Ver.	Date	ray	Who	Revision History
1.0.0			Steven Lin	Creat
1.0.1	2018/7/23		Kevin Wei	修正SPEC
1.0.2	2018/12/5		Kevin Wei	1.增加ID_31、ID_131 ActiveType的種類。Override、CSTRename、MTLHome、MoveToMTL、SystemOut、SystemIn 2.修改ID_132 CmpStatus的種類。 3.更新ID_33、ID_133 ControlType的對應編碼。修改前:Block =4;HID =5;。修改後:Block =1;HID = 2; 4.修改ID_134 的上報資料。取消HasCST、LeftGuideLockStatus、RightGuideLockStatus的欄位。 5.修改ID_136 的上報資料。取消HasCST的欄位。 6.修改ID_143 的回復資料。增加上報Earthquake_Pause_Status、Safety_Pause_Status、HasCST、Cmd_ID、CST_ID的欄位。 7.修改ID_144 的上報資料。增加上報Earthquake_Pause_Status、Safety_Pause_Status、HasCST、Cmd_ID、CST_ID的欄位。
1.0.4	2019/2/25		Kevin Wei	1.刪除ID_31,CSTRENAME的功能。 2.加入ID_35_CARRIER_RENAME_REQUEST、ID_135_CARRIER_RENAME_RESPONSE
1.0.5	2019/6/6			1.增加ID:136-Event:BCRRead = 13,並加入欄位BCRReadResult。 2.修改ID:137-CMDCancelType:CMD_Cancel = 0->CMD_Cancel = 20、CMD_Abort = 1->CMD_Abort = 21並增加 CMD_Cancel_ID_Mismatch = 23、CMD_Cancel_ID_Read_Failed = 24

欄位	型別	說明		
ID_31_TRANS_REQ	ID_31_TRANS_REQUEST			
Cmd_ID	string	由OHT/C產制的命令編碼		
		MOVE = 0;		
		LOAD = 1;		
		UNLOAD = 2;		
		LOADUNLOAD = 3;		
		HOME = 4;		
ActiveType	ActiveType	OVERRIDE = 5 ;		
		MTLHOME = 7;		
		MOVETOMTL = 10;		
		SYSTEMOUT = 11;		
		SYSTEMIN = 12;		
		ROUND=99;		
LoadAdr	string	LOAD Address的位址只會使用於LOAD or LOADUNLOAD二種命令		
ToAdr	atrina	在UNLOAD or LOADUNLOAD中指的是UNLOAD位址,如果是在		
TUAUI	string	MOVE or TEACHING or ROUND中單純指目的地		
Sec_Distance	int	如果不是要停至Address上時,則會指定此欄位		
CST_ID	string	如果是LOAD or LOADUNLOAD時,要載的貨物條碼		
Guide_Sections	List <string></string>	指引走行整段路徑使用		
Guide_Segments	List <string></string>	暫不使用		
Cycle_Sections	List <string></string>	如果是ROUND時,則需參考此欄位		
ID_131_TRANS_RES	ID_131_TRANS_RESPONSE			
Cmd_ID	string	由OHT/C產制的命令編碼		

ActiveType	ActiveType	MOVE = 0; LOAD = 1; UNLOAD = 2; LOADUNLOAD = 3; HOME = 4; OVERRIDE = 5; MTLHOME = 7; MOVETOMTL = 10; SYSTEMOUT = 11; SYSTEMIN = 12; ROUND=99;	
ReplyCode	int32	[0 : OK , 1 : NG]	
ngReason	string	無法接受派送命令時的原因	
ID_132_TRANS_COMF	LETE_REPORT		
Cmd_ID	string	由OHT/C產制的命令編碼	
CST_ID	string	載到貨物時所讀到的條碼	
CmpStatus	CompleteStatus	完成狀態 [0:Move 1:Load 2:Unload 3:Load/Unload 4:Home 5:Override 6:Rename 7:MTL Home 10:MoveToMTL 11:SystemOut 12:System In 20:Cancel 21:Abort 22:Vehicle Abort 23:ID Mismatch 24:ID Read Failed 64:InterlockError]	
CurrentAdrID	string	*Arrivals時表現在所在位址,AdrPass時帶入剛通過的Node Address.	
CurrentSecID	string	現在處於那一段Section上	
Sec_Distance	int32	在AdrPass時,距離這個Section的起點多遠,在*Arrvials時則是此段Section的總長	
Cmd_Distance	int32	本次命令的走行距離	
ID_32_TRANS_COMPLETE_RESPONSE			
ReplyCode	int32	[0:OK,1:NG]	
ID_33_CONTROL_ZONE_REPUEST_CANCEL_REQUEST			
ControlType	ControlType	Block =1; HID = 2;	

CancelSecID	string	要取消要求的Block Zone ID或者是HID Zone ID		
ID_133_CONTROL_ZON	ID_133_CONTROL_ZONE_REPUEST_CANCEL_RESPONSE			
ControlTypo	ControlType	Block =1;		
ControlType	Control Type	HID = 2;		
CancelSecID	string	要取消要求的Block Zone ID或者是HID Zone ID		
ReplyCode	int32	[0: OK, 1: NG]		
ID_134_TRANS_EVENT	<u>'_</u> REP			
EventType	EventType	AdrArrivals =4;		
Eventrype	Eventrype	AdrPass = 5;		
CurrentAdrID	string	*Arrivals時表示現在所在位址,AdrPass時帶入剛通過的Node		
CurrentSecID	string	現在處於那一段Section上		
LeftGuideLockStatus	VhGuideStatus	Unlock = 0;		
LettouldeLockstatus	Virouidestatus	Lock = 1;		
RightGuideLockStatus	VhGuideStatus	Unlock = 0;		
Tagnioulachockolatas	Virouidestatus	Lock = 1;		
Sec Distance	int32	在AdrPass時,距離這個Section的起點多遠,在報Arrvials時則是此		
	IIIt32	段Section的總長		
ID_34				
不會回應				
ID_35_CARRIER_RENAME_REQUEST				
Old_Carrier_ID	string	原本在OHT上的CARRIER ID		
New_Carrier_ID	string	要求要修改成新的CARRIER ID		
ID_135_CARRIER_RENAME_RESPONSE				
ReplyCode	int32	[0: OK, 1: NG]		
ID_136_TRANS_EVENT_REP				

EventType	EventType	LoadArrivals = 0; LoadComplete = 1; UnloadArrivals = 2; UnloadComplete = 3; MoveArrivals = 4; BlockReq = 8; HIDReq = 9; Block & HID Request = 10; Loading = 11; Unloading = 12; BCR Read = 13; Block Release = 21; HID Release = 22; Block & HID Release = 23;	
Request_Block_ID	string	當EventType = 8或10,填入所要求Block的ID	
Request_HID_ID	string	當EventType = 9或10,填入所要求HID的ID	
CST_ID	string	當有BCR Read時,則此欄位要填入(除ReadFail外)	
Release_Block_AdrID	string	當EventType = 21或23,填入所釋放Block的ID	
Release_HID_AdrID	string	當EventType = 22或23,填入所釋放HID的ID	
CurrentAdrID	string	*Arrivals時表現在所在位址,AdrPass時帶入剛通過的Node Address.	
CurrentSecID	string	現在處於那一段Section上	
Sec_Distance	int32	在AdrPass時,距離這個Section的起點多遠,在*Arrvials時則是此段 Section的總長	
BCRReadResult	BCRReadResult	當EventType = 13,填入該次BCR讀取得結果 BCR_Normal = 0; BCR_ReadFail = 1; BCR_MissMatch = 2;	
ID_36_TRANS_EVENT_RESPONSE			
Is_Block_Pass	int32	[0: PASS, 1: BLOCK]	
Is_HID_Pass	int32	[0: PASS, 1: BLOCK]	
ReplyCode	int32	[0: OK, 1: NG]	

ID_37_TRANS_CANCEL_REQUEST			
Cmd_ID	string	由OHT/C產制的命令編碼	
		CMD_Cancel = 20	
A . 4 To .	CMDC 1T	$CMD_Abort = 21$	
ActiveType	CMDCancelType	CMD_Cancel_ID_Mismatch = 23	
		CMD_Cancel_ID_Read_Failed = 24	
ID_137_TRANS_CAN	NCEL_RESPONSE		
Cmd_ID	string	由OHT/C產制的命令編碼	
		$CMD_Cancel = 20$	
A ativaTvma	CMDCancelType	$CMD_Abort = 21$	
ActiveType	CiviDeancerrype	CMD_Cancel_ID_Mismatch = 23	
		CMD_Cancel_ID_Read_Failed = 24	
ReplyCode	int32	[0: OK, 1: NG]	
ID_39_PAUSE_REQU	JEST		
EventType	PauseEvent	Pause = 0;	
Eventrype	FauseEvent	Continue = 1	
		Nornal = 1;	
		Block = 2 ;	
PauseType	PauseType	HID = 3;	
rause 1 ype	rause Type	Earthquake = 4;	
		Safe = 5;	
		ALL = 9;	
ID_139_PAUSE_RES	PONSE		
EventType	PauseEvent	Pause = 0;	
Event i ype		Restart = 1	
ReplyCode	int32	[0: OK, 1: NG]	
ID_41_MODE_CHANGE_REQ			
OperatingVHMode	Operating VHM ode	0:Auto	
	Operating vinvious	1:Manual	
ID_141_MODE_CHANGE_RESPONSE			
ReplyCode	int32	[0: OK, 1: NG]	

ID 43 STATUS REQUEST			
ID_143_STATUS_RESPONSE			
CurrentAdrID	string	*Arrivals時表現在所在位址,AdrPass時帶入剛通過的Node Address.	
CurrentSecID	string	現在處於那一段Section上	
		None = 0 ;	
ModeStatus	VHModeStatus	Manual = 3;	
		Auto = 4;	
		No Command = 0 ;	
		Commding = 1;	
ActionStatus	VHActionStatus	Teaching = 5;	
		GripperTeaching = 6;	
		CycleRun = 7;	
PowerStatus	VhPowerStatus	Power_Off = 0 ;	
Towerstatus	vnPowerStatus	Power_On = 1;	
ObstacleStatus	VhStopSingle	$StopSingle_Off = 0;$	
Obstaciestatus		StopSingle_On = 1;	
BlockingStatus	VhStopSingle	$StopSingle_Off = 0;$	
Diockingstatus	vnstopsingle	StopSingle_On = 1;	
HIDStatus	VhStopSingle	$StopSingle_Off = 0;$	
IIIDStatus		StopSingle_On = 1;	
PauseStatus	VhStopSingle	StopSingle_Off = 0;	
1 auscotatus	Vilotoponigic	StopSingle_On = 1;	
ErrorStatus	VhStopSingle	$StopSingle_Off = 0;$	
Lifordiatus	Viistopsingic	StopSingle_On = 1;	
Sec_Distance	uint32	在AdrPass時,距離這個Section的起點多遠,在*Arrvials時則是此段	
Sec_Distance		Section的總長	
Obst_Distance	int32	如果有障礙物時,離障礙物多遠	
Obst_Vehicle_ID	int32	前方障礙物的車號	
Stopped_Block_ID	string	當BlockingStatus = StopSingle_On時,要填入該次暫停的Block Zone	
Stopped_HID_ID	string	當HIDStatus = StopSingle_On時,要填入該次暫停的HID Zone ID	

nquake=4、EventType為Pasus=0時
=5、EventType為Pasus=0時,設置
Pass時帶入剛通過的Node Address.

		StopSingle Off = 0 ;		
PauseStatus	VhStopSingle	StopSingle_On = 1;		
		StopSingle Off = 0;		
ErrorStatus	VhStopSingle	StopSingle On = 1;		
		在AdrPass時,距離這個Section的起點多遠,在*Arrvials時則是此段		
Sec_Distance	int32	Section的總長		
Obst Distance	int32	如果有障礙物時,離障礙物多遠		
Obst Vehicle ID	int32	前方障礙物的車號		
Stopped Block ID	string	當BlockingStatus = StopSingle On時,要填入該次暫停的Block Zone		
Stopped HID ID	string	當HIDStatus = StopSingle On時,要填入該次暫停的HID Zone ID		
		StopSingle_Off = 0;		
Earthquake_Pause_Status	VhStopSingle	StopSingle_On = 1;		
	7.1. C. C. 1	StopSingle_Off = 0;		
Safety_Pause_Status	VhStopSingle	StopSingle_On = 1;		
IICOT	VIII ICCTC4-4	NotExist = 0 ;		
HasCST	VhLoadCSTStatus	Exist = 1;		
Cmd_ID	string	當前執行的Command ID		
CST_ID	string	當前搬送的CST ID		
ID_44_STATUS_CHANG	E_RESPONSE			
ReplyCode	int32	[0: OK, 1: NG]		
ID_45_POWER_OPE_RE	Q			
OperatingPowerMode	OperatingPowerMode	Power_Off = 0;		
Operatingrowenvioue	OperatingPowerMode	Power_On = 1;		
ID_145_POWER_OPE_RE	ESPONSE			
ReplyCode	int32	[0:OK,1:NG]		
ID_71_RANGE_TEACHING_REQUEST				
FromAdr	string	進行Teaching的Section,開頭的Address		
ToAdr	string	進行Teaching的Section,尾端的Address		
ID_171_RANGE_TEACHING_RESPONSE				
	int32	[0:OK,1:NG]		
ID_172_RANGE_TEACH	ID_172_RANGE_TEACHING_COMPLETE_REPORT			

FromAdr	string	進行Teaching的Section,開頭的Address		
ToAdr	string	進行Teaching的Section,尾端的Address		
Sec_Distance	uint32			
Cmp_Code	int32	0:正常,0以外:異常結束		
ID_72_RANGE_TEACHI	NG_COMPLETE_RESPONSE			
ReplyCode	int32	[0:OK,1:NG]		
ID_174_ADDRESS_TEAC	CH_REPORT			
Addr	string	要校正的Port 所在的Address		
Position	int32	校正後的確定誤差值		
ID_74_ADDRESS_TEAC	H_RESPONSE			
ReplyCode	int32	[0:OK,1:NG]		
ID_91_ALARM_RESET_	REQUEST			
ID_191_ALARM_RESET	RESPONSE			
ReplyCode	int32	[0:OK,1:NG]		
ID_194_ALARM_REPOR	ID_194_ALARM_REPORT			
ErrCode	string	異常代碼 [0:全部(Rest才會使用),0以外:異常代碼]		
ErrStatus	ErrorStatus	設定/解除 [0:Reset,1:Set]		
ID_94_ALARM_RESPONSE				
ReplyCode	int32	[0:OK,1:NG]		