DOCKLANDS LIGHT RAILWAY Ltd

AUDIO and VISUAL INFORMATION SYSTEM

(AVIS)

AVIS 2 Data Requirements Document (B2007)

Stakeholders Approval			
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Updates in issue 14
1 Correction to SDO text and audio messages.
2 Correction to CUS and PRR destination messages
3 Correction to audio phase 16521

Affects
Message type 2, 3, 5, 6, 7 and 8 have been modified (messages only, no change to Thales triggers).
Modification to text and audio (messages only, no changes to Thales triggers).
Update documentation to reflect audio file (documentation only, no changes to Thales triggers).

Issue	1	2	3	4	5	6	7	8	9	10	11	12	13	14	14b
Date	06/10/2001	14/3/2002	11/06/2002	01/08/2003	19/12/2003	14/08/2005	03/03/2006	25/01/2008	31/07/2009	10/11/2009	23/11/2009	04/02/2010	11/02/2010	16/02/2010	06/07/2010
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Note: Text highlighted in red indicates additions within the document whilst text highlighted in green indicates a removal since last issue.

Notes to AVIS spreadsheet.

Scenarios.
This page shows the sequence of messages for the most typical operating scenarios. Any additional scenarios which are encountered should use the same principles.
Each scenario has been shown with one of the relevant lines, this is just for example, the same scenarios exist for other lines.
The message reference numbers given allow for a cross check to the individual message lists.

Type 1.
This message type should be triggered as soon as the train starts to move from selected station, it applies whenever the next station is not a terminal for the train concerned.
As the message id. Identifies the 'next open station' each message can be triggered from a number of locations and for trains on several lines.
Example 1.
Message 18, 'next stop Devons Road' may be triggered on departure from Langdon Park 1, or from All Saints 1if Langdon Park is closed, etc. in the down direction. In the up direction it may be triggered from Bow Church 1, Bow Church 2, or from Pudding Mill Lane if Bow Church is closed etc. This would apply to lines 4, 6, 13, 20, 24, 26, 29, 33, 49, 64, 68, 73, etc. Message 18 may also be triggered departing from these platforms and also from departing Langdon Park 2 in the down direction for any shuttles set up to run through Devons Road.
Where 'DESTINATION' appears in the message the display should use the destination from the last type 4 message received. The display format to be as given on the 'Destination Listing'.

Type 2.
This message type is triggered on the approach to a station allowing sufficient time for the audio message to be completed before the train stops in the platform, it should be noted that the messages for interchange stations are quite long and require more time than a standard message. It applies on approach to all stations except terminals or exit stations where a type 6 message is used.

For most stations the message will be used for all approaches but for main interchange stations different messages are needed depending on the specific approach and line that the train is on. The notes in the trigger section of the list summarise the purpose of each message. Any other approaches not mentioned such as wrong line running (eg. shuttles) should use the most appropriate message, if in doubt consult DLRL.
For stations with Selective Door Opening (SDO) alternative approach messages are provided for use only with 3-car trains.

Where 'DESTINATION' appears in the message the display or announcement should use the destination from the last type 4 message received. The display format to be as given on the 'Destination Listing'.
Security announcements will be made at selected stations, reminding passengers to take all their belongings with them.

Type 3.
This message type is straightforward and is used in all cases except where the train's next move is 'out of service'.
For stations with Selective Door Opening (SDO) alternative docked messages are provided for use only with 3-car trains.
Where 'DESTINATION' appears in the message the display should use the destination from the last type 4 message received. The display format to be as given on the 'Destination Listing'.

Type 4.
This message is used to update the train with a new destination, this will always show in the external display and will be used in the internal display and audio messages as required by the other message types. The internal display should also default to indicating the 'destination' if no other message has been received for 4 minutes.

This message will be sent whenever the train is assigned to a line or run and whenever placed onto a shuttle. It will be updated on departure from each station, normally immediately following a type 1 or type 5 message, where the type 1 or 5 message is omitted because of a short section the type 4 message should still be sent.
When approaching a terminal (which is also the turnback station) the new destination should be sent on departure from the previous station. Therefore passengers on the platform at the terminal can read the new destination as the train approaches.
When a turnback at headshunt/pseudo station is being performed an 'out of service' destination message should be sent when departing towards the terminus. The new destination message should only be sent when entering the headshunt/pseudo station.
Note that where a destination includes a 'VIA' message the destination is to be changed to remove the VIA on departure from the station prior to the via station.

Type 5.
This message is used instead of a type 1 message when the next station is a terminal. This allows for the internal and external signs to show different destinations. See the Scenario page for the method of application.

Type 6.
This message is used instead of a type 2 message when the next station is a terminal. This allows for the internal and external signs to show different destinations. See the Scenario page for the method of application.

Type 7.
This message is used instead of a type 3 message when the train docks at a station where it will go out of service. Such stations will be those where trains terminate using a headshunt and those where the train is exiting to the depot.

Type 8.
This message type is for special situations, three have been defined. The first is used on departure from a station where a type 7 message was used on docking. This serves to alert any passengers who inadvertently remained on board that they need to seek help.
The second is used on departure from a station where the train will stop and reverse on the way to the next station and serves to warn passengers so that they do not get disturbed by the reversal.

The third type is utilised for three car selective door operations. At particular stations the platform is not long enough for three car trains therefore an announcement is required to inform passengers the front and rear doors within the leading and trailing vehicle will not open. If passengers want to alight they will have to use the doors within the centre section of the train. Note: the first two situations are temporarily out of use.

Destinations
This page lists all the destinations on the system and shows the display formats for the various different displays.

Phrases
This page lists the individual phrases used to build the audio messages.
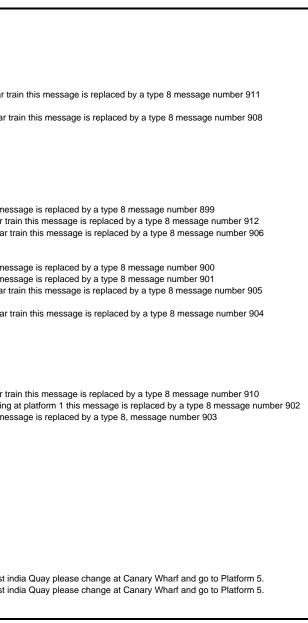
AVIS Interface Definition

Message Types	Bits	
1, Departure from Station	000	Triggered when train starts to move, (may be omitted on short sections where time is needed for type 2 or 6 message#1)
2, Approaching Station	001	Triggered on approach to station so that Audio message has time to complete before train stops
3, Docked at Station	010	Triggered when train stops in station and doors enable
4, New Destination	011	Triggered when train assigned to line or run and following each type 1 or 5 message, where type 1 or 5 message omitted a/c short section must precede type 2 or 6 message
5, Departure from Station to terminal	100	Triggered when train stops, (may be omitted on short sections where time is needed for type 2 or 6 message#1)
6, Approaching terminal	101	Triggered on approach to station so that Audio message has time to complete before train stops
7, Docked at exit platform/terminal	110	Triggered when train stops in station and doors enable, applies where next move is out of service to headshunt or depot.
8, Departure from station, out of service or Special eg_SDO	111	Triggered when train starts to move, applies where move is out of service to headshunt or depot or other special case.

Scenarios

Basic Station to Station Run, eg_Langdon Park to Devons Road on line to Stratford

Trigger	Sample Line	type	No	External display	Internal Display - max 100 characters scrolling	Voice message.		
Departure from Langdon Park	49	1	18	Stratford	Train is for Stratford, next stop is Devons Road	n/a		
Destination refresh	49	4	429	Stratford	n/a	n/a		
Approach to Devons Road	49	2	148	Stratford	Train is for Stratford, next stop is Devons Road	This train is for Stratford	The next stop is Devons Road	
Docked at Devons Road	49	3	273	Stratford	Devons Road, train is for Stratford	This is Devons Road		

Basic Station to Station Run past closed station, eg_Langdon Park to Bow Church on line to Stratford

Trigger	Sample Line	type	No	External display	Internal Display - max 100 characters scrolling	Voice message.			
Departure from Langdon Park	49	1	7	Stratford	Train is for Stratford, next stop is Bow Church	n/a			
Destination refresh	49	4	429	Stratford	n/a	n/a			
Approach to Bow Church	49	2	135	Stratford	Train is for Stratford, next stop is Bow Church	This train is for Stratford	The next stop is Bow Church	Change for London Underground District and Hammersmith and City Lines at Bow Road station.	When leaving the train please remember to take all your belongings with you
Docked at Bow Church	49	3	263	Stratford	Bow Church, train is for Stratford	This is Bow Church			

Terminal platform, eg_Stratford, next destination Crossharbour.

Trigger	Sample Line	type	No	External display	Internal Display	Voice message.			
Departure from Pudding Mill Lane	111	5	550	Stratford	Next stop is Stratford where this train terminates.	Next stop is Stratford	where this train Please remember to take all your belongings with you		
Destination change	111	4	400	Crossharbour	n/a	n/a			
Approach to Stratford	111	6	678	Crossharbour	Next stop is Stratford where this train terminates.	The next stop is Stratford	Where this train will terminate, all change for London Underground Central and Jubilee Lines, National Rail and local bus services		
Docked at Stratford	111	3	294	Crossharbour	Stratford, train is for Crossharbour	This is Stratford			

Terminal headshunt, eg_Crossharbour, next destination Stratford

Trigger	Sample Line	type	No	External display	Internal Display	Voice message.		
Departure from South Quay	111	5	524	Crossharbour	Next stop is Crossharbour where this train terminates.	The next stop is Crossharbour	where this train term/Please remember to take all your belongings with you	
Destination change	111	4	418	Not in Service	n/a	n/a		
Approach to Crossharbour	111	6	652	Not in Service	Next stop is Crossharbour where this train terminates.	The next stop is Crossharbour	Where this train will terminate, please remember to take all your belongings with you	
Docked at Crossharbour platform 1	111	7	775	Not in Service	Crossharbour, train terminates here.	This is Crossharbour	This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.	
Departure from Crossharbour	111	8	897	Not in Service				
Destination Change	111	4	429	Stratford	n/a	n/a		
Docked at Crossharbour Platform 2	111	3	268	Stratford	Crossharbour, train is for Stratford	This is Crossharbour		

Intermediate turnback, eg_Canary Wharf on a Westbound Gull Wing Line

Trigger	Sample Line	type	No	External display	Internal Display	Voice message.			
Departure from Poplar	43	1	44	Bank via C Wharf	Train is for Bank via Canary Wharf, Next stop is West India Quay.	n/a			
Destination refresh	43	4	388	Bank via C Wharf	n/a	n/a			
Approach to West India Quay	43	2	179	Bank via C Wharf	Train is for Bank via Canary Wharf, Next stop is West India Quay.	This train is for Bank via C Wharf	The next stop is West India Quay	When leaving the train please remember to take all your belongings with you	
Docked at West India Quay	43	3	300	Bank via C Wharf	West India Quay, train is for Bank via Canary Wharf	This is West India Quay			
Departure from West India Quay #1	43	1	9	Bank via C Wharf	Train is for Bank via C Wharf, Next stop is Canary Wharf.	n/a			
Destination Change	43	4	387	Bank	n/a	n/a			
Approach to Canary Wharf	43	2	140	Bank	Train is for Bank, Next stop is Canary Wharf	This train is for Bank	The next stop is Canary Wharf	Change for London Underground Jubilee Line and for stations towards Greenwich and Lewisham	When leaving the train please remember to take all your belongings with you
Docked at Canary Wharf	43	3	265	Bank	Canary Wharf, train is for Bank	This is Canary Wharf			
Departure from Canary Wharf#1	43	1	44	Bank	Train is for Bank, Next stop is West India Quay	n/a			

Intermediate destination change for 'VIA' destinations, eg_London City Airport on lines to Woolwich

Trigger	Sample Line	type	No	External display	Internal Display	Voice message.			
Departure from West Silvertown	136	1	29	Woolwich Arsnl v City Airport	Train is for Woolwich Arsenal v City Airport, next stop is Pontoon Dock	n/a			
Destination refresh	136	4	439	Woolwich Arsnl v City Airport	n/a	n/a			
Approach to Pontoon Dock	136	2	160	Woolwich Arsnl v City Airport	Train is for Woolwich Arsenal v City Airport, next stop is Pontoon Dock	This train is for Woolwich Arsenal v City Airport	The next stop is Pontoon Dock		
Docked at Pontoon Dock	136	3	285	Woolwich Arsnl v City Airport	Pontoon Dock, train is for Woolwich Arsenal v City Airport,	This is Pontoon Dock			
Departure from Pontoon Dock	136	1	12	Woolwich Arsnl v City Airport	Train is for Woolwich Arsenal v City Airport, next stop is London City Airport	n/a			
Destination refresh	136	4	441	Woolwich Arsnl	n/a	n/a			
Approach to London City Airport	136	2	142	Woolwich Arsnl	Train is for Woolwich Arsenal, next stop is London City Airport	This train is for Woolwich Arsenal	The next stop is London City Airport		
Docked at London City Airport	136	3	267	Woolwich Arsnl	London City Airport, train is for Woolwich Arsenal	This is London City Airport			

Train entering service, auto entry

Trigger	Sample Line	type	No	External display	Internal Display	Voice message.
Assigned to Line on Depot entry track (New destination)	49	4	429	Stratford	Stratford #3	n/a
Docked at Entry station (All Saints)	49	3	258	Stratford	All Saints, train is for Stratford	This is All Saints
Departure from All Saints	49	1	26	Stratford	Train is for Stratford, next stop is Langdon Park	n/a

Train Entering Service, manual entry

Trigger	Sample path	type	No	External display	Internal Display	Voice message.
Train routed to entry station #2	22					
Assigned to line at entry station, eg Poplar (New destination)	22	4	387	Bank	Bank #4	n/a
Docked at Poplar #3		3	286	Bank	Poplar, train is for Bank	This is Poplar
Departure from Poplar		1	46	Bank	Train is for Bank, the next stop is Westferry	n/a
Destination refresh		4	387	Bank	n/a	n/a
#2 if destination required before train assigned to line it must be entered manually.			#3 If train docks before line assigned a docked trigger should be sent immediately after the new destination trigger.	#4 Internal display should correspond to external display if no other trigger received.		

Train leaving service, auto exit.

Trigger	Sample path	type	No	External display	Internal Display	Voice message.		
Departure from West India Quay	32	5	542	Poplar	Next stop is Poplar where this train terminates.	The next stop is POPLAR	where this train term/Please remember to take all your belongings with you	
Destination change	32	4	418	Not in Service	n/a	n/a		
Approach to Poplar	32	6	670	Not in Service	Next stop is Poplar where this train terminates.	The next stop is Poplar	Where this train will terminate, please remember to take all your belongings with you	
Docked at Poplar	32	7	778	Not in Service	Poplar, train terminates here.	This is Poplar	This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.	
Departure from Poplar to depot	32	8	897	Not in Service				

Beckton Test Track

Trigger	Sample Line	type	No	External display	Internal Display	Voice message.		
Departure from Beckton	shuttle	8	897	Not in Service		n/a		
Destination refresh	shuttle	4	418	Not in Service	n/a	n/a		
Approaching pseudo station	shuttle			Not in Service				
Departing pseudo station	shuttle			Not in Service				
Destination refresh	shuttle	4	418	Not in Service	n/a	n/a		
Approaching Beckton	shuttle	6	644	Not in Service	Next stop is Beckton where this train terminates.	The next stop is Beckton	Where this train will terminate, please remember to take all your belonging with you	
Docked at Beckton	shuttle	7	771	Not in Service	Beckton, train terminates here.	This is Beckton	This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.	

Trains Terminating at Tower Gateway

Trigger	Sample Line	type	No	External display	Internal Display - max 100 characters scrolling	Voice message.		
Departure from Shadwell	131	5	554	Tower Gateway	Next stop is Tower Gateway where this train terminates	The next stop is Tower Gateway	where this train term/Please remember to take all your belongings with you	
Destination refresh	131	4	389	Beckton	n/a	n/a		
Approach to Tower Gateway	131	6	682	Beckton	Next stop is Tower Gateway where this train terminates	The next stop is Tower Gateway	where this train will teall change	for London Underground District and Circle Lines at Tower Hill Station, Please alight from the right hand side in the direction of travel
Docked at Tower Gateway	131	3	298	Beckton	Tower Gateway, train is for Beckton	This is Tower Gateway		

Three car SDO operation approaching Cutty Sark

Trigger	Sample Line	type	No	External display	Internal Display - max 100 characters scrolling	Voice message.			
Departure from Mudchute	14	8	904	Lewisham	Train is for Lewisham, the next stop is Island Gardens	The next stop is Island gardens,	at Cutty Sark the first two sets and last two sets of doors will not open,	to alight please move toward the centre of the train	
Destination refresh	14	4	415	Lewisham	n/a	n/a			
Approach to Island Gardens	14	2	155	Lewisham	Train is for Lewisham, the next stop is Island Gardens	This train is for Lewisham	The next stop is Island Gardens	When leaving the train please remember to take all your belongings with you.	
Docked at Island Gardens	14	3	279	Lewisham	Island Gardens, train is for Lewisham	This is Island Gardens			
Departure from Island Gardens	14	8	899	Lewisham	Train is for Lewisham, the next stop is Cutty Sark, to alight move toward. the centre of the train.	The next stop is Cutty Sark.	To alight please move toward. the centre of the train	as the first two sets and last two sets of doors will not open	
Destination refresh	14	4	415	Lewisham	n/a	n/a			
Approach to Cutty Sark	14	2	191	Lewisham	Train is for Lewisham, the next stop is Cutty Sark, to alight move toward the centre of the train.	This train is for Lewisham	The next stop is Cutty Sark for Maritime Greenwich. Alight here for Greenwich Town Centre, the Royal Naval College and the National Maritime Museum. to alight please move toward the centre of the train	to alight please move towards the centre of the train	
Docked at Cutty Sark	14	3	311	Lewisham	Cutty Sark, train is for Lewisham, to alight move toward. the centre of the train.	This is Cutty Sark			

Trains by-passing WIQ platform 2

Trigger	Sample Line	type	No	External display	Internal Display - max 100 characters scrolling	Voice message.			
Departure from Limehouse	15	1	47	Lewisham	Train is for Lewisham, the next stop is Westferry, for West India Quay change at Canary Wharf.	This train does not stop at West India Quay, for West India Quay please change at Canary Wharf and go to Platform 5			
Destination refresh	15	4	415	Lewisham	n/a	n/a			
Approach to Westferry	15	2	186	Lewisham	Train is for Lewisham, the next stop is Westferry, for West India Quay change at Canary Wharf.	This train is for Lewisham	The next stop is Westferry	When leaving the train please remember to take all your belongings with you.	
Docked at Westferry	15	3	302	Lewisham	Westferry, train is for Lewisham	This is Westferry			
Departure from Westferry	15	1	48	Lewisham	Train is for Lewisham, the next stop is Canary Wharf, change here for West India Quay	This train does not stop at West India Quay, for West India Quay please change at Canary Wharf and go to Platform 5			
Destination refresh	15	4	415	Lewisham	n/a	n/a			
Approach to Canary Wharf	15	2	187	Lewisham	Train is for Lewisham, the next stop is Canary Wharf, change here for West India Quay	This train is for Lewisham	The next stop is Canary Wharf	Change for London Underground Jubilee Line. and DLR to West India Quay When leaving the train please remember to take all your belongings with you.	
Docked at Canary Wharf	15	3	265	Lewisham	Canary Wharf, train is for Lewisham	This is Canary Wharf			

AVIS Interface Definition
Message Type 1 - Departure Messages
Trigger List

THALES TRIGGERS			Message ID				AVIS REACTION			Voice message.	Notes
Notes	Trigger	Lines	type 3 bits	id,binary 7 bits	id	No	External display	Internal Display			
reset			000	0	0	0	blank	blank			
Stratford international Extn.			000	1	1	1	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Abbey Road	n/a	
			000	10	2	2	DESTINATION'	Train is for 'DESTINATION'. Next stop is	All Saints	n/a	
spare			000	11	3	3					
spare			000	100	4	4					
			000	101	5	5	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Beckton Park	n/a	For a westbound three car train this message is replaced by a type 8 message number 911
			000	110	6	6	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Blackwall	n/a	
			000	111	7	7	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Bow Church	n/a	For a northbound three car train this message is replaced by a type 8 message number 908
Reserved for future			000	1000	8	8	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Bow Creek	n/a	
			000	1001	9	9	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Canary Wharf	n/a	
			000	1010	10	10	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Canning Town	n/a	
spare			000	1011	11	11					
			000	1100	12	12	DESTINATION'	Train is for 'DESTINATION'. Next stop is	London City Airport	n/a	
			000	1101	13	13	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Crossharbour	n/a	
			000	1110	14	14	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Custom House for ExCeL West	n/a	
			000	1111	15	15	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Cutty Sark	n/a	For a three car train this message is replaced by a type 8 message number 899
			000	10000	16	16	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Cyprus	n/a	For a eastbound three car train this message is replaced by a type 8 message number 912
			000	10001	17	17	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Deptford Bridge	n/a	For a southbound three car train this message is replaced by a type 8 message number 906
			000	10010	18	18	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Devons Road	n/a	
			000	10011	19	19	DESTINATION'	Train is for 'DESTINATION'. Next stop is	East India	n/a	
			000	10100	20	20	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Elverson Road	n/a	For a three car train this message is replaced by a type 8 message number 900
			000	10101	21	21	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Gallions Reach	n/a	For a three car train this message is replaced by a type 8 message number 901
			000	10110	22	22	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Greenwich	n/a	For a northbound three car train this message is replaced by a type 8 message number 905
			000	10111	23	23	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Heron Quays	n/a	
			000	11000	24	24	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Island Gardens	n/a	For a southbound three car train this message is replaced by a type 8 message number 904
			000	11001	25	25	DESTINATION'	Train is for 'DESTINATION'. Next stop is	King George V	n/a	
			000	11010	26	26	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Langdon Park	n/a	
			000	11011	27	27	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Limehouse	n/a	
			000	11100	28	28	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Mudchute	n/a	
			000	11101	29	29	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Pontoon Dock	n/a	
			000	11110	30	30	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Poplar	n/a	
			000	11111	31	31	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Prince Regent for ExCeL East	n/a	For a eastbound three car train this message is replaced by a type 8 message number 910
			000	100000	32	32	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Pudding Mill Lane	n/a	For a three car train docking at platform 1 this message is replaced by a type 8 message number 902
			000	100001	33	33	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Royal Albert	n/a	For a three car train this message is replaced by a type 8, message number 903
			000	100010	34	34	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Royal Victoria	n/a	
			000	100011	35	35	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Shadwell	n/a	
			000	100100	36	36	DESTINATION'	Train is for 'DESTINATION'. Next stop is	South Quay	n/a	
Stratford international Extn.			000	100101	37	37	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Star Lane	n/a	
spare			000	100110	38	38					
spare			000	100111	39	39					
Stratford international Extn.			000	101000	40	40	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Stratford High Street	n/a	
Reserved for future			000	101001	41	41	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Thames Wharf	n/a	
spare			000	101010	42	42					
Stratford international Extn.			000	101011	43	43	DESTINATION'	Train is for 'DESTINATION'. Next stop is	West Ham	n/a	
			000	101100	44	44	DESTINATION'	Train is for 'DESTINATION'. Next stop is	West India Quay	n/a	
			000	101101	45	45	DESTINATION'	Train is for 'DESTINATION'. Next stop is	West Silvertown	n/a	
			000	101110	46	46	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Westferry	n/a	
Trains bypassing WIQ			000	101111	47	47	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Westferry, for West India Quay change at Canary Wharf.	This train does not stop at West India Quay, for West india Quay please change at Canary Wharf and go to Platform 5.	
Trains bypassing WIQ			000	110000	48	48	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Canary Wharf, change here for West India Quay.	This train does not stop at West India Quay, for West india Quay please change at Canary Wharf and go to Platform 5.	
			000	110001	49	49					
			000	110010	50	50					

AVIS Interface Definition
Message Type 2 - Approach to Station message
Trigger List

	THALES TRIGGERS		Message ID				AVIS REACTION							
Notes	Trigger	Lines	type	id,binary	id	No	External display	Internal Display		Voice message.				
			3 bits	7 bits										
not used			001		0	0 128								
Stratford international Extn.			001	1	1	129	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Abbey Road	This train is for	DESTINATION The next stop is Abbey Road			
			001	10	2	130	DESTINATION'	Train is for 'DESTINATION'. Next stop is	All Saints	This train is for	DESTINATION The next stop is All Saints for Chrisp Street Market	When leaving the train please remember to take all your belongings with you		
spare			001	11	3	131								
spare			001	100	4	132								
			001	101	5	133	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Beckton Park	This train is for	DESTINATION The next stop is Beckton Park			
			001	110	6	134	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Blackwall	This train is for	DESTINATION The next stop is Blackwall			
			001	111	7	135	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Bow Church	This train is for	DESTINATION The next stop is Bow Church	Change for London Underground District and Hammersmith and City Lines at Bow Road station.		When leaving the train please remember to take all your belongings with you
Reserved for future			001	1000	8	136	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Bow Creek	This train is for	DESTINATION The next stop is Bow Creek			
Southbound and other cases			001	1001	9	137	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Canary Wharf	This train is for	DESTINATION The next stop is Canary Wharf	Change for London Underground Jubilee Line.		When leaving the train please remember to take all your belongings with you.
North and East leg trains appr. P5/6			001	1010	10	138	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Canary Wharf	This train is for	DESTINATION The next stop is Canary Wharf	Change for stations towards Bank and Tower Gateway.		When leaving the train please remember to take all your belongings with you.
West leg trains appr P5/6			001	1011	11	139	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Canary Wharf	This train is for	DESTINATION The next stop is Canary Wharf	Change for stations towards Stratford.		When leaving the train please remember to take all your belongings with you.
Gull wing appr P3/4			001	1100	12	140	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Canary Wharf	This train is for	DESTINATION The next stop is Canary Wharf	Change for London Underground Jubilee Line and for stations towards Greenwich and Lewisham.		When leaving the train please remember to take all your belongings with you.
			001	1101	13	141	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Canning Town	This train is for	DESTINATION The next stop is Canning Town	Change for London Underground Jubilee Line and local bus services.		When leaving the train please remember to take all your belongings with you.
			001	1110	14	142	DESTINATION'	Train is for 'DESTINATION'. Next stop is	London City Airport	This train is for	DESTINATION The next stop is London City Airport			
			001	1111	15	143	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Crossharbour	This train is for	DESTINATION The next stop is Crossharbour	When leaving the train please remember to take all your belongings with you		
			001	10000	16	144	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Custom House for ExCeL West	This train is for	DESTINATION The next stop is Custom House for ExCeL West	When leaving the train please remember to take all your belongings with you		
See 191 below.			001	10001	17	145	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Cutty Sark	This train is for	DESTINATION The next stop is Cutty Sark for Maritime Greenwich. Alight here for Greenwich Town Centre, the Royal Naval College and the National Maritime Museum.			When leaving the train please remember to take all your belongings with you.
			001	10010	18	146	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Cyprus	This train is for	DESTINATION The next stop is Cyprus			
			001	10011	19	147	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Deptford Bridge	This train is for	DESTINATION The next stop is Deptford Bridge			
			001	10100	20	148	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Devons Road	This train is for	DESTINATION The next stop is Devons Road			
			001	10101	21	149	DESTINATION'	Train is for 'DESTINATION'. Next stop is	East India	This train is for	DESTINATION The next stop is East India			
See 192 below.			001	10110	22	150	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Elverson Road	This train is for	DESTINATION The next stop is Elverson Road			
See 193 below.			001	10111	23	151	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Gallions Reach	This train is for	DESTINATION The next stop is Gallions Reach			
			001	11000	24	152	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Greenwich	This train is for	DESTINATION The next stop is Greenwich	Change for National Rail services.		When leaving the train please remember to take all your belongings with you.
Southbound			001	11001	25	153	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Heron Quays	This train is for	DESTINATION The next stop is Heron Quays	When leaving the train please remember to take all your belongings with you.		
Northbound			001	11010	26	154	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Heron Quays	This train is for	DESTINATION The next stop is Heron Quays	Change for London Underground Jubilee Line.		When leaving the train please remember to take all your belongings with you.
			001	11011	27	155	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Island Gardens	This train is for	DESTINATION The next stop is Island Gardens	When leaving the train please remember to take all your belongings with you.		
			001	11100	28	156	DESTINATION'	Train is for 'DESTINATION'. Next stop is	King George V	This train is for	DESTINATION The next stop is King George V			
			001	11101	29	157	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Langdon Park	This train is for	DESTINATION The next stop is Langdon Park			
			001	11110	30	158	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Limehouse	This train is for	DESTINATION The next stop is Limehouse	Change for National Rail services.		When leaving the train please remember to take all your belongings with you.
			001	11111	31	159	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Mudchute	This train is for	DESTINATION The next stop is Mudchute			
other cases			001	100000	32	160	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Pontoon Dock	This train is for	DESTINATION The next stop is Pontoon Dock			
			001	100001	33	161	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Poplar	This train is for	DESTINATION The next stop is Poplar	When leaving the train please remember to take all your belongings with you.		
East leg trains appr P1			001	100010	34	162	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Poplar	This train is for	DESTINATION The next stop is Poplar	Change for stations towards Beckton, London City Airport and Stratford.		When leaving the train please remember to take all your belongings with you.
North leg trains appr P2			001	100011	35	163	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Poplar	This train is for	DESTINATION The next stop is Poplar	Change for stations towards Stratford.		When leaving the train please remember to take all your belongings with you.
East leg trains appr.P2			001	100100	36	164	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Poplar	This train is for	DESTINATION The next stop is Poplar	Change for stations towards Beckton and London City Airport.		When leaving the train please remember to take all your belongings with you.
East leg trains appr.P2			001	100101	37	165	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Poplar	This train is for	DESTINATION The next stop is Poplar	Change for stations towards Stratford.		When leaving the train please remember to take all your belongings with you.
Trains from North leg			001	100110	38	166	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Poplar	This train is for	DESTINATION The next stop is Poplar	Change for stations towards Beckton, London City Airport, Bank and Tower Gateway.		When leaving the train please remember to take all your belongings with you.
Trains from East leg appr. P3			001	100111	39	167	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Poplar	This train is for	DESTINATION The next stop is Poplar	Change for stations towards Stratford.		When leaving the train please remember to take all your belongings with you.
Trains from East leg appr. P4			001	101000	40	168	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Poplar	This train is for	DESTINATION The next stop is Poplar	Change for stations towards Stratford, Canary Wharf and Lewisham.		When leaving the train please remember to take all your belongings with you.
			001	101001	41	169	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Prince Regent for ExCeL East	This train is for	DESTINATION The next stop is Prince Regent for ExCeL East and ICC London	When leaving the train please remember to take all your belongings with you.		
See 194 below.			001	101010	42	170	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Pudding Mill Lane	This train is for	DESTINATION The next stop is Pudding Mill Lane	When leaving the train please remember to take all your belongings with you.		
See 195 below.			001	101011	43	171	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Royal Albert	This train is for	DESTINATION The next stop is Royal Albert for West Beckton			
			001	101100	44	172	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Royal Victoria	This train is for	DESTINATION The next stop is Royal Victoria			
			001	101101	45	173	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Shadwell	This train is for	DESTINATION The next stop is Shadwell			
			001	101110	46	174	DESTINATION'	Train is for 'DESTINATION'. Next stop is	South Quay	This train is for	DESTINATION The next stop is South Quay	When leaving the train please remember to take all your belongings with you.		When leaving the train please remember to take all your belongings with you.
Stratford international Extn.			001	101111	47	175	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Star Lane	This train is for	DESTINATION The next stop is Star Lane			
Stratford international Extn.			001	110000	48	176	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Stratford High Street	This train is for	DESTINATION The next stop is Stratford High Street			
Reserved for future			001	110001	49	177	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Thames Wharf	This train is for	DESTINATION The next stop is Thames Wharf			
Stratford international Extn.			001	110010	50	178	DESTINATION'	Train is for 'DESTINATION'. Next stop is	West Ham	This train is for	DESTINATION The next stop is West Ham			
			001	110011	51	179	DESTINATION'	Train is for 'DESTINATION'. Next stop is	West India Quay	This train is for	DESTINATION The next stop is West India Quay	When leaving the train please remember to take all your belongings with you.		
			001	110100	52	180	DESTINATION'	Train is for 'DESTINATION'. Next stop is	West Silvertown	This train is for	DESTINATION The next stop is West Silvertown			
Southleg trains appr. P1			001	110101	53	181	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Westferry	This train is for	DESTINATION The next stop is Westferry	Change for stations towards Beckton and London City Airport.		When leaving the train please remember to take all your belongings with you.
East and north leg trains appr. P1			001	110110	54	182	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Westferry	This train is for	DESTINATION The next stop is Westferry	Change for stations towards Canary Wharf and Lewisham.		When leaving the train please remember to take all your belongings with you.
trains from South leg appr. P2			001	110111	55	183	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Westferry	This train is for	DESTINATION The next stop is Westferry	Change for stations towards Beckton and London City Airport.		When leaving the train please remember to take all your belongings with you.
other cases			001	111000	56	184	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Westferry	This train is for	DESTINATION The next stop is Westferry	When leaving the train please remember to take all your belongings with you.		
			001	111001	57	185	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Canning Town	for West India Quay change at Canary Wharf.	This train is for DESTINATION The next stop is Canning Town	Change for stations towards Beckton, London Underground Jubilee line and local bus services.		When leaving the train please remember to take all your belongings with you.
On WIQ bypass lines			001	111010	58	186	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Westferry	This train is for	DESTINATION The next stop is Westferry	Change for stations towards Beckton and London City Airport.		When leaving the train please remember to take all your belongings with you.
On WIQ bypass lines			001	111011	59	187	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Canary Wharf	change here for West India Quay.	This train is for DESTINATION The next stop is Canary Wharf	Change for London Underground Jubilee Line	and DLR to West India Quay.	When leaving the train please remember to take all your belongings with you.
			001	111100	60	188								
			001	111101	61	189								
			001	111110	62	190								
Replaces 145 for 3-car trains			001	111111	63	191	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Cutty Sark	, to alight move towards the centre of the train	This train is for DESTINATION The next stop is Cutty Sark for Maritime Greenwich. Alight here for Greenwich Town Centre, the Royal Naval College and the National Maritime Museum.	to alight please move towards the centre of the train	When leaving the train please remember to take all your belongings with you.
Replaces 150 for 3-car trains			001	1000000	64	192	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Elverson Road.	, to alight move towards the centre of the train	This train is for DESTINATION The next stop is Elverson Road	to alight please move towards the centre of the train
Replaces 151 for 3-car trains			001	1000001	65	193	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Gallions Reach	, to alight move towards the centre of the train	This train is for DESTINATION The next stop is Gallions Reach	to alight please move towards the centre of the train
Replaces 170 for 3-car trains approaching PML1			001	1000010	66	194	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Pudding Mill Lane	, to alight move towards the centre of the train	This train is for DESTINATION The next stop is Pudding Mill Lane	to alight please move towards the centre of the train	When leaving the train please remember to take all your belongings with you.
Replaces 171 for 3-car trains			001	1000011	67	195	DESTINATION'	Train is for 'DESTINATION'. Next stop is	Royal Albert	, to alight move towards the centre of the train	This train is for DESTINATION The next stop is Royal Albert for West Becktor	to alight please move towards the centre of the train

AVIS Interface Definition
Message Type 3 - Docked at Station Message
Trigger List

THALESTRIGGERS			Message ID				AVIS REACTION				
Notes	Trigger	Lines	type 3 bits	id,binary 7 bits	id	No	External display	Internal Display			Voice message.
not used			010	0	0	256					
Stratford international Extn.			010	1	1	257	DESTINATION'	Abbey Road	, train is for 'DESTINATION'		This is Abbey Road
			010	10	2	258	DESTINATION'	All Saints	, train is for 'DESTINATION'		This is All Saints
			010	11	3	259	DESTINATION'	Bank	, train is for 'DESTINATION'		This is Bank
			010	100	4	260	DESTINATION'	Beckton	, train is for 'DESTINATION'		This is Beckton
			010	101	5	261	DESTINATION'	Beckton Park	, train is for 'DESTINATION'		This is Beckton Park
			010	110	6	262	DESTINATION'	Blackwall	, train is for 'DESTINATION'		This is Blackwall
			010	111	7	263	DESTINATION'	Bow Church	, train is for 'DESTINATION'		This is Bow Church
Reserved for future			010	1000	8	264	DESTINATION'	Bow Creek	, train is for 'DESTINATION'		This is Bow Creek
			010	1001	9	265	DESTINATION'	Canary Wharf	, train is for 'DESTINATION'		This is Canary Wharf
			010	1010	10	266	DESTINATION'	Canning Town	, train is for 'DESTINATION'		This is Canning Town
			010	1011	11	267	DESTINATION'	London City Airport	, train is for 'DESTINATION'		This is London City Airport
			010	1100	12	268	DESTINATION'	Crossharbour	, train is for 'DESTINATION'		This is Crossharbour
			010	1101	13	269	DESTINATION'	Custom House for ExCeL West	, train is for 'DESTINATION'		This is Custom House for ExCeL West
See 311 below.			010	1110	14	270	DESTINATION'	Cutty Sark	, train is for 'DESTINATION'		This is Cutty Sark
			010	1111	15	271	DESTINATION'	Cyprus	, train is for 'DESTINATION'		This is Cyprus
			010	10000	16	272	DESTINATION'	Deptford Bridge	, train is for 'DESTINATION'		This is Deptford Bridge
			010	10001	17	273	DESTINATION'	Devons Road	, train is for 'DESTINATION'		This is Devons Road
			010	10010	18	274	DESTINATION'	East India	, train is for 'DESTINATION'		This is East India
See 312 below.			010	10011	19	275	DESTINATION'	Elverson Road	, train is for 'DESTINATION'		This is Elverson Road
See 313 below.			010	10100	20	276	DESTINATION'	Gallions Reach	, train is for 'DESTINATION'		This is Gallions Reach
			010	10101	21	277	DESTINATION'	Greenwich	, train is for 'DESTINATION'		This is Greenwich
			010	10110	22	278	DESTINATION'	Heron Quays	, train is for 'DESTINATION'		This is Heron Quays
			010	10111	23	279	DESTINATION'	Island Gardens	, train is for 'DESTINATION'		This is Island Gardens
			010	11000	24	280	DESTINATION'	King George V	, train is for 'DESTINATION'		This is King George the Fifth
			010	11001	25	281	DESTINATION'	Langdon Park	, train is for 'DESTINATION'		This is Langdon Park
			010	11010	26	282	DESTINATION'	Lewisham	, train is for 'DESTINATION'		This is Lewisham
			010	11011	27	283	DESTINATION'	Limehouse	, train is for 'DESTINATION'		This is Limehouse
			010	11100	28	284	DESTINATION'	Mudchute	, train is for 'DESTINATION'		This is Mudchute
			010	11101	29	285	DESTINATION'	Pontoon Dock	, train is for 'DESTINATION'		This is Pontoon Dock
			010	11110	30	286	DESTINATION'	Poplar	, train is for 'DESTINATION'		This is Poplar
			010	11111	31	287	DESTINATION'	Prince Regent for ExCeL East	, train is for 'DESTINATION'		This is Prince Regent for ExCeL East and ICC London
See 314 below.			010	100000	32	288	DESTINATION'	Pudding Mill Lane	, train is for 'DESTINATION'		This is Pudding Mill Lane
See 315 below.			010	100001	33	289	DESTINATION'	Royal Albert	, train is for 'DESTINATION'		This is Royal Albert
			010	100010	34	290	DESTINATION'	Royal Victoria	, train is for 'DESTINATION'		This is Royal Victoria
			010	100011	35	291	DESTINATION'	Shadwell	, train is for 'DESTINATION'		This is Shadwell
			010	100100	36	292	DESTINATION'	South Quay	, train is for 'DESTINATION'		This is South Quay
Stratford international Extn.			010	100101	37	293	DESTINATION'	Star Lane	, train is for 'DESTINATION'		This is Star Lane
			010	100110	38	294	DESTINATION'	Stratford	, train is for 'DESTINATION'		This is Stratford
Stratford international Extn.			010	100111	39	295	DESTINATION'	Stratford International	, train is for 'DESTINATION'		This is Stratford International
Stratford international Extn.			010	101000	40	296	DESTINATION'	Stratford High street	, train is for 'DESTINATION'		This is Stratford High street
Reserved for future			010	101001	41	297	DESTINATION'	Thames Wharf	, train is for 'DESTINATION'		This is Thames Wharf
			010	101010	42	298	DESTINATION'	Tower Gateway	, train is for 'DESTINATION'		This is Tower Gateway
Stratford international Extn.			010	101011	43	299	DESTINATION'	West Ham	, train is for 'DESTINATION'		This is West Ham
			010	101100	44	300	DESTINATION'	West India Quay	, train is for 'DESTINATION'		This is West India Quay
			010	101101	45	301	DESTINATION'	West Silvertown	, train is for 'DESTINATION'		This is West Silvertown
			010	101110	46	302	DESTINATION'	Westferry	, train is for 'DESTINATION'		This is Westferry
			010	101111	47	303	DESTINATION'	Woolwich Arsenal	, train is for 'DESTINATION'		This is Woolwich Arsenal
			010	110000	48	304					
			010	110001	49	305					
			010	110010	50	306					
			010	110011	51	307					
			010	110100	52	308					
			010	110101	53	309					
			010	110110	54	310					
Replaces 270 for 3-car trains			010	110111	55	311	DESTINATION'	Cutty Sark	,train is for 'DESTINATION',	,to alight move towards the centre of the train.	This is Cutty Sark to alight please move towards the centre of the train
Replaces 275 for 3-car trains			010	111000	56	312	DESTINATION'	Elverson Road	,train is for 'DESTINATION',	,to alight move towards the centre of the train.	This is Elverson Road to alight please move towards the centre of the train
Replaces 276 for 3-car trains			010	111001	57	313	DESTINATION'	Gallions Reach	,train is for 'DESTINATION',	,to alight move towards the centre of the train.	This is Gallions Reach to alight please move towards the centre of the train
Replaces 288 for 3-car trains at PML1			010	111010	58	314	DESTINATION'	Pudding Mill Lane	,train is for 'DESTINATION',	,to alight move towards the centre of the train.	This is Pudding Mill Lane to alight please move towards the centre of the train
Replaces 289 for 3-car trains			010	111011	59	315	DESTINATION'	Royal Albert	,train is for 'DESTINATION',	,to alight move towards the centre of the train.	This is Royal Albert to alight please move towards the centre of the train

AVIS Interface Definition
Message type 4 - New Destination
Trigger List

THALES TRIGGERS			Message ID				AVIS REACTION	
Notes	Trigger	Lines	type	id,binary	id	No	External display	Internal Display #2
			011	0	0	384		
Stratford international Extn.			011	1	1	385	Abbey Road	#2 See 'Destinations'
			011	10	2	386	All Saints	for internal display
			011	11	3	387	Bank	formats
			011	100	4	388	Bank via C Wharf	
			011	101	5	389	Beckton	
			011	110	6	390	Beckton Park	
			011	111	7	391	Beckton via C Wharf	
			011	1000	8	392	Blackwall	
			011	1001	9	393	Bow Church	
Reserved for future			011	1010	10	394	Bow Creek	
			011	1011	11	395	Canary Wharf	
			011	1100	12	396	Canning Town	
			011	1101	13	397	Canning Town via C Wharf	
			011	1110	14	398	City Airport	
			011	1111	15	399	City Airport via C Wharf	
			011	10000	16	400	Crossharbour	
			011	10001	17	401	Custom House	
			011	10010	18	402	Cutty Sark	
			011	10011	19	403	Cyprus	
			011	10100	20	404	Deptford Bridge	
			011	10101	21	405	Devons Road	
			011	10110	22	406	East India	
			011	10111	23	407	Elverson Road	
			011	11000	24	408	Gallions Reach	
			011	11001	25	409	Greenwich	
			011	11010	26	410	Heron Quays	
			011	11011	27	411	Island Gardens	
			011	11100	28	412	King George V via C Airport	
			011	11101	29	413	King George V	
			011	11110	30	414	Langdon Park	
			011	11111	31	415	Lewisham	
			011	100000	32	416	Limehouse	
			011	100001	33	417	Mudchute	
		Exit/Turnback	011	100010	34	418	Not in Service	
			011	100011	35	419	Pontoon Dock	
			011	100100	36	420	Poplar	
			011	100101	37	421	Prince Regent	
			011	100110	38	422	Prince Regent via C Wharf	
			011	100111	39	423	Pud'g Mill Lane	
			011	101000	40	424	Royal Albert	
			011	101001	41	425	Royal Victoria	
			011	101010	42	426	Shadwell	
			011	101011	43	427	South Quay	
Stratford international Extn.			011	101100	44	428	Star Lane	
			011	101101	45	429	Stratford	
Stratford international Extn.			011	101110	46	430	Stratford Int'l	
Stratford international Extn.			011	101111	47	431	Stratford H St	
Reserved for future			011	110000	48	432	Thames Wharf	
			011	110001	49	433	Tower Gateway	
			011	110010	50	434	Tower Gateway via C Wharf	
Stratford international Extn.			011	110011	51	435	West Ham	
			011	110100	52	436	West India Quay	
			011	110101	53	437	West Silvertown	
			011	110110	54	438	Westferry	
			011	110111	55	439	Woolwich Arsnl via C Airport	
			011	111000	56	440	Woolwich Arsnl via C Wharf	
			011	111001	57	441	Woolwich Arsnl	
Manual only.			011	111010	58	442	Test Train	
Manual only.			011	111011	59	443	Special	
			011	111100	60	444		

AVIS Interface Definition
Message Type 5 - Departure from Station towards terminal
Trigger List

THALES TRIGGERS			Message ID				AVIS REACTION		
Notes	Trigger	Lines	type	id,binary	id	No	External display	Internal Display	Voice message.
not used			100	0	0	512			
Stratford international Extn.			100	1	1	513	DESTINATION	Next stop is Abbey Road *where this train terminates*	The next stop is Abbey Road *where this train terminates.*
			100	10	2	514	DESTINATION	Next stop is All Saints *where this train terminates*	The next stop is All Saints *where this train terminates.* Please remember to take all your belongings with you
			100	11	3	515	DESTINATION	Next stop is Bank *where this train terminates*	The next stop is Bank *where this train terminates.* Please remember to take all your belongings with you
			100	100	4	516	DESTINATION	Next stop is Beckton *where this train terminates*	The next stop is Beckton *where this train terminates.* Please remember to take all your belongings with you
			100	101	5	517	DESTINATION	Next stop is Beckton Park *where this train terminates*	The next stop is Beckton Park *where this train terminates.*
			100	110	6	518	DESTINATION	Next stop is Blackwall *where this train terminates*	The next stop is Blackwall *where this train terminates.*
			100	111	7	519	DESTINATION	Next stop is Bow Church *where this train terminates*	The next stop is Bow Church *where this train terminates.* Please remember to take all your belongings with you
reserved for future			100	1000	8	520	DESTINATION	Next stop is Bow Creek *where this train terminates*	The next stop is Bow Creek *where this train terminates.*
			100	1001	9	521	DESTINATION	Next stop is Canary Wharf *where this train terminates*	The next stop is Canary Wharf *where this train terminates.* Please remember to take all your belongings with you
			100	1010	10	522	DESTINATION	Next stop is Canning Town *where this train terminates*	The next stop is Canning Town *where this train terminates.* Please remember to take all your belongings with you
			100	1011	11	523	DESTINATION	Next stop is London City Airport *where this train terminates*	The next stop is London City Airport *where this train terminates.*
			100	1100	12	524	DESTINATION	Next stop is Crossharbour *where this train terminates*	The next stop is Crossharbour *where this train terminates.* Please remember to take all your belongings with you
			100	1101	13	525	DESTINATION	Next stop is Custom House for ExCeL West *where this train terminates*	The next stop is Custom House for ExCeL West *where this train terminates.* Please remember to take all your belongings with you
#1			100	1110	14	526	DESTINATION	Next stop is Cutty Sark *where this train terminates*	The next stop is Cutty Sark for Maritime Greenwich *where this train terminates.* Please remember to take all your belongings with you
			100	1111	15	527	DESTINATION	Next stop is Cyprus *where this train terminates*	The next stop is Cyprus *where this train terminates.*
			100	10000	16	528	DESTINATION	Next stop is Deptford Bridge *where this train terminates*	The next stop is Deptford Bridge *where this train terminates.*
			100	10001	17	529	DESTINATION	Next stop is Devons Road *where this train terminates*	The next stop is Devons Road *where this train terminates.*
			100	10010	18	530	DESTINATION	Next stop is East India *where this train terminates*	The next stop is East India *where this train terminates.*
#1			100	10011	19	531	DESTINATION	Next stop is Elverson Road *where this train terminates*	The next stop is Elverson Road *where this train terminates.*
#1			100	10100	20	532	DESTINATION	Next stop is Gallions Reach *where this train terminates*	The next stop is Gallions Reach *where this train terminates.*
			100	10101	21	533	DESTINATION	Next stop is Greenwich *where this train terminates*	The next stop is Greenwich *where this train terminates.* Please remember to take all your belongings with you
			100	10110	22	534	DESTINATION	Next stop is Heron Quays *where this train terminates*	The next stop is Heron Quays *where this train terminates.* Please remember to take all your belongings with you
			100	10111	23	535	DESTINATION	Next stop is Island Gardens *where this train terminates*	The next stop is Island Gardens *where this train terminates.*
			100	11000	24	536	DESTINATION	Next stop is King George V *where this train terminates*	The next stop is King George the Fifth *where this train terminates.*
			100	11001	25	537	DESTINATION	Next stop is Langdon Park *where this train terminates*	The next stop is Langdon Park *where this train terminates.*
			100	11010	26	538	DESTINATION	Next stop is Lewisham *where this train terminates*	The next stop is Lewisham *where this train terminates.* Please remember to take all your belongings with you
			100	11011	27	539	DESTINATION	Next stop is Limehouse *where this train terminates*	The next stop is Limehouse *where this train terminates.* Please remember to take all your belongings with you
			100	11100	28	540	DESTINATION	Next stop is Mudchute *where this train terminates*	The next stop is Mudchute *where this train terminates.*
			100	11101	29	541	DESTINATION	Next stop is Pontoon Dock *where this train terminates*	The next stop is Pontoon Dock *where this train terminates.*
			100	11110	30	542	DESTINATION	Next stop is Poplar *where this train terminates*	The next stop is Poplar *where this train terminates.* Please remember to take all your belongings with you
			100	11111	31	543	DESTINATION	Next stop is Prince Regent for ExCeL East *where this train terminates*	The next stop is Prince Regent for ExCeL East and ICC London *where this train terminates.* Please remember to take all your belongings with you
#2			100	100000	32	544	DESTINATION	Next stop is Pudding Mill Lane *where this train terminates*	The next stop is Pudding Mill Lane *where this train terminates.* Please remember to take all your belongings with you
#1			100	100001	33	545	DESTINATION	Next stop is Royal Albert *where this train terminates*	The next stop is Royal Albert *where this train terminates.*
			100	100010	34	546	DESTINATION	Next stop is Royal Victoria *where this train terminates*	The next stop is Royal Victoria *where this train terminates.*
			100	100011	35	547	DESTINATION	Next stop is Shadwell *where this train terminates*	The next stop is Shadwell *where this train terminates.* Please remember to take all your belongings with you
			100	100100	36	548	DESTINATION	Next stop is South Quay *where this train terminates*	The next stop is South Quay *where this train terminates.* Please remember to take all your belongings with you
Stratford international Extn.			100	100101	37	549	DESTINATION	Next stop is Star Lane *where this train terminates*	The next stop is Star Lane *where this train terminates.*
			100	100110	38	550	DESTINATION	Next stop is Stratford *where this train terminates*	The next stop is Stratford *where this train terminates.* Please remember to take all your belongings with you
Stratford international Extn.			100	100111	39	551	DESTINATION	Next stop is Stratford International *where this train terminates*	The next stop is Stratford International *where this train terminates.*
Stratford international Extn.			100	101000	40	552	DESTINATION	Next stop is Stratford High Street *where this train terminates*	The next stop is Stratford High Street *where this train terminates.*
reserved for future			100	101001	41	553	DESTINATION	Next stop is Thames Wharf *where this train terminates*	The next stop is Thames Wharf *where this train terminates.*
			100	101010	42	554	DESTINATION	Next stop is Tower Gateway *where this train terminates*	The next stop is Tower Gateway *where this train terminates.* Please remember to take all your belongings with you
Stratford international Extn.			100	101011	43	555	DESTINATION	Next stop is West Ham *where this train terminates*	The next stop is West Ham *where this train terminates.*
			100	101100	44	556	DESTINATION	Next stop is West India Quay *where this train terminates*	The next stop is West India Quay *where this train terminates.* Please remember to take all your belongings with you
			100	101101	45	557	DESTINATION	Next stop is West Silvertown *where this train terminates*	The next stop is West Silvertown *where this train terminates.*
			100	101110	46	558	DESTINATION	Next stop is Westferry *where this train terminates*	The next stop is Westferry *where this train terminates.* Please remember to take all your belongings with you
			100	101111	47	559	DESTINATION	Next stop is Woolwich Arsenal *where this train terminates*	The next stop is Woolwich Arsenal *where this train terminates.*
			100	110000	48	560			
			100	110001	49	561	DESTINATION	Next stop is Cutty Sark, *where this train terminates.* Alight towards the centre of the train.	The next stop is Cutty Sark for Maritime Greenwich to alight please move towards the centre of the train (pause). The next stop is Cutty Sark *where this train terminates.* Please remember to take all your belongings with you
			100	110010	50	562	DESTINATION	Next stop is Elverson Road, *where this train terminates.* Alight towards the centre of the train.	The next stop is Elverson Road to alight please move towards the centre of the train (pause). The next stop is Elverson Road *where this train terminates.*
			100	110011	51	563	DESTINATION	Next stop is Gallions Reach, *where this train terminates.* Alight towards the centre of the train.	The next stop is Gallions Reach to alight please move towards the centre of the train (pause). The next stop is Gallion Reach *where this train terminates.*
			100	110100	52	564	DESTINATION	Next stop is Pudding Mill Lane, *where this train terminates.* Alight towards the centre of the train.	The next stop is Pudding Mill Lane to alight please move towards the centre of the train (pause). The next stop is Pudding Mill Lane *where this train terminates.* Please remember to take all your belongings with you
			100	110101	53	565	DESTINATION	Next stop is Royal Albert, *where this train terminates.* Alight towards the centre of the train.	The next stop is Royal Albert to alight please move towards the centre of the train (pause). The next stop is Royal Albert *where this train terminates.*

1 For a three car train this message is replaced by the appropriate 3 car message below.
#2 For a three car train docking at platform 1 this message is replaced by message number 564

AVIS Interface Definition
Message Type 6 - Approach to terminal
Trigger List

THALES TRIGGERS			Message ID					AVIS REACTION				Voice message.		
Notes / Trigger / Lines			type	id,binary	id	No	External display	Internal Display						
not used			101	0	0	640								
Stratford international Extn.			101	1	1	641	(DESTINATION)	Next stop is	Abbey Road	where this train terminates.		The next stop is Abbey Road	Where this train will terminate, please remember to take all your belongings with you	
			101	10	2	642	(DESTINATION)	Next stop is	All Saints	where this train terminates.		The next stop is All Saints for Chrisp Street Market	Where this train will terminate, please remember to take all your belongings with you	
			101	11	3	643	(DESTINATION)	Next stop is	Bank	where this train terminates.		The next stop is Bank	Where this train will terminate, all change	for London Underground services
			101	100	4	644	(DESTINATION)	Next stop is	Beckton	where this train terminates.		The next stop is Beckton	Where this train will terminate, please remember to take all your belongings with you	
			101	101	5	645	(DESTINATION)	Next stop is	Beckton Park	where this train terminates.		The next stop is Beckton Park	Where this train will terminate, please remember to take all your belongings with you	
			101	110	6	646	(DESTINATION)	Next stop is	Blackwall	where this train terminates.		The next stop is Blackwall	Where this train will terminate, please remember to take all your belongings with you	
			101	111	7	647	(DESTINATION)	Next stop is	Bow Church	where this train terminates.		The next stop is Bow Church	Where this train will terminate, all change	for London Underground District and Hammersmith and City Line at Bow Road station
reserved for future			101	1000	8	648	(DESTINATION)	Next stop is	Bow Creek	where this train terminates.		The next stop is Bow Creek	Where this train will terminate, please remember to take all your belongings with you	
			101	1001	9	649	(DESTINATION)	Next stop is	Canary Wharf	where this train terminates.		The next stop is Canary Wharf	Where this train will terminate, all change	for London Underground Jubilee line and stations towards Greenwich & Lewisham
			101	1010	10	650	(DESTINATION)	Next stop is	Canning Town	where this train terminates.		The next stop is Canning Town	Where this train will terminate, all change	for London Underground Jubilee Line and local bus services
			101	1011	11	651	(DESTINATION)	Next stop is	London City Airport	where this train terminates.		The next stop is London City Airport	Where this train will terminate, please remember to take all your belongings with you	
			101	1100	12	652	(DESTINATION)	Next stop is	Crossharbour	where this train terminates.		The next stop is Crossharbour	Where this train will terminate, please remember to take all your belongings with you	
			101	1101	13	653	(DESTINATION)	Next stop is	Custom House for ExCeL West	where this train terminates.		The next stop is Custom House for ExCeL West	Where this train will terminate, please remember to take all your belongings with you	
See 691 below.			101	1110	14	654	(DESTINATION)	Next stop is	Cutty Sark	where this train terminates.		The next stop is Cutty Sark for Maritime Greenwich. Alight here for Greenwich Town Centre, the Royal Naval College and the National Maritime Museum	Where this train will terminate, all change	
			101	1111	15	655	(DESTINATION)	Next stop is	Cyprus	where this train terminates.		The next stop is Cyprus	Where this train will terminate, please remember to take all your belongings with you	
			101	10000	16	656	(DESTINATION)	Next stop is	Deptford Bridge	where this train terminates.		The next stop is Deptford Bridge	Where this train will terminate, please remember to take all your belongings with you	
			101	10001	17	657	(DESTINATION)	Next stop is	Devons Road	where this train terminates.		The next stop is Devons Road	Where this train will terminate, please remember to take all your belongings with you	
			101	10010	18	658	(DESTINATION)	Next stop is	East India	where this train terminates.		The next stop is East India	Where this train will terminate, please remember to take all your belongings with you	
See 692 below.			101	10011	19	659	(DESTINATION)	Next stop is	Elverson Road	where this train terminates.		The next stop is Elverson Road	Where this train will terminate, please remember to take all your belongings with you	
See 693 below.			101	10100	20	660	(DESTINATION)	Next stop is	Gallions Reach	where this train terminates.		The next stop is Gallions Reach	Where this train will terminate, please remember to take all your belongings with you	
			101	10101	21	661	(DESTINATION)	Next stop is	Greenwich	where this train terminates.		The next stop is Greenwich	Where this train will terminate, please remember to take all your belongings with you	
			101	10110	22	662	(DESTINATION)	Next stop is	Heron Quays	where this train terminates.		The next stop is Heron Quays	Where this train will terminate, please remember to take all your belongings with you	
			101	10111	23	663	(DESTINATION)	Next stop is	Island Gardens	where this train terminates.		The next stop is Island Gardens	Where this train will terminate, please remember to take all your belongings with you	
			101	11000	24	664	(DESTINATION)	Next stop is	King George V	where this train terminates.		The next stop is King George the Fifth	Where this train will terminate, please remember to take all your belongings with you	
			101	11001	25	665	(DESTINATION)	Next stop is	Langdon Park	where this train terminates.		The next stop is Langdon Park	Where this train will terminate, please remember to take all your belongings with you	
			101	11010	26	666	(DESTINATION)	Next stop is	Lewisham	where this train terminates.		The next stop is Lewisham	Where this train will terminate, all change	for National Rail and local bus services
			101	11011	27	667	(DESTINATION)	Next stop is	Limehouse	where this train terminates.		The next stop is Limehouse	Where this train will terminate, please remember to take all your belongings with you	
			101	11100	28	668	(DESTINATION)	Next stop is	Mudchute	where this train terminates.		The next stop is Mudchute	Where this train will terminate, please remember to take all your belongings with you	
			101	11101	29	669	(DESTINATION)	Next stop is	Pontoon Dock	where this train terminates.		The next stop is Pontoon Dock	Where this train will terminate, please remember to take all your belongings with you	
			101	11110	30	670	(DESTINATION)	Next stop is	Poplar	where this train terminates.		The next stop is Poplar	Where this train will terminate, please remember to take all your belongings with you	
			101	11111	31	671	(DESTINATION)	Next stop is	Prince Regent for ExCeL East	where this train terminates.		The next stop is Prince Regent for ExCeL East and ICC London	Where this train will terminate, please remember to take all your belongings with you	
See 694 below.			101	100000	32	672	(DESTINATION)	Next stop is	Pudding Mill Lane	where this train terminates.		The next stop is Pudding Mill Lane	Where this train will terminate, please remember to take all your belongings with you	
See 695 below.			101	100001	33	673	(DESTINATION)	Next stop is	Royal Albert	where this train terminates.		The next stop is Royal Albert	Where this train will terminate, please remember to take all your belongings with you	
			101	100010	34	674	(DESTINATION)	Next stop is	Royal Victoria	where this train terminates.		The next stop is Royal Victoria	Where this train will terminate, please remember to take all your belongings with you	
			101	100011	35	675	(DESTINATION)	Next stop is	Shadwell	where this train terminates.		The next stop is Shadwell	Where this train will terminate, please remember to take all your belongings with you	
			101	100100	36	676	(DESTINATION)	Next stop is	South Quay	where this train terminates.		The next stop is South Quay	Where this train will terminate, please remember to take all your belongings with you	
Stratford international Extn.			101	100101	37	677	(DESTINATION)	Next stop is	Star Lane	where this train terminates.		The next stop is Star Lane	Where this train will terminate, please remember to take all your belongings with you	
			101	100110	38	678	(DESTINATION)	Next stop is	Stratford	where this train terminates.		The next stop is Stratford	Where this train will terminate, all change	for London Underground Central and Jubilee Lines, National Rail and local bus services
Stratford international Extn.			101	100111	39	679	(DESTINATION)	Next stop is	Stratford International	where this train terminates.		The next stop is Stratford Int'l	Where this train will terminate, please remember to take all your belongings with you	
Stratford international Extn.			101	101000	40	680	(DESTINATION)	Next stop is	Stratford High Street	where this train terminates.		The next stop is Stratford High Street	Where this train will terminate, please remember to take all your belongings with you	
reserved for future			101	101001	41	681	(DESTINATION)	Next stop is	Thames Wharf	where this train terminates.		The next stop is Thames Wharf	Where this train will terminate, please remember to take all your belongings with you	
			101	101010	42	682	(DESTINATION)	Next stop is	Tower Gateway	where this train terminates.		The next stop is Tower Gateway	Where this train will terminate, all change	for London Underground District and Circle Lines at Tower Hill station please leave the train from the right hand side in the direction of travel.
Stratford international Extn.			101	101011	43	683	(DESTINATION)	Next stop is	West Ham	where this train terminates.		The next stop is West Ham	Where this train will terminate, please remember to take all your belongings with you	
			101	101100	44	684	(DESTINATION)	Next stop is	West India Quay	where this train terminates.		The next stop is West India Quay	Where this train will terminate, please remember to take all your belongings with you	
			101	101101	45	685	(DESTINATION)	Next stop is	West Silvertown	where this train terminates.		The next stop is West Silvertown	Where this train will terminate, please remember to take all your belongings with you	
			101	101110	46	686	(DESTINATION)	Next stop is	Westferry	where this train terminates.		The next stop is Westferry	Where this train will terminate, please remember to take all your belongings with you	
			101	101111	47	687	(DESTINATION)	Next stop is	Woolwich Arsenal	where this train terminates.		The next stop is Woolwich Arsenal	Where this train will terminate, all change	for National Rail and local bus services
			101	110000	48	688	(DESTINATION)	Next stop is	Canary Wharf	where this train terminates.		The next stop is Canary Wharf	Where this train will terminate, please remember to take all your belongings with you	
			101	110001	49	689								
			101	110010	50	690								
Replaces 654 for 3-car trains			101	110011	51	691	(DESTINATION)	Next stop is	Cutty Sark,	where this train terminates.	Alight towards the centre of the train.	The next stop is Cutty Sark for Maritime Greenwich. Alight here for to alight please move toward the centre of the train (pause). The next stop is Cutty Sark Greenwich Town Centre, the Royal Naval College and the National Maritime Museum	Where this train will terminate, all change	
Replaces 659 for 3-car trains			101	110100	52	692	(DESTINATION)	Next stop is	Elverson Road,	where this train terminates.	Alight towards the centre of the train.	The next stop is Elverson Road	to alight please move toward the centre of the train (pause). The next stop is Elverson Road	Where this train will terminate, please remember to take all your belongings with you
Replaces 660 for 3-car trains			101	110101	53	693	(DESTINATION)	Next stop is	Gallions Reach,	where this train terminates.	Alight towards the centre of the train.	The next stop is Gallions Reach	to alight please move toward the centre of the train (pause). The next stop is Gallions Reach	Where this train will terminate, please remember to take all your belongings with you
Replaces 672 for 3-car trains approaching P			101	110110	54	694	(DESTINATION)	Next stop is	Pudding Mill Lane,	where this train terminates.	Alight towards the centre of the train.	The next stop is Pudding Mill Lane	to alight please move toward the centre of the train (pause). The next stop is Pudding Mill Lane	Where this train will terminate, please remember to take all your belongings with you
Replaces 673 for 3-car trains			101	110111	55	695	(DESTINATION)	Next stop is	Royal Albert,	where this train terminates.	Alight towards the centre of the train.	The next stop is Royal Albert	to alight please move toward the centre of the train (pause). The next stop is Royal Albert	Where this train will terminate, please remember to take all your belongings with you

AVIS Interface Definition
Message Type 7 - Docked at Terminal or Exit platform
Trigger List

THALES TRIGGERS			Message ID				AVIS REACTION			
Notes	Trigger	Lines	type	id,binary	id	No	External display	Internal Display		Voice message.
not used			110	0	0	768				
		29, 129, 130, ED#2	110	1	1	769	DESTINATION #1	All Saints	train terminates here	This is All Saints — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		1, 5, 8, 14, 15, 21, 28	110	10	2	770	DESTINATION #1	Bank	train terminates here	This is Bank — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		ED	110	11	3	771	DESTINATION #1	Beckton	train terminates here	This is Beckton — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		114, 115, 132,	110	100	4	772	DESTINATION #1	Blackwall	train terminates here	This is Blackwall — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		4, 24, 64, 127,	110	101	5	773	DESTINATION #1	Bow Church	train terminates here	This is Bow Church — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		36, 50, 92, 93, 94, S?	110	110	6	774	DESTINATION #1	Canning Town	train terminates here	This is Canning Town — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		1, 4, 5, 16, 53, 61, 74	110	111	7	775	DESTINATION #1	Crossharbour	train terminates here	This is Crossharbour — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
1 or 2 car trains		48, ED	110	1000	8	776	DESTINATION #1	Gallions Reach	train terminates here	This is Gallions Reach — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		65, 66, 68,	110	1001	9	777	DESTINATION #1	Greenwich	train terminates here	This is Greenwich — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		7, 106, 120, ED	110	1010	10	778	DESTINATION #1	Poplar	train terminates here	This is Poplar — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		3, 12, 21, 63, 86, 90,	110	1011	11	779	DESTINATION #1	Prince Regent for ExCeL East	train terminates here	This is Prince Regent for ExCeL East and ICC London — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		47, S3#3, ED#4	110	1100	12	780	DESTINATION #1	Royal Victoria	train terminates here	This is Royal Victoria — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		S9,	110	1101	13	781	DESTINATION #1	Stratford	train terminates here	This is Stratford — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		SIE line required	110	1110	14	782	DESTINATION #1	Stratford High Street	train terminates here	This is Stratford High Street — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		S8,	110	1111	15	783	DESTINATION #1	West Ham	train terminates here	This is West Ham — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		59,	110	10000	16	784	DESTINATION #1	Mudchute	train terminates here	This is Mudchute — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
3-car trains		48, ED	110	10001	17	785	DESTINATION #1	Gallions Reach	train terminates here , to alight move towards the centre of the train.	This is Gallions Reach — to alight please move towards the centre of the train. This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
1 or 2 car trains		39,	110	10010	18	786	DESTINATION #1	Royal Albert	train terminates here	This is Royal Albert — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		18,	110	10011	19	787	DESTINATION #1	Shadwell	train terminates here	This is Shadwell — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
		140,	110	10100	20	788	DESTINATION #1	King George V	train terminates here	This is King George the Fifth — This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.
3-car trains		39	110	10101	21	789	DESTINATION #1	Royal Albert	train terminates here , to alight move towards the centre of the train.	This is Royal Albert — to alight please move towards the centre of the train. This train terminates here, all change. When leaving the train please remember to take all of your belongings with you.

#1 destination will always be 'NOT IN SERVICE' (refer to scenarios).
#2 ED = exit to depot
#3 S prefix for SIE lines.
#4 For 3-car trains exiting to BED on special 3-car exit paths

AVIS Interface Definition
Message type 8 - Departing station out of service or Special (including SDO).
Trigger List

	THALES TRIGGERS		Message ID				AVIS REACTION								
Notes	Trigger	Lines	type	id,binary	id	No	External display	Internal Display	'Destination', next stop is		Voice message.				Notes
Not used		111	0	0	896	NOT IN SERVICE	NOT IN SERVICE			NOT IN SERVICE					Test message for MCU3
		111	1	1	897	DESTINATION #1									
Not used		111	10	2	898	DESTINATION	Train is for	'Destination', next stop is Poplar	The train will reverse on route.	This train is for	Destination'	The next stop is	Poplar	The train will reverse on route.	
#2		111	11	3	899	DESTINATION	Train is for	'Destination', next stop is Cutty Sark	,to alight move towards the centre of the train.	The next stop is	Cutty Sark	to alight please move towards the centre of the train		as the first two sets and last two sets of doors will not open.	
#2		111	100	4	900	DESTINATION	Train is for	'Destination', next stop is Elverson Road	,to alight move towards the centre of the train.	The next stop is	Elverson Road	to alight please move towards the centre of the train		as the first two sets and last two sets of doors will not open.	
#2		111	101	5	901	DESTINATION	Train is for	'Destination', next stop is Gallions Reach	,to alight move towards the centre of the train.	The next stop is	Gallions Reach	to alight please move towards the centre of the train		as the first two sets and last two sets of doors will not open.	
#2		111	110	6	902	DESTINATION	Train is for	'Destination', next stop is Pudding Mill Lane	,to alight move towards the centre of the train.	The next stop is	Pudding Mill Lane	to alight please move towards the centre of the train		as the first two sets and last two sets of doors will not open.	
#2		111	111	7	903	DESTINATION	Train is for	'Destination', next stop is Royal Albert	,to alight move towards the centre of the train.	The next stop is	Royal Albert	to alight please move towards the centre of the train		as the first two sets and last two sets of doors will not open.	
#3		111	1000	8	904	DESTINATION	Train is for	'Destination', next stop is Island Gardens		The next stop is	Island Gardens	At Cutty Sark the first two sets and last two sets of doors will not open		to alight please move towards the centre of the train	
#3		112	1001	9	905	DESTINATION	Train is for	'Destination', next stop is Greenwich		The next stop is	Greenwich	At Cutty Sark the first two sets and last two sets of doors will not open		to alight please move towards the centre of the train	
#3		113	1010	10	906	DESTINATION	Train is for	'Destination', next stop is Deptford Bridge		The next stop is	Deptford Bridge	At Elverson Road the first two sets and last two sets of doors will not open		to alight please move towards the centre of the train	
		114	1011	11	907										
#3		115	1100	12	908	DESTINATION	Train is for	'Destination', next stop is Bow Church		The next stop is	Bow Church	At Pudding Mill Lane the first two sets and last two sets of doors will not open		to alight please move towards the centre of the train	
		116	1101	13	909										
#3		111	1110	14	910	DESTINATION	Train is for	'Destination', next stop is Prince Regent for ExCeL East		The next stop is	Prince Regent	At Royal Albert the first two sets and last two sets of doors will not open		to alight please move towards the centre of the train	
#3		111	1111	15	911	DESTINATION	Train is for	'Destination', next stop is Beckton Park		The next stop is	Beckton Park	At Royal Albert the first two sets and last two sets of doors will not open		to alight please move towards the centre of the train	
#3		111	10000	16	912	DESTINATION	Train is for	'Destination', next stop is Cyprus		The next stop is	Cyprus	At Gallions Reach the first two sets and last two sets of doors will not open		to alight please move towards the centre of the train	

#1 destination will always be 'NOT IN SERVICE' (refer to scenarios).
#2 This message is used for selective door operations when operating 3 car trains and given after departure from the previous station
#3 This message is used for three car selective door operations at specified stations and is given after departure, one station prior to message 899. Refer to scenario shown on page 4.

destinations

Manual Keypad	chs line 1	External display - max two lines alternating each 15 characters	chs line 2	Internal Display - max 100 characters scrolling	chs	Keypad window, max 12 digits	dgts	Phrase used in voice message where 'destination' shown in tables.	Manual Keypad	External display - max two lines alternating each 15 characters IN KEYPAD ORDER
66	10	Abbey Road		Abbey Road	10	Abbey Road	10	Abbey Road	1	Bank
18	10	All Saints		All Saints	10	All Saints	10	ALL SAINTS	2	Bank via C Wharf
1	4	Bank		Bank	4	Bank	4	BANK	3	Tower Gateway
2	4	Bank via C Wharf	11	Bank via Canary Wharf	21	Bank via CAW	12	BANK VIA CANARY WHARF	4	Tower Gateway via C Wharf
5	7	Beckton		Beckton	7	Beckton	7	BECKTON	5	Beckton
50	7	Beckton via C Wharf	11	Beckton via Canary Wharf	24	BEC via CAW	11	BECKTON VIA CANARY WHARF	6	Stratford
19	12	Beckton Park		Beckton Park	12	Beckton Park	12	Beckton Park	7	Island Gardens
20	9	Blackwall		Blackwall	9	Blackwall	9	BLACKWALL	9	Crossharbour
21	10	Bow Church		Bow Church	10	Bow Church	10	BOW CHURCH	11	Canary Wharf
63	9	Bow Creek		Bow Creek	9	Bow Creek	9	BOW CREEK	13	Poplar
11	12	Canary Wharf		Canary Wharf	12	Canary Wharf	12	CANARY WHARF	15	Lewisham
23	12	Canning Town		Canning Town	12	Canning Town	12	CANNING TOWN	16	Not in Service
51	12	Canning Town via C Wharf	11	Canning Town via Canary Wharf	29	CAT via CAW	11	CANNING TOWN VIA CANARY WHARF	17	Test Train
57	12	City Airport		London City Airport	19	City Airport	12	LONDON CITY AIRPORT	18	All Saints
58	12	City Airport via C Wharf	11	London City Airport via Canary Wharf	36	LCA via CAW	11	CITY AIRPORT VIA CANARY WHARF	19	Beckton Park
9	12	Crossharbour		Crossharbour	12	Crossharbour	12	CROSSHARBOUR	20	Blackwall
25	12	Custom House		Custom House for ExCeL West	22	Custom House	12	Custom House for ExCeL West	21	Bow Church
26	10	Cutty Sark		Cutty Sark	10	Cutty Sark	10	Cutty Sark for Maritime Greenwich.	22	East India
27	6	Cyprus		Cyprus	6	Cyprus	6	CYPRUS	23	Canning Town
29	15	Deptford Bridge		Deptford Bridge	15	Deptford Brg	12	DEPTFORD BRIDGE	25	Custom House
28	11	Devons Road		Devons Road	11	Devons Road	11	DEVONS ROAD	26	Cutty Sark
22	10	East India		East India	10	East India	10	EAST INDIA	27	Cyprus
30	13	Elverson Road		Elverson Road	13	Elverson Rd	11	ELVERSON ROAD	28	Devons Road
31	14	Gallions Reach		Gallions Reach	14	Gallions Rch	12	GALLIONS REACH	29	Deptford Bridge
32	9	Greenwich		Greenwich	9	Greenwich	9	GREENWICH	30	Elverson Road
33	11	Heron Quays		Heron Quays	11	Heron Quays	11	HERON QUAYS	31	Gallions Reach
7	14	Island Gardens		Island Gardens	14	Island Gdns	11	ISLAND GARDENS	32	Greenwich
55	13	King George V via C Airport	13	King George V via City Airport	30	KGV via LCA	11	King George the Fifth via London City Airport	33	Heron Quays
56	13	King George V		King George V	13	KGV	3	King George the Fifth	35	Limehouse
61	12	Langdon Park		Langdon Park	12	Langdon Park	12	LANGDON PARK	37	Mudchute
15	8	Lewisham		Lewisham	8	Lewisham	8	LEWISHAM	38	Prince Regent
35	9	Limehouse		Limehouse	9	Limehouse	9	LIMEHOUSE	39	Pud'g Mill Lane
37	8	Mudchute		Mudchute	8	Mudchute	8	MUDCHUTE	40	Royal Albert
16	14	Not in Service		Not in Service	14	Not in Svce	11		41	Royal Victoria
60	12	Pontoon Dock		Pontoon Dock	12	Pontoon Dock	12	PONTOON DOCK	42	Shadwell
13	6	Poplar		Poplar	6	Poplar	6	POPLAR	44	South Quay
38	13	Prince Regent		Prince Regent for ExCeL East	23	Pr Regent	9	Prince Regent for ExCeL East and ICC London	46	Thames Wharf
52	13	Prince Regent via C Wharf	11	Prince Regent via Canary Wharf	30	PRR via CAW	11	PRINCE REGENT VIA CANARY WHARF	47	Westferry
39	15	Pud'g Mill Lane		Pudding Mill Lane	17	Pudg Mill Ln	12	Pudding Mill Lane	49	West India Quay
40	12	Royal Albert		Royal Albert	12	Royal Albert	12	ROYAL ALBERT	50	Beckton via C Wharf
41	14	Royal Victoria		Royal Victoria	14	Royal Vic	9	ROYAL VICTORIA	51	Canning Town via C Wharf
42	8	Shadwell		Shadwell	8	Shadwell	8	SHADWELL	52	Prince Regent via C Wharf
44	10	South Quay		South Quay	10	South Quay	10	SOUTH QUAY	53	Woolwich Arsnl via C Airport
70	7	Special		Special	7	Special	7		54	Woolwich Arsnl via C Wharf
64	9	Star Lane		Star Lane	9	Star Lane	9	STAR LANE	55	King George V via C Airport
6	9	Stratford		Stratford	9	Stratford	9	STRATFORD	56	King George V
62	14	Stratford Int'l		Stratford International	23	Stratfd Intl	12	Stratford International	57	City Airport
67	14	Stratford H St		Stratford High Street	21	Stratfd H St	12	Stratford High Street	58	City Airport via C Wharf
17	10	Test Train		Test Train	10	Test Train	10		59	West Silvertown
46	12	Thames Wharf		Thames Wharf	12	Thames Wharf	12	THAMES WHARF	60	Pontoon Dock
3	13	Tower Gateway		Tower Gateway	13	Tower G'way	11	TOWER GATEWAY	61	Langdon Park
4	13	Tower Gateway via C Wharf	11	Tower Gateway via Canary Wharf	30	TOG via CAW	11	TOWER GATEWAY VIA CANARY WHARF	62	Stratford Int'l
65	8	West Ham		West Ham	8	West Ham	8	WEST HAM	63	Bow Creek
49	15	West India Quay		West India Quay	15	W India Quay	12	WEST INDIA QUAY	64	Star Lane
59	15	West Silvertown		West Silvertown	15	W Silvertown	12	WEST SILVERTOWN	65	West Ham
47	9	Westferry		Westferry	9	Westferry	9	WESTFERRY	66	Abbey Road
53	14	Woolwich Arsnl via C Airport	13	Woolwich Arsenal via City Airport	33	WOA via LCA	11	Woolwich Arsenal via London City Airport	67	Stratford H St
54	14	Woolwich Arsnl via C Wharf	11	Woolwich Arsenal via Canary Wharf	33	WOA via CAW	11	Woolwich Arsenal via Canary Wharf	68	Woolwich Arsnl
68	14	Woolwich Arsnl		Woolwich Arsenal	16	Wwich Arsenl	12	Woolwich Arsenal	70	Special

Longest Destination	36
Longest Station	23

AVIS Interface Definition
Phrases used to build audio messages.

File Ref.	Phrase
16385	Abbey Road
16386	ALL SAINTS
16387	BANK
16388	BANK VIA CANARY WHARF
16389	BECKTON
16390	BECKTON PARK
16391	BECKTON VIA CANARY WHARF
16392	BLACKWALL
16393	BOW CHURCH
16394	BOW CREEK
16395	CANARY WHARF
16396	CANNING TOWN
16397	CANNING TOWN VIA CANARY WHARF
16398	LONDON CITY AIRPORT
16399	CITY AIRPORT VIA CANARY WHARF
16400	CROSSHARBOUR
16401	Custom House for ExCeL
16402	Cutty Sark for Maritime Greenwich.
16403	CYPRUS
16404	DEPTFORD BRIDGE
16405	DEVONS ROAD
16406	EAST INDIA
16407	ELVERSON ROAD
16408	GALLIONS REACH
16409	GREENWICH
16410	HERON QUAYS
16411	ISLAND GARDENS
16412	King George the Fifth
16413	King George the Fifth via London City Airport
16414	LANGDON PARK
16415	LEWISHAM
16416	LIMEHOUSE
16417	MUDCHUTE
16418	NOT IN SERVICE
16419	PONTOON DOCK
16420	POPLAR
16421	PRINCE REGENT for ExCeL
16422	PRINCE REGENT VIA CANARY WHARF
16423	Pudding Mill Lane
16424	ROYAL ALBERT
16425	ROYAL VICTORIA
16426	SHADWELL
16427	SOUTH QUAY
16428	STAR LANE
16429	STRATFORD
16430	Stratford International
16431	Stratford High Street
16432	THAMES WHARF
16433	TOWER GATEWAY
16434	TOWER GATEWAY VIA CANARY WHARF
16435	WEST HAM
16436	WEST INDIA QUAY
16437	WEST SILVERTOWN
16438	WESTFERRY
16439	Woolwich Arsenal via London City Airport
16440	Woolwich Arsenal via Canary Wharf
16441	Woolwich Arsenal via London City Airport
16442	TEST TRAIN
16443	SPECIAL
16444	VIA CANARY WHARF
16452	Cutty Sark
16453	All Saints for Chrisp Street Market
16454	Prince Regent for ExCeL
16455	Prince Regent for ExCeL East and ICC London
16456	Change for National Rail and local bus services
16457	Change for National Rail services
16458	for London Underground Central and Jubilee Lines, National Rail and local bus services
16459	for London Underground services
16460	for London Underground District and Circle Lines at Tower Hill station
16461	Change for London Underground District and Hammersmith and City Lines at Bow Road station.
16462	Change for London Overground
16463	Change for London Underground Jubilee Line
16466	Custom House for ExCeL West
16467	Cutty Sark for Maritime Greenwich. Alight here for Greenwich Town Centre, the Royal Naval College and the National Maritime Museum
16468	Change for stations towards Bank and Tower Gateway
16469	Change for stations towards Beckton and London City Airport
16471	Change for stations towards Beckton, London City Airport, Bank and Tower Gateway
16473	Change for stations towards Canary Wharf and Lewisham
16474	for London Underground Jubilee Line and for stations towards Greenwich and Lewisham
16475	Change for stations towards Stratford
16479	Change for stations towards Stratford, Canary Wharf and Lewisham
16480	Change for stations towards Beckton, London City Airport and Stratford
16481	Royal Albert for West Beckton
16482	The next stop is
16483	The train will terminate, please remember to take all your belongings with you
16484	This is
16485	This train is for
16486	Please contact the Train Captain or press the Passenger Alarm immediately
16487	This train terminates here, all change, when leaving the train please remember to take all your belongings with you
16488	via Canary Wharf
16489	where this train terminates.
16490	All Saints for Chrisp Street Market
16491	The next stop is Poplar. The Train will reverse on route
16493	This train is not in service
16512	Train is for
16513	Next stop is
16514	train is for
16515	train terminates here
16516	Please remember to take all your belongings with you
16517	Change for stations towards Beckton, London Underground Jubilee Line and local bus services
16518	for London Underground District and Hammersmith and City Line at Bow Road station
16519	for National Rail and local bus services
16520	for London Underground Jubilee Line and local bus services
16521	Change for London Underground Jubilee Line and local bus services.
16522	The train will terminate, all change
16523	change for London Underground Jubilee Line and for stations towards Greenwich and Lewisham
16524	When leaving the train please remember to take all your belongings with you
16525	where this train will terminate, all change
16526	where this train will terminate, please remember to take all your belongings with you.
16527	Change for London Underground services
16528	as
16529	at
16530	please leave the train from the right hand side in the direction of travel
16531	the first two sets and last two sets of doors will not open
16532	to alight please move towards the centre of the train
16533	This train does not stop at West India Quay, for West India Quay please change at Canary Wharf and go to Platform 5
16534	and DLR to West India Quay
16535	change for London Underground Jubilee Line
16537	(Pause) The next stop is