



## **Universal Data Manager**

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12th March 2014 Session Number 15363









## **UDM Overview**

- UDM is a true centralized SRM Tool for managing z/OS systems
- For all functions it allows processes to be run on multiple systems, in parallel
  - Results from all systems are returned to a single Window
- Unique design ensures installation takes minutes rather than days





## **UDM Scope**

- UDM allows users to centrally store and run:
  - z/OS or TSO Commands
  - JCL decks
  - Reports
- UDM allows service levels to be defined and managed centrally via:
  - Timed scheduling
  - Log Message Traps
  - Single screen Alert monitor









## **UDM Architecture**

- UDM is the 'new kid on the block' but it means the design uses the latest technologies
- Existing solutions tend to use either
  - Distributed servers
  - Host to Host communication
- UDM uses 'multi threading' and communicates directly with all z/OS systems in parallel





## **UDM Architecture**







No complicated install or customization simply:

- Download Libraries
  - Only two libraries required
- Initialize Parmlib
  - Only four parameters actually required
- Start Procedures
  - Common procedure for all systems
- Start GUI
  - Common GUI no need for each user to have their own version







#### Step 1 - Start the Procedure on each System

Simple Procedure	//UDMPROC //UDMMAIN //	PROC SSID=UDM1,II EXEC PGM=UDMMA PARM='MEMBER=&II	√1,ID=UDM1 /IMAIN,TIME=NOLIMIT,REGION=0M, ₹=&ID,SSID=&SSID'				
Minimal Libraries	//STEPLIB //SYSCOPY	DD DISP=SHR,DSN DD DISP=SHR,DSN	=DINO.BASE.V1R0.LOADLIB =DINO.BASE.V1R0.SYSCOPY				
Minimal Parameters	//PARMLIB SITEHLQ PORT COMPLEX_SYSTEM SYSPLEX_SYSTEM MULTICAST_PORT AUTH_CODE	DD * = UDMTEST = 8000 = Y = Y = 8005 = XXXX-K04A1-DJN	/* Prefix for created datasets /* Port to use for communication /* Main system in Complex /* Main system in Sysplex /* Multicast broadcast port ISO-FEFAG-74HK7	*/ */ */ */			





### Step 2 - Start the GUI

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	Location (both dotted IP addresses and domain names acceptable)	
	IP Address 172.29.122.86	Specify IP Address of
	IP Port Number 8000 Min=1024 Max=65534	system
	Signon Cancel	Specify Port Number
		reserved for UDM





### Step 3 Use the Features







## **UDM Features**

UDM Divided into Four Main Areas

- Command Interface
- JCL Interface
- Reporting Interface
- Automation Interface







The Command Interface provides the ability to:

- Centrally define and store common commands
  - TSO or z/OS Commands can be specified
  - Variables allow generic commands to be created
- Issue Commands to multiple Systems
  - Commands issued with Users authority
- Review output within a single Window







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## **UDM Command Interface**

### Centrally store common Commands (TSO/z/OS)

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### Centrally define common Commands (TSO,z/OS)







#### Issue Commands to multiple Systems





#### Review output within a single Window

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Did someone mention security?

- Commands are <u>NOT</u> submitted using authority of server
- Commands are submitted using authority of <u>YOUR</u> TSO Userid
- This means no complicated Security setups or bypassing of security





The JCL Interface provides the ability to:

- Centrally define / store common JCL decks
  - Variables allow generic JCL decks to be created
- Submit JCL to multiple Systems
- Review Job Status and Output within a single Window









#### Centrally store common JCL Decks





#### Centrally define common JCL Decks







#### Variables allow generic JCL decks to be created





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### Submit JCL to multiple Systems

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#### Specify Variable Values for each System







#### **Review Job Submit Status**

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#### **Review Job Output**

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The Reporting Interface provides the ability to:

- Centrally define and store common Reporting requirements
- Run Reports on multiple Systems
- Review Output within a single Window
- Manipulate results







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# **UDM Reporting Interface**

### Centrally store common Reporting requirements





Hang on this is all looking very familiar!?!?!?!



That's the idea..

Delete, Defining, Submitting is the same irrespective of what your working with, Commands, JCL decks, Reports, Automation requests....





#### Centrally define common Reporting requirements



Complete your session evaluations online at www.SHARE.org/Anaheim-Eval 28



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#### Define Report Attributes (Fields to Show in Report)

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### Define Report Attributes (Filters)

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# **UDM Reporting Interface**

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### Define Report Attributes (Card Images)





### Run Reports on multiple Systems

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### Review Output within a single Window

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	24/02/2014 01:00:00	12:29:00	50W2	DB2ARCC	POOL	STOP	AGE G	ROUP FOR DB2ARC LOGS	1	0	1	0
	24/02/2014 01:00:00	12:29:00	50W1	DBCARCG	POOL	STOP	AGE G	ROUP FOR DB2ARC LOGS	1	0	1	0
	24/02/2014 01:00:00	12:29:00	50W2	DBAGSG	POOL	STOP	AGE G	ROUP DBAGSG	1	0	1	0
	24/02/2014 01:00:00	12:29:00	50W1	DBAGSG	POOL	STOP	AGE G	ROUP DBAGSG	1	0	1	0
	24/02/2014 01:00:00	12:29:00	50W2	DBBGSG	POOL	STOP	AGE G		1	0	1	0
	24/02/2014 01:00:00	12:29:00	50W2	DINOSG	POOL	2101	AGE G	ROUP FOR DB2 VII	8	8	0	37.89
	24/02/2014 01:00:00	12:29:00	50W1	DINOSG	POOL				8	8	0	37.89
· ·		10.00.00		101 1001	2001				-	-	2	0.707



Manipulate Report Results

- Export Report to CSV, Excel, HTML...
- Create Graphs from Report data
- Import Report data into JCL Skeletons
- Navigate to other reports, for example when displaying Storage groups, show all Volumes in Storage group
- Pivot the Report for example use this in a Unit Address report to show if the volume is online to all Systems
- Statistically analyze Report data









Now that was all very manual?



You can define, Commands, JCL, Reports etc. but you physically have to press the button to submit them



The Automation Interface allows you to submit these processes automatically





When Automation can Occur?

- With the Automation Interface you can take Actions if the following events occur:
  - Specific Console messages issued
  - Specific Times are reached, for example at the start of every month
  - Specific Conditions are reached, for example a Catalog is full or Storage group is full (SQL interrogation)







What Automation can do?

- With the Automation Interface you can take the following Actions when an event occurs :
  - Run a TSO or z/OS command
  - Submit some JCL
  - Run a Report, which could then generate JCL for each observation found







### Define Automation Just Like the Other Features





### Sample Message Trap Automation

R	Di	10-UDM		×		
File Edit Actions View Window Help						
When does this run?						
After message issued.	ription	Automation Enabled	Close 🛃 🕖	V		
23 Automation 01/03/2014 05-55-	alog Backup	Yes	Cell Name	Cell Value		
Commands 01/03/2014 08:07:23 01/03/2014 08:07:23	A DI OG trap	Yes	Description	Run DFHSM Log Offload		
CL Decker 01/02/2014 06:22:22 05/02/2014 00:21:32 LA	test		Automation Enabled ?	Yes		
What shall we do?	age groups full	Yes	Automation Type	When Message issued		
			Automation Action	Command Deck		
Run a Command			Max allowed RC	0		
Servers			Message ID	ARC0027I		
			Message Text is			
We should run after which message?			Message Text is Not			
			Message Type	ALL		
HSM LOG Swapped			Message Owner			
			Monitor Automation ?	No		
			Dependencies ?	No		
			Pup on System / Ploy a	2 (50W/1 50W/2)		
On which Systems should this run?			Hurl of System/ Flex.s	2 (30001 30002) 🗸		
On which bystems should this full:			Insert 👻			
S0W1 and S0W2			···· <sub>1</sub> ···· <sub>2</sub> ···· <sub>2</sub> ··			
	·					
			S LOGSWAP	<u>^</u>		
What Command should we run?						
LOGSWAP procedure						





# **UDM Monitoring Interface**

Centrally monitor Automation and your Systems

- You can raise an alert when:
  - The process starts
    - For example notify me when a Console message is issued
  - When the process ends OK
    - For example run report automation to show Pools over 80 Percent used. It ends with 0 if some are found so notify me
  - When the process ends in Error
    - For example notify me if the Catalog backup Job failed









## **UDM Monitoring Interface**

#### Define Monitoring Criteria when you Define Automation

2	Dino-UDM				- 🗆 ×		
File Edit Actions View Wind	jow Help						
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	🕂 💿 🔚 🗖 🗖 🔍 🖸	ni 😰		
I want to know i							
Job fails!!!!!.		ription	Automation Enabled	Close 📙 🕖			
		log Backup	Yes	Cell Name	Cell Value		
	01/03/2014 08:07:23 01/03/2014 08:07:23	HSM SWAPLOG trap	Yes	Description	Catalog Backup Job	~	
JCL Decks	01/03/2014 06:32:22 05/03/2014 09:21:33	LA test	Yes	Automation Enabled ?	Yes		
	ge groups full	Yes	Automation Type	Timed			
Specify here the			Automation Action	JCL Deck			
			Max allowed RC	0			
group ale			Schedule Time Type	Time			
				Schedule Time	00:00		
				Schedule Day Type	Week Days		
				Schedule Week Days	Sun,Mon,Tue,Wed,Thu,Fri,Sat	-	
l lea thaca fialde	s to indicate when an			Monitor Group Name	Cataoos	-	
Use these helds	s to indicate when an			Set Start Status to	Info	-	
alert shou	uld be raised?.		Set End Status to	Info	-		
				Set Warn Status to	Warning		
				Set Error Status to	Critical		
				Dependencies :	NO		
				Run on System Type	Listed		
				Run on System/Plex.s	2 (S0W1 S0W2)	$\mathbf{v}$	
					I		





## **UDM Monitoring Interface**

### Single Window Shows the Status of your Enterprise



### SHARE Technology - Connections - Results

## **More Information**

If you would like to hear more about UDM and what it can do for you:

Visit it us at booth 223

Go to : WWW.Dino-Software.Com Email : Support@Dino-Software.Com Phone: 1-800-480-Dino(3466)



