

**ASHFORD SC**

**ASHFORD IECC B (2)**

**EXTERNAL COMMUNICATIONS SUBSYSTEM  
SPECIFICATION**

**10B/DC/SPE/ECS**



**VERSION UZ2**

**Controlled Copy No.**

## **ISSUE and AMENDMENT RECORD**

<b>Version</b>	<b>Produced</b>	<b>Checked</b>	<b>Date</b>	<b>Details of change</b>
UR1	■	■	05/11/12	Initial issue of document.
UR2	■	■	19/11/12	Document updated to correct design anomalies in response to Data Prep Set-to-Work comments.(Amended sections 2.1, 2.2, 2.5.2, 2.5.3, 3.4, 4.3, 4.4, 6.3, 6.4, 6.4.1, 7.4, 9.3, 9.4, 9.4.1)
UR3	■	■	19/12/12	Issue produced to incorporate design modifications ALE/MOD/022, ALE/MOD/023, ALE/MOD/024 and ALE/MOD/025. (Amended sections 2.7, 4.3, 4.4 and 9.4.1)
UR4	■	■	08/01/13	Document updated to add Dollands Moor, Ashford Down Yard and Maidstone East TD ABX links in response to test log (1226-ALE-TEC-TST-TCP-01(B) – 0083). (Amended sections 1.2, 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 2.8.2, 2.9.2, 2.10, 4, 4.1, 4.2, 4.3, 4.4, 4.4.1, 5, 5.1, 5.2, 5.3, 5.4, 5.4.1, 5.5, 6, 6.1, 6.2, 6.3, 6.4, 6.4.1, 6.5, 7.1, 7.2, 8.3, 8.4, 10.1, 10.2, 10.3, 11, 11.1, 11.2, 11.3, 11.4, 11.4.1, 11.5, 12, 12.1, 12.2, 12.3, 12.4, 12.4.1, 12.5, 13.3, 13.4.)
UR5	■	■	12/02/13	Document produced to incorporate design modifications ALE/MOD/041, 042, 043, 045, 046, 049, 052, 062 and 065.
US1	■	■	16/02/13	ALE Stage 2 amendments. Re-instatement of pre-announce berths, alteration to stepping through approach berths from CTRL and inclusion of M151 berth for transmittal from FET3 to Maidstone East TD.
US2	■	■	06/03/13	Introduction of parallel stepping for RCCS purposes.
US3	■	■	14/04/13	Incorporating stage 2 design modification ALE/ST2/MOD/001 (section 2.8.2 only).
UZ1	■	■	16/04/13	ALE stage 4 amendments - removal of parallel stepping and clerical change to remove notes associated with IECC A (1) pre-announce berths.
UZ2	■	■	21/04/13	ALE stage 4 amendments - Y021 berth removed from section 7.3 (no longer required to be transmitted to RCCS).

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Produced			12.09.2013
Checked			12/9/2013

This document has been accepted, on behalf of Network Rail, by:

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# 1 INTRODUCTION

## 1.1 Document Overview

This document defines the External Communications Subsystem (ECS) data requirements for the Ashford Integrated Electronic Control Centre (IECC) B (2) located at Ashford Signalling Centre (SC).

The following information is supplied for each ECS link:

- Link Characteristics
- Train Descriptor (TD) berths transmitted and received
- Signalling items transmitted and received (where appropriate)
- Subsystems which will be informed of changes in remote link status.

## 1.2 ABBREVIATIONS

<b>DIS</b>	Flexible Display Subsystem
<b>ECS</b>	External Communication Subsystem
<b>FET3</b>	Front End Train Descriptor 3
<b>IDPM</b>	IECC Data Preparation Manual
<b>IECC</b>	Integrated Electronic Control Centre
<b>SC</b>	Signalling Centre
<b>SMART</b>	Signal Monitoring and Reporting of Trains
<b>TD</b>	Train Descriptor

## 1.3 Related Documents

IECC Application Manuals

NR/SP/SIG/10040 Issue 8

IDPM 1302 External Communications

SAO-IEC-HD-56 Issue 4.1

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## 2 ECS OVERVIEW

### 2.1 All berths known to IECC

/Workstation 4 (DIS1)

0595	0597	0599	0601	0602	0603	0604	0605
0606	0607	0608	0610	0611	0612	0613	0615
0616	0617	0618	0619	0620	0621	0622	0623
0624	0625	0626	0627	0628	0629	0630	0631
0632	0633	0634	0635	0636	0637	0638	0639
0640	0641	0642	0643	0644	0645	0646	0649
0650	0652	0653	0655	0658	0659	0660	0661
0663	0664	0665	0666	0667	0668	0669	0670
0671	0672	0673	0674	0675	0676	0677	0678
0679	0680	0681	0682	0684	0686	0691	0693
0695	0697	0701	0702	0703	0704	0705	0706
0707	0708	0709	0710	0711	0712	0713	0714
0715	0716	0717	0718	0719	0720	0721	0722
0723	0724	0725	0726	0727	0728	0729	0730
0731	0732	0733	0734	0735	0736	0737	0738
0739	0740	0741	0742	0780	0781	0782	0783
0786	0787	0788	0789	0790	0851	0852	0853
0854	0855	0856	0857	0858	0871	0873	0874
0875	0876	0878	0880	0882	0891	0892	0947
0949	0954	0956	2113	2119	2121	2123	2126
2128	2130	2131	2132	2134	2136	609X	614X
647X	651X	662X	APW4	DB01	DB02	DB03	DB04
DB05	DB06	DB07	DB08	DB09	DB10	DB11	DB12
DB13	DB14	DB15	DB16	DB17	DB18	DB19	DB20
DB21	DB22	DB23	DB24	DB25	DB26	DB27	DB28
DB48	DB49	LS2U	LS3R	LS5D	LS5U	LSDC	LSED
LSEU	LSME	LSWD	LSWU	R128	R130	R790	SS2U
SS3R	SS5D	SS5U	SSDC	SSED	SSEU	SSME	SSWD
SSWU	STA3	DB29	DB30	0850	299Z	301Z	303Z
326Z	328Z	332Z	A223	A595	A615	A616	A629
A630	A643	A644	A665	A669	A707	A709	A719
A721	A744	A746					

/Workstation 5 (DIS2)

0743	0744	0745	0746	0747	0748	0749	0750
0751	0752	0753	0754	0755	0756	0757	0758
0759	0760	0761	0762	0763	0791	0792	0793
0794	0795	0796	0797	0798	0799	0803	0804
0807	0808	0809	0813	0814	0816	0818	0821
0822	0823	0824	0830	0832	0901	0902	0903
0904	0905	0906	0907	0908	0909	0910	0911
0912	0913	0914	0915	0916	0918	2146	2147
2150	2151	2152	2153	2154	2155	2156	2157
2158	2159	2160	2161	2162	2163	2164	2165
2166	2167	2168	2171	DB50	DB51	DB52	DB53
DB54	DB55	DB56	DB57	DB58	DB59	DB60	DB61
DB62	DB63	DB64	DB65	DB66	DB67	DB68	DB69

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DB70	DB71	DB72	DB73	FCA1	LS4D	LS4U	LSCD
LSCU	LSFC	LSFL	SDG1	SDG2	SDG3	SDG4	SDG5
SDG6	SPR1	SPR2	SPUR	SS4D	SS4U	SSCD	SSCU
SSFC	SSFL	THRU	A752	A754	A756	A758	

*/Additional berths for Folkestone fringe*

K010	K018	K022	K028	K090	K024		
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*/Additional berths for CTRL fringe*

249C	251C	253C	261C	263C	269C	271C	273C
275C	277C	281C	283C	285C	289C	291C	295C
297C	299C	299D		301C	301D	301E	
303C	303D	303E		312C	313C	318C	319C
323C	325C	326C	326D	326E		327C	328C
328D		329C	331C	332C	332D		333C
334C	335C	336C	337C	340C	342C	344C	361C
362C	363C	364C	365C	366C	421C	431C	433C
451C	451D	452C	452D	453C	453D	454C	455C
455D	458C	460C	461C	462C	462D	463C	464C
464D	471C	481C	482C	484C	571C	591C	592C
593C	EA06	EA08	EA10	EA11	EA12	EA13	EA14
EA15	EA16	EA17	EA18	EA19	EA20	EA21	EA22
EA23	EA25	EA27	EA29	ET04	ET05	ET06	ET07
ET08	ET09	ET10	ET11	ET12	ET13	ET14	ET15
ET16	ET17	ET18	ET19	ET20	ET21	ET22	ET23
ET25	ET27	ET29	ET30	ET31	ET40	ET41	ET50
ET99	S101	S102	S103	S201	S202	S203	S301
S302	S303	S401	S402	S403			

*/Additional berths for Maidstone East fringe*

M211	M213	M215	M217	M223	M224	M227	M231
V319	V321	V335	V337	V338	VATL	TETD	RBTD
BPTD	HSTD	RYTD					

*/Additional berths for Wye & Canterbury fringe*

Y002	Y003	Y021					
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*/Additional berths for IECC A Workstation 2 fringe*

0197	0199	0205	0207	0209	0211	0213	0215
	0217	0219	0221		0591	0593	0598
201X	203X	STA4	X200	X216	X588	A163	A170
A204	A205	A214	A215	A590			

*/Additional berths for IECC A Workstation 3 fringe (Rye)*

0893	0894	0896	0898				
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## 2.2 Berths from Front End Train Describer (FET3)

The following berths belong to TD Area: *FET3*

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*/Chart Leacon Depot*

0650          0661          2113

*/Folkestone*

0918          K010          K018          K022          K028          K090          K024

*/Canterbury (CWACC)*

0882          Y002          Y003          Y021

*/Maidstone East*

VATL          TETD          RBTD          BPTD          HSTD          RYTD

## **2.3 Berths from IECC A (1) ECS**

The following berths belong to TD Area: ECSA

*/IECC A Workstation 2*

A163          A170          A204          A205          A214          A215          A590

*/Victoria*

V319          V321          V335          V337

*/Staplehurst*

0197          0199          0205          0207          0209          0211          0213          0215  
0217          0219          0221          0591          0593          0595          0598          201X  
203X          609X          APW4          STA4          X200                                  X216  
X588

*/Rye*

0892          0893          0894          0896          0898

## **2.4 Berths from CTRL**

The following berths belong to TD Area: CTRL

*/CTRL*

0759          0830          0832          0947          0949          0954          0956          249C  
251C          253C          261C          263C          269C          271C          273C          275C  
277C          281C          283C          285C          289C          291C          295C          297C  
299C          299D                                  301C          301D          301E                                  303C  
303D          303E                                  312C          313C          318C          319C          323C  
325C          326C          326D          326E                                  327C          328C          328D  
                                329C          331C          332C          332D          333C          334C  
335C          336C          337C          340C          342C          344C          361C          362C  
363C          364C          365C          366C          421C          431C          433C          451C  
451D          452C          452D          453C          453D          454C          455C          455D  
458C          460C          461C          462C          462D          463C          464C          464D  
471C          481C          482C          484C          571C          591C          592C          593C

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*/Berths transferred from Euro section*

EA06	EA08	EA10	EA11	EA12	EA13	EA14	EA15
EA16	EA17	EA18	EA19	EA20	EA21	EA22	EA23
EA25	EA27	EA29	ET04	ET05	ET06	ET07	ET08
ET09	ET10	ET11	ET12	ET13	ET14	ET15	ET16
ET17	ET18	ET19	ET20	ET21	ET22	ET23	ET25
ET27	ET29	ET30	ET31	ET40	ET41	ET50	ET99
S101	S102	S103	S201	S202	S203	S301	S302
S303	S401	S402	S403				

## 2.5 Berths from Ashford Down Yard

The following berths belong to TD Area: ASHY

0871      0878

## 2.6 Berths from Dollands Moor

The following berths belong to TD Area: DOLL

0795	0796	0797	0798	0799	0803	0804	0807
0808	0809	0813	0814	0816	0818	2146	2147
2150	2151	2152	2153	2154	2155	2156	2160
2161	2162	2163	2164	2165	2166	2167	2168
2171	SDG1	SDG2	SDG3	SDG4	SDG5	SDG6	SPR1
SPR2	SPUR	THRU					

## 2.7 Berths from Maidstone East

The following berths belong to TD Area: MSTA

0851	M004	M011	M014	M019	M021	M023	M025
M036	MF37	MR37	M039	M041	M045	M151	M152
M153	M157	M160	M161	M162	M163	M164	M165
M166	M167	M168	M169	M170	M171	M172	M189
M191	M192	M193	M194	M195	M196	M197	M198
M199	M200	M201	M204	M205	M206	M210	M211
M212	M213	M214	M215	M216	M217	M218	M223
M224	M226	M227	M228	M229	M231	M341	M344
M345	M347	V338					

## 2.8 Early Transmission and ARS Strike-in Berths

Any berth that is updated by a remote system, whose update needs to be known to ARS or any DIS, is an Early Transmission Berth. This list of berths is split into the various DIS subsystems on the IECC, as the data specifies which DIS each listed berth is sent to. The berths required by ARS (for strike-in purposes) used to be separately listed, but this is no longer done due to a code fault; now any such berth is included in the relevant DIS list (as the berths in a DIS list are sent to ARS anyway).

### 2.8.1 ARS Strike-In Berths

Included within the Early Transmission Berths.

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### 2.8.2 Early Transmission Berths - Workstation 4 (DIS1)

0205	0207	0209	0211	0213	0215		0217
0219	0221		0591	0593	0595	0598	0851
0882	0892	0893	0894	0947	0949	0954	0956
271C	275C	285C	299C		301C		
312C	313C	318C	319C	323C	325C	326C	328C
	331C	332C		334C	451C	452C	453C
455C	460C	461C	462C	464C	609X	APW4	M211
M213	M215	M217	M223	M224	M231	STA4	X200
Y002	Y003	Y021	303C	X216	X588	0650	0661
0871	0878	2113					

### 2.8.3 Early Transmission Berths - Workstation 5 (DIS2)

0759	0830	0832	0918	335C	337C	342C	362C
363C	364C	365C	366C	471C	593C		K010
K018		K022	K028	K090	K024	0795	0796
0797	0798	0799	0803	0804	0807	0808	0809
0813	0814	0816	0818	2146	2147	2150	2151
2152	2153	2154	2155	2156	2160	2161	2162
2163	2164	2165	2167	2171	SDG1	SDG2	SDG3
SDG4	SDG5	SDG6	SPR1	SPR2	SPUR	THRU	

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## 2.9 Identities

### 2.9.1 CTRL Identities

The following identities belong to TD Area: *CTRL*

RET1164A	RET1164B	RET1151	RET1092	RET1050A	RET1050B	RET1050E	RET1050F
RET1050G	RET1050H	RET1050J	RET1050K	RET1050L	RET1050M	RET1049A	RET1049B
RET1049C	RET1049Z	RET1049D	RET1008B	RET1008C	RET1008D	RET1008E	RET1008F
RET1008G	RET1008H	RET1008J	RET1008K	RET0976A	RET0976B	RET0976C	RET0976D
RET0976E	RET0977A	RET0977B	RET0977C	RET0977D	RET0112A	RET0112C	LSSIV1FOAC
LSSPV1FOAC	LSSIV2FOCC	LSSPV2FOCC	L795SS	L797SS	L799SS	L803SS	L807SS
L809SS	L813SS	RET1050C	RET1050D	RAF249AM	RAF249AA	LAF421ER	LAF-DNCUARR
LAF-DNCDARR	LAF-UNYUARR	LAF-UNYDARR	RAF251AM	RAF251AA	RAF253AM	RAF253AA	RAF253BM
RAF253BA	RAF261AM	RAF261AA	RAF261BM	RAF261BA	RAF263AM	RAF263AA	RAF269AM
RAF269AA	LAF431ER	LAF433ER	LAF-DCLUARR	LAF-DCLDARR	LAF-UCNUARR	LAF-UCNDARR	RAF271AM
RAF271AA	RAF271BM	RAF271BA	RAF273AM	RAF273AA	RAF275AM	RAF275AA	RAF275BM
RAF275BA	RAF277AM	RAF277AA	RAF277BM	RAF277BA	RAF283AM	RAF283AA	RAF285AM
RAF285AA	RAF289AM	RAF289AA	RAF291AM	RAF291AA	RAF295AM	RAF295AA	RAF295BM
RAF295BA	RAF297AM	RAF297AA	RAF297BM	RAF297BA	RAF297CA	RAF299AM	RAF299AA
LAF-DLFWUARR	LAF-DLFDWARR	LAF-ULCUARR	LAF-ULCDARR	RAF301AM	RAF301AA	RAF301BM	RAF301BA
RAF303AM	RAF303AA	RAF303BM	RAF303BA	LAF451ER	LAF455ER	LAF461ER	LAF463ER
LAF453ER	LAF-UFWLUARR	LAF-UFWLDARR	LAF-DFWUARR	LAF-DFWFDARR	LAF-UFFWUARR	LAF-UFFWDARR	LAF-DFWFEUARR
LAF-DFWFEDARR	RAF325AM	RAF325AA	RAF327AM	RAF327AA	RAF323AM	RAF323AA	RAF329AM
RAF329AA	RAF328AM	RAF328AA	RAF328BM	RAF328BA	RAF326AM	RAF326AA	RAF326BM
RAF326BA	LAF313ER	LAF464ER	LAF458ER	LAF454ER	LAF460ER	LAF452ER	LAF462ER
LAF319ER	LAF-DFFEUARR	LAF-DFFEDARR	LAF-UFEFWUARR	LAF-UFEFDARR	LAF-UFEFUARR	LAF-UFEFDARR	LAF-DFEWUARR
LAF-DFEWDARR	RAF331AM	RAF331AA	RAF331BM	RAF331BA	RAF335AM	RAF335AA	RAF335BM
RAF335BA	RAF361AM	RAF361AA	RAF333AM	RAF333AA	RAF333BM	RAF333BA	RAF337AM

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RAF337AA	RAF337BM	RAF337BA	RAF336AM	RAF336AA	RAF336BM	RAF336BA	RAF344AM
RAF344AA	RAF332AM	RAF332AA	RAF334AM	RAF334AA	RAF334BM	RAF334BA	RAF340AM
RAF340AA	RAF342AM	RAF342BM	RAF367AM	RAF367AA	RAF593AS	RAF593AA	LAF471ER
LAF481ER	LAF-UWFEUARR	LAF-UWFEDARR	LAF-DWTUARR	LAF-DWTDARR	RAF342AA	RAF342BA	RAF365AA
RAF365BA	RAF366AM	RAF366AA	RAF366BM	RAF366BA	RAF363AM	RAF363AA	RAF365AM
RAF365BM	RAF365BS	RAF364AM	RAF364AA	RAF362AM	RAF362AA	RAF362AS	RAF362BM
RAF362BA	RAF362BS	LAF484ER	LAF482ER	LAF-DTETUARR	LAF-DTETDARR	LAF-DTTUARR	LAF-DTTDARR
LAF-UTTUARR	LAF-UTTDARR	LAF-UETTUARR	LAF-UETTDARR	SET0976 #	SET0977 #	SET1049 #	SET1050 #
SET1092 #	SET1151 #	SET1164 #	SET0112 #	SAF249 #	SAF251 #	SEF253 #	SAF261 #
SAF263 #	SAF269 #	SAF271 #	SAF273 #	SAF275 #	SAF277 #	SAF283 #	SAF285 #
SAF289 #	SAF291 #	SAF295 #	SAF297 #	SAF299 #	SAF301 #	SAF303 #	SAF323 #
SAF325 #	SAF326 #	SAF327 #	SAF328 #	SAF329 #	SAF331 #	SAF332 #	SAF333 #
SAF334 #	SAF335 #	SAF336 #	SAF337 #	SAF340 #	SAF342 #	SAF344 #	SAF361 #
SAF362 #	SAF363 #	SAF364 #	SAF365 #	SAF366 #	SAF367 #	SAF593 #	

# Denotes a CTRL/Eurotunnel identity which is derived from a corresponding route identity.

## 2.9.2 FET3 Identities

The following identities belong to TD Area: *FET3*

RK90      RK93      RY3      RY21

## 2.9.3 Maidstone East Identities

The following identities belong to TD Area: *MSTA*

TNLF      RBLF      BPLF      HSLF      RYLF

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## 2.9.4 IECC A (1) Identities

The following identities belong to TD Area: *ECSA*

RV319          RV321A

## 2.10 Stacks and Groups

Where there can be multiple trains in a section, but no markers to indicate their exact position to the IECC, the ECS maintains their order through a queuing system using STACK berths and GROUPs.

The STACK berth will display the headcode of the foremost train within its queue of associated berths (as the headcode for the front train steps out of the section, all remaining headcodes ripple forward). Where a queue of headcodes can step into more than one stack berth, these are combined together into GROUPs.

The following STACKs and GROUPs are present for this IECC at the CTRL fringe:

	Stack ET27	{EA29	ET29}					
	Stack ET25	{EA27	ET27}					
	Stack ET23	{EA25	ET25}					
	Stack ET21	{EA23	ET23}					
	Stack ET20	{EA22	ET22}					
	Stack ET19	{EA21	ET21}					
	Stack ET18	{EA20	ET20}					
	Stack ET17	{EA19	ET19}					
	Stack ET16	{EA18	ET18}					
	Stack ET15	{EA17	ET17}					
	Stack ET14	{EA16	ET16}					
	Stack ET13	{EA15	ET15}					
	Stack ET12	{EA14	ET14}					
	Stack ET11	{EA13	ET13}					
	Stack ET10	{EA12	ET12}					
	Stack ET08	{EA10	ET10}					
	Stack ET06	{EA08	ET08}					
Group {	Stack ET22	{S201	S202	S203	S204	S205	S206	S207
		S208	S209	S210	S211	S212	S213	S214
		S215	ET30}					
	Stack ET29	{S101	S102	S103	S104	S105	S106	S107
		S108	S109	S110	S111	S112	S113	S114
		S115	ET31}}					
Group {	Stack ET30	{S401	S402	S403	S404	S405	S406	S407
		S408	S409	S410	S411	S412	S413	S414
		S415	ET40}					
	Stack ET31	{S301	S302	S303	S304	S305	S306	S307
		S308	S309	S310	S311	S312	S313	S314
		S315	ET41}}					

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Group {    Stack ET09    {EA11    ET11}  
         Stack ET50    {EA06    ET06}}

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### 3 ECS INTER-UNIT LINK (1)

#### 3.1 Overview

This ECS-ECS remote system link operates from port 1. It is a link to the Master/Standby computer unit with **TD** type initialisation.

#### 3.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	1	Baud Rate	19200
Physical Name	P1	Time-Out Period (secs)	1
Area	ILB1	Message Retry Count	8
Protocol	BR1810	Message Retry Field Flag	Set

#### 3.3 Berths

Changes in the contents of **ALL** berths known to the IECC will be transmitted by the Master ECS computer unit to the Standby ECS computer unit and vice-versa.

#### 3.4 Signalling items

Changes on the status of the following signalling items will be transmitted by the Master ECS unit to the Standby ECS unit and vice-versa.

/Address 00-0F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
R601A	R601B	R602	R603	R604A	R604B	R605	R606A
R606B	R607A	R607B	R607C-1	R607C-2	R608A	R608B	R609XA
R609XB	R609XC-1	R609XC-2	R610A	R610B	R611	R612A	R612B
R612C	R613	R614XA	R614XB	-	-	-	-
R647X	R649A(M)	R649B(M)	R649C(M)	R650	R651X	R652	R658A(S)
R658B(M)	R658C(M)	R659A(M)	R659B(M)	R659B(C)	R659C(M)	R659C(C)	R659D(M)
R659E(M)	R659F(M)	R659G(M)	R660A(S)	R660B(M)	R660C(M)	R661A(M)	R661B(M)
R661C(M)	R661D(M)	R661E(M)	R664A(M)	R664B(M)	R664C(M)	R664D(M)	R664E(M)
R666A(M)	R666B-1(M)	R666B-2(M)	R666C(M)	R666D-1(M)	R666D-2(M)	R666E(M)	R668A(M)
R668B(M)	R668C(M)	R668D(M)	R677A(M)	R677A(S)	R677B(M)	R677B(S)	R677C(M)
R677D(S)	R679A(M)	R679A(S)	R679B(M)	R679B(S)	R679C(M)	R679D(S)	R680A(M)
R680B(M)	R681A(M)	R681B(S)	R681C(S)	R681D(S)	R780A(M)	R780A(C)	R780B(M)
R780B(C)	R782A(M)	R782A(C)	R782B(M)	R782B(C)	R787(M)	R787(W)	R787(C)
R789(M)	R789(C)	R892(M)	R677A	R677B	R679A	R679B	R2113
R2121A	R2121B	R2121C	R2123A	R2123B	R2128	R2130A	R2130B
R2132A	R2132B	R2134A	R2134B	R653A(M)	R653B(M)	R653B(C)	R653C-1(M)

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/Address 10-1F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R653C-2(M)	R653C-1(C)	R653C-2(C)	R653D(M)	R653E(M)	R653F-1(M)	R653F-2(M)	R653G(M)
R655A(M)	R655B(M)	R655B(C)	R655C(M)	R655C(C)	R655D(M)	R655E(M)	R655F-1(M)
R655F-2(M)	R655G(M)	R662X	R663A(M)	R663B(M)	R670A(M)	R670B(M)	R670C(M)
R670D(M)	R672A(M)	R672B(M)	R672C(M)	R672D(M)	R672E(M)	R672F(M)	R672G(M)
R674A(M)	R674B(M)	R674C(M)	R674D(M)	R674E(M)	R674F(M)	R674G(M)	R676A(M)
R676B(M)	R676C(M)	R676D(M)	R676E(M)	R676F(M)	R676G(M)	R676H(M)	R678A(M)
R678B(M)	R678C(M)	R678D(M)	R678E(M)	R678F(M)	R678G(M)	R678H(M)	R781(M)
R781(C)	R783A(M)	R783A(C)	R783B(M)	R783B(C)	R851A(M)	R851B(M)	R851C(M)
R853A(M)	R853B(M)	R853B(C)	R853C(M)	R853C(C)	R853D(M)	R853E(M)	R853F-1(M)
R853F-2(M)	R853G(M)	R852	R854	R855	R856	R857A(M)	R857B(M)
R857B(C)	R857C(M)	R857C(C)	R858	R947A(M)	R947B-1(M)	R947B-2(M)	R947C(M)
R947C(W)	R947D(M)	R949A(M)	R949B(M)	R949C(M)	R2119A	R2119B	R2119C
R665C(M)	R665D(M)	R665E(M)	R665F(M)	R667B(M)	R667C-1(M)	R667C-2(M)	R667D(M)
R667E(M)	R667F(M)	R667G(M)	R669A(M)	R669B(M)	R669C(M)	R669D(M)	R669E(M)
R671A(M)	R671B(M)	R671C(M)	R671D(M)	R671E(M)	R673B(M)	R673C(M)	R673D(M)
R675B(M)	R675C(M)	R675D(M)	R682A(M)	R682B(M)	R682C(M)	R682D(M)	R682D(C)

/Address 20-2F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R682E(M)	R682E(C)	R682F(M)	R684A(M)	R684B(M)	R684C(M)	R684D(M)	R684D(C)
R684E(M)	R684E(C)	R684F(M)	R686A(M)	R686B-1(M)	R686B-2(M)	R686C-1(M)	R686C-2(M)
R686D(M)	R786(M)	R786(C)	R788(M)	R788(C)	R790	R871	R873
R874A(M)	R874B(M)	R874C(M)	R874D(M)	R874E(M)	R876A(M)	R876B(M)	R876C(M)
R876D(M)	R876E(M)	R878A(M)	R878B(M)	R878C(M)	R878D(M)	R878E(M)	R880A(M)
R880B(M)	R882	R954A(M)	R954A(W)	R954B(M)	R954C(M)	R954D(M)	R956A(M)
R956B(M)	R956C(M)	R956D(M)	R665A(S)	R665B(S)	R667A(S)	R673A(S)	R675A(S)
R880C(S)	R2126A	R2126B	R691A(M)	R691B(M)	R691C(M)	R693A(M)	R693B(M)
R693C(M)	R695A(M)	R695B(M)	R695C(M)	R697A(M)	R697B(M)	R697C(M)	R702A(M)
R702B(M)	R702C(M)	R702D(M)	R703	R704A(M)	R704B(M)	R704C(M)	R704D(M)
R705A(M)	R705B(S)	R706A(M)	R706B(M)	R706C(M)	R706D(M)	R708A(M)	R708A(C)
R708B(M)	R709	R712	R727A	R727B	R729A	R729B	R732A
R732B	R734A	R734B	R2131A	R2131B	R2136	R751(M)	R751(W)
R755A(S)	R755B(M)	R755C(M)	R755D(M)	R755E(M)	R755F(M)	R755G(M)	R755H(M)
R755J(M)	R755K(M)	R757A(S)	R757B(M)	R757C(M)	R757D(M)	R757E(M)	R757F(S)
R757G(M)	R757H(M)	R757J(M)	R757K(M)	R757L(M)	R757M(M)	R792	R794A

/Address 30-3F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R794B	R796A(M)	R796B(M)	R796C(S)	R798A(M)	R798B(M)	R798C(S)	R804A(M)

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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R804B(M)	R804C(S)	R808A(S)	R808B(M)	R808C(M)	R808D(S)	R814A(S)	R814B(M)
R814C(M)	R814D(S)	R816A(S)	R816B(M)	R816C(M)	R816D(S)	R818A(S)	R818B(M)
R818C(M)	R818D(S)	R2146	R2147	R2151A	R2151B	R2151C	R2151D
R2151E	R2153A	R2153B	R2153C	R2153D	R2153E	R2153F	R2153G
R2153H	R2153J	R2153K	R2155	R2150	R2154	R2156	R2152A
R2152B	R2157A	R2157B	R2157C	R2157D	R2157E	R2157F	R2157G
R2157H	R2157J	R2157K	R2159A	R2159B	R757N(M)	R2159C	R2159D
R2159E	R2159F	R759A(S)	R759B(M)	R759B(S)	R759C(M)	R759C(C)	R759D(M)
R759D(C)	R759E(M)	R759E(C)	R808E-1(M)	R808E-2(M)	R814E-1(M)	R814E-2(M)	R816E-1(M)
R816E-2(M)	R818E-1(M)	R818E-2(M)	R795A(S)	R795B-1(M)	R795B-2(M)	R795C(M)	R795D(S)
R795E(S)	R797A(S)	R797B-1(M)	R797B-2(M)	R797C(M)	R797D(S)	R797E(S)	R799A(S)
R799B-1(M)	R799B-2(M)	R799C(M)	R799D(S)	R799E(S)	R803A(S)	R803B-1(M)	R803B-2(M)
R803C(M)	R803D(S)	R803E(S)	R807A(S)	R807B(S)	R807C(S)	R807D(M)	R807E(M)
R809A(S)	R809B(S)	R809C(S)	R809D(M)	R809E(M)	R813A(S)	R813B(S)	R813C(S)
R813D(M)	R813E(M)	R2158A	R2158B	R2158C	R2160A	R2160B	R2160C

/Address 40-4F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R2160D	R2160E	R2160F	R2160G	R2160H	R2160J	R2161	R2162A
R2162B	R2162C	R2162D	R2162E	R2162F	R2162G	R2162H	R2162J
R2163	R2164A	R2164B	R2164C	R2164D	R2164E	R2164F	R2164G
R2164H	R2164J	R2165	R2167A	R2167B-1	R2167B-2	R2167C	R2167D
R2167E	R2171A	R2171B-1	R2171B-2	R2171C	R2171D	R2171E	R791
R821A	R821B	R823	R830A(M)	R830B(M)	R830C(M)	R830D(M)	R830D(C)
R830E(M)	R830E(C)	R830F(S)	R830G(M)	R830H(M)	R830J(M)	R830K(M)	R832A(M)
R832B(M)	R832C(M)	R832C(C)	R832D(M)	R832D(C)	R832E-1(S)	R832E-2(S)	R832F-1(M)
R832F-2(M)	R832G-1(M)	R832G-2(M)	R832H-1(M)	R832H-2(M)	R832J-1(M)	R832J-2(M)	R2166
R2168	R760	R762A	R762B	R909A	R909B	R911A	R911B
R914A	R914B	R916A	R916B	R918	S595	S597	S599
S615	S616	S617	S618	S619	S620	S621	S622
S623	S624	S625	S626	S627	S628	S629	S630
S631	S632	S633	S634	S635	S636	S637	S638
S639	S640	S641	S642	S643	S644	S645	S646
S601	S602	S603	S604	S605	S606	S607	S608

/Address 50-5F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
S609X	S610	S611	S612	S613	S614X	S647X	S649
S650	S651X	S652	S658	S659	S660	S661	S664
S666	S668	S677	S679	S680	S681	S780	S782

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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
S787	S789	S892	S891	S2113	S2121	S2123	S2128
S2130	S2132	S2134	S653	S655	S663	S670	S672
S674	S676	S678	S781	S783	S849	S850	S851
S852	S853	S854	S855	S856	S857	S858	S947
S949	S662X	S2119	S665	S667	S669	S671	S673
S675	S682	S684	S686	S786	S788	S790	S871
S873	S874	S876	S878	S880	S882	S954	S956
S875	S2126	S691	S693	S695	S697	S702	S703
S704	S705	S706	S708	S709	S712	S727	S729
S732	S734	S701	S707	S710	S711	S713	S714
S715	S716	S717	S718	S719	S720	S721	S722
S723	S724	S725	S726	S728	S730	S731	S733
S735	S736	S737	S738	S739	S740	S741	S742

/Address 60-6F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
S2131	S2136	S751	S755	S757	S792	S794	S796
S798	S804	S808	S814	S816	S818	S743	S744
S745	S746	S747	S748	S749	S750	S752	S753
S754	S756	S758	S2146	S2147	S2150	S2151	S2152
S2153	S2154	S2155	S2156	S2157	S2159	S759	S795
S797	S799	S803	S807	S809	S813	S2158	S2160
S2161	S2162	S2163	S2164	S2165	S2167	S2171	S791
S821	S823	S830	S832	S793	S822	S824	S2166
S2168	S760	S762	S909	S911	S914	S916	S918
S761	S763	S901	S902	S903	S904	S908	S906
S920	S917	S913	S910	S912	S905	S907	-
L650TRS	L664TRS	L666TRS	L677TRS	L679TRS	L2113TRS	L2128TRS	L2132TRS
L2134TRS	L672TRS	L674TRS	L676TRS	L678TRS	L665TRS	L667TRS	L669TRS
L671TRS	L871TRS	L878TRS	L796TRS	L798TRS	L804TRS	L808TRS	L814TRS
L816TRS	L818TRS	L2146TRS	L2147TRS	L2150TRS	L2155TRS	L795TRS	L799TRS
L803TRS	L807TRS	L809TRS	-	-	L2171TRS	-	-

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/Address 70-7F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
-	-	L797TRS	-	L813TRS	L2162TRS	L2160TRS	RET1164A
RET1164B	RET1151	RET1092	RET1050A	RET1050B	RET1050E	RET1050F	RET1050G
RET1050H	RET1050J	RET1050K	RET1050L	RET1050M	RET1049A	RET1049B	RET1049C
RET1049Z	RET1049D	RET1008B	RET1008C	RET1008D	RET1008E	RET1008F	RET1008G
RET1008H	RET1008J	RET1008K	RET0976A	RET0976B	RET0976C	RET0976D	RET0976E
RET0977A	RET0977B	RET0977C	RET0977D	RET0112A	RET0112C	LSSIV1FOAC	LSSPV1FOAC
LSSIV2FOCC	LSSPV2FOCC	L795SS	L797SS	L799SS	L803SS	L807SS	L809SS
L813SS	RET1050C	RET1050D	RAF249AM	RAF249AA	LAF421ER	LAF-DNCUARR	LAF-DNCDARR
LAF-UNYUARR	LAF-UNYDARR	RAF251AM	RAF251AA	RAF253AM	RAF253AA	RAF253BM	RAF253BA
RAF261AM	RAF261AA	RAF261BM	RAF261BA	RAF263AM	RAF263AA	RAF269AM	RAF269AA
LAF431ER	LAF433ER	LAF-DCLUARR	LAF-DCLDARR	LAF-UCNUARR	LAF-UCNDARR	RAF271AM	RAF271AA
RAF271BM	RAF271BA	RAF273AM	RAF273AA	RAF275AM	RAF275AA	RAF275BM	RAF275BA
RAF277AM	RAF277AA	RAF277BM	RAF277BA	RAF283AM	RAF283AA	RAF285AM	RAF285AA
RAF289AM	RAF289AA	RAF291AM	RAF291AA	RAF295AM	RAF295AA	RAF295BM	RAF295BA
RAF297AM	RAF297AA	RAF297BM	RAF297BA	RAF297CA	RAF299AM	RAF299AA	LAF-DLFWUARR
LAF-DLFDWARR	LAF-ULCUARR	LAF-ULCDARR	RAF301AM	RAF301AA	RAF301BM	RAF301BA	RAF303AM

/Address 80-8F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
RAF303AA	RAF303BM	RAF303BA	LAF451ER	LAF455ER	LAF461ER	LAF463ER	LAF453ER
LAF-UFWLUARR	LAF-UFWLDARR	LAF-DFWUARR	LAF-DFWFDARR	LAF-UFFWUARR	LAF-UFFWDARR	LAF-DFWFEUARR	LAF-DFWFEDARR
RAF325AM	RAF325AA	RAF327AM	RAF327AA	RAF323AM	RAF323AA	RAF329AM	RAF329AA
RAF328AM	RAF328AA	RAF328BM	RAF328BA	RAF326AM	RAF326AA	RAF326BM	RAF326BA
LAF313ER	LAF464ER	LAF458ER	LAF454ER	LAF460ER	LAF452ER	LAF462ER	LAF319ER
LAF-DFFEUARR	LAF-DFFDARR	LAF-UFEFWUARR	LAF-UFEFWDARR	LAF-UFEFUARR	LAF-UFEFDARR	LAF-DFEWWARR	LAF-DFEWDARR

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS</b> <b>SUBSYSTEM SPECIFICATION</b>
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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
RAF331AM	RAF331AA	RAF331BM	RAF331BA	RAF335AM	RAF335AA	RAF335BM	RAF335BA
RAF361AM	RAF361AA	RAF333AM	RAF333AA	RAF333BM	RAF333BA	RAF337AM	RAF337AA
RAF337BM	RAF337BA	RAF336AM	RAF336AA	RAF336BM	RAF336BA	RAF344AM	RAF344AA
RAF332AM	RAF332AA	RAF334AM	RAF334AA	RAF334BM	RAF334BA	RAF340AM	RAF340AA
RAF342AM	RAF342BM	RAF367AM	RAF367AA	RAF593AS	RAF593AA	LAF471ER	LAF481ER
LAF-UWFEUARR	LAF-UWFEDARR	LAF-DWTUARR	LAF-DWTDARR	RAF342AA	RAF342BA	RAF365AA	RAF365BA
RAF366AM	RAF366AA	RAF366BM	RAF366BA	RAF363AM	RAF363AA	RAF365AM	RAF365BM
RAF365BS	RAF364AM	RAF364AA	RAF362AM	RAF362AA	RAF362AS	RAF362BM	RAF362BA
RAF362BS	LAF484ER	LAF482ER	LAF-DTETUARR	LAF-DTETDARR	LAF-DTTUARR	LAF-DTTDARR	LAF-UTTUARR
LAF-UTTDARR	LAF-UETTUARR	LAF-UETTDARR	RK90	RK93	RY3	RY21	L795ERS

/Address 90-98

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
L796ERS	L797ERS	L798ERS	L799ERS	L803ERS	L804ERS	L807ERS	L808ERS
L809ERS	L813ERS	L814ERS	L816ERS	L818ERS	LR665D-REQ	LR665E-REQ	LR667C-REQ
LR667D-REQ	LR669A-REQ	LR669B-REQ	LR671A-REQ	LR671B-REQ	LR672F-REQ	LR672G-REQ	LR674F-REQ
LR674G-REQ	LR676F-REQ	LR676G-REQ	LR678F-REQ	LR678G-REQ	LR795B-REQ	LR795C-REQ	LR797B-REQ
LR797C-REQ	LR799B-REQ	LR799C-REQ	LR803B-REQ	LR803C-REQ	LR807D-REQ	LR807E-REQ	LR808E-1(M)-REQ
LR808E-2(M)-REQ	LR809D-REQ	LR809E-REQ	LR813D-REQ	LR813E-REQ	LR814E-1(M)-REQ	LR814E-2(M)-REQ	LR816E-1(M)-REQ
LR816E-2(M)-REQ	LR818E-1(M)-REQ	LR818E-2(M)-REQ	LR821A-REQ	LR821B-REQ	LR823-REQ	LDM-BABBARR	LDM-BEUPARR
LDM-BEBFARR	LUM-BABBARR	LUM-BEBFARR	LUM-BEUPARR(1)	TNLF	RBLF	BPLF	HSLF
RYLF	LUM-BFBEARR	LDM-BFBEARR	LDM-BFBHARR	RV319	RV321A	-	-

### 3.5 Link Status

Changes in the status of the remote links will be sent to DIS1 and DIS2.

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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## 4 ECS LINK TO FRONT END TRAIN DESCRIBER (FET3)

### 4.1 Overview

This ECS remote system link operates from port 2. It is a link to FET3 with **TD** type initialisation.

### 4.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	2	Baud Rate	9600
Physical Name	P2	Time-Out Period (secs)	2
Area	FET3	Message Retry Count	3
Protocol	BR1810	Message Retry Field Flag	Set

### 4.3 Berths

Changes in the contents of the following berths will be transmitted by ECS to the FET3:

0597	0599	0601	0602	0603	0604	0605	0606
0607	0608	0610	0611	0612	0613	614X	0615
0616	0617	0618	0619	0620	0621	0622	0623
0624	0625	0626	0627	0628	0629	0630	0631
0632	0633	0634	0635	0636	0637	0638	0639
0640	0641	0642	0643	0644	0645	0646	0649
0650	0652	0653	0655	0658	0659	0660	0661
662X	0663	0664	0665	0666	0667	0668	0669
0670	0671	0672	0673	0674	0675	0676	0677
0678	0679	0680	0681	0682	0684	0686	0691
0693	0695	0697	0701	0702	0703	0704	0705
0706	0707	0708	0709	0710	0711	0712	0713
0714	0715	0716	0717	0718	0719	0720	0721
0722	0723	0724	0725	0726	0727	0728	0729
0730	0731	0732	0733	0734	0735	0736	0737
0738	0739	0740	0741	0742	0743	0744	0745
0746	0747	0748	0749	0750	0751	0752	0753
0754	0755	0756	0757	0758	0759	0760	0761
0762	0763	0780	0781	0782	0783	0786	0787
0788	0789	0790	0791	0792	0793	0794	0795
0796	0797	0798	0799	0803	0804	0807	0808
0809	0813	0814	0816	0818	0821	0822	0823
0824	0830	0832	0850	0851	0852	0853	0854
0855	0856	0857	0858	0871	0873	0874	0875
0876	0878	0880	0882	0891	0892	0901	0902
0903	0904	0905	0906	0907	0908	0909	0910
0911	0912	0913	0914	0915	0916	0918	0947
0949	0954	0956	2113	2128	2130	2132	2134
2136	2146	2147	2150	2151	2152	2153	2154
2155	2156	2160	2161	2162	2163	2164	2165
2166	2167	2168	2171	362C	364C	366C	453C
455C	462C	464C	471C	647X	651X	K010	M004
M011	M014	M019	M021	M023	M025	M036	MF37
MR37	M039	M041	M045	M151	M152	M153	M157
M160	M161	M162	M163	M164	M165	M166	M167

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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M168	M169	M170	M171	M172	M189	M191	M192
M193	M194	M195	M196	M197	M198	M199	M200
M201	M204	M205	M206	M210	M211	M212	M213
M214	M215	M216	M217	M218	M223	M224	M226
M227	M228	M229	M231	M341	M344	M345	M347
R128	R130	R790	Y002	Y003	Y021	SDG1	SDG2
SDG3	SDG4	SDG5	SDG6	SPR1	SPR2	SPUR	THRU
609X	0595	0598	2119	2121	2123	2126	2131
2157	2158	2159	X200				

Changes in the contents of the following berths will be received by ECS from the FET3:

*/Chart Leacon Depot*

0650	0661	2113
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*/Folkestone*

0918	K010	K018	K022	K028	K090	K024
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*/Canterbury (CWACC)*

0882	Y002	Y003	Y021
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*/Maidstone East*

VATL	TETD	RBTD	BPTD	HSTD	RYTD	M151
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## 4.4 Signalling Items

Changes on the status of the following signalling items will be transmitted by the ECS to the FET3:

*/Address 00-03*

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R650	R658A(S)	R658B(M)	R658C(M)	R660A(S)	R660B(M)	R660C(M)	R661A(M)
R661B(M)	R661C(M)	R661D(M)	R661E(M)	R665C(M)	R667B(M)	R673B(M)	R675B(M)
R871	R873	R909A	R911A	R2113	R2126A	R2126B	L650TRS
L2113TRS	TNLF	RBLF	BPLF	HSLF	RYLF	-	-

Note: As IECC B ECS is only connected to FET3, this design is based upon the assumption that any information required being either received from or transmitted to external systems connected to FET1 or FET2, the processing will be undertaken by FET3.

Changes on the status of the following signalling items will be received by the ECS from the FET3:

*/Address 00*

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
RK90	RK93	-	-	-	RY3	RY21	-

## 4.5 Link Status

Changes in the status of remote links will be sent to DIS1 and DIS2.

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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## 5 ECS LINK TO DOLLANDS MOOR

### 5.1 Overview

This ECS remote system link operates from port 3. It is a link to the Dollands Moor TD with **RECALL** type initialisation.

### 5.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	3	Baud Rate	1200
Physical Name	P3	Time-Out Period (secs)	2
Area	DOLL	Message Retry Count	3
Protocol	BR1810	Message Retry Field Flag	Unset

### 5.3 Berths

Changes in the contents of the following berths will be transmitted by ECS to the Dollands Moor TD:

0715	0717	0719	0721	0723	0725	0727	0729
0731	0733	0735	0737	0739	0741	0743	0745
0747	0749	0751	0753	0755	0756	0757	0758
0759	0791	0792	0793	0794	0795	0796	0797
0798	0799	0803	0804	0807	0808	0809	0813
0814	0816	0818	0821	0822	0823	0824	0830
0832	2146	2147	2150	2151	2152	2153	2154
2155	2156	2160	2161	2162	2163	2164	2165
2166	2167	2168	2171	362C	364C	366C	471C
S101	S102	S103	S201	S202	S203	S301	S302
S303	S401	S402	S403	EA06	EA08	EA10	EA11
EA12	EA13	EA14	EA15	EA16	EA17	EA18	EA19
EA20	EA21	EA22	EA23	EA25	EA27	EA29	ET04
ET05	ET06	ET07	ET08	ET09	ET10	ET11	ET12
ET13	ET14	ET15	ET16	ET17	ET18	ET19	ET20
ET21	ET22	ET23	ET25	ET27	ET29	ET50	FCA1
SDG1	SDG2	SDG3	SDG4	SDG5	SDG6	SPR1	SPR2
SPUR	THRU						

Changes in the contents of the following berths will be received by ECS from the Dollands Moor TD:

0795	0796	0797	0798	0799	0803	0804	0807
0808	0809	0813	0814	0816	0818	2146	2147
2150	2151	2152	2153	2154	2155	2156	2160
2161	2162	2163	2164	2165	2167	2171	SDG1
SDG2	SDG3	SDG4	SDG5	SDG6	SPR1	SPR2	SPUR
THRU							

### 5.4 Signalling Items

Changes on the status of the following signalling items will be transmitted by the ECS to the Dollands Moor TD:

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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/Address 00-0F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R727A	R727B	R729A	R729B	R751 *	R755A(S)	R755B(M)	R755C(M)
R755D(M)	R755E(M)	R755F(M)	R755G(M)	R755H(M)	R755J(M)	R757A(S)	R757B(M)
R757C(M)	R757D(M)	R757E(M)	R757F(S)	R757G(M)	R757H(M)	R757J(M)	R757K(M)
R791	-	R792	-	-	R794A	R794B	R795A(S)
R795B *	R795C(M)	R795D(S)	R795E(S)	R796A(M)	R796B(M)	R796C(S)	R797A(S)
R797B *	R797C(M)	R797D(S)	R797E(S)	R798A(M)	R798B(M)	R798C(S)	R799A(S)
R799B *	R799C(M)	R799D(S)	R799E(S)	R803A(S)	R803B *	R803C(M)	R803D(S)
R803E(S)	R804A(M)	R804B(M)	R804C(S)	R807A(S)	R807B(S)	R807C(S)	R807D(M)
R807E(M)	R808A(S)	R808B(M)	R808C(M)	R808D(S)	R809A(S)	R809B(S)	R809C(S)
R809D(M)	R809E(M)	R813A(S)	R813B(S)	R813C(S)	R813D(M)	R813E(M)	R814A(S)
R814B(M)	R814C(M)	R814D(S)	R816A(S)	R816B(M)	R816C(M)	R816D(S)	R818A(S)
R818B(M)	R818C(M)	R818D(S)	R821A	R821B	-	R823	-
-	-	R830A(M)	R830B(M)	R830C(M)	R830D *	R830E *	R830F(S)
R830G(M)	R830H(M)	R830J(M)	R830K(M)	R832A(M)	R832B(M)	R832C *	R832D *
R832E *	R832F *	R832G *	R832H *	R832J *	-	-	-
-	-	-	-	-	-	-	-

/Address 10-1F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
-	-	R2150	R2151A	R2151B	R2151C	R2151D	R2151E
R2152A	R2152B	R2153A	R2153B	R2153C	R2153D	R2153E	R2153F
R2153G	R2153H	R2153J	R2153K	R2154	R2155	R2156	R2157A
R2157B	R2157C	R2157D	R2157E	R2157F	R2157G	R2157H	R2157J
R2158A	R2158B	R2158C	R2160A	R2160B	R2160C	R2160D	R2160E
R2160F	R2160G	R2160H	R2160J	R2161	R2162A	R2162B	R2162C
R2162D	R2162E	R2162F	R2162G	R2162H	R2162J	R2163	R2164A
R2164B	R2164C	R2164D	R2164E	R2164F	R2164G	R2164H	R2164J
R2165	-	R2167B *	R2167C	R2167D	R2167E	-	R2171B *
R2171C	R2171D	R2171E	RET0976A	RET0976B	RET0976C	RET0976D	RET0976E
RET0977A	RET0977B	RET0977C	RET0977D	RET1049A	RET1049B	RET1049C	RET1049D
RET1049E *	-	RET1050A	RET1050B	RET1050C	RET1050D	RET1050E	RET1050F
RET1050G	RET1050H	RET1050J	RET1050K	RET1092	RET1151	RET1164A	RET1164B
RET0112A	RAF364A *	RET0112C	L795SS	L797SS	L799SS	L803SS	L807SS
L809SS	L813SS	R755K(M)	R757L(M)	R757M(M)	R757N(M)	R759A(S)	R759B *
R759C *	R759D *	R759E *	R808E *	R814E *	R816E *	R818E *	-

/Address 20-2F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
L795ERS	L796ERS	L797ERS	L798ERS	L799ERS	L803ERS	L804ERS	L807ERS
L808ERS	L809ERS	L813ERS	L814ERS	L816ERS	L818ERS	L795TRS	L796TRS
L797TRS	L798TRS	L799TRS	L803TRS	L804TRS	L807TRS	L808TRS	L809TRS
L813TRS	L814TRS	L816TRS	L818TRS	L2150TRS	L2155TRS	L2160TRS	L2162TRS
L2171TRS	R2146	R2147	R2159A	R2159B	R2157K	R2159C	R2159D
R2159E	R2159F	R2166	R2168	RAF362A *	RAF362B *	RAF366A *	RAF366B *
RAF335A *	RAF335B *	RAF337A *	RAF337B *	RAF593A *	-	-	-

\* Denotes a meshed identity.

Changes on the status of the following signalling items will be received by the ECS from the Dollands Moor TD:

*None*

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS</b> <b>SUBSYSTEM SPECIFICATION</b>
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### 5.4.1 Meshed Items

A number of the above identities have been ‘meshed’ together and are transmitted as the meshed identity.

Meshed Identity Name	Inputs in the ‘meshed’ identity								
	Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8	Input 9
RAF335A	RAF335AM	RAF335AA							
RAF335B	RAF335BM	RAF335BA							
RAF337A	RAF337AM	RAF337AA							
RAF337B	RAF337BM	RAF337BA							
RAF362A	RAF362AM	RAF362AA	RAF362AS						
RAF362B	RAF362BM	RAF362BA	RAF362BS						
RAF364A	RAF364AM	RAF364AA							
RAF366A	RAF366AM	RAF366AA							
RAF366B	RAF366BM	RAF366BA							
RAF593A	RAF593AS	RAF593AA							
RET1049E	RET1008B	RET1008C	RET1008D	RET1008E	RET1008F	RET1008G	RET1008H	RET1008J	RET1008K
R2167B	R2167B-1	R2167B-2							
R2171B	R2171B-1	R2171B-2							
R751	R751(M)	R751(W)							
R759B	R759B(M)	R759B(S)							
R759C	R759C(M)	R759C(C)							
R759D	R759D(M)	R759D(C)							
R759E	R759E(M)	R759E(C)							
R795B	R795B-1(M)	R795B-2(M)							
R797B	R797B-1(M)	R797B-2(M)							

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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Meshed Identity Name	Inputs in the 'meshed' identity								
	Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8	Input 9
R799B	R799B-1(M)	R799B-2(M)							
R803B	R803B-1(M)	R803B-2(M)							
R808E	R808E-1(M)	R808E-2(M)							
R814E	R814E-1(M)	R814E-2(M)							
R816E	R816E-1(M)	R816E-2(M)							
R818E	R818E-1(M)	R818E-2(M)							
R830D	R830D(M)	R830D(C)							
R830E	R830E(M)	R830E(C)							
R832C	R832C(M)	R832C(C)							
R832D	R832D(M)	R832D(C)							
R832E	R832E-1(S)	R832E-2(S)							
R832F	R832F-1(M)	R832F-2(M)							
R832G	R832G-1(M)	R832G-2(M)							
R832H	R832H-1(M)	R832H-2(M)							
R832J	R832J-1(M)	R832J-2(M)							

## 5.5 Link Status

Changes in the status of remote links will be sent to DIS1 and DIS2.

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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## 6 ECS LINK TO MAIDSTONE EAST

### 6.1 Overview

This ECS remote system link operates from ports 4 and 10. It is a link to the Maidstone East TD with **RECALL** type initialisation.

### 6.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	4, 10	Baud Rate	1200
Physical Name	P4	Time-Out Period (secs)	2
Area	MSTA	Message Retry Count	3
Protocol	BR1810	Message Retry Field Flag	Unset

### 6.3 Berths

Changes in the contents of the following berths will be transmitted by the ECS to the Maidstone East TD:

0663	0664	0666	0668	0670	0672	0674	0676
0678	0850	0851	0852	0854	0856	0858	M224
V319	V321	V335	V337	V338	VATL	TETD	RBTD
BPTD	HSTD	RYTD	M151				

Changes in the contents of the following berths will be received by ECS from the Maidstone East TD:

0851	M004	M011	M014	M019	M021	M023	M025
M036	MF37	MR37	M039	M041	M045	M151	M152
M153	M157	M160	M161	M162	M163	M164	M165
M166	M167	M168	M169	M170	M171	M172	M189
M191	M192	M193	M194	M195	M196	M197	M198
M199	M200	M201	M204	M205	M206	M210	M211
M212	M213	M214	M215	M216	M217	M218	M223
M224	M226	M227	M228	M229	M231	M341	M344
M345	M347	V338					

### 6.4 Signalling Items

Changes on the status of the following signalling items will be transmitted by the ECS to the Maidstone East TD:

/Address 00-0E

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	RV319	RV321A	-
-	R664D(M)	R666D *	R668C(M)	R670C(M)	R672C(M)	R672D(M)	R674C(M)
R674D(M)	R674E(M)	R676C(M)	R676D(M)	R676E(M)	R678C(M)	R678D(M)	R678E(M)
R851A(M)	R851B(M)	R851C(M)	R852	R854	R856	R2119A	R2119B
R2119C	R664E(M)	R666E(M)	R668D(M)	R670D(M)	R672E(M)	R676H(M)	R678H(M)
R858	-	-	-	-	-	-	-

\* Denotes a meshed identity.

Changes on the status of the following signalling items will be received by the ECS from the Maidstone East TD:

/Address 00

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
TNLF	RBLF	BPLF	HSLF	RYLF	-	-	-

#### 6.4.1 Meshed Items

A number of the above identities have been 'meshed' together and are transmitted as the meshed identity.

Meshed Identity Name	Routes in the 'meshed' identity			
	Route 1	Route 2	Route 3	Route 4
R666D	R666D-1(M)	R666D-2(M)		

### 6.5 Link Status

Changes in the status of remote links will be sent to DIS1 and DIS2.

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS</b> <b>SUBSYSTEM SPECIFICATION</b>
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## 7 ECS LINK TO RCCS (CTRL)

### 7.1 Overview

This ECS remote system link operates from ports 5 and 11. It is a link to RCCS (CTRL) TD with **RECALL** type initialisation.

### 7.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	5,11	Baud Rate	19200
Physical Name	P5	Time-Out Period (secs)	2
Area	CTRL	Message Retry Count	3
Protocol	BR1810	Message Retry Field Flag	Unset

### 7.3 Berths

Changes in the contents of the following berths will be transmitted by ECS to RCCS (CTRL):

0630	0635	0637	0639	0641	0643	0645	0649
0653	0655	0659	0663	0665	0667	0669	0671
0672	0674	0676	0678	0682	0684	0686	0702
0704	0706	0708	0710	0712	0714	0716	0718
0720	0722	0731	0733	0735	0737	0739	0741
0743	0745	0747	0749	0751	0753	0755	0756
0757	0758	0759	0781	0783	0786	0788	0791
0793	0795	0797	0799	0803	0807	0808	0809
0813	0814	0816	0818	0821	0822	0823	0824
0830	0832	0851	0853	0855	0857	0874	0876
0880	0882	0947	0949	0954	0956	2167	2171
312C	313C	318C	319C	342C	363C	365C	647X
651X	M217	M223	SDG1	SDG2	SDG3	SDG4	SDG5
SDG6	THRU	Y002		A223	A595	A615	A616
A629	A630	A643	A644	A665	A669	A707	A709
A719	A721	A744	A746	A752	A754	A756	A758
A163	A170	A204	A205	A214	A215	A590	

All berths transmitted to RCCS (CTRL) TD use 4-character berth names as used within the IECC system.

e.g. 0630 is transmitted as 0630

Berths that do not follow this standard are listed below with the value on the right within the brackets being the transmitted identity.

*None*

Changes in the contents of the following berths will be received by ECS from RCCS (CTRL):

/CTRL

0759	0830	0832	0947	0949	0954	0956	249C
251C	253C	261C	263C	269C	271C	273C	275C
277C	281C	283C	285C	289C	291C	295C	297C

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299C	299D		301C	301D	301E		303C
303D	303E		312C	313C	318C	319C	323C
325C	326C	326D	326E		327C	328C	328D
	329C	331C	332C	332D		333C	334C
335C	336C	337C	340C	342C	344C	361C	362C
363C	364C	365C	366C	421C	431C	433C	451C
451D	452C	452D	453C	453D	454C	455C	455D
458C	460C	461C	462C	462D	463C	464C	464D
471C	481C	482C	484C	571C	591C	592C	593C

*/Berths transferred from Euro section*

EA06	EA08	EA10	EA11	EA12	EA13	EA14	EA15
EA16	EA17	EA18	EA19	EA20	EA21	EA22	EA23
EA25	EA27	EA29	ET04	ET05	ET06	ET07	ET08
ET09	ET10	ET11	ET12	ET13	ET14	ET15	ET16
ET17	ET18	ET19	ET20	ET21	ET22	ET23	ET25
ET27	ET29	ET30	ET31	ET40	ET41	ET50	ET99
S101	S102	S103	S201	S202	S203	S301	S302
S303	S401	S402	S403				



## 7.4 Signalling Items

Changes on the status of the following signalling items will be transmitted by the ECS to RCCS (CTRL):

/Address 00-0F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R647X	R649AM	R649BM	R649CM	R651X	R653AM	R653B	R653C
R655AM	R655B	R655C	R659AM	R659B	R659C	R663AM	R663BM
LR665D-REQ	LR665E-REQ	LR667C-REQ	LR667D-REQ	LR669A-REQ	LR669B-REQ	LR671A-REQ	LR671B-REQ
LR672F-REQ	LR672G-REQ	LR674F-REQ	LR674G-REQ	LR676F-REQ	LR676G-REQ	LR678F-REQ	LR678G-REQ
R682D	R682E	R682FM	R684D	R684E	R684FM	R686AM	R686B
R686C	R686DM	R702BM	R702CM	R702DM	R704BM	R704CM	R704DM
R706BM	R706CM	R706DM	R708A	R708BM	R712	R751	R755AS
R755BM	R755CM	R755DM	R755EM	R755FM	R755GM	R755HM	R755JM
R755KM	R757AS	R757BM	R757CM	R757DM	R757EM	R757FS	R757GM
R757HM	R757JM	R757KM	R757LM	R759AS	R759B	R759C	R759D
R759E	R781	R783A	R783B	R786	R788	R791	LR795B-REQ
LR795C-REQ	LR797B-REQ	LR797C-REQ	LR799B-REQ	LR799C-REQ	LR803B-REQ	LR803C-REQ	LR807D-REQ
LR807E-REQ	LR808E-1(M)-REQ	LR808E-2(M)-REQ	LR809D-REQ	LR809E-REQ	LR813D-REQ	LR813E-REQ	LR814E-1(M)-REQ
LR814E-2(M)-REQ	LR816E-1(M)-REQ	LR816E-2(M)-REQ	LR818E-1(M)-REQ	LR818E-2(M)-REQ	LR821A-REQ	LR821B-REQ	LR823-REQ
R830AM	R830BM	R830CM	R830D	R830E	R830FS	R830GM	R830HM
R830JM	R830KM	R832AM	R832BM	R832C	R832D	R832ES	R832F

/Address 10-1A

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R832G	R832H	R832J	R851AM	R851BM	R851CM	R853AM	R853B
R853C	R857AM	R857B	R857C	R874DM	R874EM	R876DM	R876EM

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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R878DM	R878EM	R880AM	R880BM	R882	R947AM	R947B	R947C
R947DM	R949AM	R949BM	R949CM	R954A	R954BM	R954CM	R954DM
R956AM	R956BM	R956CM	R956DM	R2167B	R2167C	R2171B	R2171C
-	-	-	RY21	S635	S637	S639	S641
S643	S645	S710	S714	S716	S718	S720	S722
S731	S733	S735	S737	S739	S741	S743	S745
S747	S749	S753	S793	LDM-BABBARR	LDM-BEUPARR	LDM-BEBFARR	LUM-BABBARR
LUM-BEBFARR	LUM- BEUPARR(1)	L795TRS	L797TRS	L799TRS	L803TRS	L807TRS	L808TRS
L809TRS	L813TRS	L814TRS	L816TRS	L818TRS	L2171TRS	R855	-

Changes on the status of the following signalling items will be received by the ECS from RCCS (CTRL):

/Address 00-0F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
RET1164A	RET1164B	RET1151	RET1092	RET1050A	RET1050B	RET1050E	RET1050F
RET1050G	RET1050H	RET1050J	RET1050K	RET1050L	RET1050M	RET1049A	RET1049B
RET1049C	RET1049Z	RET1049D	RET1008B	RET1008C	RET1008D	RET1008E	RET1008F
RET1008G	RET1008H	RET1008J	RET1008K	RET0976A	RET0976B	RET0976C	RET0976D
RET0976E	RET0977A	RET0977B	RET0977C	RET0977D	RET0112A	RET0112C	LSSIV1FOAC
LSSPV1FOAC	LSSIV2FOCC	LSSPV2FOCC	-	-	-	-	-
L795SS	L797SS	L799SS	L803SS	L807SS	L809SS	L813SS	-
RET1050C	RET1050D	-	-	-	-	-	-
-	-	-	-	-	-	-	-
RAF249AM	RAF249AA	LAF421ER	-	LAF-DNCUARR	LAF-DNCDARR	LAF-UNYUARR	LAF-UNYDARR
-	-	-	-	-	-	-	-

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
RAF251AM	RAF251AA	RAF253AM	RAF253AA	RAF253BM	RAF253BA	RAF261AM	RAF261AA
RAF261BM	RAF261BA	RAF263AM	RAF263AA	RAF269AM	RAF269AA	-	LAF431ER
LAF433ER	-	LAF-DCLUARR	LAF-DCLDARR	LAF-UCNUARR	LAF-UCNDARR	-	-
-	-	-	-	-	-	-	-
RAF271AM	RAF271AA	RAF271BM	RAF271BA	RAF273AM	RAF273AA	RAF275AM	RAF275AA

/Address 10-1F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
RAF275BM	RAF275BA	RAF277AM	RAF277AA	RAF277BM	RAF277BA	RAF283AM	RAF283AA
RAF285AM	RAF285AA	RAF289AM	RAF289AA	RAF291AM	RAF291AA	RAF295AM	RAF295AA
RAF295BM	RAF295BA	RAF297AM	RAF297AA	RAF297BM	RAF297BA	RAF297CA	RAF299AM
RAF299AA	-	-	LAF-DLFWUARR	LAF-DLFDWARR	LAF-ULCUARR	LAF-ULCDARR	-
RAF301AM	RAF301AA	RAF301BM	RAF301BA	RAF303AM	RAF303AA	RAF303BM	RAF303BA
-	LAF451ER	LAF455ER	LAF461ER	LAF463ER	LAF453ER	-	-
LAF-UFWLUARR	LAF-UFWLDARR	LAF-DFWUARR	LAF-DFWFDARR	LAF-UFFWUARR	LAF-UFFWDARR	LAF-DFWFEUARR	LAF-DFWFEDARR
-	-	-	-	-	-	-	-
RAF325AM	RAF325AA	RAF327AM	RAF327AA	RAF323AM	RAF323AA	RAF329AM	RAF329AA
RAF328AM	RAF328AA	RAF328BM	RAF328BA	RAF326AM	RAF326AA	RAF326BM	RAF326BA
-	LAF313ER	LAF464ER	LAF458ER	LAF454ER	LAF460ER	LAF452ER	LAF462ER
LAF319ER	-	LAF-DFFEUARR	LAF-DFFDARR	LAF-UFEFWUARR	LAF-UFEFWDARR	LAF-UFEFUARR	LAF-UFEFDARR
LAF-DFEWUARR	LAF-DFEWDARR	-	-	-	-	-	-
RAF331AM	RAF331AA	RAF331BM	RAF331BA	RAF335AM	RAF335AA	RAF335BM	RAF335BA
RAF361AM	RAF361AA	RAF333AM	RAF333AA	RAF333BM	RAF333BA	RAF337AM	RAF337AA
RAF337BM	RAF337BA	RAF336AM	RAF336AA	RAF336BM	RAF336BA	RAF344AM	RAF344AA

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/Address 20-26

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
RAF332AM	RAF332AA	RAF334AM	RAF334AA	RAF334BM	RAF334BA	RAF340AM	RAF340AA
RAF342AM	RAF342BM	RAF367AM	RAF367AA	RAF593AS	RAF593AA	-	LAF471ER
LAF481ER	-	LAF-UWFEUARR	LAF-UWFEDARR	LAF-DWTUARR	LAF-DWTDARR	-	-
RAF342AA	RAF342BA	RAF365AA	RAF365BA	RAF366AM	RAF366AA	RAF366BM	RAF366BA
RAF363AM	RAF363AA	RAF365AM	RAF365BM	RAF365BS	RAF364AM	RAF364AA	RAF362AM
RAF362AA	RAF362AS	RAF362BM	RAF362BA	RAF362BS	-	LAF484ER	LAF482ER
LAF-DTETUARR	LAF-DTETDARR	LAF-DTTUARR	LAF-DTTDARR	LAF-UTTUARR	LAF-UTTDARR	LAF-UETTARR	LAF-UETTDARR

## 7.5 Link Status

Changes in the status of remote links will be sent to DIS1 and DIS2.

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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## 8 ECS LINK TO SMART PC LINK 1

### 8.1 Overview

This ECS remote system link operates from port 6. It is a link to SMART with **ETB** type initialisation.

### 8.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	6	Time-Out Period (secs)	2
Physical Name	P6	Message Retry Count	3
Area	SMT1	Message Retry Field Flag	Set
Protocol	BR1810	Incoming Message	ASB202
Baud Rate	9600	Outgoing Message	202ASB

### 8.3 Berths

Changes in the contents of **ALL** berths known to the IECC will be transmitted by ECS to SMART Link 1  
**EXCEPT:**

0197	0199	0205	0207	0209	0211	0213	0215
	0217	0219	0221		0591	0593	
0894	0896	0898	201X	203X	249C	251C	253C
261C	263C	269C	271C	273C	275C	277C	281C
283C	285C	289C	291C	295C	297C	299C	299D
299Z	301C	301D	301E	301Z	303C	303D	303E
303Z					323C	325C	326C
326D	326E	326Z	327C	328C	328D	328Z	329C
331C	332C	332D	332Z	333C	334C	335C	336C
337C	340C	342C	344C	361C			
		421C	431C	433C	451C	451D	452C
452D		453D	454C		455D	458C	460C
461C		462D	463C		464D		481C
482C	484C	571C	591C	592C	593C	APW4	DB01
DB02	DB03	DB04	DB05	DB06	DB07	DB08	DB09
DB10	DB11	DB12	DB13	DB14	DB15	DB16	DB17
DB18	DB19	DB20	DB21	DB22	DB23	DB24	DB25
DB26	DB27	DB28	DB48	DB49	DB50	DB51	DB52
DB53	DB54	DB55	DB56	DB57	DB58	DB59	DB60
DB61	DB62	DB63	DB64	DB65	DB66	DB67	DB68
DB69	DB70	DB71	DB72	DB73	EA06	EA08	EA10
EA11	EA12	EA13	EA14	EA15	EA16	EA17	EA18
EA19	EA20	EA21	EA22	EA23	EA25	EA27	EA29
			ET07				
		ET14		ET16		ET18	
ET20		ET22			ET27	ET29	ET30
ET31	ET40	ET41		ET99	FCA1	K010	K018
K022	K028	K090	LS2U	LS3R	LS4D	LS4U	LS5D
LS5U	LSCD	LSCU	LSDC	LSED	LSEU	LSFC	LSFL
LSME	LSWD	LSWU	M211	M213	M215	M217	M223
M224	M227	M231	S101	S102	S103	S201	S202

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S203	S301	S302	S303	S401	S402	S403	
SS2U	SS3R	SS4D	SS4U	SS5D	SS5U	SSCD	SSCU
SSDC	SS2ED	SSEU	SSFC	SSFL	SSME	SSWD	SSWU
STA3	STA4		X200	Y002	Y003	Y021	DB29
DB30	K024	M004	M011	M014	M019	M021	M023
M025	M036	MF37	MR37	M039	M041	M045	M151
M152	M153	M157	M160	M161	M162	M163	M164
M165	M166	M167	M168	M169	M170	M171	M172
M189	M191	M192	M193	M194	M195	M196	M197
M198	M199	M200	M201	M204	M205	M206	M210
M212	M214	M216	M218	M226	M228	M229	M341
M344	M345	M347	V338	X216	X588	V319	V321
V335	V337	VATL	TETD	RBTD	BPTD	HSTD	RYTD
A223	A595	A615	A616	A629	A630	A643	A644
A665	A669	A707	A709	A719	A721	A744	A746
A752	A754	A756	A758	A163	A170	A204	A205
A214	A215	A590					

Berths shall be transmitted to SMART Link 1 when the link is initialised, i.e. SENDSTART field should be set to **ALL**.

Changes in the contents of the following berths will be received by ECS from SMART Link 1:

*None*

## 8.4 Signalling Items

As the combined number of berths and signalling items being transferred to SMART exceeds the 1024 item limit, the following rationalisation has been applied to the signalling items:

1. All automatic signal identities have been removed.
2. Identities for routes going between the same signals (alternative routes) have been meshed. Details provided in section 6.4.1.
3. In instances where there is only a single route from a signal, the route identity has been removed and the signal identity remains (except where rule 5 below has also been applied → there are no signal or route identities in the table for GPLs on the main line with only a single route).
4. All track circuit identities have been removed.
5. All GPL signal identities on the main lines have been removed.

Changes on the status of the following signalling items will be transmitted by ECS to SMART PC Link 1:

/Address 00-0F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
R601A	R601B	R604A	R604B	R606A	R606B	R607A	R607B
R607C *	R608A	R608B	R609XA	R609XB	R609XC *	R610A	R610B
R612A	R612B	R612C	R614XA	R614XB	-	-	R649A(M)
R649B(M)	R649C(M)	R658A(S)	R658B(M)	R658C(M)	R659A(M)	R659B *	R659C *
R659D(M)	R659E(M)	R659F(M)	R659G(M)	R660A(S)	R660B(M)	R660C(M)	R661A(M)
R661B(M)	R661C(M)	R661D(M)	R661E(M)	R664A(M)	R664B(M)	R664C(M)	R664D(M)

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS</b> <b>SUBSYSTEM SPECIFICATION</b>
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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R664E(M)	R666A(M)	R666B *	R666C(M)	R666D *	R666E(M)	R668A(M)	R668B(M)
R668C(M)	R668D(M)	R677AA *	R677BB *	R677C(M)	R677D(S)	R679AA *	R679BB *
R679C(M)	R679D(S)	R680A(M)	R680B(M)	R681A(M)	R681B(S)	R681C(S)	R681D(S)
R780A *	R780B *	R782A *	R782B *	R787 *	R789 *	R892(M)	-
-	-	-	R2121A	R2121B	R2121C	R2123A	R2123B
R2130A	R2130B	R2132A	R2132B	R2134A	R2134B	R653A(M)	R653B *
R653C *	R653D(M)	R653E(M)	R653F *	R653G(M)	R655A(M)	R655B *	R655C *
R655D(M)	R655E(M)	R655F *	R655G(M)	R663A(M)	R663B(M)	R670A(M)	R670B(M)
R670C(M)	R670D(M)	R672A(M)	R672B(M)	R672C(M)	R672D(M)	R672E(M)	R672F(M)
R672G(M)	R674A(M)	R674B(M)	R674C(M)	R674D(M)	R674E(M)	R674F(M)	R674G(M)

/Address 10-1F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R676A(M)	R676B(M)	R676C(M)	R676D(M)	R676E(M)	R676F(M)	R676G(M)	R676H(M)
R678A(M)	R678B(M)	R678C(M)	R678D(M)	R678E(M)	R678F(M)	R678G(M)	R678H(M)
R781 *	R783A *	R783B *	R851A(M)	R851B(M)	R851C(M)	R853A(M)	R853B *
R853C *	R853D(M)	R853E(M)	R853F *	R853G(M)	R857A(M)	R857B *	R857C *
R947A(M)	R947B *	R947C *	R947D(M)	R949A(M)	R949B(M)	R949C(M)	R2119A
R2119B	R2119C	R665C(M)	R665D(M)	R665E(M)	R665F(M)	R667B(M)	R667C *
R667D(M)	R667E(M)	R667F(M)	R667G(M)	R669A(M)	R669B(M)	R669C(M)	R669D(M)
R669E(M)	R671A(M)	R671B(M)	R671C(M)	R671D(M)	R671E(M)	R673B(M)	R673C(M)
R673D(M)	R675B(M)	R675C(M)	R675D(M)	R682A(M)	R682B(M)	R682C(M)	R682D *
R682E *	R682F(M)	R684A(M)	R684B(M)	R684C(M)	R684D *	R684E *	R684F(M)
R686A(M)	R686B *	R686C *	R686D(M)	R786 *	R788 *	R874A(M)	R874B(M)
R874C(M)	R874D(M)	R874E(M)	R876A(M)	R876B(M)	R876C(M)	R876D(M)	R876E(M)
R878A(M)	R878B(M)	R878C(M)	R878D(M)	R878E(M)	R880A(M)	R880B(M)	R954A *
R954B(M)	R954C(M)	R954D(M)	R956A(M)	R956B(M)	R956C(M)	R956D(M)	R665A(S)
R665B(S)	R667A(S)	R673A(S)	R675A(S)	R880C(S)	R2126A	R2126B	R691A(M)
R691B(M)	R691C(M)	R693A(M)	R693B(M)	R693C(M)	R695A(M)	R695B(M)	R695C(M)

/Address 20-2F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R697A(M)	R697B(M)	R697C(M)	R702A(M)	R702B(M)	R702C(M)	R702D(M)	R704A(M)
R704B(M)	R704C(M)	R704D(M)	R705A(M)	R705B(S)	R706A(M)	R706B(M)	R706C(M)
R706D(M)	R708A *	R708B(M)	R727A	R727B	R729A	R729B	R732A
R732B	R734A	R734B	R2131A	R2131B	R751 *	R755A(S)	R755B(M)
R755C(M)	R755D(M)	R755E(M)	R755F(M)	R755G(M)	R755H(M)	R755J(M)	R755K(M)
R757A(S)	R757B(M)	R757C(M)	R757D(M)	R757E(M)	R757F(S)	R757G(M)	R757H(M)
R757J(M)	R757K(M)	R757L(M)	R757M(M)	R794A	R794B	R796A(M)	R796B(M)
R796C(S)	R798A(M)	R798B(M)	R798C(S)	R804A(M)	R804B(M)	R804C(S)	R808A(S)

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS</b> <b>SUBSYSTEM SPECIFICATION</b>
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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R808B(M)	R808C(M)	R808D(S)	R814A(S)	R814B(M)	R814C(M)	R814D(S)	R816A(S)
R816B(M)	R816C(M)	R816D(S)	R818A(S)	R818B(M)	R818C(M)	R818D(S)	R2151A
R2151B	R2151C	R2151D	R2151E	R2153A	R2153B	R2153C	R2153D
R2153E	R2153F	R2153G	R2153H	R2153J	R2153K	R2152A	R2152B
R2157A	R2157B	R2157C	R2157D	R2157E	R2157F	R2157G	R2157H
R2157J	R2157K	R2159A	R2159B	R757N(M)	R2159C	R2159D	R2159E
R2159F	R759A(S)	R759B *	R759C *	R759D *	R759E *	R808E *	R814E *
R816E *	R818E *	R795A(S)	R795B *	R795C(M)	R795D(S)	R795E(S)	R797A(S)

/Address 30-3F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R797B *	R797C(M)	R797D(S)	R797E(S)	R799A(S)	R799B *	R799C(M)	R799D(S)
R799E(S)	R803A(S)	R803B *	R803C(M)	R803D(S)	R803E(S)	R807A(S)	R807B(S)
R807C(S)	R807D(M)	R807E(M)	R809A(S)	R809B(S)	R809C(S)	R809D(M)	R809E(M)
R813A(S)	R813B(S)	R813C(S)	R813D(M)	R813E(M)	R2158A	R2158B	R2158C
R2160A	R2160B	R2160C	R2160D	R2160E	R2160F	R2160G	R2160H
R2160J	R2162A	R2162B	R2162C	R2162D	R2162E	R2162F	R2162G
R2162H	R2162J	R2164A	R2164B	R2164C	R2164D	R2164E	R2164F
R2164G	R2164H	R2164J	R2167A	R2167B *	R2167C	R2167D	R2167E
R2171A	R2171B *	R2171C	R2171D	R2171E	R821A	R821B	R830A(M)
R830B(M)	R830C(M)	R830D *	R830E *	R830F(S)	R830G(M)	R830H(M)	R830J(M)
R830K(M)	R832A(M)	R832B(M)	R832C *	R832D *	R832E *	R832F *	R832G *
R832H *	R832J *	R762A	R762B	R909A	R909B	R911A	R911B
R914A	R914B	R916A	R916B	S601	S602	S603	S604
S605	S606	S607	S608	S609X	S610	S611	S612
S613	S614X	S647X	S649	S650	S651X	S652	S658
S659	S660	S661	S664	S666	S668	S677	S679

/Address 40-4F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
S680	S681	S780	S782	S787	S789	S892	S2113
S2128	S2130	S2132	S2134	S663	S670	S672	S674
S676	S678	S781	S783	S849	S850	S851	S852
S853	S854	S855	S856	S857	S858	S947	S949
S662X	S665	S667	S669	S671	S673	S675	S682
S684	S686	S786	S788	S790	S871	S873	S874
S876	S878	S880	S882	S954	S956	S691	S693
S695	S697	S702	S703	S704	S705	S706	S708
S709	S712	S727	S729	S732	S734	S2131	S2136

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS</b> <b>SUBSYSTEM SPECIFICATION</b>
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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
S751	S755	S757	S792	S794	S796	S798	S804
S808	S814	S816	S818	S2151	S2153	S759	S795
S797	S799	S803	S807	S809	S813	S2158	S2160
S2161	S2162	S2171	S791	S821	S823	S830	S832
S2168	S760	S762	S909	S911	S914	S916	S918
-	L650TRS	L664TRS	L666TRS	L677TRS	L679TRS	L2113TRS	L2128TRS
L2132TRS	L2134TRS	L672TRS	L674TRS	L676TRS	L678TRS	L665TRS	L667TRS

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS</b> <b>SUBSYSTEM SPECIFICATION</b>
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/Address 50-5D

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
L669TRS	L671TRS	L871TRS	L878TRS	L796TRS	L798TRS	L804TRS	L808TRS
L814TRS	L816TRS	L818TRS	L2146TRS	L2147TRS	L2150TRS	L2155TRS	L795TRS
L799TRS	L803TRS	L807TRS	L809TRS	L795SS	L797SS	L2171TRS	L799SS
L803SS	L807SS	L809SS	L797TRS	L813SS	L813TRS	L2162TRS	L2160TRS
S653	S655	S747	S749	-	S752	S753	S754
-	S756	-	S758	S761	S902	S2146	S2147
S2150	S2152	S2154	S2155	S2156	S2163	S2164	S2165
S763	S904	S2166	S2167	RET0112A	RET0112C	RET1049A	RET1049B
RET1049C	RET1049D	RET1049Z	RET1050A	RET1050B	RET1050C	RET1050D	RET1050E
RET1050F	RET1050G	RET1050H	RET1050J	RET1050K	RET1092	RET1151	RET1164A
RET1164B	RET0976A	RET0976B	RET0976C	RET0976D	RET0976E	RET0977A	RET0977B
RET0977C	RET0977D	LSSIV1FOAC	LSSPV1FOAC	LSSIV2FOCC	LSSPV2FOCC	L795ERS	L796ERS
L797ERS	L798ERS	L799ERS	L803ERS	L804ERS	L807ERS	L808ERS	L809ERS
L813ERS	L814ERS	L816ERS	L818ERS	LUM-BEBFARR	LUM-BFBEARR	LDM-BFBEARR	LDM-BFBHARR

\* Denotes a meshed identity.

Changes on the status of the following signalling items will be transmitted by SMART PC Link 1 to ECS:

*None*

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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### 8.4.1 Meshed Items

As part of the rationalisation process, a number of routes have been ‘meshed’ together. This meshing is as per the table below.

Meshed Identity Name	Routes in the ‘meshed’ identity			
	Route 1	Route 2	Route 3	Route 4
R2167B	R2167B-1	R2167B-2		
R2171B	R2171B-1	R2171B-2		
R607C	R607C-1	R607C-2		
R609XC	R609XC-1	R609XC-2		
R653B	R653B(M)	R653B(C)		
R653C	R653C-1(M)	R653C-1(C)	R653C-2(M)	R653C-2(C)
R653F	R653F-1(M)	R653F-2(M)		
R655B	R655B(M)	R655B(C)		
R655C	R655C(M)	R655C(C)		
R655F	R655F-1(M)	R655F-2(M)		
R659B	R659B(M)	R659B(C)		
R659C	R659C(M)	R659C(C)		
R666B	R666B-1(M)	R666B-2(M)		
R666D	R666D-1(M)	R666D-2(M)		
R667C	R667C-1(M)	R667C-2(M)		
R677AA	R677A	R677A(M)	R677A(S)	
R677BB	R677B	R677B(M)	R677B(S)	
R679AA	R679A	R679A(M)	R679A(S)	
R679BB	R679B	R679B(M)	R679B(S)	
R682D	R682D(M)	R682D(C)		
R682E	R682E(M)	R682E(C)		
R684D	R684D(M)	R684D(C)		
R684E	R684E(M)	R684E(C)		
R686B	R686B-1(M)	R686B-2(M)		
R686C	R686C-1(M)	R686C-2(M)		
R708A	R708A(M)	R708A(C)		
R751	R751(M)	R751(W)		
R759B	R759B(M)	R759B(S)		
R759C	R759C(M)	R759C(C)		
R759D	R759D(M)	R759D(C)		
R759E	R759E(M)	R759E(C)		
R780A	R780A(M)	R780A(C)		
R780B	R780B(M)	R780B(C)		
R781	R781(M)	R781(C)		

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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R782A	R782A(M)	R782A(C)		
R782B	R782B(M)	R782B(C)		
R783A	R783A(M)	R783A(C)		
R783B	R783B(M)	R783B(C)		
R786	R786(M)	R786(C)		
R787	R787(M)	R787(W)	R787(C)	
R788	R788(M)	R788(C)		
R789	R789(M)	R789(C)		
R795B	R795B-1(M)	R795B-2(M)		
R797B	R797B-1(M)	R797B-2(M)		
R799B	R799B-1(M)	R799B-2(M)		
R803B	R803B-1(M)	R803B-2(M)		
R808E	R808E-1(M)	R808E-2(M)		
R814E	R814E-1(M)	R814E-2(M)		
R816E	R816E-1(M)	R816E-2(M)		
R818E	R818E-1(M)	R818E-2(M)		
R830D	R830D(M)	R830D(C)		
R830E	R830E(M)	R830E(C)		
R832C	R832C(M)	R832C(C)		
R832D	R832D(M)	R832D(C)		
R832E	R832E-1(S)	R832E-2(S)		
R832F	R832F-1(M)	R832F-2(M)		
R832G	R832G-1(M)	R832G-2(M)		
R832H	R832H-1(M)	R832H-2(M)		
R832J	R832J-1(M)	R832J-2(M)		
R853B	R853B(M)	R853B(C)		
R853C	R853C(M)	R853C(C)		
R853F	R853F-1(M)	R853F-2(M)		
R857B	R857B(M)	R857B(C)		
R857C	R857C(M)	R857C(C)		
R947B	R947B-1(M)	R947B-2(M)		
R947C	R947C(M)	R947C(W)		
R954A	R954A(M)	R954A(W)		

## 8.5 Link Status

Changes in the status of remote links will be sent to DIS1 and DIS2.

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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## 9 ECS INTER-UNIT LINK (2)

### 9.1 Overview

This ECS-ECS remote system link operates from port 7. It is a link to the Master/Standby computer unit with **TD** type initialisation.

### 9.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	7	Baud Rate	19200
Physical Name	P7	Time-Out Period (secs)	1
Area	ILB2	Message Retry Count	8
Protocol	BR1810	Message Retry Field Flag	Set

### 9.3 Berths

Changes in the contents of **ALL** berths known to the IECC will be transmitted by the Master ECS computer unit to the Standby ECS computer unit and vice-versa.

### 9.4 Signalling items

Changes on the status of the following signalling items will be transmitted by the Master ECS unit to the Standby ECS unit and vice-versa.

/Address 00-0F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
R601A	R601B	R602	R603	R604A	R604B	R605	R606A
R606B	R607A	R607B	R607C-1	R607C-2	R608A	R608B	R609XA
R609XB	R609XC-1	R609XC-2	R610A	R610B	R611	R612A	R612B
R612C	R613	R614XA	R614XB	-	-	-	-
R647X	R649A(M)	R649B(M)	R649C(M)	R650	R651X	R652	R658A(S)
R658B(M)	R658C(M)	R659A(M)	R659B(M)	R659B(C)	R659C(M)	R659C(C)	R659D(M)
R659E(M)	R659F(M)	R659G(M)	R660A(S)	R660B(M)	R660C(M)	R661A(M)	R661B(M)
R661C(M)	R661D(M)	R661E(M)	R664A(M)	R664B(M)	R664C(M)	R664D(M)	R664E(M)
R666A(M)	R666B-1(M)	R666B-2(M)	R666C(M)	R666D-1(M)	R666D-2(M)	R666E(M)	R668A(M)
R668B(M)	R668C(M)	R668D(M)	R677A(M)	R677A(S)	R677B(M)	R677B(S)	R677C(M)
R677D(S)	R679A(M)	R679A(S)	R679B(M)	R679B(S)	R679C(M)	R679D(S)	R680A(M)
R680B(M)	R681A(M)	R681B(S)	R681C(S)	R681D(S)	R780A(M)	R780A(C)	R780B(M)
R780B(C)	R782A(M)	R782A(C)	R782B(M)	R782B(C)	R787(M)	R787(W)	R787(C)
R789(M)	R789(C)	R892(M)	R677A	R677B	R679A	R679B	R2113
R2121A	R2121B	R2121C	R2123A	R2123B	R2128	R2130A	R2130B
R2132A	R2132B	R2134A	R2134B	R653A(M)	R653B(M)	R653B(C)	R653C-1(M)

Version UZ2	10B/DC/SPE/ECS	ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION
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/Address 10-1F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R653C-2(M)	R653C-1(C)	R653C-2(C)	R653D(M)	R653E(M)	R653F-1(M)	R653F-2(M)	R653G(M)
R655A(M)	R655B(M)	R655B(C)	R655C(M)	R655C(C)	R655D(M)	R655E(M)	R655F-1(M)
R655F-2(M)	R655G(M)	R662X	R663A(M)	R663B(M)	R670A(M)	R670B(M)	R670C(M)
R670D(M)	R672A(M)	R672B(M)	R672C(M)	R672D(M)	R672E(M)	R672F(M)	R672G(M)
R674A(M)	R674B(M)	R674C(M)	R674D(M)	R674E(M)	R674F(M)	R674G(M)	R676A(M)
R676B(M)	R676C(M)	R676D(M)	R676E(M)	R676F(M)	R676G(M)	R676H(M)	R678A(M)
R678B(M)	R678C(M)	R678D(M)	R678E(M)	R678F(M)	R678G(M)	R678H(M)	R781(M)
R781(C)	R783A(M)	R783A(C)	R783B(M)	R783B(C)	R851A(M)	R851B(M)	R851C(M)
R853A(M)	R853B(M)	R853B(C)	R853C(M)	R853C(C)	R853D(M)	R853E(M)	R853F-1(M)
R853F-2(M)	R853G(M)	R852	R854	R855	R856	R857A(M)	R857B(M)
R857B(C)	R857C(M)	R857C(C)	R858	R947A(M)	R947B-1(M)	R947B-2(M)	R947C(M)
R947C(W)	R947D(M)	R949A(M)	R949B(M)	R949C(M)	R2119A	R2119B	R2119C
R665C(M)	R665D(M)	R665E(M)	R665F(M)	R667B(M)	R667C-1(M)	R667C-2(M)	R667D(M)
R667E(M)	R667F(M)	R667G(M)	R669A(M)	R669B(M)	R669C(M)	R669D(M)	R669E(M)
R671A(M)	R671B(M)	R671C(M)	R671D(M)	R671E(M)	R673B(M)	R673C(M)	R673D(M)
R675B(M)	R675C(M)	R675D(M)	R682A(M)	R682B(M)	R682C(M)	R682D(M)	R682D(C)

/Address 20-2F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R682E(M)	R682E(C)	R682F(M)	R684A(M)	R684B(M)	R684C(M)	R684D(M)	R684D(C)
R684E(M)	R684E(C)	R684F(M)	R686A(M)	R686B-1(M)	R686B-2(M)	R686C-1(M)	R686C-2(M)
R686D(M)	R786(M)	R786(C)	R788(M)	R788(C)	R790	R871	R873
R874A(M)	R874B(M)	R874C(M)	R874D(M)	R874E(M)	R876A(M)	R876B(M)	R876C(M)
R876D(M)	R876E(M)	R878A(M)	R878B(M)	R878C(M)	R878D(M)	R878E(M)	R880A(M)
R880B(M)	R882	R954A(M)	R954A(W)	R954B(M)	R954C(M)	R954D(M)	R956A(M)
R956B(M)	R956C(M)	R956D(M)	R665A(S)	R665B(S)	R667A(S)	R673A(S)	R675A(S)
R880C(S)	R2126A	R2126B	R691A(M)	R691B(M)	R691C(M)	R693A(M)	R693B(M)
R693C(M)	R695A(M)	R695B(M)	R695C(M)	R697A(M)	R697B(M)	R697C(M)	R702A(M)
R702B(M)	R702C(M)	R702D(M)	R703	R704A(M)	R704B(M)	R704C(M)	R704D(M)
R705A(M)	R705B(S)	R706A(M)	R706B(M)	R706C(M)	R706D(M)	R708A(M)	R708A(C)
R708B(M)	R709	R712	R727A	R727B	R729A	R729B	R732A
R732B	R734A	R734B	R2131A	R2131B	R2136	R751(M)	R751(W)
R755A(S)	R755B(M)	R755C(M)	R755D(M)	R755E(M)	R755F(M)	R755G(M)	R755H(M)
R755J(M)	R755K(M)	R757A(S)	R757B(M)	R757C(M)	R757D(M)	R757E(M)	R757F(S)
R757G(M)	R757H(M)	R757J(M)	R757K(M)	R757L(M)	R757M(M)	R792	R794A

/Address 30-3F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R794B	R796A(M)	R796B(M)	R796C(S)	R798A(M)	R798B(M)	R798C(S)	R804A(M)

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS</b> <b>SUBSYSTEM SPECIFICATION</b>
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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R804B(M)	R804C(S)	R808A(S)	R808B(M)	R808C(M)	R808D(S)	R814A(S)	R814B(M)
R814C(M)	R814D(S)	R816A(S)	R816B(M)	R816C(M)	R816D(S)	R818A(S)	R818B(M)
R818C(M)	R818D(S)	R2146	R2147	R2151A	R2151B	R2151C	R2151D
R2151E	R2153A	R2153B	R2153C	R2153D	R2153E	R2153F	R2153G
R2153H	R2153J	R2153K	R2155	R2150	R2154	R2156	R2152A
R2152B	R2157A	R2157B	R2157C	R2157D	R2157E	R2157F	R2157G
R2157H	R2157J	R2157K	R2159A	R2159B	R757N(M)	R2159C	R2159D
R2159E	R2159F	R759A(S)	R759B(M)	R759B(S)	R759C(M)	R759C(C)	R759D(M)
R759D(C)	R759E(M)	R759E(C)	R808E-1(M)	R808E-2(M)	R814E-1(M)	R814E-2(M)	R816E-1(M)
R816E-2(M)	R818E-1(M)	R818E-2(M)	R795A(S)	R795B-1(M)	R795B-2(M)	R795C(M)	R795D(S)
R795E(S)	R797A(S)	R797B-1(M)	R797B-2(M)	R797C(M)	R797D(S)	R797E(S)	R799A(S)
R799B-1(M)	R799B-2(M)	R799C(M)	R799D(S)	R799E(S)	R803A(S)	R803B-1(M)	R803B-2(M)
R803C(M)	R803D(S)	R803E(S)	R807A(S)	R807B(S)	R807C(S)	R807D(M)	R807E(M)
R809A(S)	R809B(S)	R809C(S)	R809D(M)	R809E(M)	R813A(S)	R813B(S)	R813C(S)
R813D(M)	R813E(M)	R2158A	R2158B	R2158C	R2160A	R2160B	R2160C

/Address 40-4F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R2160D	R2160E	R2160F	R2160G	R2160H	R2160J	R2161	R2162A
R2162B	R2162C	R2162D	R2162E	R2162F	R2162G	R2162H	R2162J
R2163	R2164A	R2164B	R2164C	R2164D	R2164E	R2164F	R2164G
R2164H	R2164J	R2165	R2167A	R2167B-1	R2167B-2	R2167C	R2167D
R2167E	R2171A	R2171B-1	R2171B-2	R2171C	R2171D	R2171E	R791
R821A	R821B	R823	R830A(M)	R830B(M)	R830C(M)	R830D(M)	R830D(C)
R830E(M)	R830E(C)	R830F(S)	R830G(M)	R830H(M)	R830J(M)	R830K(M)	R832A(M)
R832B(M)	R832C(M)	R832C(C)	R832D(M)	R832D(C)	R832E-1(S)	R832E-2(S)	R832F-1(M)
R832F-2(M)	R832G-1(M)	R832G-2(M)	R832H-1(M)	R832H-2(M)	R832J-1(M)	R832J-2(M)	R2166
R2168	R760	R762A	R762B	R909A	R909B	R911A	R911B
R914A	R914B	R916A	R916B	R918	S595	S597	S599
S615	S616	S617	S618	S619	S620	S621	S622
S623	S624	S625	S626	S627	S628	S629	S630
S631	S632	S633	S634	S635	S636	S637	S638
S639	S640	S641	S642	S643	S644	S645	S646
S601	S602	S603	S604	S605	S606	S607	S608

/Address 50-5F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
S609X	S610	S611	S612	S613	S614X	S647X	S649
S650	S651X	S652	S658	S659	S660	S661	S664
S666	S668	S677	S679	S680	S681	S780	S782

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS</b> <b>SUBSYSTEM SPECIFICATION</b>
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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
S787	S789	S892	S891	S2113	S2121	S2123	S2128
S2130	S2132	S2134	S653	S655	S663	S670	S672
S674	S676	S678	S781	S783	S849	S850	S851
S852	S853	S854	S855	S856	S857	S858	S947
S949	S662X	S2119	S665	S667	S669	S671	S673
S675	S682	S684	S686	S786	S788	S790	S871
S873	S874	S876	S878	S880	S882	S954	S956
S875	S2126	S691	S693	S695	S697	S702	S703
S704	S705	S706	S708	S709	S712	S727	S729
S732	S734	S701	S707	S710	S711	S713	S714
S715	S716	S717	S718	S719	S720	S721	S722
S723	S724	S725	S726	S728	S730	S731	S733
S735	S736	S737	S738	S739	S740	S741	S742

/Address 60-6F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
S2131	S2136	S751	S755	S757	S792	S794	S796
S798	S804	S808	S814	S816	S818	S743	S744
S745	S746	S747	S748	S749	S750	S752	S753
S754	S756	S758	S2146	S2147	S2150	S2151	S2152
S2153	S2154	S2155	S2156	S2157	S2159	S759	S795
S797	S799	S803	S807	S809	S813	S2158	S2160
S2161	S2162	S2163	S2164	S2165	S2167	S2171	S791
S821	S823	S830	S832	S793	S822	S824	S2166
S2168	S760	S762	S909	S911	S914	S916	S918
S761	S763	S901	S902	S903	S904	S908	S906
S920	S917	S913	S910	S912	S905	S907	-
L650TRS	L664TRS	L666TRS	L677TRS	L679TRS	L2113TRS	L2128TRS	L2132TRS
L2134TRS	L672TRS	L674TRS	L676TRS	L678TRS	L665TRS	L667TRS	L669TRS
L671TRS	L871TRS	L878TRS	L796TRS	L798TRS	L804TRS	L808TRS	L814TRS
L816TRS	L818TRS	L2146TRS	L2147TRS	L2150TRS	L2155TRS	L795TRS	L799TRS
L803TRS	L807TRS	L809TRS	-	-	L2171TRS	-	-

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS</b> <b>SUBSYSTEM SPECIFICATION</b>
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/Address 70-7F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
-	-	L797TRS	-	L813TRS	L2162TRS	L2160TRS	RET1164A
RET1164B	RET1151	RET1092	RET1050A	RET1050B	RET1050E	RET1050F	RET1050G
RET1050H	RET1050J	RET1050K	RET1050L	RET1050M	RET1049A	RET1049B	RET1049C
RET1049Z	RET1049D	RET1008B	RET1008C	RET1008D	RET1008E	RET1008F	RET1008G
RET1008H	RET1008J	RET1008K	RET0976A	RET0976B	RET0976C	RET0976D	RET0976E
RET0977A	RET0977B	RET0977C	RET0977D	RET0112A	RET0112C	LSSIV1FOAC	LSSPV1FOAC
LSSIV2FOCC	LSSPV2FOCC	L795SS	L797SS	L799SS	L803SS	L807SS	L809SS
L813SS	RET1050C	RET1050D	RAF249AM	RAF249AA	LAF421ER	LAF-DNCUARR	LAF-DNCDARR
LAF-UNYUARR	LAF-UNYDARR	RAF251AM	RAF251AA	RAF253AM	RAF253AA	RAF253BM	RAF253BA
RAF261AM	RAF261AA	RAF261BM	RAF261BA	RAF263AM	RAF263AA	RAF269AM	RAF269AA
LAF431ER	LAF433ER	LAF-DCLUARR	LAF-DCLDARR	LAF-UCNUARR	LAF-UCNDARR	RAF271AM	RAF271AA
RAF271BM	RAF271BA	RAF273AM	RAF273AA	RAF275AM	RAF275AA	RAF275BM	RAF275BA
RAF277AM	RAF277AA	RAF277BM	RAF277BA	RAF283AM	RAF283AA	RAF285AM	RAF285AA
RAF289AM	RAF289AA	RAF291AM	RAF291AA	RAF295AM	RAF295AA	RAF295BM	RAF295BA
RAF297AM	RAF297AA	RAF297BM	RAF297BA	RAF297CA	RAF299AM	RAF299AA	LAF-DLFWUARR
LAF-DLFWDARR	LAF-ULCUARR	LAF-ULCDARR	RAF301AM	RAF301AA	RAF301BM	RAF301BA	RAF303AM

/Address 80-8F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
RAF303AA	RAF303BM	RAF303BA	LAF451ER	LAF455ER	LAF461ER	LAF463ER	LAF453ER
LAF-UFWLUARR	LAF-UFWLDARR	LAF-DFWFUARR	LAF-DFWFDARR	LAF-UFFWUARR	LAF-UFFWDARR	LAF-DFWFEUARR	LAF-DFWFEDARR
RAF325AM	RAF325AA	RAF327AM	RAF327AA	RAF323AM	RAF323AA	RAF329AM	RAF329AA
RAF328AM	RAF328AA	RAF328BM	RAF328BA	RAF326AM	RAF326AA	RAF326BM	RAF326BA
LAF313ER	LAF464ER	LAF458ER	LAF454ER	LAF460ER	LAF452ER	LAF462ER	LAF319ER

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS SUBSYSTEM</b> <b>SPECIFICATION</b>
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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
LAF-DFFEUARR	LAF-DFFEDARR	LAF-UFEFWUARR	LAF-UFEFWDARR	LAF-UFEFUARR	LAF-UFEFDARR	LAF-DFEWUARR	LAF-DFEWDARR
RAF331AM	RAF331AA	RAF331BM	RAF331BA	RAF335AM	RAF335AA	RAF335BM	RAF335BA
RAF361AM	RAF361AA	RAF333AM	RAF333AA	RAF333BM	RAF333BA	RAF337AM	RAF337AA
RAF337BM	RAF337BA	RAF336AM	RAF336AA	RAF336BM	RAF336BA	RAF344AM	RAF344AA
RAF332AM	RAF332AA	RAF334AM	RAF334AA	RAF334BM	RAF334BA	RAF340AM	RAF340AA
RAF342AM	RAF342BM	RAF367AM	RAF367AA	RAF593AS	RAF593AA	LAF471ER	LAF481ER
LAF-UWFEUARR	LAF-UWFEDARR	LAF-DWTUARR	LAF-DWTDARR	RAF342AA	RAF342BA	RAF365AA	RAF365BA
RAF366AM	RAF366AA	RAF366BM	RAF366BA	RAF363AM	RAF363AA	RAF365AM	RAF365BM
RAF365BS	RAF364AM	RAF364AA	RAF362AM	RAF362AA	RAF362AS	RAF362BM	RAF362BA
RAF362BS	LAF484ER	LAF482ER	LAF-DTETUARR	LAF-DTETDARR	LAF-DTTUARR	LAF-DTTDARR	LAF-UTTUARR
LAF-UTTDARR	LAF-UETTUARR	LAF-UETTDARR	RK90	RK93	RY3	RY21	L795ERS

/Address 90-98

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
L796ERS	L797ERS	L798ERS	L799ERS	L803ERS	L804ERS	L807ERS	L808ERS
L809ERS	L813ERS	L814ERS	L816ERS	L818ERS	LR665D-REQ	LR665E-REQ	LR667C-REQ
LR667D-REQ	LR669A-REQ	LR669B-REQ	LR671A-REQ	LR671B-REQ	LR672F-REQ	LR672G-REQ	LR674F-REQ
LR674G-REQ	LR676F-REQ	LR676G-REQ	LR678F-REQ	LR678G-REQ	LR795B-REQ	LR795C-REQ	LR797B-REQ
LR797C-REQ	LR799B-REQ	LR799C-REQ	LR803B-REQ	LR803C-REQ	LR807D-REQ	LR807E-REQ	LR808E-1(M)-REQ
LR808E-2(M)-REQ	LR809D-REQ	LR809E-REQ	LR813D-REQ	LR813E-REQ	LR814E-1(M)-REQ	LR814E-2(M)-REQ	LR816E-1(M)-REQ
LR816E-2(M)-REQ	LR818E-1(M)-REQ	LR818E-2(M)-REQ	LR821A-REQ	LR821B-REQ	LR823-REQ	LDM-BABBARR	LDM-BEUPARR
LDM-BEBFARR	LUM-BABBARR	LUM-BEBFARR	LUM-BEUPARR(1)	TNLF	RBLF	BPLF	HSLF
RYLF	LUM-BFBEARR	LDM-BFBEARR	LDM-BFBHARR	RV319	RV321A	-	-

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS SUBSYSTEM</b> <b>SPECIFICATION</b>
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## 9.5 Link Status

Changes in the status of the remote links will be sent to DIS1 and DIS2.

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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## 10 ECS LINK TO IECC A (1) ECS

### 10.1 Overview

This ECS remote system link operates from port 8. It is a link to IECC A (1) ECS with **TD** type initialisation.

### 10.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	8	Baud Rate	9600
Physical Name	P8	Time-Out Period (secs)	2
Area	ECSA	Message Retry Count	3
Protocol	BR1810	Message Retry Field Flag	Set

### 10.3 Berths

Changes in the contents of the following berths will be transmitted by ECS to the IECC A (1) ECS:

*/Victoria*

V338

*/Staplehurst (Workstation 2)*

0604	0606	0608	0610	0595	609X	0598	0602
X200	STA3	0612	614X				

*/Rye (Workstation 3)*

0891	0892	0893
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Changes in the contents of the following berths will be received by ECS from the IECC A (1) ECS:

*/IECC A (1)*

A163	A170	A204	A205	A214	A215	A590
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*/Victoria*

V319	V321	V335	V337	V338
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*/Staplehurst (Workstation 2)*

0205	0207	0209	0211	0213	0593	0197	0199
0221	APW4	0215	201X	203X	0591	0217	0219
STA4	0595	0598	609X	X200	X216	X588	

*/Rye (Workstation 3)*

0892	0893	0894	0898	0896
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Version UZ2	10B/DC/SPE/ECS	ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION
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## 10.4 Signalling Items

Changes on the status of the following signalling items will be transmitted by the ECS to the IECC A (1) ECS:

*None*

Changes on the status of the following signalling items will be received by the ECS from the IECC A (1) ECS:

/Address 00

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
RV319	RV321A	-	-	-	-	-	-

## 10.5 Link Status

Changes in the status of remote links will be sent to DIS1 and DIS2.

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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# 11 ECS LINK TO ASHFORD DOWN YARD

## 11.1 Overview

This ECS remote system link operates from port 9. It is a link to the Ashford Down Yard TD with **RECALL** type initialisation.

## 11.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	9	Baud Rate	1200
Physical Name	P9	Time-Out Period (secs)	2
Area	ASHY	Message Retry Count	3
Protocol	BR1810	Message Retry Field Flag	Unset

## 11.3 Berths

Changes in the contents of the following berths will be transmitted by ECS to the Ashford Down Yard TD:

647X	651X	0653	0655	0658	0659	0660	0661
0663	0664	0665	0666	0667	0668	0669	0671
0672	0673	0674	0675	0676	0677	0678	0679
0680	0682	0684	0686	0780	0781	0782	0783
0786	0787	0788	0789	0790	0851	0853	0855
0857	0871	0873	0874	0875	0878	0880	0882
0892	0947	0949	0954	0956	2128	2130	2132
2134	Y002	Y021					

Changes in the contents of the following berths will be received by ECS from the Ashford Down Yard TD:

0871      0878

## 11.4 Signalling Items

Changes on the status of the following signalling items will be transmitted by the ECS to the Ashford Down Yard TD:

/Address 00-04

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
R665A(S)	R665B(S)	R665C(M)	R665D(M)	R667A(S)	R667B(M)	R667C *	-
R673A(S)	R673B(M)	R673C(M)	R673D(M)	R675A(S)	R675B(M)	R675C(M)	R675D(M)
R871	R873	R878A(M)	R878B(M)	R878C(M)	R878D(M)	R878E(M)	-
R880A(M)	R880B(M)	R880C(S)	R2126A	R2126B	L871TRS	L878TRS	-
R665E(M)	R665F(M)	R667D(M)	R667E(M)	R667F(M)	R667G(M)	-	-

Version UZ2	10B/DC/SPE/ECS	ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION
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Changes on the status of the following signalling items will be received by the ECS from the Ashford Down Yard TD:

*None*

#### 11.4.1 Meshed Items

A number of the above identities have been 'meshed' together and are transmitted as the meshed identity

Meshed Identity Name	Routes in the 'meshed' identity			
	Route 1	Route 2	Route 3	Route 4
R667C	R667C-1(M)	R667C-2(M)		

\* Denotes a meshed identity.

#### 11.5 Link Status

Changes in the status of remote links will be sent to DIS1 and DIS2.

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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## 12 ECS LINK TO SMART PC LINK 2

### 12.1 Overview

This ECS remote system link operates from port 12. It is a link to SMART with **ETB** type initialisation.

### 12.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	12	Time-Out Period (secs)	2
Physical Name	PC	Message Retry Count	3
Area	SMT2	Message Retry Field Flag	Set
Protocol	BR1810	Incoming Message Header	ASB102
Baud Rate	9600	Outgoing Message Header	102ASB

### 12.3 Berths

Changes in the contents of **ALL** berths known to the IECC will be transmitted by ECS to SMART Link 2 **EXCEPT**:

0197	0199	0205	0207	0209	0211	0213	0215
	0217	0219	0221		0591	0593	
0894	0896	0898	201X	203X	249C	251C	253C
261C	263C	269C	271C	273C	275C	277C	281C
283C	285C	289C	291C	295C	297C	299C	299D
299Z	301C	301D	301E	301Z	303C	303D	303E
303Z					323C	325C	326C
326D	326E	326Z	327C	328C	328D	328Z	329C
331C	332C	332D	332Z	333C	334C	335C	336C
337C	340C	342C	344C	361C			
		421C	431C	433C	451C	451D	452C
452D		453D	454C		455D	458C	460C
461C		462D	463C		464D		481C
482C	484C	571C	591C	592C	593C	APW4	DB01
DB02	DB03	DB04	DB05	DB06	DB07	DB08	DB09
DB10	DB11	DB12	DB13	DB14	DB15	DB16	DB17
DB18	DB19	DB20	DB21	DB22	DB23	DB24	DB25
DB26	DB27	DB28	DB48	DB49	DB50	DB51	DB52
DB53	DB54	DB55	DB56	DB57	DB58	DB59	DB60
DB61	DB62	DB63	DB64	DB65	DB66	DB67	DB68
DB69	DB70	DB71	DB72	DB73	EA06	EA08	EA10
EA11	EA12	EA13	EA14	EA15	EA16	EA17	EA18
EA19	EA20	EA21	EA22	EA23	EA25	EA27	EA29
			ET07				
		ET14		ET16		ET18	
ET20		ET22			ET27	ET29	ET30
ET31	ET40	ET41		ET99	FCA1	K010	K018
K022	K028	K090	LS2U	LS3R	LS4D	LS4U	LS5D
LS5U	LSCD	LSCU	LSDC	LSED	LSEU	LSFC	LSFL
LSME	LSWD	LSWU	M211	M213	M215	M217	M223
M224	M227	M231	S101	S102	S103	S201	S202

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S203	S301	S302	S303	S401	S402	S403	
SS2U	SS3R	SS4D	SS4U	SS5D	SS5U	SSCD	SSCU
SSDC	SS2ED	SSEU	SSFC	SSFL	SSME	SSWD	SSWU
STA3	STA4		X200	Y002	Y003	Y021	DB29
DB30	K024	M004	M011	M014	M019	M021	M023
M025	M036	MF37	MR37	M039	M041	M045	M151
M152	M153	M157	M160	M161	M162	M163	M164
M165	M166	M167	M168	M169	M170	M171	M172
M189	M191	M192	M193	M194	M195	M196	M197
M198	M199	M200	M201	M204	M205	M206	M210
M212	M214	M216	M218	M226	M228	M229	M341
M344	M345	M347	V338	X216	X588	V319	V321
V335	V337	VATL	TETD	RBTB	BPTD	HSTD	RYTD
A223	A595	A615	A616	A629	A630	A643	A644
A665	A669	A707	A709	A719	A721	A744	A746
A752	A754	A756	A758	A163	A170	A204	A205
A214	A215	A590					

Berths shall be transmitted to SMART Link 2 when the link is initialised, i.e. SENDSTART field should be set to **ALL**.

Changes in the contents of the following berths will be received by ECS from SMART Link 2:

*None*

## 12.4 Signalling Items

As the combined number of berths and signalling items being transferred to SMART exceeds the 1024 item limit, the following rationalisation has been applied to the signalling items:

1. All automatic signal identities have been removed.
2. Identities for routes going between the same signals (alternative routes) have been meshed. Details provided in section 9.4.1.
3. In instances where there is only a single route from a signal, the route identity has been removed and the signal identity remains (except where rule 5 below has also been applied → there are no signal or route identities in the table for GPLs on the main line with only a single route).
4. All track circuit identities have been removed.
5. All GPL signal identities on the main lines have been removed.

Changes on the status of the following signalling items will be transmitted by ECS to SMART PC Link 2:

/Address 00-0F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
R601A	R601B	R604A	R604B	R606A	R606B	R607A	R607B
R607C *	R608A	R608B	R609XA	R609XB	R609XC *	R610A	R610B
R612A	R612B	R612C	R614XA	R614XB	-	-	R649A(M)
R649B(M)	R649C(M)	R658A(S)	R658B(M)	R658C(M)	R659A(M)	R659B *	R659C *
R659D(M)	R659E(M)	R659F(M)	R659G(M)	R660A(S)	R660B(M)	R660C(M)	R661A(M)
R661B(M)	R661C(M)	R661D(M)	R661E(M)	R664A(M)	R664B(M)	R664C(M)	R664D(M)

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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R664E(M)	R666A(M)	R666B *	R666C(M)	R666D *	R666E(M)	R668A(M)	R668B(M)
R668C(M)	R668D(M)	R677AA *	R677BB *	R677C(M)	R677D(S)	R679AA *	R679BB *
R679C(M)	R679D(S)	R680A(M)	R680B(M)	R681A(M)	R681B(S)	R681C(S)	R681D(S)
R780A *	R780B *	R782A *	R782B *	R787 *	R789 *	R892(M)	-
-	-	-	R2121A	R2121B	R2121C	R2123A	R2123B
R2130A	R2130B	R2132A	R2132B	R2134A	R2134B	R653A(M)	R653B *
R653C *	R653D(M)	R653E(M)	R653F *	R653G(M)	R655A(M)	R655B *	R655C *
R655D(M)	R655E(M)	R655F *	R655G(M)	R663A(M)	R663B(M)	R670A(M)	R670B(M)
R670C(M)	R670D(M)	R672A(M)	R672B(M)	R672C(M)	R672D(M)	R672E(M)	R672F(M)
R672G(M)	R674A(M)	R674B(M)	R674C(M)	R674D(M)	R674E(M)	R674F(M)	R674G(M)

/Address 10-1F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R676A(M)	R676B(M)	R676C(M)	R676D(M)	R676E(M)	R676F(M)	R676G(M)	R676H(M)
R678A(M)	R678B(M)	R678C(M)	R678D(M)	R678E(M)	R678F(M)	R678G(M)	R678H(M)
R781 *	R783A *	R783B *	R851A(M)	R851B(M)	R851C(M)	R853A(M)	R853B *
R853C *	R853D(M)	R853E(M)	R853F *	R853G(M)	R857A(M)	R857B *	R857C *
R947A(M)	R947B *	R947C *	R947D(M)	R949A(M)	R949B(M)	R949C(M)	R2119A
R2119B	R2119C	R665C(M)	R665D(M)	R665E(M)	R665F(M)	R667B(M)	R667C *
R667D(M)	R667E(M)	R667F(M)	R667G(M)	R669A(M)	R669B(M)	R669C(M)	R669D(M)
R669E(M)	R671A(M)	R671B(M)	R671C(M)	R671D(M)	R671E(M)	R673B(M)	R673C(M)
R673D(M)	R675B(M)	R675C(M)	R675D(M)	R682A(M)	R682B(M)	R682C(M)	R682D *
R682E *	R682F(M)	R684A(M)	R684B(M)	R684C(M)	R684D *	R684E *	R684F(M)
R686A(M)	R686B *	R686C *	R686D(M)	R786 *	R788 *	R874A(M)	R874B(M)
R874C(M)	R874D(M)	R874E(M)	R876A(M)	R876B(M)	R876C(M)	R876D(M)	R876E(M)
R878A(M)	R878B(M)	R878C(M)	R878D(M)	R878E(M)	R880A(M)	R880B(M)	R954A *
R954B(M)	R954C(M)	R954D(M)	R956A(M)	R956B(M)	R956C(M)	R956D(M)	R665A(S)
R665B(S)	R667A(S)	R673A(S)	R675A(S)	R880C(S)	R2126A	R2126B	R691A(M)
R691B(M)	R691C(M)	R693A(M)	R693B(M)	R693C(M)	R695A(M)	R695B(M)	R695C(M)

/Address 20-2F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R697A(M)	R697B(M)	R697C(M)	R702A(M)	R702B(M)	R702C(M)	R702D(M)	R704A(M)
R704B(M)	R704C(M)	R704D(M)	R705A(M)	R705B(S)	R706A(M)	R706B(M)	R706C(M)
R706D(M)	R708A *	R708B(M)	R727A	R727B	R729A	R729B	R732A
R732B	R734A	R734B	R2131A	R2131B	R751 *	R755A(S)	R755B(M)
R755C(M)	R755D(M)	R755E(M)	R755F(M)	R755G(M)	R755H(M)	R755J(M)	R755K(M)
R757A(S)	R757B(M)	R757C(M)	R757D(M)	R757E(M)	R757F(S)	R757G(M)	R757H(M)
R757J(M)	R757K(M)	R757L(M)	R757M(M)	R794A	R794B	R796A(M)	R796B(M)
R796C(S)	R798A(M)	R798B(M)	R798C(S)	R804A(M)	R804B(M)	R804C(S)	R808A(S)

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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R808B(M)	R808C(M)	R808D(S)	R814A(S)	R814B(M)	R814C(M)	R814D(S)	R816A(S)
R816B(M)	R816C(M)	R816D(S)	R818A(S)	R818B(M)	R818C(M)	R818D(S)	R2151A
R2151B	R2151C	R2151D	R2151E	R2153A	R2153B	R2153C	R2153D
R2153E	R2153F	R2153G	R2153H	R2153J	R2153K	R2152A	R2152B
R2157A	R2157B	R2157C	R2157D	R2157E	R2157F	R2157G	R2157H
R2157J	R2157K	R2159A	R2159B	R757N(M)	R2159C	R2159D	R2159E
R2159F	R759A(S)	R759B *	R759C *	R759D *	R759E *	R808E *	R814E *
R816E *	R818E *	R795A(S)	R795B *	R795C(M)	R795D(S)	R795E(S)	R797A(S)

/Address 30-3F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
R797B *	R797C(M)	R797D(S)	R797E(S)	R799A(S)	R799B *	R799C(M)	R799D(S)
R799E(S)	R803A(S)	R803B *	R803C(M)	R803D(S)	R803E(S)	R807A(S)	R807B(S)
R807C(S)	R807D(M)	R807E(M)	R809A(S)	R809B(S)	R809C(S)	R809D(M)	R809E(M)
R813A(S)	R813B(S)	R813C(S)	R813D(M)	R813E(M)	R2158A	R2158B	R2158C
R2160A	R2160B	R2160C	R2160D	R2160E	R2160F	R2160G	R2160H
R2160J	R2162A	R2162B	R2162C	R2162D	R2162E	R2162F	R2162G
R2162H	R2162J	R2164A	R2164B	R2164C	R2164D	R2164E	R2164F
R2164G	R2164H	R2164J	R2167A	R2167B *	R2167C	R2167D	R2167E
R2171A	R2171B *	R2171C	R2171D	R2171E	R821A	R821B	R830A(M)
R830B(M)	R830C(M)	R830D *	R830E *	R830F(S)	R830G(M)	R830H(M)	R830J(M)
R830K(M)	R832A(M)	R832B(M)	R832C *	R832D *	R832E *	R832F *	R832G *
R832H *	R832J *	R762A	R762B	R909A	R909B	R911A	R911B
R914A	R914B	R916A	R916B	S601	S602	S603	S604
S605	S606	S607	S608	S609X	S610	S611	S612
S613	S614X	S647X	S649	S650	S651X	S652	S658
S659	S660	S661	S664	S666	S668	S677	S679

/Address 40-4F

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
S680	S681	S780	S782	S787	S789	S892	S2113
S2128	S2130	S2132	S2134	S663	S670	S672	S674
S676	S678	S781	S783	S849	S850	S851	S852
S853	S854	S855	S856	S857	S858	S947	S949
S662X	S665	S667	S669	S671	S673	S675	S682
S684	S686	S786	S788	S790	S871	S873	S874
S876	S878	S880	S882	S954	S956	S691	S693
S695	S697	S702	S703	S704	S705	S706	S708
S709	S712	S727	S729	S732	S734	S2131	S2136

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<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
S751	S755	S757	S792	S794	S796	S798	S804
S808	S814	S816	S818	S2151	S2153	S759	S795
S797	S799	S803	S807	S809	S813	S2158	S2160
S2161	S2162	S2171	S791	S821	S823	S830	S832
S2168	S760	S762	S909	S911	S914	S916	S918
-	L650TRS	L664TRS	L666TRS	L677TRS	L679TRS	L2113TRS	L2128TRS
L2132TRS	L2134TRS	L672TRS	L674TRS	L676TRS	L678TRS	L665TRS	L667TRS

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/Address 50-5D

<b>BIT 1</b>	<b>BIT 2</b>	<b>BIT 3</b>	<b>BIT 4</b>	<b>BIT 5</b>	<b>BIT 6</b>	<b>BIT 7</b>	<b>BIT 8</b>
L669TRS	L671TRS	L871TRS	L878TRS	L796TRS	L798TRS	L804TRS	L808TRS
L814TRS	L816TRS	L818TRS	L2146TRS	L2147TRS	L2150TRS	L2155TRS	L795TRS
L799TRS	L803TRS	L807TRS	L809TRS	L795SS	L797SS	L2171TRS	L799SS
L803SS	L807SS	L809SS	L797TRS	L813SS	L813TRS	L2162TRS	L2160TRS
S653	S655	S747	S749	-	S752	S753	S754
-	S756	-	S758	S761	S902	S2146	S2147
S2150	S2152	S2154	S2155	S2156	S2163	S2164	S2165
S763	S904	S2166	S2167	RET0112A	RET0112C	RET1049A	RET1049B
RET1049C	RET1049D	RET1049Z	RET1050A	RET1050B	RET1050C	RET1050D	RET1050E
RET1050F	RET1050G	RET1050H	RET1050J	RET1050K	RET1092	RET1151	RET1164A
RET1164B	RET0976A	RET0976B	RET0976C	RET0976D	RET0976E	RET0977A	RET0977B
RET0977C	RET0977D	LSSIV1FOAC	LSSPV1FOAC	LSSIV2FOCC	LSSPV2FOCC	L795ERS	L796ERS
L797ERS	L798ERS	L799ERS	L803ERS	L804ERS	L807ERS	L808ERS	L809ERS
L813ERS	L814ERS	L816ERS	L818ERS	LUM-BEBFARR	LUM-BFBEARR	LDM-BFBEARR	LDM-BFBHARR

\* Denotes a meshed identity.

Changes on the status of the following signalling items will be transmitted by SMART PC Link 2 to ECS:

*None*

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### 12.4.1 Meshed Items

As part of the rationalisation process, a number of routes have been ‘meshed’ together. This meshing is as per the table below.

Meshed Identity Name	Routes in the ‘meshed’ identity			
	Route 1	Route 2	Route 3	Route 4
R2167B	R2167B-1	R2167B-2		
R2171B	R2171B-1	R2171B-2		
R607C	R607C-1	R607C-2		
R609XC	R609XC-1	R609XC-2		
R653B	R653B(M	R653B(C)		
R653C	R653C-1(M)	R653C-1(C)	R653C-2(M)	R653C-2(C)
R653F	R653F-1(M)	R653F-2(M)		
R655B	R655B(M)	R655B(C)		
R655C	R655C(M)	R655C(C)		
R655F	R655F-1(M)	R655F-2(M)		
R659B	R659B(M)	R659B(C)		
R659C	R659C(M)	R659C(C)		
R666B	R666B-1(M)	R666B-2(M)		
R666D	R666D-1(M)	R666D-2(M)		
R667C	R667C-1(M)	R667C-2(M)		
R677AA	R677A	R677A(M)	R677A(S)	
R677BB	R677B	R677B(M)	R677B(S)	
R679AA	R679A	R679A(M)	R679A(S)	
R679BB	R679B	R679B(M)	R679B(S)	
R682D	R682D(M)	R682D(C)		
R682E	R682E(M)	R682E(C)		
R684D	R684D(M)	R684D(C)		
R684E	R684E(M)	R684E(C)		
R686B	R686B-1(M)	R686B-2(M)		
R686C	R686C-1(M)	R686C-2(M)		
R708A	R708A(M)	R708A(C)		
R751	R751(M)	R751(W)		
R759B	R759B(M)	R759B(S)		
R759C	R759C(M)	R759C(C)		
R759D	R759D(M)	R759D(C)		
R759E	R759E(M)	R759E(C)		
R780A	R780A(M)	R780A(C)		
R780B	R780B(M)	R780B(C)		
R781	R781(M)	R781(C)		

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Meshed Identity Name	Routes in the 'meshed' identity			
	Route 1	Route 2	Route 3	Route 4
R782A	R782A(M)	R782A(C)		
R782B	R782B(M)	R782B(C)		
R783A	R783A(M)	R783A(C)		
R783B	R783B(M)	R783B(C)		
R786	R786(M)	R786(C)		
R787	R787(M)	R787(W)	R787(C)	
R788	R788(M)	R788(C)		
R789	R789(M)	R789(C)		
R795B	R795B-1(M)	R795B-2(M)		
R797B	R797B-1(M)	R797B-2(M)		
R799B	R799B-1(M)	R799B-2(M)		
R803B	R803B-1(M)	R803B-2(M)		
R808E	R808E-1(M)	R808E-2(M)		
R814E	R814E-1(M)	R814E-2(M)		
R816E	R816E-1(M)	R816E-2(M)		
R818E	R818E-1(M)	R818E-2(M)		
R830D	R830D(M)	R830D(C)		
R830E	R830E(M)	R830E(C)		
R832C	R832C(M)	R832C(C)		
R832D	R832D(M)	R832D(C)		
R832E	R832E-1(S)	R832E-2(S)		
R832F	R832F-1(M)	R832F-2(M)		
R832G	R832G-1(M)	R832G-2(M)		
R832H	R832H-1(M)	R832H-2(M)		
R832J	R832J-1(M)	R832J-2(M)		
R853B	R853B(M)	R853B(C)		
R853C	R853C(M)	R853C(C)		
R853F	R853F-1(M)	R853F-2(M)		
R857B	R857B(M)	R857B(C)		
R857C	R857C(M)	R857C(C)		
R947B	R947B-1(M)	R947B-2(M)		
R947C	R947C(M)	R947C(W)		
R954A	R954A(M)	R954A(W)		

## 12.5 Link Status

Changes in the status of remote links will be sent to DIS1 and DIS2.

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2)</b> <b>EXTERNAL COMMUNICATIONS</b> <b>SUBSYSTEM SPECIFICATION</b>
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## 13 ECS LINK TO IECC B (2) RII 1

### 13.1 Overview

This ECS remote system link operates from port 13.

### 13.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	13	Baud Rate	1200
Physical Name	PD	Time-Out Period (secs)	N/A
Area	BRC1	Message Retry Count	N/A
Protocol	S2	Message Retry Field Flag	N/A

### 13.3 Berths

Changes in the contents of the following berths will be transmitted by ECS to the IECC B (2) RII 1:

*None*

Changes in the contents of the following berths will be received by ECS from the IECC B (2) RII 1:

*None*

### 13.4 Signalling Items

Changes on the status of the following signalling items will be transmitted by the ECS to the IECC B (2) RII 1:

/Card0

BIT0	BIT1	BIT2	BIT3	BIT4	BIT5	BIT6	BIT7
RET0976A	RET0976B	RET0976C	RET0976D	RET0976E	RET0977A	RET0977B	RET0977C
RET0977D	RET1049A	RET1049B	RET1049C	RET1049D	RET1049E *	RET1050A	RET1050B
RET1050C	RET1050D	RET1050E	RET1050F	RET1050G	RET1050H	RET1050J	RET1050K
RET1092	RET1151	RET1164A	RET1164B	RET0112A	-	RET0112C	RET1049Z

/Card1

BIT0	BIT1	BIT2	BIT3	BIT4	BIT5	BIT6	BIT7
LSSIV1FOAC	LSSPV1FOAC	LSSIV2FOCC	LSSPV2FOCC	-	-	-	-
L795SS	L797SS	L799SS	L803SS	L807SS	L809SS	L813SS	-
RET1050L	RET1050M	-	-	-	-	-	-
RY3	RY21	-	-	-	-	-	-

/Card2

BIT0	BIT1	BIT2	BIT3	BIT4	BIT5	BIT6	BIT7
-	RK90	RK93	-	-	-	-	-
Version UZ2		10B/DC/SPE/ECS			ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION		



<b>BIT0</b>	<b>BIT1</b>	<b>BIT2</b>	<b>BIT3</b>	<b>BIT4</b>	<b>BIT5</b>	<b>BIT6</b>	<b>BIT7</b>
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

/Card3

<b>BIT0</b>	<b>BIT1</b>	<b>BIT2</b>	<b>BIT3</b>	<b>BIT4</b>	<b>BIT5</b>	<b>BIT6</b>	<b>BIT7</b>
RAF249A *	RAF251A *	RAF253A *	RAF253B *	RAF261A *	RAF261B *	RAF263A *	RAF269A *
RAF271A *	RAF271B *	RAF273A *	RAF275A *	RAF275B *	RAF277A *	RAF277B *	RAF283A *
RAF285A *	RAF289A *	RAF291A *	RAF295A *	RAF295B *	RAF297A *	RAF297B *	RAF297CA
RAF299A *	RAF301A *	RAF301B *	RAF303A *	RAF303B *	RAF323A *	RAF325A *	RAF326A *

/Card4

<b>BIT0</b>	<b>BIT1</b>	<b>BIT2</b>	<b>BIT3</b>	<b>BIT4</b>	<b>BIT5</b>	<b>BIT6</b>	<b>BIT7</b>
RAF326B *	RAF327A *	RAF328A *	RAF328B *	RAF329A *	RAF331A *	RAF331B *	RAF332A *
RAF333A *	RAF333B *	RAF334A *	RAF334B *	RAF335A *	RAF335B *	RAF336A *	RAF336B *
RAF337A *	RAF337B *	RAF340A *	RAF342A *	RAF342B *	RAF344A *	RAF361A *	RAF362A *
RAF362B *	RAF363A *	RAF364A *	RAF365A *	RAF365B *	RAF366A *	RAF366B *	RAF367A *

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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/Card5

BIT0	BIT1	BIT2	BIT3	BIT4	BIT5	BIT6	BIT7
RAF593A *	-	-	-	-	-	-	-
LAF-DNCUARR	LAF-DNCDARR	LAF-UNYUARR	LAF-UNYDARR	LAF-DCLUARR	LAF-DCLDARR	LAF-UCNUARR	LAF-UCNDARR
LAF-DLFWUARR	LAF-DLFDWARR	LAF-ULCUARR	LAF-ULCDARR	LAF-UFWLUARR	LAF-UFWLDARR	LAF-DFWFUARR	LAF-DFWFDARR
LAF-UFFWUARR	LAF-UFFWDARR	LAF-DFWFEUARR	LAF-DFWFEDARR	LAF-DFFEUARR	LAF-DFFEDARR	LAF-UFEFWUARR	LAF-UFEFWDARR

/Card6

BIT0	BIT1	BIT2	BIT3	BIT4	BIT5	BIT6	BIT7
LAF-UFEFUARR	LAF-UFEFDARR	LAF-DFEWFUARR	LAF-DFEWDARR	LAF-UWFEUARR	LAF-UWFEDARR	LAF-DWTUARR	LAF-DWTDARR
LAF-DTETUARR	LAF-DTETDARR	LAF-DTTUARR	LAF-DTTDARR	LAF-UTTUARR	LAF-UTTDARR	LAF-UETTUARR	LAF-UETTDARR
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

/Card7

BIT0	BIT1	BIT2	BIT3	BIT4	BIT5	BIT6	BIT7
LAF313ER	LAF319ER	LAF421ER	LAF431ER	LAF433ER	LAF451ER	LAF452ER	LAF453ER
LAF454ER	LAF455ER	LAF458ER	LAF460ER	LAF461ER	LAF462ER	LAF463ER	LAF464ER
LAF471ER	LAF481ER	LAF482ER	LAF484ER	-	-	-	-
-	-	-	-	-	-	-	-

\* Denotes a meshed identity

Changes on the status of the following signalling items will be received by the ECS from the IECC B (2) RII 1:

*None*

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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### 13.4.1 Meshed Items

The following inputs are meshed and are transmitted as the meshed identity.

Meshed Identity Name	Inputs in the 'meshed' identity								
	Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8	Input 9
RAF249A	RAF249AM	RAF249AA							
RAF251A	RAF251AM	RAF251AA							
RAF253A	RAF253AM	RAF253AA							
RAF253B	RAF253BM	RAF253BA							
RAF261A	RAF261AM	RAF261AA							
RAF261B	RAF261BM	RAF261BA							
RAF263A	RAF263AM	RAF263AA							
RAF269A	RAF269AM	RAF269AA							
RAF271A	RAF271AM	RAF271AA							
RAF271B	RAF271BM	RAF271BA							
RAF273A	RAF273AM	RAF273AA							
RAF275A	RAF275AM	RAF275AA							
RAF275B	RAF275BM	RAF275BA							
RAF277A	RAF277AM	RAF277AA							
RAF277B	RAF277BM	RAF277BA							
RAF283A	RAF283AM	RAF283AA							
RAF285A	RAF285AM	RAF285AA							
RAF289A	RAF289AM	RAF289AA							
RAF291A	RAF291AM	RAF291AA							
RAF295A	RAF295AM	RAF295AA							
Version UZ2			10B/DC/SPE/ECS				ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION		

Meshed Identity Name	Inputs in the 'meshed' identity								
	Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8	Input 9
RAF295B	RAF295BM	RAF295BA							
RAF297A	RAF297AM	RAF297AA							
RAF297B	RAF297BM	RAF297BA							
RAF299A	RAF299AM	RAF299AA							
RAF301A	RAF301AM	RAF301AA							
RAF301B	RAF301BM	RAF301BA							
RAF303A	RAF303AM	RAF303AA							
RAF303B	RAF303BM	RAF303BA							
RAF323A	RAF323AM	RAF323AA							
RAF325A	RAF325AM	RAF325AA							
RAF326A	RAF326AM	RAF326AA							
RAF326B	RAF326BM	RAF326BA							
RAF327A	RAF327AM	RAF327AA							
RAF328A	RAF328AM	RAF328AA							
RAF328B	RAF328BM	RAF328BA							
RAF329A	RAF329AM	RAF329AA							
RAF331A	RAF331AM	RAF331AA							
RAF331B	RAF331BM	RAF331BA							
RAF332A	RAF332AM	RAF332AA							
RAF333A	RAF333AM	RAF333AA							
RAF333B	RAF333BM	RAF333BA							
RAF334A	RAF334AM	RAF334AA							
RAF334B	RAF334BM	RAF334BA							

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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Meshed Identity Name	Inputs in the 'meshed' identity								
	Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8	Input 9
RAF335A	RAF335AM	RAF335AA							
RAF335B	RAF335BM	RAF335BA							
RAF336A	RAF336AM	RAF336AA							
RAF336B	RAF336BM	RAF336BA							
RAF337A	RAF337AM	RAF337AA							
RAF337B	RAF337BM	RAF337BA							
RAF340A	RAF340AM	RAF340AA							
RAF342A	RAF342AM	RAF342AA							
RAF342B	RAF342BM	RAF342BA							
RAF344A	RAF344AM	RAF344AA							
RAF361A	RAF361AM	RAF361AA							
RAF362A	RAF362AM	RAF362AA	RAF362AS						
RAF362B	RAF362BM	RAF362BA	RAF362BS						
RAF363A	RAF363AM	RAF363AA							
RAF365A	RAF365AM	RAF365AA							
RAF365B	RAF365BM	RAF365BS	RAF365BA						
RAF364A	RAF364AM	RAF364AA							
RAF366A	RAF366AM	RAF366AA							
RAF366B	RAF366BM	RAF366BA							
RAF367A	RAF367AM	RAF367AA							
RAF593A	RAF593AS	RAF593AA							
RET1049E	RET1008B	RET1008C	RET1008D	RET1008E	RET1008F	RET1008G	RET1008H	RET1008J	RET1008K

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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## 13.5 Link Status

Changes in the status of remote links will be sent to DIS1 and DIS2.

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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## 14 ECS LINK TO IECC B (2) RII 2

### 14.1 Overview

This ECS remote system link operates from port 16.

### 14.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	16	Baud Rate	1200
Physical Name	PG	Time-Out Period (secs)	N/A
Area	BRC2	Message Retry Count	N/A
Protocol	S2	Message Retry Field Flag	N/A

### 14.3 Berths

Changes in the contents of the following berths will be transmitted by ECS to the IECC B (2) RII 2:

*None*

Changes in the contents of the following berths will be received by ECS from the IECC B (2) RII 2:

*None*

### 14.4 Signalling Items

Changes on the status of the following signalling items will be transmitted by the ECS to the IECC B (2) RII 2:

/Card0

BIT0	BIT1	BIT2	BIT3	BIT4	BIT5	BIT6	BIT7
RET0976A	RET0976B	RET0976C	RET0976D	RET0976E	RET0977A	RET0977B	RET0977C
RET0977D	RET1049A	RET1049B	RET1049C	RET1049D	RET1049E *	RET1050A	RET1050B
RET1050C	RET1050D	RET1050E	RET1050F	RET1050G	RET1050H	RET1050J	RET1050K
RET1092	RET1151	RET1164A	RET1164B	RET0112A	-	RET0112C	RET1049Z

/Card1

BIT0	BIT1	BIT2	BIT3	BIT4	BIT5	BIT6	BIT7
LSSIV1FOAC	LSSPV1FOAC	LSSIV2FOCC	LSSPV2FOCC	-	-	-	-
L795SS	L797SS	L799SS	L803SS	L807SS	L809SS	L813SS	-
RET1050L	RET1050M	-	-	-	-	-	-
RY3	RY21	-	-	-	-	-	-

/Card2

BIT0	BIT1	BIT2	BIT3	BIT4	BIT5	BIT6	BIT7
-	RK90	RK93	-	-	-	-	-
Version UZ2		10B/DC/SPE/ECS			ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION		

<b>BIT0</b>	<b>BIT1</b>	<b>BIT2</b>	<b>BIT3</b>	<b>BIT4</b>	<b>BIT5</b>	<b>BIT6</b>	<b>BIT7</b>
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

/Card3

<b>BIT0</b>	<b>BIT1</b>	<b>BIT2</b>	<b>BIT3</b>	<b>BIT4</b>	<b>BIT5</b>	<b>BIT6</b>	<b>BIT7</b>
RAF249A *	RAF251A *	RAF253A *	RAF253B *	RAF261A *	RAF261B *	RAF263A *	RAF269A *
RAF271A *	RAF271B *	RAF273A *	RAF275A *	RAF275B *	RAF277A *	RAF277B *	RAF283A *
RAF285A *	RAF289A *	RAF291A *	RAF295A *	RAF295B *	RAF297A *	RAF297B *	RAF297CA
RAF299A *	RAF301A *	RAF301B *	RAF303A *	RAF303B *	RAF323A *	RAF325A *	RAF326A *

/Card4

<b>BIT0</b>	<b>BIT1</b>	<b>BIT2</b>	<b>BIT3</b>	<b>BIT4</b>	<b>BIT5</b>	<b>BIT6</b>	<b>BIT7</b>
RAF326B *	RAF327A *	RAF328A *	RAF328B *	RAF329A *	RAF331A *	RAF331B *	RAF332A *
RAF333A *	RAF333B *	RAF334A *	RAF334B *	RAF335A *	RAF335B *	RAF336A *	RAF336B *
RAF337A *	RAF337B *	RAF340A *	RAF342A *	RAF342B *	RAF344A *	RAF361A *	RAF362A *
RAF362B *	RAF363A *	RAF364A *	RAF365A *	RAF365B *	RAF366A *	RAF366B *	RAF367A *

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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/Card5

BIT0	BIT1	BIT2	BIT3	BIT4	BIT5	BIT6	BIT7
RAF593A *	-	-	-	-	-	-	-
LAF-DNCUARR	LAF-DNCDARR	LAF-UNYUARR	LAF-UNYDARR	LAF-DCLUARR	LAF-DCLDARR	LAF-UCNUARR	LAF-UCNDARR
LAF-DLFWUARR	LAF-DLFDWARR	LAF-ULCUARR	LAF-ULCDARR	LAF-UFWLUARR	LAF-UFWLDARR	LAF-DFWFUARR	LAF-DFWFDARR
LAF-UFFWUARR	LAF-UFFWDARR	LAF-DFWFEUARR	LAF-DFWFEDARR	LAF-DFFEUARR	LAF-DFFEDARR	LAF-UFEFWUARR	LAF-UFEFWDARR

/Card6

BIT0	BIT1	BIT2	BIT3	BIT4	BIT5	BIT6	BIT7
LAF-UFEFUARR	LAF-UFEFDARR	LAF-DFEWFUARR	LAF-DFEWDARR	LAF-UWFEUARR	LAF-UWFEDARR	LAF-DWTUARR	LAF-DWTDARR
LAF-DTETUARR	LAF-DTETDARR	LAF-DTTUARR	LAF-DTTDARR	LAF-UTTUARR	LAF-UTTDARR	LAF-UETTUARR	LAF-UETTDARR
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-

/Card7

BIT0	BIT1	BIT2	BIT3	BIT4	BIT5	BIT6	BIT7
LAF313ER	LAF319ER	LAF421ER	LAF431ER	LAF433ER	LAF451ER	LAF452ER	LAF453ER
LAF454ER	LAF455ER	LAF458ER	LAF460ER	LAF461ER	LAF462ER	LAF463ER	LAF464ER
LAF471ER	LAF481ER	LAF482ER	LAF484ER	-	-	-	-
-	-	-	-	-	-	-	-

\* Denotes a meshed identity

Changes on the status of the following signalling items will be received by the ECS from the IECC B (2) RII 2:

*None*

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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#### 14.4.1 Meshed Items

The following inputs are meshed and are transmitted as the meshed identity.

Meshed Identity Name	Inputs in the 'meshed' identity								
	Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8	Input 9
RAF249A	RAF249AM	RAF249AA							
RAF251A	RAF251AM	RAF251AA							
RAF253A	RAF253AM	RAF253AA							
RAF253B	RAF253BM	RAF253BA							
RAF261A	RAF261AM	RAF261AA							
RAF261B	RAF261BM	RAF261BA							
RAF263A	RAF263AM	RAF263AA							
RAF269A	RAF269AM	RAF269AA							
RAF271A	RAF271AM	RAF271AA							
RAF271B	RAF271BM	RAF271BA							
RAF273A	RAF273AM	RAF273AA							
RAF275A	RAF275AM	RAF275AA							
RAF275B	RAF275BM	RAF275BA							
RAF277A	RAF277AM	RAF277AA							
RAF277B	RAF277BM	RAF277BA							
RAF283A	RAF283AM	RAF283AA							
RAF285A	RAF285AM	RAF285AA							
RAF289A	RAF289AM	RAF289AA							
RAF291A	RAF291AM	RAF291AA							
RAF295A	RAF295AM	RAF295AA							
RAF295B	RAF295BM	RAF295BA							

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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Meshed Identity Name	Inputs in the 'meshed' identity								
	Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8	Input 9
RAF297A	RAF297AM	RAF297AA							
RAF297B	RAF297BM	RAF297BA							
RAF299A	RAF299AM	RAF299AA							
RAF301A	RAF301AM	RAF301AA							
RAF301B	RAF301BM	RAF301BA							
RAF303A	RAF303AM	RAF303AA							
RAF303B	RAF303BM	RAF303BA							
RAF323A	RAF323AM	RAF323AA							
RAF325A	RAF325AM	RAF325AA							
RAF326A	RAF326AM	RAF326AA							
RAF326B	RAF326BM	RAF326BA							
RAF327A	RAF327AM	RAF327AA							
RAF328A	RAF328AM	RAF328AA							
RAF328B	RAF328BM	RAF328BA							
RAF329A	RAF329AM	RAF329AA							
RAF331A	RAF331AM	RAF331AA							
RAF331B	RAF331BM	RAF331BA							
RAF332A	RAF332AM	RAF332AA							
RAF333A	RAF333AM	RAF333AA							
RAF333B	RAF333BM	RAF333BA							
RAF334A	RAF334AM	RAF334AA							
RAF334B	RAF334BM	RAF334BA							
RAF335A	RAF335AM	RAF335AA							

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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Meshed Identity Name	Inputs in the 'meshed' identity								
	Input 1	Input 2	Input 3	Input 4	Input 5	Input 6	Input 7	Input 8	Input 9
RAF335B	RAF335BM	RAF335BA							
RAF336A	RAF336AM	RAF336AA							
RAF336B	RAF336BM	RAF336BA							
RAF337A	RAF337AM	RAF337AA							
RAF337B	RAF337BM	RAF337BA							
RAF340A	RAF340AM	RAF340AA							
RAF342A	RAF342AM	RAF342AA							
RAF342B	RAF342BM	RAF342BA							
RAF344A	RAF344AM	RAF344AA							
RAF361A	RAF361AM	RAF361AA							
RAF362A	RAF362AM	RAF362AA	RAF362AS						
RAF362B	RAF362BM	RAF362BA	RAF362BS						
RAF363A	RAF363AM	RAF363AA							
RAF365A	RAF365AM	RAF365AA							
RAF365B	RAF365BM	RAF365BS	RAF365BA						
RAF364A	RAF364AM	RAF364AA							
RAF366A	RAF366AM	RAF366AA							
RAF366B	RAF366BM	RAF366BA							
RAF367A	RAF367AM	RAF367AA							
RAF593A	RAF593AS	RAF593AA							
RET1049E	RET1008B	RET1008C	RET1008D	RET1008E	RET1008F	RET1008G	RET1008H	RET1008J	RET1008K

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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## 14.5 Link Status

Changes in the status of remote links will be sent to DIS1 and DIS2.

Version UZ2	10B/DC/SPE/ECS	<b>ASHFORD IECC B (2) EXTERNAL COMMUNICATIONS SUBSYSTEM SPECIFICATION</b>
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