

Lesson 5 Objectives & Highlights



- Illustrate an App Object generating its own telemetry packet
- Add playback functionality to MsgLog
- Illustrate the object-based application modularity
 - Only app_cfg.h, msglog.h and msglog.c need to be modified



Lesson 5 Design Highlights



app_cfg.h



Major, Minor Version
Initialization Table Symbols
Command Function Codes
Event Message Object Base IDs
MsgLog Table Configurations

osk_c_demo.h osk c demo.c

osk_c_demo

 $OSK_C_DEMO_Class\ OskCDemo$

OSK_C_DEMO_AppMain()
OSK_C_DEMO_NoOpCmd()
OSK_C_DEMO_ResetCmd()

msglog.h msglog.c

MsgLog

MSGLOG Class MsgLog

MsgLog_Constructor()
MsgLog_ResetStatus()
MsgLog_RunChildFuncCmd()
MsgLog_StartLogCmd()
MsgLog_StopLogCmd()
MsgLog_StartPlaybkCmd()
MsgLog_StopPlaybkCmd()

msglogtbl.h msglogtbl.c

MsgLogTbl

MSGLOGTBL_Class MsgLogTbl

MSGLOGTBL_Constructor()
MSGLOGTBL_ResetStatus()
MSGLOGTBL_DumpCmd()

MSGLOGTBL LoadCmd()



Lesson 5 DEMO_OPS_SCREEN Verification



OSK_C_DEMO DEMO_OPS_SCREEN			
OSK C Demo			
Commands			
No Op	Reset	Load Tbl	Dump Tbl
Start Log	Stop Log	Start PlayBk	Stop PlayBk
Housekeeping Status			
Cmd Cnt	Cmd Err		
Child Cmd Cnt	Child Cmd Err		
Log Ena	Log Count	Play	ybk Ena
Filename			Display
Message Log File Play	/back		
Pri Header			
Scripts	,		
Functional Tes	t Ops Ex	kample	
Eliabt Event Messaca	-		
Flight Event Message	S		

Issue Start/Stop Playback commands

 Observe Playback Ena status change, event messages, and the log playback status

OSK C App Tutor – Lesson 5