<u>Insight 2.7</u>

Overview of Process:

This software will capture performance and dialog step statistics generated by your production SAP system. The captured statistics are written to the hard drive of the Windows PC dedicated for the collection process. When the collection process is complete, the statistics are reduced and compressed before being sent to IBM for analysis. A report will be sent to you detailing how your production system is utilized. The provided collection tool is designed to have a minimal impact on your production environment (see notes below).

It is recommended that you collect at least four days of statistics during a peak period to improve the quality and value of the report.

Usage Requirements:

A dedicated PC:

- IBM compatible with at least a 233 MHz Pentium processor and 32 MB of RAM.
- Installation of Windows 95, 98, Me, 2000, or NT 4.0 operating system.
- Disk space requirements: multiply the total expected number of dialog steps the Insight Collector will capture by 0.00025. Example: The Insight Collector is expected to run for four days capturing one million dialog steps per day. 4,000,000 x 0.00025 = 1,000MB = 1GB of disk space.
- For Windows 2000 and NT 4.0: Set the total virtual memory (physical memory + paging file) to a minimum of 128MB.
- PC must be on LAN with direct TCP/IP access to all production servers (except for a dedicated database server).
- The TCP/IP address of all server short host names (as seen in SM51) must be resolved by either "hosts" file entries, or DNS with a consistent, fully qualified domain. In an SP environment, short host names may require an alias in the PC's hosts file to resolve the switch host names over the client token-ring or ethernet network. Note: do not specify a domain in the SAP logon parameters.

Example alias entry in the PC's hosts file:				
#IP address	ethernet	switch		
#	hostname	hostname		
9.93.100.21	appsvlen	appsv1cs		

- The PC and all server clocks must be synchronized to the minute.
- The PC must be powered on during the entire data collection process.
- Disable the PC's power management (suspend) during the collection process.

SAP R/3 system:

- *Insight* supports SAP releases 3.0D thru 4.6C.
- The SAP Operating System collector (saposcol) must be setup and running on all application servers in the target system.
- If the database is on a dedicated server (no SAP instance), saposcol and rfcoscol must be installed and working. Also, an RFC destination (TCP/IP connection in SM59) must be configured to access the remote saposcol from the Central Instance. This RFC destination is entered when prompted with the Dedicated Database dialog box.
- SAP statistics recording must be enabled (profile parameter: stat/level = 1).
- A SAP user ID of type CPIC must be created and assigned a profile (e.g. Z:INSIGHT) with the following authorizations:

S_CPIC(S_CPIC_ALL), S_DATASET(S_DATASET_AL), S_RFC(S_RFC_ALL). S_ADMI_FCD(S_SACHBEARB) S_C_FUNCT(S_C_FUNCT_AL)

* New Requirement * * New Requirement *

Installation Instructions:

- 1. On the designated PC, copy the installation executable "SetupInsight.exe" to a temporary directory.
- 2. From Windows Explorer, double click on SetupInsight.exe to begin installation. Follow the installation process and reboot if necessary. *Insight* is designed to be uninstalled later.
- 3. Ping all SAP application server hosts from PC.
 - a. Using SAPGUI, logon to SAP and execute transaction "SM51".
 - b. The middle column, labeled "Host name", lists all of the short host names that must be directly accessible via TCP/IP from the PC.
 - c. While on the "SM51" screen, note the third column labeled "Type", and identify the host that is running "enque", this will be the name of the server that has the message server running (the host name of the message server will be needed for initial logon).
 - d. **If using DNS**, ping each host with name and domain from the PC command prompt (ex: C:> ping appsrv01.yourcompany.com).
 - e. If not using DNS, the Windows "hosts" file must be maintained. For Windows 95 & 98, find the "hosts" file in the Windows directory of the PC. For Windows 2000 or NT 4.0, the file is located in the \winnt\system32\drivers\etc directory. If no "hosts" file is found, there is usually a sample "hosts.sam" file, which can be copied to "hosts" and then edited. Edit this file and verify that all the server names listed in SM51 and their corresponding TCP/IP addresses are in this file. From the PC command prompt, ping each short host name (ex: C:\> ping appsrv01).
- 4. Verify that the SAP operating system collector (saposcol) is running on each server (application and database). This can be done in the following manner.
 - a. Logon to SAP and execute transaction "SM51".
 - b. Highlight an application server and select "OS collector". For each application server, verify that some non-zero statistics are returned.
 - c. For a dedicated database server, execute transaction OS07. Select the appropriate SAPOSCOL destination. Verify that some non-zero statistics are returned.

Insight Collector Usage Instructions:

- 1. From the Windows Start menu, select Programs -> Insight -> Collector.
- 2. Press the "Start" button.

IBM Insight Performance Statistics Collector for SAP R/3	
Messages	
Chart Ewit	

C	ustomer Informatio	on X
	Company Information	n
	Company Name	기 Industry Aerospace 🔽
	Address 1	?
	Address 2	
	City, State Zip	?
	Country	?
	- Contact Information -	
	Contact Name	?
	Telephone	e-mail ?
		< <u>B</u> ack <u>N</u> ext > Cancel

3. Complete your company's information. (question mark indicates required field)

4. Complete your IBM Representative's information.

I	M Information		×
	- IBM Sales Rep/Busi	iness Partner	
	Rep/Partner Name Address 1 Address 2 City, State Zip Country	? ? ?	
	Telephone	e-mail	
	Reason for Analysis	?	
	Special Sizing Considerations		
		< <u>B</u> ack Finish Cancel	

5. Logon to R/3.

Lo	bgon to R/3
	Message Server
	Short Host Name 🤇
	Domain
	SAP Router String
	System
	System Number 00 Client 000
	User
	Name ?
	Password *****
	Language EN
	Logon Cancel

- a. Enter the message server short hostname (ex: appsrv01). Do not enter an IP address or a domain suffix.
- b. If using DNS, enter your company's domain (ex: yourcompany.com).
- c. If required, enter a SAP Router string.
- d. Enter the message server system number (ex: 00).
- e. Enter the client number where the CPIC user has been created.
- f. Enter the CPIC user name, password, and language (ex: SAPCPIC, ADMIN, EN).
- g. Press the "Logon" button.

After the SAP logon is complete, you may be prompted with the following message box:

collector	×
⚠	Is the database on a dedicated server (no SAP instance)?
	<u>Y</u> es <u>N</u> o

If the database is dedicated, meaning no R/3 instance running on the same host as the database, select "Yes". If the database server is not dedicated, possibly an HA or clustered configuration, press the "No" button.

D	edicated Database
	SAPOSCOL Destination
	OK Cancel

If you selected "Yes", enter the SAPOSCOL destination defined in SM59 and press the "OK" button. The *Insight* Collector will attempt to connect to the remote destination.

Database Host	×
The Insight collector cannot determine the database host name	
Please identify the database host.	
appsvr1 appsvr2 appsvr3 appsvr4 appsvr5 appsvr6 appsvr7 appsvr8	
OK Cancel	

If you selected "No", please identify the host name of the database server.

6. Specify where you want the data files written.

Data Directory	
Please specify a directory where data files are to be written	
C:\Program Files\IBM\Insight\DATA\	
OK Cancel	

By default your prompted with the *Insight* installation directory followed by the subdirectory \DATA\. If acceptable, press the "OK" button, otherwise specify a different directory (can be on a network drive). The *Insight* Collector will then create a session directory. The session directory is a subdirectory of the specified data directory with the following date/time naming convention: MMDDYYYYHHMM.<SAPSID>

A unique session directory is created for each run of the Collector.

7. The Collector is now running and will capture performance statistics every minute. Status messages will scroll in the Collector's "Messages" window.

🔊 IBM Insigh	ht Performan	ce Statistics Collector for SAP R/3	
Messages			
8:14 PM Tua 8:14 PM Tua	e, Jul 31, 2001 e, Jul 31, 2001	 : connected to message server. : created directory C:\Program Files\IBM\Insight\DATA\07312014.DEV\ : ciserver_DEV_00 : connection opened. : a1server_DEV_01 : connection opened. : a2server_DEV_01 : capturing instance profile parameters. : ciserver_DEV_01 : capturing instance profile parameters. : a1server_DEV_01 : capturing instance profile parameters. : a1server_DEV_00 : capturing instance profile parameters. : a2server_DEV_00 : capturing instance profile parameters. : a2server_DEV_00 : capturing instance profile parameters. : a2server_DEV_00 : capturing work process information. : ciserver_DEV_01 : capturing work process information. : a1server_DEV_01 : capturing work process information. 	
•			
		Exit	

- 8. After four days of data collection, stop the *Insight* Collector by pressing the "Stop" button.
- 9. At this point you will be prompted to launch the *Insight* Reducer to begin data reduction. Choose "Yes" if you want to begin immediately, or "No" if you want to run the reduction processing at a later time or on a different PC.

Insight Reducer Usage Instructions:

- 1. From the Windows Start menu, select Programs -> Insight -> Reducer.
- 2. Press the "Start" button.

IBM Insight Performance Statistics Reducer for SAP R/3	
Reduction Progress	
File Name:	
0 %	
Directory:	
0 %	
Compression Progress	
0 %	_
(Start Exit	

3. Specify the reduction directory. (the default is the last session directory)

Reduction Directory	
Please specify a directory where there are data files to be reduced.	
C:\Program Files\IBM\Insight\DATA\07312014.DEV\	
OK Cancel	

4. Verify your company and IBM information.

5. Complete the SAP installation information.

S	AP Information				×			
	-R/3							
	SAP System ID :	DEV	Date Installed	6 / 7 /1992 💌				
	SAP Release :	46B	Total SAP User IDs	þ				
	Databasa							
	- Database							
	Database :	DB6	Database Release					
			Database Size (KB)	0				
	-Network							
	(an EDDI Ethanish Talan Bina (ATM ata) — Canas Mahurah							
		inier, rokenning, Arm, etc.)	JEIVEI NELWOIK	I				
< <u>B</u> ack <u>N</u> ext > Cancel								

6. Complete the host machine information.

Machine Information							
host/destination	vendor	model	# CPUs	CPU (MHz)	memory (KB)	disk (GB)	
alserver	IBM	xSeries	1	500	770048	18	
ciserver	твм	xSeries	1	700	1028096	18	
a2server	твм	xSeries	1	500	770048	18	
SAPOSCOL DBSERVER	твм	xSeries	2	700	1028096	64	
			< Back	Finish	Cancel		

Press the "Finish" button.

7. The reduction and compression processing will now run. Processing can be cancelled at anytime by pressing the "Stop" button. Processing can be restarted by pressing the "Start" button.

➡IBM Insight Performance Statistics Reducer for SAP R/3						
Reduction Progress						
File Name: ciserver_DEV_01.rec						
100 %						
Directory: C:\Program Files\IBM\Insight\DATA\07312014.DEV\						
100 %						
Compression Progress						
100 %						
8:21 PM Tue, Jul 31, 2001 : imploding - C:\Program Files\IBM\Insight\DATA\07312014.DEV\system.red 8:21 PM Tue, Jul 31, 2001 : imploding - C:\Program Files\IBM\Insight\DATA\07312014.DEV\timezone.ctl 8:21 PM Tue, Jul 31, 2001 : file compression complete. 8:21 PM Tue, Jul 31, 2001 : processing complete 8:21 PM Tue, Jul 31, 2001 : Please e-mail the ZIP file: C:\Program Files\IBM\Insight\DATA\07312014.DEV\{						
Exit						

8. When the reduction an compression processing is complete, you will be prompted with a message box. Press the "OK" button.



 Next you will be given the option to send an email with the *Insight* data attached directly to <u>ibmerp@us.ibm.com</u> for analysis. Installation of email software on the PC is **not required** to send the data. (ex: Microsoft Outlook, Lotus Notes, etc)

reducer	×				
	This program can email the processed data directly to ibmerp@us.ibm.com for analysis.				
	Do you want to send the data now?				
	<u>Y</u> es <u>N</u> o				

If you press the "Yes" button, you will be presented with the following dialog:

Outgoing Mail (SMTP)	×				
SMTP Server (please specify server host name or IP address)					
mail.server.yourcompany.com					
From: (please specify an email address)					
yourname@yourcompany.com					
OK Cancel					

Enter your outgoing mail server's IP address or hostname. Enter your company contact's email address. Press the "OK" button to send the email. A courtesy copy will be sent to the contact's email address.

If you don't want to send the email directly, press the "No" button, and you will be presented with the following message box:



The actual path of the ZIP file will depend upon your installation, data, and session directories.

In your email program, create a new mail with the following subject line:

Subject: Insight 2.7 data for <company name>

Complete the following mail body:

Company	:		
SAP SID	:		
Start	:	<date></date>	<time></time>
End	:	<date></date>	<time></time>
Contact	:		
Telephone	:		
email	:		
Rep/Partner	:		
Telephone	:		
email	:		
Reason	:		
Considerations	:		

Attach the ZIP file and send it to <u>ibmerp@us.ibm.com</u> for analysis.

2.7 Release Notes:

- 1. Insight now captures OS memory statistics and R/3 buffer statistics.
- 2. Insight now provides transaction detail by module.
- 3. Insight userid now requires the following authorizations:
 - S_ADMI_FCD (S_SACHBEARB) S_C_FUNCT (S_C_FUNCT_AL)

2.6 Release Notes:

- 1. *Insight* now supports R/3 releases 3.0D thru 4.6C.
- 2. The *Insight* processing is accomplished using two separate executables, collector26.exe and the reducer26.exe.
- 3. The Survey.doc information is now entered in dialogs presented by the executables.
- 4. The user is allowed to specify the data drive and directory.
- 5. The *Insight* Reducer accuracy and performance have been greatly improved.
- 6. The *Insight* Reducer memory use is now more dynamic requiring less memory.
- 7. The *Insight* Reducer can be restarted in the event of a memory or disk exception.
- 8. The *Insight* Reducer now compresses the reduced data. The user is not required to run PKZip from the command line or batch file.
- 9. The *Insight* Reducer can send the data directly for analysis. The user is not required to manually compose and send an email.