IDKYCDT Session 4051 2018 Unite Conference Monitoring COMS Applications

Curt Timmerman
First National Bank Alaska
Anchorage, Alaska
ctimmerman@FNBAlaska.com

COMS Program Agent Facility

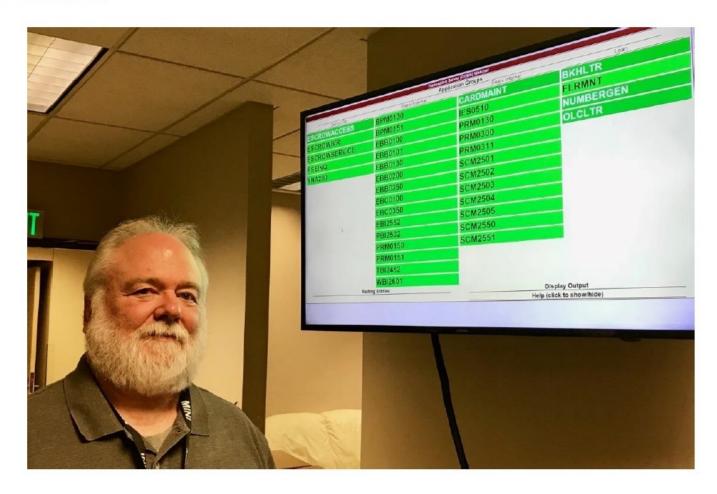
- Library interface to configuration and operational COMS commands
- Unite 2017, Paul Kimpel did a IDKYCDT talk on PAF Provided an introduction to the text based PAF interface Link: http://www.digm.com/UNITE/2017/

Paul also helped me get the PAF interface working

Server Application

Runs under COMS
 Virtual Interface through the Atlas web server

The dashboard on display



Dashboard

- In the operations area just outside the computer room.
- Visible to all.
- Operators are less tied to ODT/REMOTESPO.

Transaction Server (COMS) Watcher				
Application Groups				
Escrow DB	Fiserv External	Fiserv Internal	Loan	
ESCROWACCESS	BPM0130	CARDMAINT	BKHLTR	
ESCROWIVR	BPM0151	IES0510	FLRMNT	
ESCROWSERVICE	EBB0100	PRM0130	NUMBERGEN	
PSEINQ	EBB0101	PRM0300	OLCLTR	
YNA200	EBB0130	PRM0311		
	EBB0200	SCM2501		
	EBB0350	SCM2502		
	EBC0100	SCM2503		
	EBC0350	SCM2504		
	EBI2552	SCM2505		
	PBI2502	SCM2550		
	PRM0150	SCM2551		
	PRM0151			
	TBI2462			
	WBI2601			
			Display Output	
		Help	(click to show/hide)	

Home Page

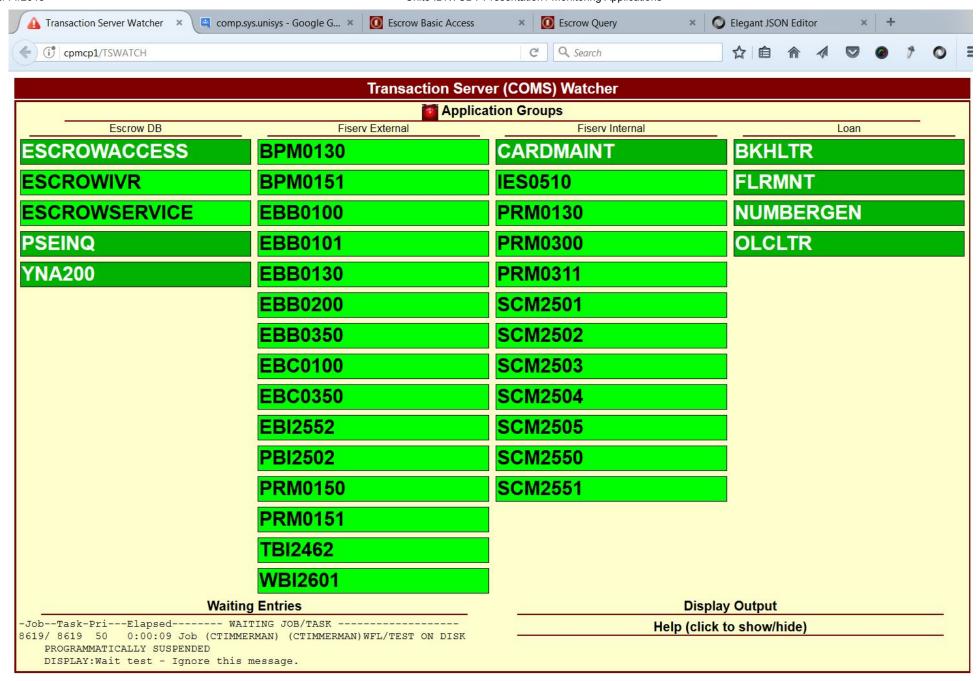
- Only page returned by TSWATCH
- Immediately requests status update on all programs specified in the configuration file
- Polls for program status updates every 5 seconds

Transaction Server (COMS) Watcher				
Application Groups				
Escrow DB	Escrow DB Fiserv External Fiserv Internal Loan			
ESCROWACCESS	BPM0130	CARDMAINT	BKHLTR	
ESCROWIVR	BPM0151	IES0510	FLRMNT	
ESCROWSERVICE	EBB0100	PRM0130	NUMBERGEN	
PSEINQ	EBB0101	PRM0300	OLCLTR	
YNA200	EBB0130	PRM0311		
	EBB0200	SCM2501		
	EBB0350	SCM2502		
	EBC0100	SCM2503		
	EBC0350	SCM2504		
	EBI2552	SCM2505		
	PBI2502	SCM2550		
	PRM0150	SCM2551		
	PRM0151			
	TBI2462			
	WBI2601			
Waiting	Entries	Displa	y Output	
	Help (click to show/hide)		to show/hide)	
		Program Buttons An icon will appear briefly in front of the "Program List" title indicating the program status has been checked.		
		OK - Application is ENABLED and Running. Running		
		OK - Not Running Application is ENABLED but not currently running.		
		Warning Possible causes:		
		 Application is DISABLED by OPS, this may be OK. Once ENABLED the application should run normally. There are 1 or more jobs/tasks waiting. 		
		Action should be taken to fix the problem. Possible causes:		
		 Application was DISABLED by COMS indicating a TASK failure. The WINDOW associated with the application is DISABLED. This should never occur. One of the running copies has taken over 60 seconds processing a transaction. The application could be stuck in a loop. 		

0/1//2010	ome is the services in the manner of the services of the servi
	Status not updated Application status has not been checked. Click to update the status.
	Action Buttons
	En Enable this program allowing it to run normally. If the program is already ENABLED, this has no effect.
	DISABLE this program causing it to shut down until ENABLED.
	UPDATE this program causing it to restart. This is normally used when a new version of the application is installed.

Help Dropdown

- Program status
- 'OK Running'
- 'OK Not Running'
 No copies are in the mix
- 'Warning(s)'
 Application disabled by operator or PAF
 Waiting jobs or tasks
- 'Alert(s)'
 Application disabled by COMS task failure
 Window associated with application is disabled
 One of the application copies has taken over 60 seconds to respond (program loop?)
- 'Status Not Updated' Configuration error



Other Indicators

- Favicon Changes when warnings/alerts are presentStatus update indicator flashes on every poll

Transaction Server (COMS) Watcher				
Application Groups				
Escrow DB	Fiserv External	Fiserv Internal	Loan	
ESCROWACCESS	BPM0130	CARDMAINT	BKHLTR	
ESCROWIVR	BPM0151	IES0510	FLRMNT	
ESCROWSERVICE	EBB0100	PRM0130	NUMBERGEN	
PSEINQ	EBB0101	PRM0300	OLCLTR	
YNA200	EBB0130	PRM0311		
	EBB0200	SCM2501		
	EBB0350	SCM2502		
	EBC0100	SCM2503		
	EBC0350	SCM2504		
	EBI2552	SCM2505		
	PBI2502	SCM2550		
	PRM0150	SCM2551		
	PRM0151			
	TBI2462			
	WBI2601			
Waitin	g Entries	Display Output		
		Program status for EBB0100 Codefile: *ITI/EBB/0100 Queue depth: 0, Response time: 0.00149759880 Input Queue memory in use for this Program: This program is currently ENABLED. Associated window is EBB0100 (ENABLED). The following copies are active: Copy 1: Mix 2428: idle Message from station for dialog , Task Queue Depth = 0 Copy 2: Mix 2429: idle Message from station for dialog , Task Queue Depth = 0 Copy 3: Mix 2430: idle Message from station for dialog , Task Queue Depth = 0 Task Queue Depth = 0 Copy 3: Mix 2430: idle Message from station for dialog , Task Queue Depth = 0		
		Help (click:	to show/hide)	

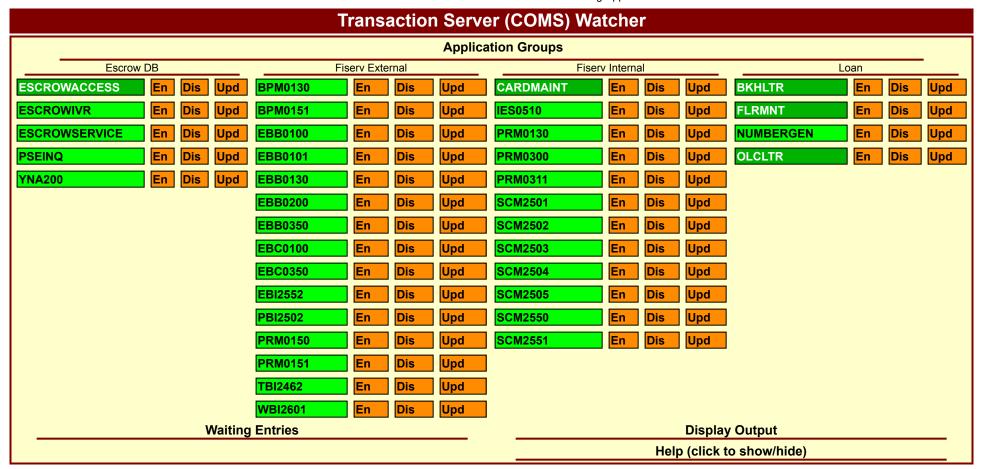
Requesting a program status

- Click any program control for a current statusSimilar to '?STATUS PROGRAM PROGID'
- Useful for diagnosing warnings and alerts

Transaction Server (COMS) Watcher				
Application Groups				
Escrow DB	Fiserv External	Fiserv Internal	Loan	
ESCROWACCESS	BPM0130	CARDMAINT	BKHLTR	
ESCROWIVR	BPM0151	IES0510	FLRMNT	
ESCROWSERVICE	EBB0100	PRM0130	NUMBERGEN	
PSEINQ	EBB0101	PRM0300	OLCLTR	
YNA200	EBB0130	PRM0311		
	EBB0200	SCM2501		
	EBB0350	SCM2502		
	EBC0100	SCM2503		
	EBC0350	SCM2504		
	EBI2552	SCM2505		
	PBI2502	SCM2550		
	PRM0150	SCM2551		
	PRM0151			
	TBI2462			
	WBI2601			
Waiting Entries			Display Output	
-JobTask-PriElapsed WAITING JOB/TASK		Hel	lp (click to show/hide)	

Waiting Entries

- Added late
- Usually not a problem but requires operator action
- Tried to duplicate REMOTESPO display



Control Page

- Set in configuration file
- Additional controls using PAF interface

Enable

Disable

Update

Thinking Out Loud

- · No requests for enhancements yet.
- Efficiency

Monitor software should have a minimal impact on production applications.

Adding "waiting entries" increased response time by about a factor of 10.

- Integrate with System Assistant...
 - Whichever is most appropriate.
 - SA can display a message and wait for AX response.
- Identify more types of application problems. We may have all of the low hanging fruit. Stopped programs? No, does this happen anymore?
- ODT commands Maybe AX or OK
- Simple history (log) Session only, did anything happened while I was at lunch?
- Inquire on entity configuration for problem resolution.

TSWATCH Configuration

- Atlas (Transaction Server) virtual directory Routes requests to TSWATCH COMS program
- Ajax based
 After presenting the initial WEB page, passively waits for requests from browser
 Interpretation and presentation controlled by browser
- JQUERY javascript environment handles: Server interface Web page updates
- Algol server application, required for PAF_REQUEST

```
Request:
  "action": "program_status",
  "program_list": [
      "ts id": "EBB0100"
Reply:
  "program_list": [
      "ts_id": "EBB0100",
      "code file": "*ITI/EBB/0100",
      "enabled": "1",
      "queue_depth": "0",
      "window_name": "EBB0100",
      "window status": "1",
      "active_copies": "3",
      "code_list": [
          "copy_number": "1",
          "mix number": "3902",
          "dialog": "0",
          "task_status": "2",
          "elapsed_time": "0",
          "queue depth": "0"
        },
          "copy_number": "2",
          "mix number": "3904",
          "dialog": "0",
          "task_status": "2",
          "elapsed_time": "0",
          "queue depth": "0"
```

Pause Resume Next Previous

