

Adding to the SUMLOG

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- > **Do you have programs that write to the SUMLOG?**
- > **Have you ever wanted a program to write to the SUMLOG?**
- > **Is LOGOTHERS insufficient? Or not desirable?**

Third-party Vendor Records

> Major type 21

- Free format record
- LOGANALYZER TPV option, e.g., LOG TPV UC .
- Locum is using Minor type = 1

> Major type 19, Minor type 8

- Diagnostic records
- LOGANALYZER DIAG (TPV) option, e.g., LOG DIAG (TPV) UC .

Log_Diagnostics in MCPSUPPORT

```
PROCEDURE Log_Diagnostics (minor_type, subtype, msg,  
                           rec_size, length, data_format);  
  VALUE  minor_type, subtype, rec_size, length, data_format;  
  INTEGER minor_type, subtype, rec_size, length, data_format;  
  ARRAY  msg [0];  
  LIBRARY mcpsupport;
```

> Minor type = 8

> Subtype: [11:12] max value 4095

> Msg – leave words 0 – 4 empty, words 5+ formatted as indicated

> Rec_size – complete size of record in WORDS (zero filled)

> Length – FORMATTED: number of ‘lines’

> Data format: 0 - BINARY; 1 - FORMATTED TEXT

Noteworthy Limitations

- > **Maximum record length is 1023 characters**
- > **Maximum line length is 91 characters**

Best Practices

- > Use ***INSTALLATION/OPTIONS** to manage **SUBTYPE** values
- > The first 13 characters should be “application name” (subtype)
- > Need to split a line? Subsequent lines start with 15 blanks
- > Identify a “level” of record, e.g., **ERROR, WARN, INFO, DEBUG**
- > Log line number for **ERRORS** and **DEBUG**
- > Look at the **JAVA** records for examples, **LOG DIAG(JAVA) UC .**
- > “**FIND**” applications with **LOG** command
 - **LOG P MIX 51670 DIAG (TPV) FIND “TAWS” UC .**
 - **LOG 1515 DIAG (TPV) FIND “SSH_SHELL” UC MEYERDP**
 - **LOG 0807 TO 0808 DIAG (TPV) UC .**

Examples

```
08:00:10.5806 DIAG 19952 JAVA_BOTEOT --71003560000: JVM initiated: Java server number: 9, Endpoint: 60487, Mix number: 19952, PID: 1960, Start time: Tuesday, September 5, 2017 08:00:09, JVM Version: J1S/01, JVM Arguments: -Ucd:C:\MCP\MCPShare\CHASQUI\DAI\SYDIFF -cp ./BIN/Dai\sydiFF.jar;C:\PROGRA-1\Uni sys\MCP\JAVAIN-1\mcpapi.jar;C:\PROGRA-1\Uni sys\MCP\JAVAIN-1\xtateebcdi.c.jar;. org.outerj.dai.sydiFF.Main /-/SYSPACK/USERCODE/SYSJOB000/SUMLOGMONITOR/CHECKLISTRESULTS/PREVIOUS /-/SYSPACK/USERCODE/SYSJOB000/SUMLOGMONITOR/CHECKLISTRESULTS/CURRENT --type=tag --q --file-/SYSPACK/USERCODE/SYSJOB000/SUMLOGMONITOR/CHECKLISTRESULTS/STDIFF.htm

07:45:08.7066 DIAG 51670 TAWSSUPPORT --20391500: [TRACE] >> get Menu <<
07:45:08.8628 DIAG 51670 TAWSSUPPORT --20425000: [DEBUG] Menu len=205 Value -Enter passcode or select one of the following options:-- 1. Duo Push to Cell # (XXX-XXX-3642)- 2. Phone call to Cell # (XXX-XXX-3642)- 3. Phone call to Work # (XXX-XXX-4941)--Duo passcode or option [1-3]:

07:45:08.8628 DIAG 51670 TAWSSUPPORT --20441500: [TRACE] << get Menu >>

08:07:13.8011 DIAG 19967 JN1WATCHDOG [INFO] SYSSURE ENV4 36.1; Compiler: ALGOL-058.1A.8
08:07:13.8011 DIAG 19967 JN1WATCHDOG [INFO] maxWait=60, maxConnections=10
08:07:13.8490 DIAG 19334 JN1WATCHDOG [INFO] <19334> StartTimer: request-20170905StartJVM (timerEnd=12652.330 min)
08:07:14.5030 DIAG 19334 JN1WATCHDOG [INFO] <19334> StopTimer: request-20170905StartJVM
08:07:26.8149 DIAG 51653 GATEWAYMCS [INFO] USING LSN #51: localhost/58426 AS VTELNET/51.

15:16:18.2372 DIAG 21289 SSH_SHELL [INFO] Verification expires set to 7 days
15:16:18.2376 DIAG 21289 SSH_SHELL [INFO] MCS = CANDE, STATON=91, SOURCESTATON=CCF/MEYERDP/10_155_8_125/1/CANDE/2.
15:16:18.2422 DIAG 21289 SSH_SHELL [INFO] Using internal UW_GET_HOST_FQDN
15:16:18.2472 DIAG 21289 SSH_SHELL [INFO] Using 'MCPGD' for 'mcpgd.s.uw.edu' to locate the keypair
15:16:18.2558 DIAG 21289 SSH_SHELL SSH initiated: Job number: 20970, Mix number: 21289, Usercode: MEYERDP, SSH Request: ssh -v -t SSH_MEYERDPMCPGDOMEYERDP_meyerdp@mcpgd.s.uw.edu ls
15:16:18.5898 DIAG 21289 SSH_SHELL SSH terminated: Job number: 20970, Mix number: 21289, Usercode: MEYERDP, Taskvalue: 0
```