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EDINBURGH SC

EDINBURGH IECC A

**EXTERNAL COMMUNICATIONS SUBSYSTEM
SPECIFICATION**

E60/A/IECC/DC/05

VERSION AY1 BB1

Controlled Copy No.

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ISSUE and AMENDMENT RECORD

Version	Produced	Checked	Date	Details of change
AC1	■	■	05/04/07	Initial issue of document for Stage 6 (addition of Portobello)
AC2	■	■	30/04/07	Correction of missing IECC B berths in the ALL berths known to IECC list. Addition of M026 to be received from IECC B
AE1	■	■	30/08/07	Amendments for Stage 8. Addition of Grantshouse to Monktonhall control area onto IECC A – Workstation 1. Addition of links to Millerhill TD, Tweedmouth TD and SMART PC 1 & 2. Correction of document errors associated with link status messages.
AE2	■	■	22/10/07	Updated to WRSL checking comments & response to TQ-125 – adjustment of Tweedmouth and Millerhill fringe design, removal of auto signals without E/R buttons from S-class information, removal of internal IECC SDMM berth + correction of typo wrt route RF537-1M.
AF1	■	■	05/12/07	Updates for Stage 9. Addition of Redford, Thornton, Kirkcaldy, Markinch and Ladybank control area onto IECC A – Workstation 3. Addition of links to Cupar and Hilton Junction.
AF2	■		03/02/08	Updates in response to TQ-128 (Track names on North Fife Workstation to be prefixed with 'F' to make them unique). Special TD requirements to aid with ARS regulation. Addition of RR8782S to S-class information.
AG1	■		19/05/08	Amendments for Stage 11 – Addition of Workstation 2 (Dalmeny, North Queensferry, Inverkeithing, Charlestown, Townhill, Cowdenbeath and Burntisland control areas) onto IECC C. Addition of new link to IECC C and the move of the Edinburgh Td link from IECC B to IECC C. Correction of Message Retry Count on link to IECC B (document update only).
AR1	■	■	13/01/12	Updated to the changes associated with the Scottish Track Renewals Project. Recovery of Routes EK835 3(S), EK836 1(S) and berths K836 and KSTS in accordance with Design Specification 1346-STR-TEC-SPE-002 Issue 3 and Signalling Scheme Plan 11-SC-0012 Version A. Amended Sections 1.1, 1.2, 1.3, 2.1, 3.3, 3.4, 8.3, 8.4, 9.2, 12.3, 12.4, 14.3, 14.4.

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AQ1	■	■	07/06/12	Updated to the changes associated with the Polmont and Millerhill Recontrol Project in accordance with Design Specification 1120-PAM-TEC-SPE-001 Issue 3 and Signalling Scheme Plan 11-SC-0028 Version B. Amended Sections 1.3, 2.1, 2.3, 2.8, 2.8.2, 2.8.3, 3.3, 3.4, 4.3, 5, 5.1, 5.2, 5.3, 5.4, 8.3, 8.4, 12.2, 12.3, 12.4, 14.2, 14.3, 14.4.
AQ2	■	■ (Alteration design)	31/07/12	Updates to incorporate Modification Sheet PAM/POL/MOD/004. Amended Sections 3.4, 8.4, 12.4, 14.4.
		■ (Record update)	07/02/13	
AW1	■	■	12/06/14	Updates to the changes associated with the Borders Railway Project in accordance with Design Specification 1801-BOR-TEC-DS-001 Issue 2, Signalling Scheme Plan 12-SC-0051 Version C and response to Technical Query MW392 (Rationalisation of Signalling Items for SMART). Amended Sections: 2.1, 3.3, 3.4, 4.3, 8.3, 8.4, 12.4 & 14.4.
AY1	■	■	22/01/15	Updates to the changes associated with the Haymarket to Inverkeithing Headway Improvements Project in accordance with Design Specification 2451-H2I-TEC-DS-001 Issue 1, Signalling Scheme Plans 10-SC-0041-1 and 10-SC-0041-2 Version D. Amended sections: 2.1, 2.6, 9.3, 12.3, 14.3.
BB1	■	■	14/02/17	Updates for the changes associated with the Edinburgh Glasgow Improvement Programme (EGIP) Project – Millerhill Stabling Facility in accordance with Design Specification 2308-EGP-TEC-DES-DS-001 Issue 3.0, Signalling Scheme Plan 13-SC-0007 Version F. Amended Sections: 2.1, 2.3, 2.8.3, 3.3, 3.4, 5, 5.1, 5.2, 5.3, 5.4, 8.3, 8.4, 12.3, 12.4, 14.3, 14.4

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RESONATE GROUP LTD	Name		Date
Produced			14/02/2017
Checked			14/2/2017

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

Print name	Signature	Date



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1 INTRODUCTION

1.1 Document Overview

This document defines the External Communications Subsystem (ECS) data requirements for Edinburgh Integrated Electronic Control Centre (IECC) A located at Edinburgh 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

ARS	Automatic Routesetting Subsystem
ECS	External Communication Subsystem
DIS	Flexible Display Subsystem
IDPM	IECC Data Preparation Manual
IECC	Integrated Electronic Control Centre
SC	Signalling Centre
SMART	Signal Monitoring and Reporting of Trains
TD	Train Descriptor

1.3 Related Documents

IECC Applications Manual Contents
IDPM 1302 External Communications

NR/SP/ SIG/10040 Issue 8
SAO-IEC-HD-56 Issue 4.1

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2 ECS OVERVIEW

2.1 All Berths known to the IECC

The following is a complete list of all berths in the IECC:

/IECC Control Area

A554	A555	A556	A557	A558	A561	A562	A563
A564	A567	A568	A572	A573	A574	A575	A831
A833	A834	A835	D466	D467	D468	D471	D472
D473	D484	D485	D486	D487	D492	D494	D495
D497	D498	D501	D504	D505	D506	D507	D508
D511	D512	D513	D514	D515	D806	D807	D811
D812	D813	D815	D817	D818	F516	F517	F518
F521	F522	F523	F524	F525	F526	F528	F531
F532	F533	F536	F537	F538	F541	F543	F544
F545	F546	F547	F548	F551	F552	F553	
F821	F822	G402	G403	G404	G405	G408	G409
G410	G411	G412	G413	G414	G415	G416	G417
G418	G419	G420	G421	G422	G423	G424	G425
G426	G427	G428	G429	G430	G431	G432	G433
G434	G435	G436	G438	G441	G442	G443	G444
G446	G447	G448	G450	G451	G452	G453	G454
G455	G456	G457	G458	G460	G461	G462	G463
G464	G465	G470	G474	G476	G713	G715	G721
G801	G804	M576	M578	M579	M580	M581	M586
M587	M596	M841	M844	ANBK	RNBK	CKZE	OUSG
ODSG		LSTM	APTM				
E422	E424	E425	E426	E427	E431	P598	P601
P602	P603	P604	P605	P607	P609	P610	P611
P612	P613	P614	P615	P616	P617	P618	P619
P621	P622	P623	P624	P627	P629	P633	P634
P635	P637	P852	P853	P854	P855	P858	P859
P860	P861	P864	C017	CGDP	CN01	CN02	CN03
CN04	UPSG	M028	M030	M595	M597	S670	S672
ANLU	ASLU	RNLU	RSLU	RSLD			
MNA1				LPBH	LSSL	LSNL	LSLH
LSSD				SDSD			
B652	B653	B654	B655	B656	B657	B664	B665
B666	B668	B671	B672	B673	B674	B879	B880
B886	B888	B893	B894	B895	B896	C762	K503
K504	K505	K508	K511	K512	K513	K516	K517
K835		K838	K842	K843	K844	R603	R604
R605	R606	R607	R611	R612	R613	R614	R871
R872	R873	R877	R878	T552	T553	T555	T556
T558	T562	T564	T566	T567	T568	T569	T573
T574	T763	T765	T766	T767	T768	T772	T773

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T774	T776	T777	T778	T779	T780	T782	T783
T865	T866	T867	T868	T947	T953	T968	
KNYD	KSYD	KHST		MTBR	TNYA	TNYB	WFBR
APBI	RPBI	SMBI	LSBI	RCWB	SMCB	LSCB	APCP
RCUP	LSCP	APHJ	RHLJ	LSHJ	D893	D895	
GL1U	GL1D	GL1C	GL2U	GL2D	GL2C	APDG	APUG
LSDG	LSUG	M004	M006	M007	M009	M012	M013
M014	M015	M016	M017	M019	M020	M023	M024
M025	M026	M027	M041	M043	M044	M046	M047
M049	M053	M055	M056	M057			
	MSF5	MSF6	MSF7	RDDG	RDUG	SDDG	SDUG
M021	M061	A241	B241	C241	F241	R241	A243
B243	C243	F243	R243	B244	B251	B252	B259
B260	B267	B268	B275	B276	B277	B287	B288
M022	M060	M065	M067	MD02	LEMA	LEMD	SEMA
SEMD	X065						

/ Edinburgh IECC B Fringe

E446	E448	A816	B816	E440	E453	E454	E432	E455
E456	E450	A436	B436	C436	A428	B428	C428	E444
E457	E458	E400	E459	E462				
E463	E465	E467	E471	A473	B473	C473	A475	B475
C475	A477	B477	C477	A479	B479	C479	A481	B481
C481	E483	A837	B837	C837	A485	B485	C485	A487
B487	C487	E489	E491	E482	E484	E486	E488	E493
E495	E497	E499						

/Slateford Fringe (from IECC B)

S671	S673	S674	S675	S676	S683	S684	S686	S687
S689								

/ Millerhill EMU Depot Fringe

EMUA EMUD

/Tweedmouth Fringe

T137	T139	T141						
T145	T147	T149	T151	T153	T155	T157	T159	T161
T163	T167	T169	T171	T327	T329	T333	T341	T001
T004	TMA1							

/ Cowdenbeath Fringe

C759

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/ Burntisland Fringe

U485 U486

/ Hilton Junction Fringe

HJ06 HJ07 HJ13 HJT1 HJT2 HJT3

/ Cupar Fringe

CP13 CP14 CP28 CPT1 CPT2

/ Additional berths for Workstation 3 Tdmaps

/From IECC C

			Y651	Y653	Y655	Y657	Y661	Y663
		V407	V411					
V425	V427	V431	V433	V435	U451	U455	U457	
U465	U467	U475	U477	U481	U483			
O705	O713	V413	V415	V417	V421	V423	O711	
O715	O717	O729	O731	O733	C753	LG04	LG23	V405
Y669	Y673	Y677	Y679	A013	A015	A019	A021	

/From Edinburgh TD

W603 W606 W608 W612 L614

2.2 Berths from Edinburgh IECC B

The following berths belong to TD Map Area: EDNB

/ Handover and approach berths between IECC A & B

E422 E424 E425 E426 E427 E431 P627 ANLU ASLU

/ IECC A Tdmaps from Edinburgh IECC B

E446	E448	A816	B816	E440	E453	E454	E432	E455	E456
E450	A436	B436	C436	A428	B428	C428	E444	E457	E458
E400	E459	E462							
E463	E465	E467	E471	A473	B473	C473	A475	B475	C475
A477	B477	C477	A479	B479	C479	A481	B481	C481	E483
A837	B837	C837	A485	B485	C485	A487	B487	C487	E489
E491	E482	E484	E486	E488	E493	E495	E497	E499	

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/Slateford Fringe

P637	S670	S671	S672	S673	S674	S675	S676	S683
S684	S686	S687	S689					

2.3 Berths from Millerhill EMU Depot TD

The following berths belong to TD Map Area: MEMU

EMUA EMUD

2.4 Berths from Tweedmouth TD

The following berths belong to TD Map Area: TMTH

G403	T137	T139						
T141	T145	T147	T149	T151	T153	T155	T157	T159
T161	T163	T167	T169	T171	T327	T329	T333	T341
T001	TMA1							

2.5 Berths from Hilton Junction TD

The following berths belong to TD Map Area: HLTN

B674 HJ06 HJ07

2.6 Berths from Cupar TD

The following berths belong to TD Map Area: CUPR

B666 CP13 CP14

2.7 Berths from Edinburgh IECC C

The following berths belong to TD Map Area: EDNC

/ Cowdenbeath Fringe

C759 C762 T766

/ Burntisland Fringe

U485 U486

/ Additional berths for Workstation 3 Tdmaps

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/From IECC C

			Y651	Y653	Y655	Y657	Y661	Y663
		V407	V411	V425	V427	V431	V433	V435
U451	U455	U457	U465	U467	U475	U477	U481	U483
O705	O713	V413	V415	V417	V421	V423	O711	
O715	O717	O729	O731	O733	C753	LG04	LG29	V405
Y669	Y673	Y677	Y679	A013	A015	A019	A021	

/From Edinburgh TD via IECC C

W603 W606 W608 W612 L614

2.8 Early Transmission & 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

No ARS strike-in berths are required.

2.8.2 Early Transmission Berths – DIS1

G403 TMA1 T001

2.8.3 Early Transmission Berths – DIS2

E422	E424	E425	E426	E427	E431	P627	ANLU	ASLU
EMUA	EMUD	M065	M067	MD02				
S670	S671	S672	P637					

2.8.4 Early Transmission Berths – DIS3

B666	B674	CP13	CP14	HJ06	HJ07	C762	T766		
U486	C753	C759	V431	V433	V435	U451	U455	U457	U465
U467	U475	U477	U481	U483	U485				

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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 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	ECS1	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 unit to the Standby ECS Unit and vice versa, EXCEPT:

/Internal IECC Approach, DRW, LAST Sent and Display Berths

CKZE	OUSG	ODSG	LSTM	APTM				
CGDP	CN01	CN02	CN03	CN04	UPSG	ANLU	ASLU	RNLU
RSLU	RSLD			LPBH	LSSL	LSNL		
LSLH	LSSD			SDSD				
KNYD	KSYD	KHST		TNYA	TNYB			
APBI	RPBI	SMBI	LSBI	RCWB	SMCB	LSCB	APCP	
RCUP	LSCP	APHJ	RHLJ	LSHJ	D893	D895	GL1C	GL2C
APDG	APUG	LSDG	LSUG	RDDG	RDUG	SDDG	SDUG	MSF5
MSF6	MSF7	LEMA	LEMD	SEMA	SEMD			

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.

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/Address 00 - 0F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
RA561-1M	RA562-1M	RA563-1M	RA567-1M	RA567-2S	RA568-1M	RA568-3S	RA572-1M
RA572-3S	RA574-1M	RA574-2M	RA831-1S	RA831-2S	RA833-1S	RA833-2S	RA834-1S
RA834-2S	RA835-1S	RD473-1M	RD484-1M	RD484-2S	RD484-3S	RD487-1M	RD487-2M
RD492-1M	RD494-1M	RD495-1M	RD497-1M	RD498-1M	RD498-2M	RD504-1M	RD806-1S
RD807-1S	RD811-1S	RD812-1S	RD812-2S	RD812-3S	RD813-1S	RD815-1S	RD815-2S
RD817-1S	RD818-1S	RD818-2S	RB241-AM	RB243-AM	RF533-1M	RF533-2M	RF536-1M
RF536-2M	RF537-1M	RF538-1M	RF538-2M	RF541-1M	RF543-1M	RF544-1M	RF544-2M
RF544-3W	RF544-4C	RF546-1M	RF821-1S	RF821-2S	RF822-1S	RF822-2S	RG435-1M
RG435-2M	RG435-3M	RG435-4M	RG436-1M	RG438-1M	RG441-1M	RG442-1M	RG442-2M
RG443-1M	RG444-1M	RG444-2M	RG447-1M	RG448-1M	RG463-1M	RG464-1M	RG464-2M
RG713-1M	RG713-2M	RG715-1M	RG715-2M	RG721-1M	RG801-1S	RG801-2S	RG804-1S
RG804-2S	RG804-3S	RG804-4S	RM581-1M	RM581-2M	RM586-1M	RM587-1M	RM596-1M
RM841-1S	RM844-1S	RP605-1M	RP605-2M	RP605-3M	RP607-1M	RP607-2M	RP607-3M
RP609-1M	RP609-2M	RP610-1M	RP610-2M	RP610-3M	RP612-1M	RP612-4S	RP612-2M
RP612-3M	RP613-1M	RP614-1M	RP615-1M	RP615-2M	RP616-1M	RP617-1M	RP619-1M
RP622-1M	RP622-2S	RP622-3S	RP622-4S	RP622-5S	RP622-6S	RP623-1M	RP624-1M

/Address 10 - 1F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
RP629-1M	RP631SLT	RP633-1M	RP634-1M	RP634-2M	RP852-1S	RP852-2S	RP853-1S
RP854-1S	RP854-2S	RP854-3S	RP854-4S	RP855-1S	RP858-1S	RP859-1S	RP860-1S
RP860-2S	RP860-3S	RP860-4S	RP861-1S	RP864-1S	RP864-2S	RP621-1M	RB244-AM
SEA554	RB244-AC	RB244-BM	RB244-BC	RB251-AM	SEA561	SEA562	SEA563
SEA564	SEA567	SEA568	SEA572	SEA573	SEA574	RB252-AM	SEA831
SEA833	SEA834	SEA835	SED468	SED472	SED473	SED484	SED485
SED486	SED487	SED492	SED494	SED495	SED497	SED498	SED501
SED504	SED513	SED514	SED806	SED807	SED811	SED812	SED813
SED815	SED817	SED818	SEF521	SEF522	SEF524	SEF532	SEF533
SEF536	SEF537	SEF538	SEF541	SEF543	SEF544	SEF546	SEF553
SEF821	SEF822	SEG402	SEG403	SEG412	SEG413	SEG421	SEG422
SEG423	SEG424	SEG427	SEG434	SEG435	SEG436	SEG438	SEG441
SEG442	SEG443	SEG444	SEG447	SEG448	SEG455	SEG456	SEG460
SEG463	SEG464	SEG713	SEG715	SEG721	SEG801	SEG804	RB259-AM
RB260-AM	RB267-AM	SEM580	SEM581	SEM586	SEM587	SEM595	SEM596
RB268-AM	SEM841	SEM844	SEP602	SEP603	SEP604	SEP605	SEP607

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/Address 20 – 2F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
SEP609	SEP610	SEP612	SEP613	SEP614	SEP615	SEP616	SEP617
SEP619	SEP621	SEP622	SEP623	SEP624	SEP627	SEP629	SEP631
SEP633	SEP634	SEP635	SEP852	SEP853	SEP854	SEP855	SEP858
SEP859	SEP860	SEP861	SEP864	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	RB655-1M	RB657-1M	RB657-2W	RB657-3M	RB657-4M	RB657-6C	RB657-7S
RB664-1M	RB665-1M	RB666-1M	RB668-1M	RB671-1M	RB672-1M	RB672-2S	RB673-1M
RB674-1M	RB676-1M	RB879-1S	RB880-1S	RB886-1S	RB888-1S	RB893-1S	RB894-1S
RB895-1S	RB896-1S	RB896-2S	RK503-1M	RK505-1M	RK505-2S	RK508-1M	RK835-1S
RK835-2S	RB275-AM	RB276-AM	RK838-1S	RK838-2S	RK842-1S	RK842-2S	RK843-1S
RK843-2S	RK844-1S	RK844-2S	RR603-1M	RR604-1M	RR605-1M	RR606-1M	RR871-1S
RR871-2S	RR872-1S	RR873-1S	RR877-1S	RR878-1S	RT553-1M	RT553-2M	RT553-3M

/Address 30 – 3F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
RT553-4M	RT555-1M	RT555-2M	RT556-1M	RT558-1M	RT562-1M	RT564-1M	RT566-1M
RT567-1M	RT567-2M	RT567-3M	RT568-1M	RT568-2M	RT568-3M	RT569-1M	RT573-1M
RT574-1M	RT574-2M	RT574-3M	RT763-1M	RT767-1M	RT767-2S	RT768-1M	RT772-1M
RT773-1M	RT774-1M	RT776-1M	RT776-2M	RT776-3M	RT776-4S	RT777-1M	RT778-1M
RT778-2S	RT779-1M	RT780-1M	RT780-2M	RT780-3S	RT782-1M	RT783-1M	RT783-2M
RT783-3C	RT783-4S	RT865-1S	RT865-2S	RT865-3S	RT865-4S	RT866-1S	RT867-1S
RT867-2S	RT868-1S	RT868-2S	RT947-1S	RT947-2S	RT953-1S	RT953-2S	RT953-3S
RT968-1S	RT968-2S	SEB655	SEB657	SEB664	SEB665	SEB666	SEB668
SEB671	SEB672	SEB673	SEB674	SEB879	SEB880	SEB886	SEB888
SEB893	SEB894	SEB895	SEB896	SEK503	SEK505	SEK508	SEK835
RB277-AM	SEK838	SEK842	SEK843	SEK844	SER603	SER604	SER605
SER606	SER871	SER872	SER873	SER877	SER878	SET553	SET555
SET556	SET558	SET562	SET564	SET566	SET567	SET568	SET569
SET573	SET574	SET763	SET767	SET768	SET772	SET773	SET774
SET776	SET777	SET778	SET779	SET780	SET782	SET783	SET865
SET866	SET867	SET868	SET947	SET953	SET968	-	-

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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/Address 40 – 4F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	RR8782S	RM4-1	RM6-1	RM7-1
RM7-2	RM7-3	RM9-1	RM9-2	RM9-3	RM12-1	RM12-2	RM12-3
RM13-1	RM15-1	RM16-1	RM16-2	RM17-1	RM19-1	RM20-1	RM21-1
RM23-1	RM24-1	RM24-2	RM24-3	RM24-4	RM25-1	RM25-2	RM26-1
RM27-1	RM28-1	RM28-2	RM30-1	RM30-2	RM41-1	RM41-2	RM43-1
RM43-2	RM44-1	RM44-2	RM44-3	RM46-1	RM47-1	RM49-1	RM49-2 -
RM49-3 -	RM53-1	RM53-2 -	RM53-3 -	RM55-1	RM55-2 -	RM55-3 -	RM56-1 -
RM56-2 -	RM56-3 -	RM57-1	RM57-2 -	SEM4	SEM6	SEM7	SEM9
SEM12	SEM13	RB287-AM	SEM15	SEM16	SEM17	SEM19	SEM20
SEM21	SEM23	SEM24	SEM25	SEM26	SEM27	SEM28	SEM30
SEM41	SEM43	SEM44	SEM46	SEM47	SEM49	SEM53	SEM55
SEM56	SEM57	RB288-AM	RM61-1	SMB241	SMB243	SMB244	SMB251

/Address 50 – 52 56

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
SMB252	SMB259	SMB260	SMB267	SMB268	SMB275	SMB276	SMB277
SMB287	SMB288	SEM61	-	-	L25TRS	LINEBLOCK	-
L241TRS	L243TRS	LSGKNGT	LSGFBTH	LSGGBBL	LSGTDBK	L9040RELN	L9041RELN
RM22-1M	RM22-1C	RM22-2	RM22-3	RM60-1	RM60-2	RM60-3	RM60-4
RM63-1	RM65-1	RM67-1	RMD2-1	SEM22	SEM60	SEM63	SEM65
SEM67	SMD2	L65TRS	L67TRS	L1201RELN	L1202RELN	LEMUDEPRELR	LEMUDEPRELS
LSGMDEPOT -		LM22RELR	LM22RELS -	-	-	-	-

3.5 Link Status

Links status sent to DIS1, DIS2 and DIS3.

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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4 ECS LINK TO EDINBURGH IECC B

4.1 Overview

This ECS remote system link operates from port 2. It is a link to Edinburgh IECC B 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	EDNB	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 Edinburgh IECC B:

/Portobello berths & Handover between IECC A & B

E422	P601	P602	P604	P605	P607	P609	P610	P611	P612
P613	P614	P615	P616	P617	P618	P619	P621	P622	P623
P624	P627	P633	P634	P635	P852	P853	P854	P855	P858
P859	P860	P861	P864	P603					

/ Slateford Fringe for handover and additional berths for IECC B MHPB TDmap

P637	S670	P629	MNA1	M021	M023	M025	M061
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/ IECC A berths for ECML TDmap

A554	A555	A556	A557	A558	A561	A562	A563
A564	A567	A568	A572	A573	A574	A575	F545
F546	F547	F548	F551	F552	F553	M576	M578
M579	M580	M581	M587	M595	M596	M597	P598

Changes in the contents of the following berths will be received by ECS from Edinburgh IECC B:

/ Handover and approach berths between IECC A & B

E422	E424	E425	E426	E427	E431	P627	ANLU	ASLU
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/ IECC A TDmaps from Edinburgh IECC B

E446	E448	A816	B816	E440	E453	E454	E432	E455	E456
E450	A436	B436	C436	A428	B428	C428	E444	E457	E458
E400	E459	E462							
E463	E465	E467	E471	A473	B473	C473	A475	B475	C475
A477	B477	C477	A479	B479	C479	A481	B481	C481	E483
A837	B837	C837	A485	B485	C485	A487	B487	C487	E489
E491	E482	E484	E486	E488	E493	E495	E497	E499	

/Slateford Fringe

P637	S670	S671	S672	S673	S674	S675	S676	S683
S684	S686	S687	S689					

4.4 Link Status

Links status sent to DIS1, DIS2 and DIS3.

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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5 SPARE LINK ECS LINK TO MILLERHILL EMU DEPOT TD

5.1 Overview

This ECS remote system link operates from port 3, and is a spare link. It is a link to Millerhill EMU Depot TD with TD type initialisation.

5.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	3	Time-Out Period (secs)	2
Physical Name	P3	Message Retry Count	3
Area	SPA1 MEMU	Message Retry Field Flag	Set
Protocol	BR1810	Incoming Message Header	EDAMLD
Baud Rate	1200	Outgoing Message Header	MLDEDA

5.3 Berths

For successful compilation, the following berth is transmitted:

MSF5

No berths are received on this link.

Changes in the contents of the following berths will be transmitted by ECS to Millerhill EMU Depot TD:

EMUA EMUD M022 M065 M067 MD02 X065

Changes in the contents of the following berths will be received by ECS from Millerhill EMU Depot TD:

EMUA EMUD

5.4 Link Status

No links status is available from the ECS. Link status sent to DIS2.

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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6 ECS LINK TO TWEEDMOUTH TD

6.1 Overview

This ECS remote system link operates from port 4. It is a link to Tweedmouth TD with **ETB** type initialisation.

6.2 Link Characteristics

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

6.3 Berths

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

G402	G403	G404	G405	G408	G409	G410	G411
G412	G413	G414	G415	G416	G417	G418	G419
G420	G421	G422	G423	G424	G425	G426	G427
G428	G429	G430	G431	G432	G433	G434	G435
G436	G438	G441	G442	G443	G444	G446	G447
G448	G450	G451	G452	G453	G454	G455	G456
G457	G458	G460	G461	G462	G463	G464	G465
G470	G474	G476	G713	G715	G721	D466	D467
D468	D471	D472	D473	D484	D485	D486	D487
D492	D494	D495	D497	D498	D501	D807	D813
D818	T004						

All the above berths shall be transmitted to Tweedmouth TD when the link is initialised, i.e. All the above berths shall be contained within the SENDSTART section.

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

G403	T137	T139						
T141	T145	T147	T149	T151	T153	T155	T157	T159
T161	T163	T167	T169	T171	T327	T329	T333	T341
T001	TMA1							

6.4 Link Status

Links status sent to DIS1.

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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7 ECS LINK TO CUPAR TD

7.1 Overview

This ECS remote system link operates from port 5. It is a link to Cupar TD with **ETB** type initialisation.

7.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	5	Baud Rate	1200
Physical Name	P5	Time-Out Period (secs)	2
Area	CUPR	Message Retry Count	3
Protocol	BR1810	Message Retry Field Flag	Set

7.3 Berths

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

B666 CP28 CPT1 CPT2

All the above berths shall be transmitted to Cupar TD when the link is initialised, i.e. All the above berths shall be contained within the SENDSTART section.

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

B666 CP13 CP14

7.4 Link Status

Links status sent to DIS3.

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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8 ECS INTER-UNIT LINK (2)

8.1 Overview

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

8.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	7	Baud Rate	19200
Physical Name	P7	Time-Out Period (secs)	1
Area	ECS2	Message Retry Count	8
Protocol	BR1810	Message Retry Field Flag	Set

8.3 Berths

Changes in the contents of **ALL** berths known to the IECC will be transmitted by the Master ECS unit to the Standby ECS Unit and vice versa, EXCEPT:

/Internal IECC Approach, DRW, LAST Sent and Display Berths

CKZE	OUSG	ODSG	LSTM	APTM				
CGDP	CN01	CN02	CN03	CN04	UPSG	ANLU	ASLU	RNLU
RSLU	RSLD			LPBH	LSSL	LSNL		
LSLH	LSSD			SDSD				
KNYD	KSYD	KHST		TNYA	TNYB			
APBI	RPBI	SMBI	LSBI	RCWB	SMCB	LSCB	APCP	
RCUP	LSCP	APHJ	RHLJ	LSHJ	D893	D895	GL1C	GL2C
APDG	APUG	LSDG	LSUG	RDDG	RDUG	SDDG	SDUG	MSF5
MSF6	MSF7	LEMA	LEMD	SEMA	SEMD			

8.4 Signalling Items

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

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/Address 00 - 0F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
RA561-1M	RA562-1M	RA563-1M	RA567-1M	RA567-2S	RA568-1M	RA568-3S	RA572-1M
RA572-3S	RA574-1M	RA574-2M	RA831-1S	RA831-2S	RA833-1S	RA833-2S	RA834-1S
RA834-2S	RA835-1S	RD473-1M	RD484-1M	RD484-2S	RD484-3S	RD487-1M	RD487-2M
RD492-1M	RD494-1M	RD495-1M	RD497-1M	RD498-1M	RD498-2M	RD504-1M	RD806-1S
RD807-1S	RD811-1S	RD812-1S	RD812-2S	RD812-3S	RD813-1S	RD815-1S	RD815-2S
RD817-1S	RD818-1S	RD818-2S	RB241-AM	RB243-AM	RF533-1M	RF533-2M	RF536-1M
RF536-2M	RF537-1M	RF538-1M	RF538-2M	RF541-1M	RF543-1M	RF544-1M	RF544-2M
RF544-3W	RF544-4C	RF546-1M	RF821-1S	RF821-2S	RF822-1S	RF822-2S	RG435-1M
RG435-2M	RG435-3M	RG435-4M	RG436-1M	RG438-1M	RG441-1M	RG442-1M	RG442-2M
RG443-1M	RG444-1M	RG444-2M	RG447-1M	RG448-1M	RG463-1M	RG464-1M	RG464-2M
RG713-1M	RG713-2M	RG715-1M	RG715-2M	RG721-1M	RG801-1S	RG801-2S	RG804-1S
RG804-2S	RG804-3S	RG804-4S	RM581-1M	RM581-2M	RM586-1M	RM587-1M	RM596-1M
RM841-1S	RM844-1S	RP605-1M	RP605-2M	RP605-3M	RP607-1M	RP607-2M	RP607-3M
RP609-1M	RP609-2M	RP610-1M	RP610-2M	RP610-3M	RP612-1M	RP612-4S	RP612-2M
RP612-3M	RP613-1M	RP614-1M	RP615-1M	RP615-2M	RP616-1M	RP617-1M	RP619-1M
RP622-1M	RP622-2S	RP622-3S	RP622-4S	RP622-5S	RP622-6S	RP623-1M	RP624-1M

/Address 10 - 1F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
RP629-1M	RP631SLT	RP633-1M	RP634-1M	RP634-2M	RP852-1S	RP852-2S	RP853-1S
RP854-1S	RP854-2S	RP854-3S	RP854-4S	RP855-1S	RP858-1S	RP859-1S	RP860-1S
RP860-2S	RP860-3S	RP860-4S	RP861-1S	RP864-1S	RP864-2S	RP621-1M	RB244-AM
SEA554	RB244-AC	RB244-BM	RB244-BC	RB251-AM	SEA561	SEA562	SEA563
SEA564	SEA567	SEA568	SEA572	SEA573	SEA574	RB252-AM	SEA831
SEA833	SEA834	SEA835	SED468	SED472	SED473	SED484	SED485
SED486	SED487	SED492	SED494	SED495	SED497	SED498	SED501
SED504	SED513	SED514	SED806	SED807	SED811	SED812	SED813
SED815	SED817	SED818	SEF521	SEF522	SEF524	SEF532	SEF533
SEF536	SEF537	SEF538	SEF541	SEF543	SEF544	SEF546	SEF553
SEF821	SEF822	SEG402	SEG403	SEG412	SEG413	SEG421	SEG422
SEG423	SEG424	SEG427	SEG434	SEG435	SEG436	SEG438	SEG441
SEG442	SEG443	SEG444	SEG447	SEG448	SEG455	SEG456	SEG460
SEG463	SEG464	SEG713	SEG715	SEG721	SEG801	SEG804	RB259-AM
RB260-AM	RB267-AM	SEM580	SEM581	SEM586	SEM587	SEM595	SEM596
RB268-AM	SEM841	SEM844	SEP602	SEP603	SEP604	SEP605	SEP607

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/Address 20 – 2F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
SEP609	SEP610	SEP612	SEP613	SEP614	SEP615	SEP616	SEP617
SEP619	SEP621	SEP622	SEP623	SEP624	SEP627	SEP629	SEP631
SEP633	SEP634	SEP635	SEP852	SEP853	SEP854	SEP855	SEP858
SEP859	SEP860	SEP861	SEP864	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	RB655-1M	RB657-1M	RB657-2W	RB657-3M	RB657-4M	RB657-6C	RB657-7S
RB664-1M	RB665-1M	RB666-1M	RB668-1M	RB671-1M	RB672-1M	RB672-2S	RB673-1M
RB674-1M	RB676-1M	RB879-1S	RB880-1S	RB886-1S	RB888-1S	RB893-1S	RB894-1S
RB895-1S	RB896-1S	RB896-2S	RK503-1M	RK505-1M	RK505-2S	RK508-1M	RK835-1S
RK835-2S	RB275-AM	RB276-AM	RK838-1S	RK838-2S	RK842-1S	RK842-2S	RK843-1S
RK843-2S	RK844-1S	RK844-2S	RR603-1M	RR604-1M	RR605-1M	RR606-1M	RR871-1S
RR871-2S	RR872-1S	RR873-1S	RR877-1S	RR878-1S	RT553-1M	RT553-2M	RT553-3M

/Address 30 – 3F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
RT553-4M	RT555-1M	RT555-2M	RT556-1M	RT558-1M	RT562-1M	RT564-1M	RT566-1M
RT567-1M	RT567-2M	RT567-3M	RT568-1M	RT568-2M	RT568-3M	RT569-1M	RT573-1M
RT574-1M	RT574-2M	RT574-3M	RT763-1M	RT767-1M	RT767-2S	RT768-1M	RT772-1M
RT773-1M	RT774-1M	RT776-1M	RT776-2M	RT776-3M	RT776-4S	RT777-1M	RT778-1M
RT778-2S	RT779-1M	RT780-1M	RT780-2M	RT780-3S	RT782-1M	RT783-1M	RT783-2M
RT783-3C	RT783-4S	RT865-1S	RT865-2S	RT865-3S	RT865-4S	RT866-1S	RT867-1S
RT867-2S	RT868-1S	RT868-2S	RT947-1S	RT947-2S	RT953-1S	RT953-2S	RT953-3S
RT968-1S	RT968-2S	SEB655	SEB657	SEB664	SEB665	SEB666	SEB668
SEB671	SEB672	SEB673	SEB674	SEB879	SEB880	SEB886	SEB888
SEB893	SEB894	SEB895	SEB896	SEK503	SEK505	SEK508	SEK835
RB277-AM	SEK838	SEK842	SEK843	SEK844	SER603	SER604	SER605
SER606	SER871	SER872	SER873	SER877	SER878	SET553	SET555
SET556	SET558	SET562	SET564	SET566	SET567	SET568	SET569
SET573	SET574	SET763	SET767	SET768	SET772	SET773	SET774
SET776	SET777	SET778	SET779	SET780	SET782	SET783	SET865
SET866	SET867	SET868	SET947	SET953	SET968	-	-

Version **AY1 BB1**

E60/A/IECC/DC/05

**EDINBURGH IECC A
EXTERNAL
COMMUNICATIONS
SPECIFICATION**

/Address 40 – 4F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	RR8782S	RM4-1	RM6-1	RM7-1
RM7-2	RM7-3	RM9-1	RM9-2	RM9-3	RM12-1	RM12-2	RM12-3
RM13-1	RM15-1	RM16-1	RM16-2	RM17-1	RM19-1	RM20-1	RM21-1
RM23-1	RM24-1	RM24-2	RM24-3	RM24-4	RM25-1	RM25-2	RM26-1
RM27-1	RM28-1	RM28-2	RM30-1	RM30-2	RM41-1	RM41-2	RM43-1
RM43-2	RM44-1	RM44-2	RM44-3	RM46-1	RM47-1	RM49-1	RM49-2 -
RM49-3 -	RM53-1	RM53-2 -	RM53-3 -	RM55-1	RM55-2 -	RM55-3 -	RM56-1 -
RM56-2 -	RM56-3 -	RM57-1	RM57-2 -	SEM4	SEM6	SEM7	SEM9
SEM12	SEM13	RB287-AM	SEM15	SEM16	SEM17	SEM19	SEM20
SEM21	SEM23	SEM24	SEM25	SEM26	SEM27	SEM28	SEM30
SEM41	SEM43	SEM44	SEM46	SEM47	SEM49	SEM53	SEM55
SEM56	SEM57	RB288-AM	RM61-1	SMB241	SMB243	SMB244	SMB251

/Address 50 – 52 56

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
SMB252	SMB259	SMB260	SMB267	SMB268	SMB275	SMB276	SMB277
SMB287	SMB288	SEM61	-	-	L25TRS	LINEBLOCK	-
L241TRS	L243TRS	LSGKNGT	LSGFBTH	LSGGBBL	LSGTDBK	L9040RELN	L9041RELN
RM22-1M	RM22-1C	RM22-2	RM22-3	RM60-1	RM60-2	RM60-3	RM60-4
RM63-1	RM65-1	RM67-1	RMD2-1	SEM22	SEM60	SEM63	SEM65
SEM67	SMD2	L65TRS	L67TRS	L1201RELN	L1202RELN	LEMUDEPRELR	LEMUDEPRELS
LSGMDEPOT -		LMD2RELR	LMD2RELS -	-	-	-	-

8.5 Link Status

Links status sent to DIS1, DIS2 and DIS3.

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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9 ECS LINK TO EDINBURGH IECC C

9.1 Overview

This ECS remote system link operates from port 8. It is a link to Edinburgh IECC C with **TD** type initialisation.

9.2 Link Characteristics

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

9.3 Berths

Changes in the contents of the following berths will be transmitted by ECS to Edinburgh IECC C:

/ Redford - Cowdenbeath

T768	T774	T780	T766	T772	T776	T782	T558	T556
C759	GL1U	GL2U	T763	T553	T868	T865		

/ Kirkcaldy - Burntisland

T568	T574	K504	K508	K512	K516	T552	T564	T566
K838	K842	K844	U485	U486				

Changes in the contents of the following berths will be received by ECS from Edinburgh IECC C:

/ Cowdenbeath

O705	O711	O713	O715	O717	O729	O731	O733	C753
C759	C762	V413	V415	V417	V421	V423	LG04	LG23
T766								

/ Dalmeny

			Y651	Y653	Y655	Y657	Y661	Y663
		V407	V411	W603	W606	W608	W612	L614
V405	Y669	Y673	Y677	Y679	A013	A015	A019	A021

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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/Fife

V425	V427	V431	V433	V435	U451	U455	U457	U465
U467	U475	U477	U481	U483	U485	U486		

9.4 Link Status

Links status sent to DIS3.

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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10 ECS LINK (1) TO CALEDONIAN RII

10.1 Overview

This ECS remote system link operates from port 13. It is a link to the Caledonian RII Channel 1 on IECC B with **ETB** type initialisation.

10.2 Link Characteristics

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

10.3 Signalling Items

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

RP6151M

Changes on the status of the following signalling items will be received by the ECS from Caledonian RII Link 1:

None

10.4 Link Status

No links status is available from the ECS.

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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11 ECS LINK TO HILTON JUNCTION TD

11.1 Overview

This ECS remote system link operates from port 14. It is a link to Hilton Junction TD with **ETB** type initialisation.

11.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	14	Baud Rate	1200
Physical Name	PE	Time-Out Period (secs)	2
Area	HLTN	Message Retry Count	3
Protocol	BR1810	Message Retry Field Flag	Set

11.3 Berths

Changes in the contents of the following berths will be transmitted by ECS to Hilton Junction TD:

B672 B674 HJ13 HJT1 HJT2 HJT3

All the above berths shall be transmitted to Hilton Junction TD when the link is initialised, i.e. All the above berths shall be contained within the SENDSTART section.

Changes in the contents of the following berths will be received by ECS from Hilton Junction TD:

B674 HJ06 HJ07

11.4 Link Status

Links status sent to DIS3.

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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12 ECS LINK TO SMART PC LINK 1

12.1 Overview

This ECS remote system link operates from port 17. It is a link to SMART PC with **ETB** type initialisation.

12.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	17	Baud Rate	9600
Physical Name	PH	Time-Out Period (secs)	2
Area	EDNA	Message Retry Count	3
Protocol	BR1810	Message Retry Field Flag	Set

12.3 Berths

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

/ Edinburgh IECC B Berths

E446	E448	A816	B816	E440	E453	E454	E432	E455	E456
E450	A436	B436	C436	A428	B428	C428	E444	E457	E458
E400	E459	E462							
E463	E465	E467	E471	A473	B473	C473	A475	B475	C475
A477	B477	C477	A479	B479	C479	A481	B481	C481	E483
A837	B837	C837	A485	B485	C485	A487	B487	C487	E489
E491	E482	E484	E486	E488	E493	E495	E497	E499	
E422	E424	E425	E426	E427	E431				

/Tweedmouth Berths

T137	T139	T141							
T145	T147	T149	T151	T153	T155	T157	T159	T161	
T163	T167	T169	T171	T327	T329	T333	T341	TMA1	

/Slateford Fringe

S671	S673	S674	S675	S676	S683	S684	S686	S687	
S689	S670	S672							

/ Hilton Junction Fringe

HJT1	HJT2	HJT3							
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Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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/ Cupar Fringe

CPT1 CPT2

/ Cowdenbeath Fringe (via IECC B/Edinburgh TD)

C762

/ Additional berths from Edinburgh TD for Workstation 3 Tdmaps and ARS

			Y651	Y653	Y655	Y657	Y661	Y663
		V407	V411	W603	W606	W608	W612	L614
V425	V427	V431	V433	V435	U451	U455	U457	
U465	U467	U475	U477	U481	U483			
O705	O713	V413	V415	V417	V421	V423	O711	
O715	O717	O729	O731	O733	C753	LG04	LG23	V405
Y669	Y673	Y677	Y679	A013	A015	A019	A021	

/Internal IECC Approach, DRW, LAST Sent and Display Berths

CKZE	OUSG	ODSG	LSTM	APTM				
CGDP	CN01	CN02	CN03	CN04	UPSG	ANLU	ASLU	RNLU
RSLU	RSLD			LPBH	LSSL	LSNL		
LSLH	LSSD			SDSD				
KNYD	KSYD	KHST		TNYA	TNYB			
APBI	RPBI	SMBI	LSBI	RCWB	SMCB	LSCB	APCP	
RCUP	LSCP	APHJ	RHLJ	LSHJ	D893	D895	GL1C	GL2C
APDG	APUG	LSDG	LSUG	RDDG	RDUG	SDDG	SDUG	MSF5
MSF6	MSF7	LEMA	LEMD	SEMA	SEMD			

All except the above berths shall be transmitted to SMART PC Link 1 when the link is initialised, i.e. All except the above berths should be contained within the SENDSTART section.

Changes in the contents of the following berth will be received by ECS from SMART PC LINK 1:

None

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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12.4 Signalling Items

Note: Total number of required berths + S-class items on this link and the Interlinks exceeds the IECC limit of 1024. Therefore, S-class items have been rationalised in order to bring the limit back down under 1024.

Changes on the status of the following signalling items will be transmitted by the 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
RA561-1M	RA562-1M	RA563-1M	RA567-1M	RA567-2S	RA568-1M	RA568-3S	RA572-1M
RA572-3S	RA574-1M	RA574-2M	RA831-1S	RA831-2S	RA833-1S	RA833-2S	RA834-1S
RA834-2S	RA835-1S	RD473-1M	RD484-1M	RD484-2S	RD484-3S	RD487-1M	RD487-2M
RD492-1M	RD494-1M	RD495-1M	RD497-1M	RD498-1M	RD498-2M	RD504-1M	RD806-1S
RD807-1S	RD811-1S	RD812-1S	RD812-2S	RD812-3S	RD813-1S	RD815-1S	RD815-2S
RD817-1S	RD818-1S	RD818-2S	RB241-AM	RB243-AM	RF533-1M	RF533-2M	RF536-1M
RF536-2M	RF537-1M	RF538-1M	RF538-2M	RF541-1M	RF543-1M	RF544-1M	RF544-2M
RF544-3W	RF544-4C	RF546-1M	RF821-1S	RF821-2S	RF822-1S	RF822-2S	RG435-1M
RG435-2M	RG435-3M	RG435-4M	RG436-1M	RG438-1M	RG441-1M	RG442-1M	RG442-2M
RG443-1M	RG444-1M	RG444-2M	RG447-1M	RG448-1M	RG463-1M	RG464-1M	RG464-2M
RG713-1M	RG713-2M	RG715-1M	RG715-2M	RG721-1M	RG801-1S	RG801-2S	RG804-1S
RG804-2S	RG804-3S	RG804-4S	RM581-1M	RM581-2M	RM586-1M	RM587-1M	RM596-1M
RM841-1S	RM844-1S	RP605-1M	RP605-2M	RP605-3M	RP607-1M	RP607-2M	RP607-3M
RP609-1M	RP609-2M	RP610-1M	RP610-2M	RP610-3M	RP612-1M	RP612-4S	RP612-2M
RP612-3M	RP613-1M	RP614-1M	RP615-1M	RP615-2M	RP616-1M	RP617-1M	RP619-1M
RP622-1M	RP622-2S	RP622-3S	RP622-4S	RP622-5S	RP622-6S	RP623-1M	RP624-1M

/Address 10 - 1F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
RP629-1M	RP631SLT	RP633-1M	RP634-1M	RP634-2M	RP852-1S	RP852-2S	RP853-1S
RP854-1S	RP854-2S	RP854-3S	RP854-4S	RP855-1S	RP858-1S	RP859-1S	RP860-1S
RP860-2S	RP860-3S	RP860-4S	RP861-1S	RP864-1S	RP864-2S	RP621-1M	RB244-AM
SEA554	RB244-AC	RB244-BM	RB244-BC	RB251-AM	SEA561	SEA562	SEA563
SEA564	SEA567	SEA568	SEA572	SEA573	SEA574	RB252-AM	SEA831
SEA833	SEA834	SEA835	SED468	SED472	SED473	SED484	SED485
SED486	SED487	SED492	SED494	SED495	SED497	SED498	SED501
SED504	SED513	SED514	SED806	SED807	SED811	SED812	SED813
SED815	SED817	SED818	SEF521	SEF522	SEF524	SEF532	SEF533
SEF536	SEF537	SEF538	SEF541	SEF543	SEF544	SEF546	SEF553
SEF821	SEF822	SEG402	SEG403	SEG412	SEG413	SEG421	SEG422
SEG423	SEG424	SEG427	SEG434	SEG435	SEG436	SEG438	SEG441
SEG442	SEG443	SEG444	SEG447	SEG448	SEG455	SEG456	SEG460
SEG463	SEG464	SEG713	SEG715	SEG721	SEG801	SEG804	RB259-AM
RB260-AM	RB267-AM	SEM580	SEM581	SEM586	SEM587	SEM595	SEM596
RB268-AM	SEM841	SEM844	SEP602	SEP603	SEP604	SEP605	SEP607

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/Address 20 – 2F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
SEP609	SEP610	SEP612	SEP613	SEP614	SEP615	SEP616	SEP617
SEP619	SEP621	SEP622	SEP623	SEP624	SEP627	SEP629	SEP631
SEP633	SEP634	SEP635	SEP852	SEP853	SEP854	SEP855	SEP858
SEP859	SEP860	SEP861	SEP864	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	RB655-1M	RB657-1M	RB657-2W	RB657-3M	RB657-4M	RB657-6C	RB657-7S
RB664-1M	RB665-1M	RB666-1M	RB668-1M	RB671-1M	RB672-1M	RB672-2S	RB673-1M
RB674-1M	RB676-1M	RB879-1S	RB880-1S	RB886-1S	RB888-1S	RB893-1S	RB894-1S
RB895-1S	RB896-1S	RB896-2S	RK503-1M	RK505-1M	RK505-2S	RK508-1M	RK835-1S
RK835-2S	RB275-AM	RB276-AM	RK838-1S	RK838-2S	RK842-1S	RK842-2S	RK843-1S
RK843-2S	RK844-1S	RK844-2S	RR603-1M	RR604-1M	RR605-1M	RR606-1M	RR871-1S
RR871-2S	RR872-1S	RR873-1S	RR877-1S	RR878-1S	RT553-1M	RT553-2M	RT553-3M

/Address 30 – 3F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
RT553-4M	RT555-1M	RT555-2M	RT556-1M	RT558-1M	RT562-1M	RT564-1M	RT566-1M
RT567-1M	RT567-2M	RT567-3M	RT568-1M	RT568-2M	RT568-3M	RT569-1M	RT573-1M
RT574-1M	RT574-2M	RT574-3M	RT763-1M	RT767-1M	RT767-2S	RT768-1M	RT772-1M
RT773-1M	RT774-1M	RT776-1M	RT776-2M	RT776-3M	RT776-4S	RT777-1M	RT778-1M
RT778-2S	RT779-1M	RT780-1M	RT780-2M	RT780-3S	RT782-1M	RT783-1M	RT783-2M
RT783-3C	RT783-4S	RT865-1S	RT865-2S	RT865-3S	RT865-4S	RT866-1S	RT867-1S
RT867-2S	RT868-1S	RT868-2S	RT947-1S	RT947-2S	RT953-1S	RT953-2S	RT953-3S
RT968-1S	RT968-2S	SEB655	SEB657	SEB664	SEB665	SEB666	SEB668
SEB671	SEB672	SEB673	SEB674	SEB879	SEB880	SEB886	SEB888
SEB893	SEB894	SEB895	SEB896	SEK503	SEK505	SEK508	SEK835
RB277-AM	SEK838	SEK842	SEK843	SEK844	SER603	SER604	SER605
SER606	SER871	SER872	SER873	SER877	SER878	SET553	SET555
SET556	SET558	SET562	SET564	SET566	SET567	SET568	SET569
SET573	SET574	SET763	SET767	SET768	SET772	SET773	SET774
SET776	SET777	SET778	SET779	SET780	SET782	SET783	SET865
SET866	SET867	SET868	SET947	SET953	SET968	-	-

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/Address 40 – 4F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	RR8782S	RM4-1	RM6-1	RM7-1
RM7-2	RM7-3	RM9-1	RM9-2	RM9-3	RM12-1	RM12-2	RM12-3
RM13-1	RM15-1	RM16-1	RM16-2	RM17-1	RM19-1	RM20-1	RM21-1
RM23-1	RM24-1	RM24-2	RM24-3	RM24-4	RM25-1	RM25-2	RM26-1
RM27-1	RM28-1	RM28-2	RM30-1	RM30-2	RM41-1	RM41-2	RM43-1
RM43-2	RM44-1	RM44-2	RM44-3	RM46-1	RM47-1	RM49-1	RM49-2 -
RM49-3 -	RM53-1	RM53-2 -	RM53-3 -	RM55-1	RM55-2 -	RM55-3 -	RM56-1 -
RM56-2 -	RM56-3 -	RM57-1	RM57-2 -	SEM4	SEM6	SEM7	SEM9
SEM12	SEM13	RB287-AM	SEM15	SEM16	SEM17	SEM19	SEM20
SEM21	SEM23	SEM24	SEM25	SEM26	SEM27	SEM28	SEM30
SEM41	SEM43	SEM44	SEM46	SEM47	SEM49	SEM53	SEM55
SEM56	SEM57	RB288-AM	RM61-1	SMB241	SMB243	SMB244	SMB251

/Address 50 – 52 56

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
SMB252	SMB259	SMB260	SMB267	SMB268	SMB275	SMB276	SMB277
SMB287	SMB288	SEM61	-	-	L25TRS	LINEBLOCK	-
L241TRS	L243TRS	LSGKNGT	LSGFBTH	LSGGBBL	LSGTDBK	L9040RELN	L9041RELN
RM22-1M	RM22-1C	RM22-2	RM22-3	RM60-1	RM60-2	RM60-3	RM60-4
RM63-1	RM65-1	RM67-1	RMD2-1	SEM22	SEM60	SEM63	SEM65
SEM67	SMD2	L65TRS	L67TRS	L1201RELN	L1202RELN	LEMUDEPRELR	LEMUDEPRELS
LSGMDEPOT -		LMD2RELR	LMD2RELS -	-	-	-	-

Changes on the status of the following signalling items will be received by the ECS from SMART PC LINK 1:

None

12.5 Link Status

Links status sent to DIS1, DIS2 and DIS3.

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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13 ECS LINK (2) TO CALEDONIAN RII

13.1 Overview

This ECS remote system link operates from port 19. It is a link to the Caledonian RII Channel 2 on IECC B with **ETB** type initialisation.

13.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	19	Baud Rate	1200
Physical Name	PJ	Time-Out Period (secs)	N/A
Area	CRII	Message Retry Count	N/A
Protocol	S2	Message Retry Field Flag	N/A

13.3 Signalling Items

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

RP6151M

Changes on the status of the following signalling items will be received by the ECS from Caledonian RII Link 2:

None

13.4 Link Status

No links status is available from the ECS.

Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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14 ECS LINK TO SMART PC LINK 2

14.1 Overview

This ECS remote system link operates from port 23. It is a link to SMART PC with **ETB** type initialisation.

14.2 Link Characteristics

LINK CHARACTERISTICS			
Port(s)	23	Baud Rate	9600
Physical Name	PN	Time-Out Period (secs)	2
Area	EDNA	Message Retry Count	3
Protocol	BR1810	Message Retry Field Flag	Set

14.3 Berths

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

/ Edinburgh IECC B Berths

E446	E448	A816	B816	E440	E453	E454	E432	E455	E456
E450	A436	B436	C436	A428	B428	C428	E444	E457	E458
E400	E459	E462							
E463	E465	E467	E471	A473	B473	C473	A475	B475	C475
A477	B477	C477	A479	B479	C479	A481	B481	C481	E483
A837	B837	C837	A485	B485	C485	A487	B487	C487	E489
E491	E482	E484	E486	E488	E493	E495	E497	E499	
E422	E424	E425	E426	E427	E431				

/Tweedmouth Berths

T137	T139	T141							
T145	T147	T149	T151	T153	T155	T157	T159	T161	
T163	T167	T169	T171	T327	T329	T333	T341	TMA1	

/Slateford Fringe

S671	S673	S674	S675	S676	S683	S684	S686	S687	
S689	S670	S672							

/ Hilton Junction Fringe

HJT1	HJT2	HJT3							
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Version AY1 BB1	E60/A/IECC/DC/05	EDINBURGH IECC A EXTERNAL COMMUNICATIONS SPECIFICATION
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/ Cupar Fringe

CPT1 CPT2

/ Cowdenbeath Fringe (via IECC B/Edinburgh TD)

C762

/ Additional berths from Edinburgh TD for Workstation 3 Tdmaps and ARS

			Y651	Y653	Y655	Y657	Y661	Y663
		V407	V411	W603	W606	W608	W612	L614
V425	V427	V431	V433	V435	U451	U455	U457	
U465	U467	U475	U477	U481	U483			
O705	O713	V413	V415	V417	V421	V423	O711	
O715	O717	O729	O731	O733	C753	LG04	LG23	V405
Y669	Y673	Y677	Y679	A013	A015	A019	A021	

/Internal IECC Approach, DRW, LAST Sent and Display Berths

CKZE	OUSG	ODSG	LSTM	APTM				
CGDP	CN01	CN02	CN03	CN04	UPSG	ANLU	ASLU	RNLU
RSLU	RSLD			LPBH	LSSL	LSNL		
LSLH	LSSD			SDSD				
KNYD	KSYD	KHST		TNYA	TNYB			
APBI	RPBI	SMBI	LSBI	RCWB	SMCB	LSCB	APCP	
RCUP	LSCP	APHJ	RHLJ	LSHJ	D893	D895	GL1C	GL2C
APDG	APUG	LSDG	LSUG	RDDG	RDUG	SDDG	SDUG	MSF5
MSF6	MSF7	LEMA	LEMD	SEMA	SEMD			

All except the above berths shall be transmitted to SMART PC Link 2 when the link is initialised, i.e. All except the above berths should be contained within the SENDSTART section.

Changes in the contents of the following berth will be received by ECS from SMART PC LINK 2:

None

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14.4 Signalling Items

Note: Total number of required berths + S-class items on this link and the Interlinks exceeds the IECC limit of 1024. Therefore, S-class items have been rationalised in order to bring the limit back down under 1024.

Changes on the status of the following signalling items will be transmitted by the 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
RA561-1M	RA562-1M	RA563-1M	RA567-1M	RA567-2S	RA568-1M	RA568-3S	RA572-1M
RA572-3S	RA574-1M	RA574-2M	RA831-1S	RA831-2S	RA833-1S	RA833-2S	RA834-1S
RA834-2S	RA835-1S	RD473-1M	RD484-1M	RD484-2S	RD484-3S	RD487-1M	RD487-2M
RD492-1M	RD494-1M	RD495-1M	RD497-1M	RD498-1M	RD498-2M	RD504-1M	RD806-1S
RD807-1S	RD811-1S	RD812-1S	RD812-2S	RD812-3S	RD813-1S	RD815-1S	RD815-2S
RD817-1S	RD818-1S	RD818-2S	RB241-AM	RB243-AM	RF533-1M	RF533-2M	RF536-1M
RF536-2M	RF537-1M	RF538-1M	RF538-2M	RF541-1M	RF543-1M	RF544-1M	RF544-2M
RF544-3W	RF544-4C	RF546-1M	RF821-1S	RF821-2S	RF822-1S	RF822-2S	RG435-1M
RG435-2M	RG435-3M	RG435-4M	RG436-1M	RG438-1M	RG441-1M	RG442-1M	RG442-2M
RG443-1M	RG444-1M	RG444-2M	RG447-1M	RG448-1M	RG463-1M	RG464-1M	RG464-2M
RG713-1M	RG713-2M	RG715-1M	RG715-2M	RG721-1M	RG801-1S	RG801-2S	RG804-1S
RG804-2S	RG804-3S	RG804-4S	RM581-1M	RM581-2M	RM586-1M	RM587-1M	RM596-1M
RM841-1S	RM844-1S	RP605-1M	RP605-2M	RP605-3M	RP607-1M	RP607-2M	RP607-3M
RP609-1M	RP609-2M	RP610-1M	RP610-2M	RP610-3M	RP612-1M	RP612-4S	RP612-2M
RP612-3M	RP613-1M	RP614-1M	RP615-1M	RP615-2M	RP616-1M	RP617-1M	RP619-1M
RP622-1M	RP622-2S	RP622-3S	RP622-4S	RP622-5S	RP622-6S	RP623-1M	RP624-1M

/Address 10 - 1F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
RP629-1M	RP631SLT	RP633-1M	RP634-1M	RP634-2M	RP852-1S	RP852-2S	RP853-1S
RP854-1S	RP854-2S	RP854-3S	RP854-4S	RP855-1S	RP858-1S	RP859-1S	RP860-1S
RP860-2S	RP860-3S	RP860-4S	RP861-1S	RP864-1S	RP864-2S	RP621-1M	RB244-AM
SEA554	RB244-AC	RB244-BM	RB244-BC	RB251-AM	SEA561	SEA562	SEA563
SEA564	SEA567	SEA568	SEA572	SEA573	SEA574	RB252-AM	SEA831
SEA833	SEA834	SEA835	SED468	SED472	SED473	SED484	SED485
SED486	SED487	SED492	SED494	SED495	SED497	SED498	SED501
SED504	SED513	SED514	SED806	SED807	SED811	SED812	SED813
SED815	SED817	SED818	SEF521	SEF522	SEF524	SEF532	SEF533
SEF536	SEF537	SEF538	SEF541	SEF543	SEF544	SEF546	SEF553
SEF821	SEF822	SEG402	SEG403	SEG412	SEG413	SEG421	SEG422
SEG423	SEG424	SEG427	SEG434	SEG435	SEG436	SEG438	SEG441
SEG442	SEG443	SEG444	SEG447	SEG448	SEG455	SEG456	SEG460
SEG463	SEG464	SEG713	SEG715	SEG721	SEG801	SEG804	RB259-AM
RB260-AM	RB267-AM	SEM580	SEM581	SEM586	SEM587	SEM595	SEM596
RB268-AM	SEM841	SEM844	SEP602	SEP603	SEP604	SEP605	SEP607

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/Address 20 – 2F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
SEP609	SEP610	SEP612	SEP613	SEP614	SEP615	SEP616	SEP617
SEP619	SEP621	SEP622	SEP623	SEP624	SEP627	SEP629	SEP631
SEP633	SEP634	SEP635	SEP852	SEP853	SEP854	SEP855	SEP858
SEP859	SEP860	SEP861	SEP864	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	RB655-1M	RB657-1M	RB657-2W	RB657-3M	RB657-4M	RB657-6C	RB657-7S
RB664-1M	RB665-1M	RB666-1M	RB668-1M	RB671-1M	RB672-1M	RB672-2S	RB673-1M
RB674-1M	RB676-1M	RB879-1S	RB880-1S	RB886-1S	RB888-1S	RB893-1S	RB894-1S
RB895-1S	RB896-1S	RB896-2S	RK503-1M	RK505-1M	RK505-2S	RK508-1M	RK835-1S
RK835-2S	RB275-AM	RB276-AM	RK838-1S	RK838-2S	RK842-1S	RK842-2S	RK843-1S
RK843-2S	RK844-1S	RK844-2S	RR603-1M	RR604-1M	RR605-1M	RR606-1M	RR871-1S
RR871-2S	RR872-1S	RR873-1S	RR877-1S	RR878-1S	RT553-1M	RT553-2M	RT553-3M

/Address 30 – 3F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
RT553-4M	RT555-1M	RT555-2M	RT556-1M	RT558-1M	RT562-1M	RT564-1M	RT566-1M
RT567-1M	RT567-2M	RT567-3M	RT568-1M	RT568-2M	RT568-3M	RT569-1M	RT573-1M
RT574-1M	RT574-2M	RT574-3M	RT763-1M	RT767-1M	RT767-2S	RT768-1M	RT772-1M
RT773-1M	RT774-1M	RT776-1M	RT776-2M	RT776-3M	RT776-4S	RT777-1M	RT778-1M
RT778-2S	RT779-1M	RT780-1M	RT780-2M	RT780-3S	RT782-1M	RT783-1M	RT783-2M
RT783-3C	RT783-4S	RT865-1S	RT865-2S	RT865-3S	RT865-4S	RT866-1S	RT867-1S
RT867-2S	RT868-1S	RT868-2S	RT947-1S	RT947-2S	RT953-1S	RT953-2S	RT953-3S
RT968-1S	RT968-2S	SEB655	SEB657	SEB664	SEB665	SEB666	SEB668
SEB671	SEB672	SEB673	SEB674	SEB879	SEB880	SEB886	SEB888
SEB893	SEB894	SEB895	SEB896	SEK503	SEK505	SEK508	SEK835
RB277-AM	SEK838	SEK842	SEK843	SEK844	SER603	SER604	SER605
SER606	SER871	SER872	SER873	SER877	SER878	SET553	SET555
SET556	SET558	SET562	SET564	SET566	SET567	SET568	SET569
SET573	SET574	SET763	SET767	SET768	SET772	SET773	SET774
SET776	SET777	SET778	SET779	SET780	SET782	SET783	SET865
SET866	SET867	SET868	SET947	SET953	SET968	-	-

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/Address 40 – 4F

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	RR8782S	RM4-1	RM6-1	RM7-1
RM7-2	RM7-3	RM9-1	RM9-2	RM9-3	RM12-1	RM12-2	RM12-3
RM13-1	RM15-1	RM16-1	RM16-2	RM17-1	RM19-1	RM20-1	RM21-1
RM23-1	RM24-1	RM24-2	RM24-3	RM24-4	RM25-1	RM25-2	RM26-1
RM27-1	RM28-1	RM28-2	RM30-1	RM30-2	RM41-1	RM41-2	RM43-1
RM43-2	RM44-1	RM44-2	RM44-3	RM46-1	RM47-1	RM49-1	RM49-2 -
RM49-3 -	RM53-1	RM53-2 -	RM53-3 -	RM55-1	RM55-2 -	RM55-3 -	RM56-1 -
RM56-2 -	RM56-3 -	RM57-1	RM57-2 -	SEM4	SEM6	SEM7	SEM9
SEM12	SEM13	RB287-AM	SEM15	SEM16	SEM17	SEM19	SEM20
SEM21	SEM23	SEM24	SEM25	SEM26	SEM27	SEM28	SEM30
SEM41	SEM43	SEM44	SEM46	SEM47	SEM49	SEM53	SEM55
SEM56	SEM57	RB288-AM	RM61-1	SMB241	SMB243	SMB244	SMB251

/Address 50 – 52 56

BIT 1	BIT 2	BIT 3	BIT 4	BIT 5	BIT 6	BIT 7	BIT 8
SMB252	SMB259	SMB260	SMB267	SMB268	SMB275	SMB276	SMB277
SMB287	SMB288	SEM61	-	-	L25TRS	LINEBLOCK	-
L241TRS	L243TRS	LSGKNGT	LSGFBTH	LSGGBBL	LSGTDBK	L9040RELN	L9041RELN
RM22-1M	RM22-1C	RM22-2	RM22-3	RM60-1	RM60-2	RM60-3	RM60-4
RM63-1	RM65-1	RM67-1	RMD2-1	SEM22	SEM60	SEM63	SEM65
SEM67	SMD2	L65TRS	L67TRS	L1201RELN	L1202RELN	LEMUDEPRELR	LEMUDEPRELS
LSGMDEPOT -		LMD2RELR	LMD2RELS -	-	-	-	-

Changes on the status of the following signalling items will be received by the ECS from SMART PC LINK 2:

None

14.5 Link Status

Links status sent to DIS1, DIS2 and DIS3.

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