









	IBM @server iSeries
PC provides the graphical interface (i.e., view) both input and or is in installed on the PC so the user can have a rich graphical in	utput of management activities. <b>Operations Navigator</b> iterface to interact with the systems.
<b>MC Pervasive</b> is a companion to Operations Navigator which p systems from a web browser, Internet enabled phone or person Monitors and System status, were introduced in V4R5. In V5R message monitors, job monitors and commands.	rovides the user with a mechanism to manage their al data assistance (PDA). The initial functions, System 1, the functionality has been expanded to include
<ul> <li>Firewall - A firewall is optional but is recommended to acce</li> <li>Web Application Server - Used to run the servlet for MC Pe and Websphere.</li> </ul>	ssing the functions via the wireless devices. rvasive functions. Examples would include Domino
Central System connects to other systems (called endpoints) a	and store most management information.
Endpoints are just systems which your PC does not need to be	in direct contact with in order to "manage".
Source System is from which objects, files and information are Source System is the source of the objects, files and information	e sent within Management Central's send tasks. The n being sent.
Model System has all and only desired fixes installed or has a	Il system values set properly for the targets.
Target Systems is where objects, files and information are ser Systems are the destinations of the objects, files and information System Groups.	it within Management Central's send tasks. The Target n being sent. Target Systems are often grouped into



















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The Metrics page for New Monitor or Monitor P can view and change information about the colle each metric. You can also click Threshold 1 or	roperties allows you to select the metrics that you want to monitor. You action interval, the maximum graphing value, and the display time for Threshold 2 to specify information about the thresholds for each metric.
Metrics is the piece of information to collect. Po	ssible values are:
■ CPU Utilization (Average)	Communications IOP Utilization (Average)
CPU Utilization (Interactive Jobs)	Communications IOP Utilization (Maximum)
CPU Utilization (Interactive Feature)	Communications Line Utilization (Average)
CPU Utilization Basic (Average)	Communications Line Utilization (Maximum)
CPU Utilization (Secondary Workloads)	LAN Utilization (Average)
CPU Utilization (Database Capability)	LAN Utilization (Maximum)
Interactive Response Time (Average)	Machine Pool Faults
Interactive Response Time (Maximum)	User Pool Faults (Average)
Transaction Rate (Average)	User Pool Faults (Maximum)
Transaction Rate (Interactive)	Disk Storage (Average)
Batch Logical Database I/O	Disk Storage (Maximum)
Disk Arm Utilization (Average)	Disk IOP Utilization (Average)
Disk Arm Utilization (Maximum)	Disk IOP Utilization (Maximum)
Collection Interval is the time to wait in-between	each collection of data.
Maximum graphing value is the highest value to	be displayed on the vertical axis of the graph.
<u>Display time</u> is how many minutes you want disp	played on the horizontal axis of the graph.



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The Start Monitor dialog allows y monitor.	ou to select the endpoint systems and system groups on which you want to start the
To add a system or group to the and then click Add.	Selected systems and groups list, select it in the Available systems and groups list,
To remove a system or group fro	m the Selected systems and groups list, select it in the list, and then click Remove.
Available systems and groups - A group. Click the plus sign (+) ne	Ist of endpoint systems and system groups from which you can select a system or to any group to see the systems that are included in the group.
Monitor data is collected and stor client when viewing the graph, T	red on the endpoint system. A minimum amount of data is actually sent back to the he more specific, detailed data is only sent to the client when the graphs are open
PC is not required to be connecte still be active.	ed once monitor is started. The graph window can also minimized and the monitor will
The data shown in the graph is c management collection objects.	btained from Collection Services. Collection Services houses the data in This data is used by system monitors, job monitors and other performance tools.













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Reset	c 70-1 percent busy	
Duration		
OS/400 command	1 2	
	OH Cancel Apply	Hintp



Notes	: Setting Threshold (cont.)
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You can use	the following parameters with OS400 commands:
\$DATE	Date
\$MON	Monitor name
\$RDUR	Reset duration
\$RVAL	Reset value
\$INTVL	Collection interval
\$SEQ	Sequence number
\$TIME	Time
\$TDUR	Trigger duration
\$TVAL	Trigger value
\$VAL	Current value
Examples: 1 The fo threshold wa	llowing host command uses the \$TIME and \$TVAL parameters to pass to the program the time that the as triggered and the trigger value:
CALL	LIBUT/PROGUZ PARM(\$TIME \$TIVAL).
z Ine io	lowing command uses the swich, struct, struct, and sval parameters on the Send Wessage command
SNDM	SG MSG(Monitor \$MON exceeded threshold \$TVAL for \$TDUR interval(s) current value is \$VAL.') R(*SYSOPR)
The messag	e displayed to the system operator is:
Monitor MyN	Ionitor exceeded threshold 50 for 1 interval(s); current value is 61.
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You can change the thresholds sev	eral ways.
Properties	
<ul> <li>Active graphical control</li> <li>Monuitors</li> </ul>	
You can change thresholds while a thresholds. The general <u>properties</u> changes or additions to the thresho	monitor is started, eg, you do not need to stop the monitor to change the of the monitor can be accesses view the toolbar or menu items for making any lds and values.
To change the trigger value or the r pointer on the threshold indicator. down to change the trigger value. hold the mouse button down and m graph line to see Details of the data	eset value for a threshold using the <u>active graphical control</u> , place the mouse When the ToolTip indicates Trigger, hold the mouse button down and move up or The changing values are shown in the ToolTip. When the ToolTip indicates Reset, ove up or down to change the reset value. Click any collection point on a Monitor associated with the collection point.
By accessing the <u>menu items</u> , you v	will taken directly to the thresholds page in properties to make any changes.
Status in the toolbar area	when a threshold occurs:
<ul> <li>Upper Left corner icon will chail</li> </ul>	nge.
Line in the graph will change to	o red.
Metric graph title will change to	pred with icon indicator
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The Actions page when a threshold	for Monitor Properties allows you to specify the actions to occur when a threshold is triggered and is reset which apply to all metrics.
Log event - Adds also includes the and the monitor the	an entry to the Event Log on the central system indicating that the threshold was triggered. The entry date and time the event occurred, the endpoint system being monitored, the metric being collected, at loaged the event
Open Event Log Open monitor - D Sound alarm - So	Displays the Event Log, which is a list of threshold trigger and reset events that have occurred. splays a graphical view of the metrics as they are being collected. unds an alarm on the PC.
Threshold comma as a job or a threa	nds will be run under the monitor's owner's user profile. The threshold command is submitted either d from the Management Central server.
When a threshold	gets triggered/reset, your PC client does not need to be up and running to run the OS400 command.
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Reset	5/4/2001	7:09:30 PM	S' Monkor:	CPU Average	BLACAS.
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Reset	5/4/2001	7:05:30 PM	Tolume		
Ӿ Trigger	5/4/2001	7:03:01 PM	24		
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Notes: Event Properties
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The Trigger/Reset page for Event Properties allows you to view additional information about the event. This information includes the value, the duration, the OS400 command and the sequence number of the event.
<u>Trigger/Reset value</u> - The value specified in the monitor properties. <u>Actual value</u> - The actual value that exceeded the trigger value and caused the trigger event. <u>Duration</u> - The number of collection intervals specified for the duration in the monitor properties. <u>OS400 command</u> - The command that was run on the endpoint system when the event occurred.
The General page for Event Properties allows you to view general information about the event. The general information includes the type of event (trigger or reset), the date and time the event occurred, the endpoint system that the event occurred on, the metric that was being collected, and the name of the monitor that logged the event. For more information, select the following:      Event type     Date     Time     System     Metric     Monitor
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@ Use default collection interval		(per category)
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e Database Files	low	IBM @server iSeries
Create Database Files fro	n 'Q124100004' - System1 ?	×I
Member to create:	Q124100004	Where to create
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Data to include:		
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Το: 5/	/2001 9:29:38 PM	
Sampling interval	nds	Interval of data
• 15 💌 mir	tes	
	OK Cancel Help	1

Use the Create Database Files dialog to generate database files from a collection. You with the Performance Tools for AS/400 licensed program and other applications to pro You can create database files and file members from the same collection object multipl of a database file member that already exists, the new data will overwrite the old data. <u>Member to create</u> - The name of the database file member to create. If you specify the member that already exists, the member will be removed from all the database files as object. The new data will then be written to the member. <u>Path</u> - The path where the database files are stored in the file system. Click Browse to database files. <u>Data to include</u> - Categories of data for which database files will be generated. All cat If you deselect any category, data will still be collected for that category and stored in the to be stored in a database file. <u>Range of data</u> - Date and time range of the data to include in the database files. Sampling interval - The time interval at which data is extracted from the collection objection objectio	
<ul> <li>Member to create - The name of the database file member to create. If you specify the member that already exists, the member will be removed from all the database files as object. The new data will then be written to the member.</li> <li>Path - The path where the database files are stored in the file system. Click Browse to database files.</li> <li>Data to include - Categories of data for which database files will be generated. All cat If you deselect any category, data will still be collected for that category and stored in the stored in a database file.</li> <li>Range of data - Date and time range of the data to include in the database files.</li> <li>Sampling interval - The time interval at which data is extracted from the collection objedatabase files.</li> </ul>	can use these database files uce performance reports. times. If you specify the name
Path       - The path where the database files are stored in the file system. Click Browse to database files.         Data to include       - Categories of data for which database files will be generated. All cat If you deselect any category, data will still be collected for that category and stored in the not be stored in a database file.         Range of data       - Date and time range of the data to include in the database files.         Sampling interval       - The time interval at which data is extracted from the collection objedatabase files.	name of a database file ociated with this collection
Data to include - Categories of data for which database files will be generated. All cat If you deselect any category, data will still be collected for that category and stored in to not be stored in a database file. Range of data - Date and time range of the data to include in the database files. Sampling interval - The time interval at which data is extracted from the collection obje database files.	select a folder to store the
<u>Range of data</u> - Date and time range of the data to include in the database files. Sampling interval - The time interval at which data is extracted from the collection objed database files.	ories are selected by default. e collection object, but it will
Sampling interval - The time interval at which data is extracted from the collection objed atabase files.	
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isplays a graphical history of performance data.				8950 B	Orge Un	09#0	



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The Graph History window shows a graphical view of the metri- time for a particular monitor. You can contrast the Graph Histor	cs that have been collected for an extended period of y window with the Monitor window.
The Monitor window shows real-time data for the last hour and window displays the metrics that you are monitoring over a long or a year. You can view performance data in two ways; one, as	automatically updates the data. The Graph History ger period of time, for example, a day, a week, a month, a real-time data, and two, as historical data.
You can display only one graph at a time. However, you can di comparisons, if needed. Initially, no graph is created until you c	splay multiple Graph History windows to make lick Refresh.
The Graph History window contains four panes.	
Options Graphs Details Properties	

Graph History			
Report dates:	Custom	From:	12/10/00 💌
Metric:	CPU Utilization (Average)	•	12:01:00 AM
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Maximum graphing value:	100 percent busy		11:25:00 PM
			<u>R</u> efresh

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The Options pane of the G made. You can change the view for the graph.	Fraph History window allows you to change or confirm the selections that you previously e date of the report, the metric that you want to display, and the intervals that you want to
Click Refresh to redraw th	e graph based on the information specified in the date, time, and metric fields.
Report dates - The to an	d from time to display data for
Metric - The name of the	metric that is to be graphed
Graph interval - The time	period that elapses after a new graph point appears
Maximum graphing value	- The highest value to appear on the vertical axis of the graph for this metric

<mark>i Graph History</mark> ile ⊻iew ∐elp	
Report dates: Custom From:	12/10/00
Metric: CPU Utilization (Average)	12:01:00 AM
Graph interval: 5 minutes To:	12/10/00
Maximum graphing value: 100 - percent busy	11:25:00 PM 🐳
	Befresh
PU Utilization (Average) : System1	
Click refresh to create the graph based on the information	above
System Graph Line Status	

A request will be made to each system chosen to retrieve data for the specified time range. If detailed data is available for part of the specified time range it will be returned. If detailed data is not available but the raw data is available, and the period is within the graph retention period, detailed data will be dynamically converted from the raw data and returned. If no detailed data is available for a period in the time range, summary data will returned, if it is available. To make sure detailed data and/or summary data is previously created, select the check boxes on the Collection Services Property Page to create graph data and summary data when Collection Services cycles.		IBM @server iSeries
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