



HORIZONT

IWS/Audit - Modify Current Plan Change Log

The Audit System for IWS z/OS

What is IWS/Audit?

IWS/Audit is a change documentation system for IWS z/OS:

- It tracks all changes made on the IWS database (WS, calendar, periods, AD, OI, SR, ETT, variable tables), LTP and JS file
- It keeps the changed versions of any IWS objects in it's own database (VSAM)
- A fast and easy to use ISPF Dialog enables you to search e.g.:
 - Which applications of owner XY has been changed last month?
 - Which variable table did I delete last week?
 - A job was running with a wrong input file. Did anybody change it's JS JCL last night?
- IWS/Audit shows you all changes in detail (all fields) and you can
 - Compare old versions
 - Restore old versions back to IWS
- In addition, there is a detailed Current Plan Audit report, which shows you e.g. all manual changes (all fields)

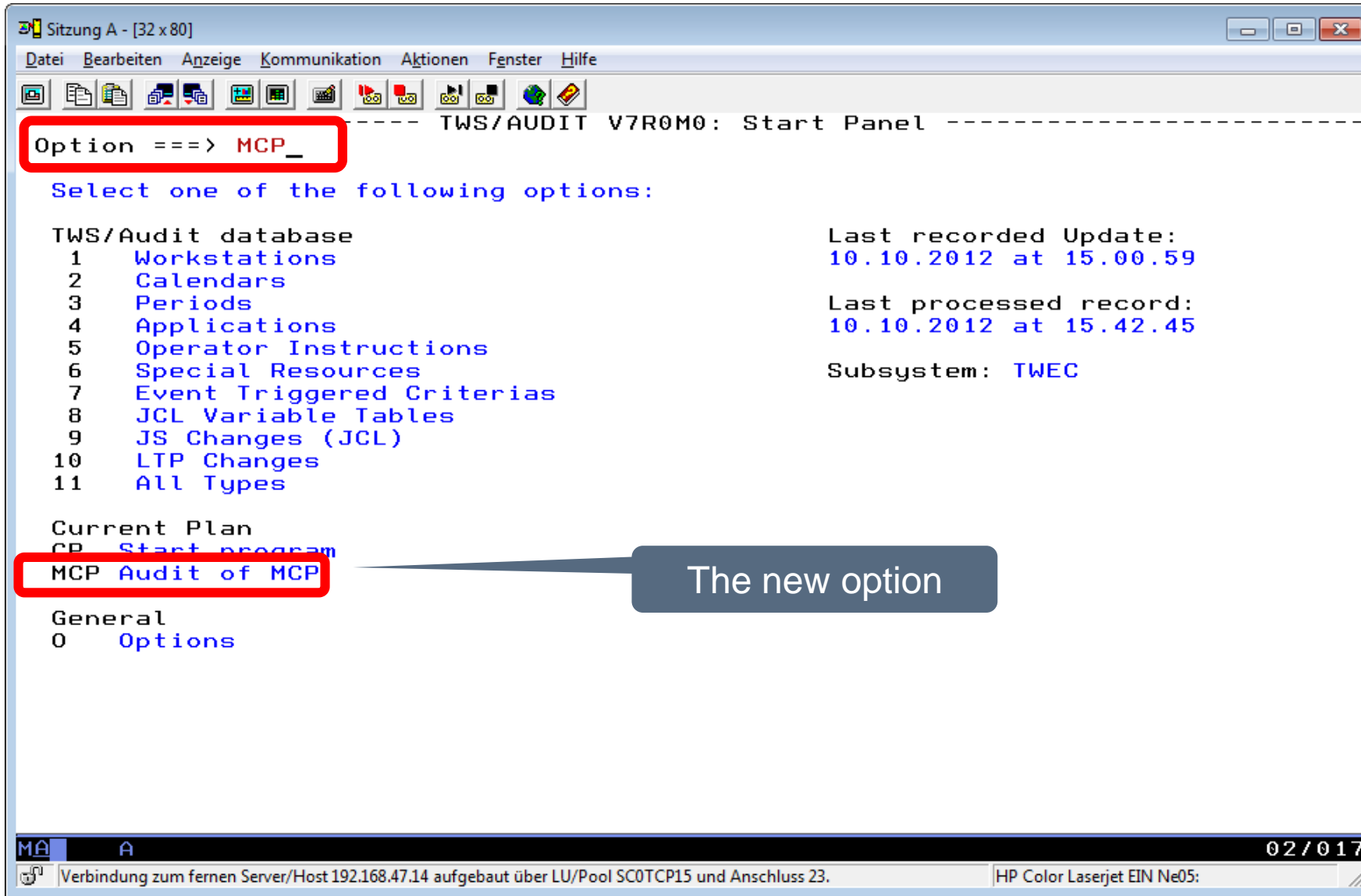
IWS/Audit MCP Change Log

IWS/Audit 7.0 provides a new optional function, to track and comment MCP dialog change activities:

- A new option (MCP=Y) tells the IWS/Audit batch program to
 - Read the JT files
 - Look for modifications, done by MCP dialog (IWSz ISPF 5.x)
 - Store the key data of the changes like occurrence, job name, timestamp etc. in the IWS/Audit database

That runs very quickly and can be done frequently or on demand
- A new IWS/Audit dialog part allows to
 - Search for the changes by application, userid, time range etc.
 - Enter a reason text and person who ordered the change
- That helps
 - The IWS operators to see what their colleagues already did
(especially if they work on different locations)
 - To fulfill the requirements of IT auditors

IWS/Audit MCP Change Log



The new option

IWS/Audit MCP Change Log

```
Sitzung A - [32 x 80]
Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe
----- Search Arguments for MCP -----
Command ==>
Application ==> T*
UserID ==> P390K
Group ==>
Action ==>
Medium ==> (EB: equal blank)
Order-Person ==>
Text-Lines ==> (Number of Free-Text lines)
Interval ==> (Hours) (Leave blank to specify dates)
Date from ==> 13/07/03 Time from ==> - (HH.MM)
Date to ==> Time to ==> - (HH.MM)

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```

Search for changes e.g. on specific applications, done by a specific user

Search for changes done in a specific time range (interval) works like in the other IWS/Audit dialog

IWS/Audit MCP Change Log

```
Sitzung A - [32 x 80]
Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe
TWS/Audit: ----- ROW 001 TO 008 OF 008
Command ==> _          SCROLL ==> CSR

Command: SORT Report REFresh
LnCmd  : S Select T TWS update record C Copy P Paste
Medium : 0 None 1 Mail 2 Phone 3 ProcMan 0 Other

L Application   Op  JobName  LC-Date  LC-Time  Userid  Action  M Order->
- TEST01
- TEST01        010  P390K1
- TEST01        010  P390K1
- TEST01        010  P390K1
- TEST01        010  P390K1
- TEST01        010  P390K1
- TEST01        100
- TEST01        010  P390K1
*****
* BOTTOM OF DATA *****
*****
```

The result list shows you changed application, operation, jobname, ...

... the type of action, e.g. "ADD application" (5.1), "MODified JS JCL" etc. The actions to be tracked and it's name can be parameterized

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IWS/Audit MCP Change Log

```
Sitzung A - [32 x 80]
Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe
-----
TWS/Audit: ----- ROW 001 TO 008 OF 008
Command ==> _          SCROLL ==> CSR

Command: SORT Report REFresh
LnCmd  : S Select T TWS update record C Copy P Paste
Medium : 0 None 1 Mail 2 Phone 3 ProcMan 0 Other

L Application      <erson      T TWS-Date   TWS-Time  TWS-Uid   IA-Date   -Time G>
- TEST01           0 13/07/03   16.09.09  P390K     13/07/03   07.00
- TEST01           0 13/07/03   16.09.57  P390K     13/07/03   07.00
- TEST01           0 13/07/03   16.10.13  P390K     13/07/03   07.00
- TEST01           0 13/07/03   16.10.35  P390K     13/07/03   07.00
- TEST01           0 13/07/03   16.10.49  P390K     13/07/03   07.00
- TEST01           0 13/07/03   16.11.00  P390K     13/07/03   07.00
- TEST01           0 13/07/03   16.11.22  P390K     13/07/03   07.00
- TEST01           0 13/07/03   16.11.32  P390K     13/07/03   07.00
***** BOTTOM OF DATA *****

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```

If you scroll right you see date and time when the update was done and also the input arrival of the affected occurrence

IWS/Audit MCP Change Log

```
Sitzung A - [32 x 80]
Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe
----- Selected MCP record details -----
Command ==>
Command: CANceL END
Application : TEST01          Operation
TWS-Uid      : P390K          JobName
TWS-Date    : 13/07/03       IA-Date
TWS-Time    : 16.09.09       IA-Time
Action      : ADD-AD

Medium : 0 None 1 Mail 2 Phone 3 ProcMan 0 Other
Medium      ==> 1
Order-Person ==> Helmut
Free-Text   ==> Application TEST01 inserted to show how TWS/Audit
               tracks CP changes like this

e.g. how was the order requested
(email, phone call etc.),
who asked for it
and maybe some comments

the same timestamp ==> N (Y:Yes,N:No)
16 / 050
Verbindung zum fernen Server/Host 192.168.47.14 aufgebaut über LU/Pool SC0TCP16 und Anschluss 23. HP Color Laserjet EIN Ne05:
```


IWS/Audit MCP Change Log

Sitzung A - [32 x 80]

Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe

TWS/Audit: ----- ROW 001 TO 008 OF 008
Command ==> SCROLL ==> CSR

Command: SORT Report REfresh
LnCmd : S Select T TWS update record C Copy P Paste
Medium : 0 None 1 Mail 2 Phone 3 ProcMan 0 Other

L	Application	Op	JobName	LC-Date	LC-Time	Userid	Action	M	Order->
-	TEST01			13/07/03	17.26.40	P390K	ADD-AD	1	Helmut
c	TEST01	010	P390K1	13/07/03	17.26.55	P390K	MOD-JCL	0	myself
p	TEST01	010	P390K1				RER-OP		
-	TEST01	010	P390K1				HLD-OP		
-	TEST01	010	P390K1				MOD-JCL		
-	TEST01	010	P390K1				RER-OP		
-	TEST01	100					DEL-OP		
-	TEST01	010	P390K1				REL-OP		

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

MA A 12/002

Verbindung zum fernen Server/Host 192.168.47.14 aufgebaut über LU/Pool SC0TCP16 und Anschluss 23. HP Color Laserjet EIN Ne05:

Copy/Paste copies the order data of one change record to another

LC-Date/Time/Userid belongs to the entered order data (last change)

IWS/Audit MCP Change Log

```
Sitzung A - [32 x 80]
Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe
----- ROW 001 TO 008 OF 008
Command ==> SCROLL ==> CSR
Command: SORT Report REFeedback
LnCmd : S Select T TWS update record C Copy P Paste
Medium : 0 None 1 Mail 2 Phone 3 Prochan 0 Other

L Application Op JobName LC-Date LC-Time Userid Action M Order->
- TEST01 010 P390K1 13/07/03 17.26.40 P390K ADD-AD 1 Helmut
t TEST01 010 P390K1 13/07/03 17.26.55 P390K MOD-JCL 0 myself
- TEST01 010 P390K1 13/07/03 17.28.50 P390K RER-OP 0 myself
- TEST01 010 P390K1 HLD-OP
- TEST01 010 P390K1 MOD-JCL
- TEST01 010 P390K1 RER-OP
- TEST01 100 DEL-OP
- TEST01 010 P390K1 REL-OP
***** BOTTOM OF DATA *****

MA A 11/002
Verbindung zum fernen Server/Host 192.168.47.14 aufgebaut über LU/Pool SC0TCP16 und Anschluss 23. HP Color Laserjet EIN Ne05:
```

Line command T shows you the update record sent to IWS...

IWS/Audit MCP Change Log

```
Sitzung A - [32 x 80]
Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe
Menu Utilities Compilers Help

BROWSE      SYS13184.T172841.RA000.P390K.R0135253      Line 00000000 Col 001 080
Command ==> _____ Scroll ==> CSR
***** Top of Data *****
=====
J C L      -   B R O W S E
=====
Application Name      : TEST01
Occ Input Arrival Date : 03.07.2013
Occ Input Arrival Time : 07:00
Operation Number     : 10
Jobname              : P390K1
Workstation           : CPU
Last Update User     : P390K
Last Update Date     : 03.07.2013
Last Update Time     : 16:09
Updating Function     : Ready List
Operation Status     : Saved
Number of JCL Lines  : 11
Number of Variables  : 0
-----
J C L      T E X T
-----
//P390K1 JOB  MSGCLASS=T,REGION=5M,CLASS=A
//*
/*>OPC SCAN
/*>OPC SETFORM CTIME=(HH:MM)
/*
//STEP1      EXEC PGM=IEFBR15,PARM='16:09'
//SYSPRINT DD *
/*
MA      A                                          04/015
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```

... and you can see the IWS CP data and in case of JCL modifications also the new JCL data which was written to IWS

IWS/Audit MCP Change Log

```

Sitzung A - [32 x 80]
Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe
-----
TWS/Audit: ----- ROW 001 TO 008 OF 008
Command ==> keys_          SCROLL ==> CSR

Command: SORT Report REFresh
LnCmd  : S Select T TWS update record C Copy P Paste
Medium : 0 None 1 Mail 2 Phone 3 ProcMan 0 Other

L Application      Op  JobName  LC-Date   LC-Time  Userid   Action    M Order->
- TEST01           010 P390K1   13/07/03  17.26.40 P390K    ADD-AD    1 Helmut
- TEST01           010 P390K1   13/07/03  17.26.55 P390K    MOD-JCL   0 myself
- TEST01           010 P390K1   13/07/03  17.28.50 P390K    RER-OP    0 myself
- TEST01           010 P390K1
- TEST01           010 P390K1
- TEST01           010 P390K1
- TEST01           100
- TEST01           010 P390K1
- TEST01           010 P390K1
*****
***** BOTTOM OF DATA *****

```

To run the JT analysing job on demand, you may define a "submit function key"

IWS/Audit MCP Change Log

```
Sitzung A - [32 x 80]
Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe
PF Key Definitions and Labels - Alternate Keys
Command ==> _
Note: Definitions and labels below apply only to terminals with 24 PF keys.
PF13 . . ISO_sub 'SYSH.TWSAUDIT.V7R1M0.CNTL(OPAJCPJM)'
PF14 . . SPLIT Rew
PF15 . . END
PF16 . . sub
PF17 . . RFIND
PF18 . . RCHANGE
PF19 . . UP
PF20 . . DOWN
PF21 . . SWAP next
PF22 . . LEFT
PF23 . . RIGHT
PF24 . . RETP

PF13 label . . _____ PF14 label . . _____ PF15 label . . _____
PF16 label . . _____ PF17 label . . _____ PF18 label . . _____
PF19 label . . _____ PF20 label . . _____ PF21 label . . _____
PF22 label . . _____ PF23 label . . _____ PF24 label . . _____

Press ENTER key to display primary keys. Enter END command to exit.

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```

This job will find all changes that were made via the IWS MCP dialog and stores it in the IWS/Audit database

IWS/Audit MCP Change Log

Sitzung A - [32 x 80]

Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe

TWS/Audit: ----- 0 008 OF 008
Command ==> **ref_** L ==> **CSR**

Command: SORT Report REFresh
LnCmd : S Select T TWS update record & copy & paste
Medium : 0 None 1 Mail 2 Phone 3 ProcMan 0 Other

L	Application	Op	JobName	LC-Date	LC-Time	Userid	Action	M	Order->
-	TEST01			13/07/03	17.26.40	P390K	ADD-AD	1	Helmut
-	TEST01	010	P390K1	13/07/03	17.26.55	P390K	MOD-JCL	0	myself
-	TEST01	010	P390K1	13/07/03	17.28.50	P390K	RER-OP	0	myself
-	TEST01	010	P390K1				HLD-OP		
-	TEST01	010	P390K1				MOD-JCL		
-	TEST01	010	P390K1				RER-OP		
-	TEST01	100					DEL-OP		
-	TEST01	010	P390K1				REL-OP		

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

IKJ56250I JOB OPAJCPJM(JOB28402) SUBMITTED

MA A 02/018

Verbindung zum fernen Server/Host 192.168.47.14 aufgebaut über LU/Pool SC0TCP16 und Anschluss 23. HP Color Laserjet EIN Ne05:

Use Refresh to get the latest updates in your list

IWS/Audit MCP Change Log

Sitzung A - [32 x 80]

Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe

TWS/Audit: -----
Command ==> SORT CHA_ 0 015 OF 015
L ==> CSR

Command: SORT Report REFresh
LnCmd : S Select T TWS update re
Medium : 0 None 1 Mail 2 Phone 3

“Sort cha” brings the latest changes on the top (by IWS update time)

L	Application	Op	JobName	LC-Date	LC-Time	Userid	Action	M Order->
-	TCPB01	001					MOD-OP	
-	TCPB00						ADD-GRP	
-	TCPB01						ADD-AD	
-	TCPB03						ADD-AD	
-	TCPB03	001					MOD-OP	
-	TCPB02	001					MOD-OP	
-	TCPB02						ADD-AD	
-	TEST01	010	P390K1				REL-OP	
-	TEST01	100					DEL-OP	
-	TEST01	010	P390K1				RER-OP	
-	TEST01	010	P390K1				MOD-JCL	
-	TEST01	010	P390K1				HLD-OP	
-	TEST01	010	P390K1	13/07/03	17.28.50	P390K	RER-OP	0 myself
-	TEST01	010	P390K1	13/07/03	17.26.55	P390K	MOD-JCL	0 myself
-	TEST01	010	P390K1	13/07/03	17.26.40	P390K	ADD-AD	1 Helmut

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

MA A 02/023

Verbindung zum fernen Server/Host 192.168.47.14 aufgebaut über LU/Pool SC0TCP16 und Anschluss 23. HP Color Laserjet EIN Ne05:

IWS/Audit MCP Change Log

```
Sitzung A - [32 x 80]
Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe
----- Selected MCP record details -----
Command ==> _
-----
Command: CANcel END

Application   : TCPB00
Operation    :
JobName      :
TWS-Uid      : P390K
TWS-Date     : 10.10.2012      TWS-Time : 17.10.43
IA-Date      :                IA-Time   :
Action       : ADD-GRP

Medium : 0 None 1 Mail 2 Phone 3 ProcMan 0 Other

Medium      ==> 2
Order-Person ==> Helmut_____
Free-Text   ==> Show how to assign same data to all records with_
              the same timestamp_____
              _____
              _____
              _____
              _____

Copy order data to all records with the same timestamp ==> Y (Y:Yes,N:No)

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Verbin
```

If there are several records with the same update time, you can add the entered order data automatically to all records

02/015

IWS/Audit MCP Change Log

```
Sitzung A - [32 x 80]
Datei Bearbeiten Anzeige Kommunikation Aktionen Fenster Hilfe
-----
TWS/Audit: ----- ROW 001 TO 015 OF 015
Command ==> _          SCROLL ==> CSR

Command: SORT Report REFresh
LnCmd  : S Select T TWS update record C Copy P Paste
Medium : 0 None 1 Mail 2 Phone 3 ProcMan 0 Other

L Application  < Userid  Action  M Order-Person  T TWS-Date  TWS-Tim>
- TCPB01      9 P390K  MOD-OP  2 Helmut        2 13/07/03  17.38.24
- TCPB00      9 P390K  ADD-GRP  2 Helmut        2 13/07/03  17.38.24
- TCPB01      9 P390K  ADD-AD   2 Helmut        2 13/07/03  17.38.24
- TCPB03      9 P390K  ADD-AD   2 Helmut        2 13/07/03  17.38.24
- TCPB03      9 P390K  MOD-OP   2 Helmut        2 13/07/03  17.38.24
- TCPB02      9 P390K  MOD-OP   2 Helmut        2 13/07/03  17.38.24
- TCPB02      9 P390K  ADD-AD   2 Helmut        2 13/07/03  17.38.24
- TEST01     0 13/07/03  REL-OP   0 myself        0 13/07/03  16.11.32
- TEST01     0 13/07/03  DEL-OP   0 myself        0 13/07/03  16.11.22
- TEST01     0 13/07/03  RER-OP   0 myself        0 13/07/03  16.11.00
- TEST01     0 13/07/03  MOD-JCL  0 myself        0 13/07/03  16.10.49
- TEST01     0 13/07/03  HLD-OP   0 myself        0 13/07/03  16.10.35
- TEST01     0 13/07/03  RER-OP   0 myself        0 13/07/03  16.10.13
- TEST01     0 13/07/03  MOD-OP   0 myself        0 13/07/03  16.09.57
- TEST01     2 13/07/03  MOD-OP   2 myself        2 13/07/03  16.09.09
** *****

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```

That was an add group which results in several add application and modify operations

IWS/Audit MCP Change Log

IWS/Audit tracking of MCP dialog changes helps the IWS production controllers and IT auditors

- A frequently or on demand running IWS/Audit batch program finds all changes that were made via the IWS MCP dialog and stores it in the IWS/Audit database
- Using the IWS/Audit MCP dialog you can
 - Search for the changes by application, userid, time range etc.
 - Optionally enter a reason text and person who ordered the change.
 - This data can be reviewed later. You define how long you keep it.

Thanks for your attention! Do you have any questions?

The logo for 'HORIZONT' features the word in a bold, sans-serif font. The letter 'O' is highlighted in red, while the other letters are in dark grey. The background is light grey with a large red curved shape on the left and several faint geometric shapes (squares and a triangle) scattered around.

HORIZONT

Please feel free to visit us in Munich or send an email to
info@horizont-it.com