2021/09/10 15:49
COMMAND ==> _

Report Inclusion Options
Change Level ==> E   B - Changed/Unchanged   S - SQL changed
                  E - Either changed       A - Access changed
                  N - SQL unchanged and Access changed

Paired stmts ==> P   B - Paired/Unpaired   P - Paired       U - Unpaired

Comparison Options
Compare Creator ==> N   Cost Margin (ms) =>      (su) =>      (tc) =>

Formatting Options
SQL/Access Path ==> B   B - Show SQL and Access   S - Show SQL only
                  C - Show the change only   A - Show Access only

SQL version ==> E   E - Show once if equal   O - Show OLD version
Access version ==> E   B - Show both versions   N - Show NEW version
Host Variables ==> N   B - Show Changed/Unchanged C - Show Change Only
                  N - Do not show

Suppress Report ==> Y   Y - No SQL and/or Access changes   N - Show report

Old HVersion ==> AAAATEST   Level => V00033
Options ==> Y   Y - Save N - Use
```

# Select Historical Strategy Version

```
Old HVersion    ==> AAAATEST Level => ?  
Options         ==> Y   Y - Save N - Use
```

```
----- PPA Strategy HVersion Level Selection List ----- 2021/09/10 15:53  
COMMAND ==> _                                           SCROLL ==> PAGE  
                                                         LINE 1 OF 6
```

```
Strategy ==> AAAATEST          DB2 SSID ==> D12A          Version ==> 121M500  
----- BADANA2
```

CMD	VERSION	DESCRIPTION	CREATOR	PBH	S	USER	DATE	TIME
—	V00033	VERSION AUTO CREATED	STERY01	CS	U	CARDOA9	2020-11-02	17.47
—	V00034	VERSION AUTO CREATED	STERY01	CSY	U	CARDOA9	2020-11-02	17.48
—	V00037	VERSION AUTO CREATED	STERY01	CSY	U	STERYA1	2020-11-16	14.14
—	V00038	VERSION AUTO CREATED	STERY01	CSY	U	STERYA1	2020-11-16	14.17
—	V00039	VERSION AUTO CREATED	STERY01	CSY	U	STERY01	2020-11-16	16.12
—	V00040	VERSION AUTO CREATED	STERY01	CSY	U	STERY01	2020-11-16	16.14

\*\*\*\*\* BOTTOM OF DATA \*\*\*\*\*

# Please Provide Feedback...

Choose which Strategy HVersion to Compare against  
PTF: LU01891

**Andrew Badgley**  
andrew.badgley@broadcom.com





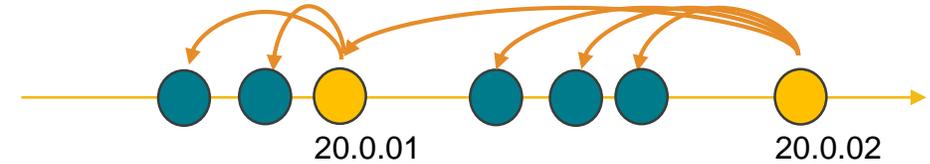
# Db2 Tools Level Set 20.0.01

**Andrew Badgley**

[andrew.badgley@broadcom.com](mailto:andrew.badgley@broadcom.com)

# | What is a Level Set?

- Level Set PTF ●
  - Introduced as part of Continuous Delivery
  - Prereqs all PTFs ● since previous Level Set PTF
  - Applying this PTF ensures that all maintenance is current to that point
  - Product version string expanded – 20.0.*mm*
  - May introduce new functionality once the Level Set is activated
- Level Set 20.0.01 now available (LU01290)
  - PPA - Collection of Compare History Records by the Compare Reports
  - Xmanager - Maintenance Rollout Independence



# PPA - Collection of Compare History Records by the Compare Reports

- PTF LU00440 introduced a new Compare Summary Report in Plan Analyzer.
- When introduced this new report required a Compare History report to be generated so that the necessary Compare information was available for the Compare Summary Report.
- Activation of Level Set 20.0.01 modifies the existing Compare and Compare Version Cost reports to collect the necessary Compare information for the Compare Summary Report.
- More information on the Compare Summary Report:
  - [Documentation](#)
  - [April's Community Update](#)

# Xmanager - Maintenance Rollout Independence

- Until now Xmanager Maintenance Rollout required that all Xmanagers have their maintenance updated at the same time.
- For large shops with multiple Xmanagers the coordination required can be complicated
- Activation of Level Set 20.0.01 allows you the flexibility, if you choose, to rollout Xmanager maintenance one Xmanager at a time as long as the Xmanagers are using separate runtime libraries.
- More information on Maintenance Rollout Independence
  - [March's Community Update](#)

# | Level Set 20.0.01 Activation

- How do I activate Level Set 20.0.01?
  - [Documentation](#)
  - [March's Community Update](#)
  - [October's MTE Event – Session DM02-S](#)

# Please Provide Feedback...

Level Set 20.0.01  
PTF: LU01290

**Andrew Badgley**  
andrew.badgley@broadcom.com





# In Closing...

# When is the next Community Update call?

The 2<sup>nd</sup> Monday of each month

Our next call will be October 11<sup>th</sup>, 2021

## Did you miss our last call (in July)?

The replay is available [here](#).

# CA Db2 Tools 20.0 Validation Project

<https://validate.broadcom.com/key/DB2Tools200>

# Check out our new education offerings

As an **active maintenance customer**, you can consume our **web-based training** courses and **digital badges** at no cost to you.

## What's New

Course Code	Title
06RCQ20010	CA RC/Query® for DB2 for z/OS Database Administration Tasks Command Overview 200
06SYS2026E	CA SYSVIEW® Performance Management Option for DB2 for z/OS - Intermediate - Digital Badge Assessment
06DBT2058E	Log Analyzer™ for Db2 for z/OS: Fundamentals Digital Badge Assessment

- For more information about how to access this training and the digital badge assessment, [watch this two-minute video](#).
- Search for courses and digital badges by course name, product name, or course code in our [Mainframe Course Catalog](#).

Course Name	Code	Type	Length
CA Database Management for Db2 YouTube Playlist	<a href="#">Playlist</a>	Video	
Optimizing CA Database Performance Management for DB2 for z/OS 100	06DBT10090	Web-Based	.75 Hours
CA SYSVIEW® Performance Management Option for DB2 Overview 100	06SYS10110	Web-Based	.25 Hours
CA SYSVIEW® Performance Management Option for DB2 Set Up Your User Profile 200	06SYS20250	Web-Based	.25 Hours
CA SYSVIEW® Performance Management Option for DB2: Monitor Pool Metrics at the SSID Level 200	06SYS20280	Web-Based	.25 Hours
CA SYSVIEW® Performance Management Option for DB2: Monitor Application and Thread Performance 200	06SYS20270	Web-Based	.5 Hours
CA SYSVIEW® Performance Management Option for DB2: Monitor Current and Historical SQL Activity 200	06SYS20280	Web-Based	.25 Hours
CA SYSVIEW® Performance Management Option for DB2: Work with Probe and Trace Requests 200	06SYS20290	Web-Based	.25 Hours
CA SYSVIEW® Performance Management Option for DB2: Use the Exception Monitor 200	06SYS20300	Web-Based	.25 Hours

To learn more about these courses, visit the following Learning Paths:

- [CA Database Administration for DB2](#)
- [CA Database Backup and Recovery for DB2](#)
- [CA Database Performance Management for DB2](#)
- [CA Database Tuning Optimizing and Testing for DB2](#)

# Mainframe Technical Exchange

## October 5-7, 2021

We're gearing up for the Mainframe Technical Exchange and looking forward to connecting with you October 5 - 7! With over **140 interactive sessions** across 7 tracks, there's sure to be something for everyone.

Here are a few not-to-miss **Database Management for Db2** sessions:

**An Exploration of Db2 DevOps Use Cases**

**Tuesday, October 5 | 12:00 PM ET**

**Data Recoverability, Risk Management and Necessary Compliance with Fast Recover and Recovery Estimator**

**Thursday, October 7 | 11:00 AM ET**

**Restart Enabling Your Business-Critical Applications**

**Thursday, October 7 | 12:00 PM ET**

Save your spot to connect with technical experts and peers:

**<http://bit.ly/2021TechExchange>**



Thank You