



Research & Vehicle Technology "Infotainment Systems Product Development"

Feature – List Browser Protocol

APIM Infotainment Subsystem Part Specific Specification (SPSS)

Version 1.9
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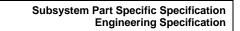
Version Date: October 4, 2021

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Revision History

Date	Version		Notes
May 30, 2013	1.0	Initial Release	
October 14, 2013	1.1		
	LBP-GFUN-294540-2-List Browser Icon and Structured Data		rpaquet2 - Added List structures from A64 document and renamed function. Moved Mobile Apps into Media. No functional changes other then adding new Source and Metadata Icon info for Line In.
	LBP-GREQ-2	94524-2-Get Item Request	rpaquet2 - Removed SYNC text and replaced with general name List Browser Server.
		94525-2-Audio Source List	rpaquet2 - Change A22j to H22j.
	LBP-GREQ-2	94526-2-Source Name	rpaquet2 - Removed SYNC text and replaced with general name List Browser Server.
	LBP-GREQ-2	94527-2-Source Number	rpaquet2 - Removed SYNC text and replaced with general name List Browser Server.
		94528-2-Non Indexing Source	rpaquet2 - Removed SYNC text and replaced with general name List Browser Server.
	LBP-GREQ-2	94529-2-Unavailable Source	rpaquet2 - Removed SYNC text and replaced with general name List Browser Server.
		94530-2-Non Metadata Source Icon	rpaquet2 - Removed APIM SPSS text from the requirement.
		94531-2-Object State	rpaquet2 - Removed APIM text and replaced with general name List Browser Server. Also removed APIM SPSS text.
		94532-2-Response Time	rpaquet2 - Removed SYNC text and replaced with general name List Browser Server.
	LBP-GREQ-2	94533-2-Applink Source Unavailable	rpaquet2 -Removed SYNC text and replaced with general name List Browser Server.
	LBP-GREQ-2	94534-2-No Applink App Selected	rpaquet2 - Removed SYNC text and replaced with general name List Browser Server.
	LBP-GREQ-2	94535-2-Applink Metadata	rpaquet2 - Removed SYNC text and replaced with general name List Browser Server.
	LBP-GREQ-2 Metadata	94539-2-Non Indexing Source with	rpaquet2 - Removed APIM SPSS text.
	LBP-GREQ-3	01568-1-Metadata Icons	rpaquet2 - Incorporating A64 document
		01569-1-Source Icons	rpaquet2 - Incorporating A64 document
		01570-1-Phone Icons	rpaquet2 - Incorporating A64 document
		01571-1-Navigation Icons	rpaquet2 - Incorporating A64 document
	Media List Str		rpaquet2 - Incorporating A64 document
	List Structure	01575-1-List Server Phone Info - Phone	rpaquet2 - Incorporating A64 document
	Navigation Lis		rpaquet2 - Incorporating A64 document
		01589-1-List Server Generic List 1 - s List Structure	rpaquet2 - Incorporating A64 document
	LBP-GREQ-3 Valet Mode Li	01590-1-List Server Generic List 1 - st Structure	rpaquet2 - Incorporating A64 document
June 13, 2014	1.2		
	Structured Da	Q-019734/B-List Browser Icon and ta (TcSE ROIN-294540-2)	rpaquet2 - Added new Requirements 089676, 089678 and 089684 for GAL/CarPlay.
	GAL/CarPlay.		aaldalla-new requirement for Carplay/GAL
	GAL/CarPlay.		aaldalla-new requirement for GAL/CarPlay
	LBP-REQ-089 GAL/CarPlay	9684/A-LBP Navigation definition for	aaldalla- new requirement for LBP while GAL/CarPlay



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December 18, 2015	1.3		
	_	I /B-List Data Structure (TcSE ROIN-	sberg15: Added new variant of Item Descriptor Attribute requirement
	STR-063612/ 293797-1)	/C-List Data Structure (TcSE ROIN-	sberg15: added Activation Event Attribute requirement variant 2.
	LBPv2-SR-R	EQ-128955/B-Item Descriptor Attribute+	rpaquet2 - Added Radio Mixed Presets to the table. Replaces requirement 19789
	LBPv2-SR-R	EQ-128955/C-Item Descriptor Attribute	sberg15: Added item descriptor 0x61 Phone Call Category and 0xA4 Radio Source
	STR-063613/	/B-List Hierarchy (TcSE ROIN-293798-1)	sberg15: added new variant of Available List Servers requirement
	LBPv2-SR-R	EQ-128954/B-Avaliable List Servers	sberg15: Added information that list server 0x07 RadioDataService1 is used for "Basic" EPG; added new list server 0x09 RadioDataService3 for "Advanced" EPG data. This replaced requirement 19783.
	STR-063617/ 293803-1)	/B-Interface Requirements (TcSE ROIN-	sberg15: Added new method descriptions for prefetch and list update function.
	LBPv2-MD-R	EQ-130601/A-ItemInfo_Rq	New requirement format
	LBPv2-MD-R	EQ-130388/A-PrefetchState_St	New requirement
	LBPv2-MD-R	EQ-130602/A-ItemInfo_Rsp	New requirement format
	LBPv2-MD-R	EQ-130389/A-ListServerUpdate_Ind	New requirement
	STR-063618/ (TcSE ROIN-	/B-Navigating Devices and List Servers 293805-1)	sberg15: Added new requirement for Data Prefetch definition.
		Q-019734/C-List Browser Icon and ata (TcSE ROIN-294540-2)+	rpaquet2 - Update requirement 089678.
	Structured Da	Q-019734/D-List Browser Icon and ata (TcSE ROIN-294540-2)	sberg15: added server structure requirements for Basic and Advanced EPG and Journaline to support enhanced DAB features coming with C519
	301569-1)	9753/B-Source Icons (TcSE ROIN-	sberg15: Separated AM/FM icon ID into a single AM and FM ID; Added icon ID for DAB;
	List Structure	9757/B-List Server Phone Info - Phone (TcSE ROIN-301575-1)	rpaquet2 - updated table for empty list to fix AIMS issue.
	Navigation Li	9758/B-List Server Navigation Info - st Structure (TcSE ROIN-301576-1)	rpaquet2 - Updated No matches found to show Return instead off Ok to fix AIMS issue.
	LBP-REQ-08 GAL/CarPlay	9678/B-LBP Phone definition for .	rpaquet2 - removed text to indicate no phone connected and added CarPlay LBP Structure.
		2690/B-List Server RadioDataService1 - ucture for Centerstack HMI	sberg15: removed Advanced EPG Root server structure.
	· ·	2691/B-List Server RadioDataService2 - st Structure for Centerstack HMI	sberg15: Reduced number of list items in root list from 65534 to 51.
		2091/A-List Server RadioDataService3 – PG List Structure for Centerstack HMI	sberg15: initial release for Advanced EPG
	LBPv2-SR-R	EQ-205695/A-Activation Event Attribute	sberg15: new variant
	LBP-SR-REC	Q-129269/A-Data Prefetch	sberg15: new requirement
March 9, 2016	1.4		
	293797-1)	/D-List Data Structure (TcSE ROIN-	rpaquet2 - removed 019787 replaced by 205695 which was already released previously.
	LBPv2-SR-R	EQ-128955/D-Item Descriptor Attribute	rpaquet2 - Updated 0xA3 Radio Mixed Presets to include a parameter for PresetState.
			sberg15 - Updated 0xA2 Radio Journaline Data to include a parameter for ChildStatus.
	LBPv2-IIR-REQ-130597/B-LBPClient_LBPServer STR-063619/B-Functional Definition (TcSE ROIN- 293956-1)		rpaquet2 - removed MD 130388 PrefetchState_St.
			rpaquet2 - Added Server list update.
June 1, 2016	1.5		
		EQ-019734/E-List Browser Icon and ata (TcSE ROIN-294540-2)	rpaquet2 - Added 222052 per Mobile NAV and APIM team request.
	STR-063529/	/C-Requirements (TcSE ROIN-294541)	rpaquet2- Added 222052 per Mobile NAV and APIM team request.
		2052/A-LBP Navigation definition for	rpaquet2 - new requirement for LBP while Mobile NAV active.

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February 17, 2017	1.6			
	LBPv2-SR-RI	REQ-128954/C-Avaliable List Servers+		rpaquet2 - Added 0x0A Radio 2 for providing source list from AHU to rear display.
	LBPv2-SR-RI	EQ-128954/D-Avaliable	List Servers	rpaquet2 - Added new list server for Considerate Prompts POI lists
		EQ-130389/B-ListServe	. –	sberg15: corrected typo in ListServer literal All decription field; Added value 0xFFFF All Lists to parameter ListID.
	(TcSE ROIN-			rpaquet2 - Added Static List Usage requirement needed for Considerate Prompts
)-250149/A-Static List U		rpaquet2: initial release
	LBP-FUR-RE ROIN-294529	Q-019741/B-Unavailabl 9-2)	le Source (TcSE	rpaquet2 - Added note to indicate response is for source internal to the responder.
June 16, 2017	1.7			
	LBP-REQ-08 GAL/CarPlay	9676/B-LBP Media defir	nition for	rpaquet2 - Update requirement per Projection mode owners
January 23, 2020	1.8			
	LBPv2-SR-RI	EQ-128955/E-Item Desc	criptor Attribute+	sberg15: added 0xA5 Radio Mixed Station item descriptor
		EQ-128955/F-Item Desc	•	sberg15: Updated 0xA5 Radio Mixed Station Item Descriptor with parameters for PI-Code, SCIS, SID and ECC.
	LBPv2-SR-REQ-128955/G-Item Des		criptor Attribute	sberg15: Added parameter TPFlag to Item Descriptor 0xA5;
	LBPv2-SR-REQ-128954/E-Avaliable		List Servers	sberg15: Added value 0x0C Radio Data Service 4 for Mixed Station List
		EQ-130601/B-ItemInfo_		asimukhi: no content change. Updated Logical-Physical mapping
		EQ-130602/B-ItemInfo_		asimukhi: no content change. Updated Logical-Physical mapping
	LBPv2-MD-R	EQ-130389/C-ListServe	erUpdate_Ind	asimukhi: no content change. Updated Logical-Physical mapping
		9756/B-List Server Gen ructure (TcSE ROIN-30		rpaquet2 - Removed the Non Indexing device sub menu as you can only do a set for Non Indexing devices. Also removed Simialr music
				from Indexing device list as this was never used.
	101	l		
January 23, 2020	1.8.1			
		9756/C-List Server Gen ructure (TcSE ROIN-30		rpaquet2 - Updated to clarify you can only go to list 1 as list 2 for non indexing device was removed.
October 4, 2021	1.9			
	LBPv2-SR-RI	EQ-128955/H-Item Des	criptor Attribute+	rpaquet2 - Added note for AM FM equation to 0xA3 Radio Mixed Preset added A6 For Mix Mode PResets in Phoenix
	LBPv2-SR-RI	EQ-128955/I-Item Desc	riptor Attribute	sberg15: added 0xA7 Radio Mixed Station List
		EQ-128954/F-Avaliable		rpaquet2 - Updated for Phoenix added 0x0D and 0x0E for Preset data list
		D-Requirements (TcSE		rpaquet2 - added 434810
	LBPv2-REQ-434810/A-List Server Ge Media List Structure		eneric Media 1 -	rpaquet2 - new



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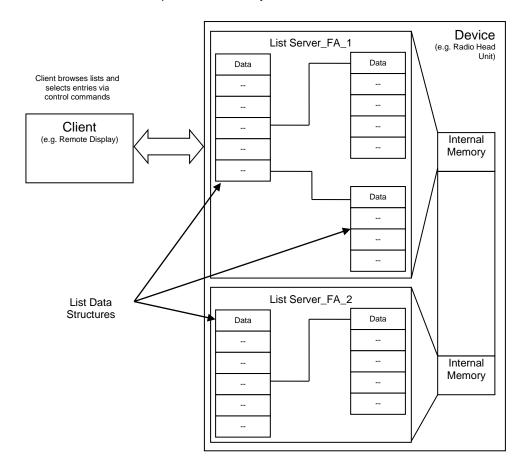
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1 Architectural Design

The List Browser Protocol is a general way for devices (e.g. radio head unit, remote display) to store and share information across the network. The strategy is based upon devices storing information in a standardized list data structure which can then be used for sharing information between clients and servers. The protocol has been developed to allow any client the ability to browse through and select entries from a list of entries located on any device also implementing this protocol. Lists can be navigated up and down to select entries and traversed forward and backward between parent and child lists. The protocol is flexible in that one common strategy can be applied to browse multiple types of data (e.g. song lists, play lists, audio sources, folders, etc.). The interface can be developed to support the specific data types but can also be flexible and generic to allow new types of data to be accessed without requiring a software update on the client.

The following figure is a high-level view of the LBP. In the figure a device is shown which contains multiple list severs each dedicated to specific functional area. Other implementation may have one list server dedicated to several functional areas.

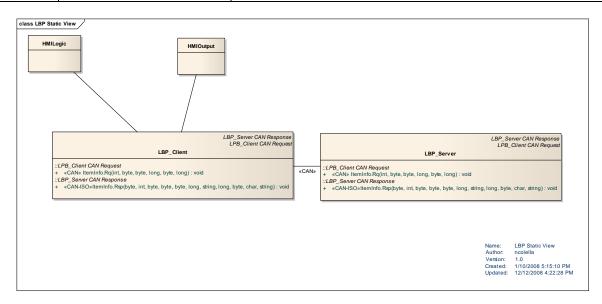


This primary section serves to define the underlining strategy of the list browser protocol. The actual usage of the strategy will be defined in other Functional Area Specifications (FAS) with references back to this primary section. The following subsections shall provide further descriptions of the list data structure, hierarchy within list and sub-lists, and navigating through lists.

1.1 LBP-SV-REQ-019803/A-Static View (TcSE ROIN-40393-1)

The following is a logical view of the list browser protocol architecture.





1.2 LBP-CLD-REQ-019804/A-List Browser Client (TcSE ROIN-159174-1)

The List Brower Client is responsible for addressing list servers and requesting/activating items. The client also is responsible for the HMI output of the information received from the server.

1.3 LBP-CLD-REQ-019805/A-List Browser Server (TcSE ROIN-159175-1)

The List Brower Server is responsible for navigating the lists, keeping track of the active list and the providing information back to the client.

1.4 List Data Structure

The List Data Structure is an information interface which allows a server to present its features and other types of information to clients in a standardized form. By using this protocol and the data structures defined, servers can utilize a standard interface for sharing information with clients.

1.4.1 LBP-SR-REQ-019800/A-List Data Structure (TcSE ROIN-177591-1)

The list data structure is realized as a container for sub-lists and list entries. Each list data structure shall contain the following attributes for each item (list or entry) in a list:

Item	Data	Activation Event	Object	Object	Item
Index	Type		Type	State	Descriptor
0x0001	0x00-	Supported/Not	Entry/List	Active/In-	{Descriptor
	0xFF	Supported		Active	Tag}
		• •			
0xFFFF					

The actual implementation of the storage of the list data structures is left to the device implementer but the method for exchange of information is defined herein.

1.4.2 LBP-SR-REQ-019780/A-Item Index Attribute (TcSE ROIN-40421-1)

The item index is used to denote the position of the item within the list that was specified by the ActiveListID field. Entries shall be numbered so that the first item in a list begins with index number 0x0001, the second position is 0x0002, and so on. The largest addressable item in an ActiveListID is 0xFFFE (65534). 0xFFFF is reserved.



1.4.3 LBP-SR-REQ-019799/A-Object Type Attribute (TcSE ROIN-173633-1)

The Object Type attribute within the list data structure is used to indicate if the object is a "List" object or an "Entry" object. "List" objects are lists that can be navigated via the GetItemInfo.Rq() method or selected for activation via the SetItemInfo.Rq() method. "Entry" objects can only be selected for activation via the SetItemInfo.Rq() method.

1.4.4 LBP-SR-REQ-019801/A-Object State Attribute (TcSE ROIN-177707-1)

The Object State attribute within the list data structure shall be used to indicate if the object is currently activated/in use on the server. This attribute typically pertains to "Entry" objects but may be used by "List" objects.

For example, an entry within a list of song tracks represents a track that is actively playing on the server. When the browsing client requests the list of tracks from the server the server will indicate, via the Object State attribute, that this item is currently active within the list. The client may then provide an indication to the user that this entry is currently active on this server.

1.4.5 LBP-SR-REQ-019781/A-Data Type Attribute (TcSE ROIN-40318-2)

The Data Type attribute within the list data structure is used to denote the information stored in the Item Descriptor attribute for each item. The Data Type attribute shall be used to indicate the type of information the item represents. For example, if the data type is "Album" then the client knows that this item represents the name of an album.

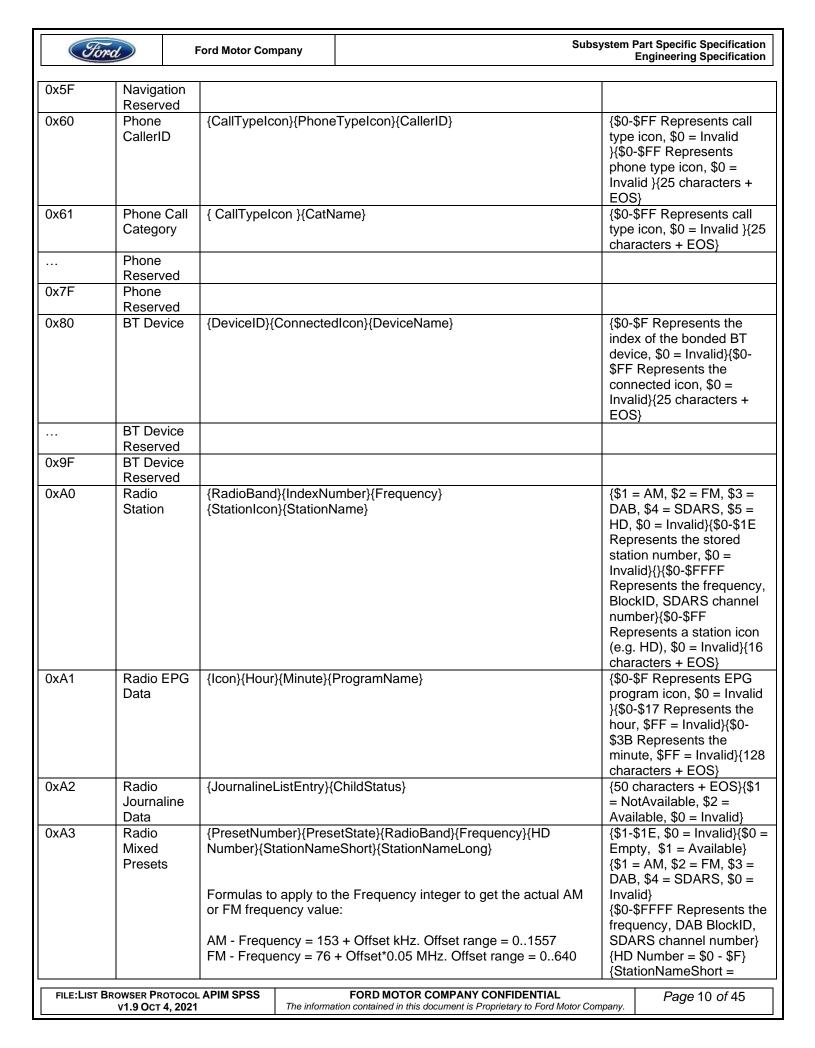
1.4.6 <u>LBPv2-SR-REQ-128955/I-Item Descriptor Attribute</u>

Each item shall also possess the Item Descriptor attribute which can also be used by the client for HMI purposes. The Item Descriptor is typically a large text string which contains a concatenated set of text fields. Each of these fields can be parsed by the client and used for HMI purposes.

The following table defines the link between Data Type Attribute and the Item Descriptor Attribute:

Encoding	Data Type	Item Descriptor	Descriptor Length
0x00	General Reserved		
0x01	General Reserved		
0x02	Generic Text	{Generic Text}	25 characters + EOS
	General Reserved		
0x1F	General Reserved		
0x20	Media Type	{SourceIcon}{MediaSourceName}	{\$0-\$FF represents Source icon, \$0 = Invalid }{25 characters + EOS}
0x21	Metadata Category	{CatIcon}{CatName}	{\$0-\$FF represents Category icon, \$0 = Invalid}{25 characters + EOS}
	Media Reserved		
0x3F	Media Reserved		
0x40	Navigation POI	{Direction}{Distance}{POIName}	{\$0-\$FF Represents direction icon, \$0 = Invalid }{8 characters + EOS}{25 characters + EOS} Info: POI name could also be a destination name.
	Navigation Reserved		

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0xA4 0xA5	Radio Source Radio Mixed Station	{Sourcelcon}{RadioSourcelcon}{StationNCode}{SCID}{SID}{EC	NameLong}{StationNameShort}{PI-	9 characters max + EOS, RDS Markets: PSName = 8 characters max, No PSName = xxx.yyMHz, Non RDS Markets: AM = xxxx kHz, FM = xxx.y MHz, AM HD = AM, FM HD1 = FM, FM HD2+ = xxx.y HDz, SDARS: Shortname = 8 characters max, DAB: ServiceName = 8 characters DAB No Station Name = Blockxxx to APIM and Block xxx to the IPC or MFD} {StationNameLong = DAB: ServiceName = 16 character long name max plus EOS AMFM and SDARS = EOS} {\$0-\$FF represents Source icon, \$0 = Invalid }{25 characters + EOS} {\$0-\$FF represents Source icon, \$0 = Invalid}{StationNameLong = DAB: ServiceName = 16 character long name max plus EOS; AMFM and SDARS = EOS}{StationNameShort = 9 characters max + EOS, RDS Markets: PSName = 8 characters max}{\$0-\$FFFF represents the PI-Code, \$0 = Invalid}{\$0-\$FFFF represents the SCID, \$0 = Invalid}{\$0-\$FFFF represents the SID, \$0 = Inva

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OxA6	Radio Preset Data L		HD Number}{PlCode}{SC	oBand}{StoredFrequency}{LastFrequency}{ cID}{SID}{ServiceLinkInfo}{ServiceLinkTimeLong}{StationNameShort}	{\$1-\$1E, \$0 = Invalid} {\$1 = AM, \$2 = FM, \$3 = DAB, \$4 = SDARS/Other, \$0 = Invalid} {\$0-\$FFFF Represents the stored frequency, DAB BlockID, SDARS channel number}{\$0-\$FFFF Represents the last frequency, DAB BlockID, SDARS channel number} {HD Number = \$0 - \$F}{\$0-\$FFFF represents the PI-Code, \$0 = Invalid}{\$0-\$FFFF represents the SCID, \$0 = Invalid}{\$0-\$FFFF represents the SID, \$0 = Invalid}{\$0-\$FFFF represents Service Link(DAB = SID, FM = PICode) \$0 = Invalid}{\$0-\$FFFF represents Service LinkTimeDelay) \$0 = 00.00seconds-\$03E9 = 10.00seconds}{StationNa meLong = DAB: ServiceName = 16 character long name max plus EOS; AMFM and SDARS = EOS}{StationNameShort = 9 characters max + EOS, RDS Markets: PSName = 8 characters max}	
0xA7	Radio Mixed Station		Code}{SCID}{SID}{EC	3 + Offset kHz. Offset range = 01557 + Offset*0.05 MHz. Offset range = 0640	{\$0-\$FF represents Source icon, \$0 = Invalid}{StationNameLong = DAB: ServiceName = 16 character long name max plus EOS; AMFM and SDARS = EOS}{StationNameShort = 9 characters max + EOS, RDS Markets: PSName = 8 characters max}{\$0-\$FFFF represents the PI-Code, \$0 = Invalid}{\$0-\$FFFF represents the SCID, \$0 = Invalid}{\$0-\$FFFF represents the SID, \$0 = Invalid}{\$0-\$FFFF represents the SID, \$0 = Invalid}{\$0-\$FFFF represents the SID, \$0 = Invalid}{\$0-\$FFFF represents the SID, \$0 = Invalid}{\$0-\$FFFFF represents the SID, \$0 = Invalid}{\$0-\$FFFFF FROM SID, \$0 = Invalid}{\$0-\$FFFFFFF FROM SID, \$0 = Invalid}{\$0-\$FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	
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			Represents the frequency, DAB BlockID, SDARS channel number}{HD Number = \$0 - \$F}
	Radio Reserve	ed	Trumber = \$\psi \cdot \psi \qu
0xAF	Radio Station Reserve		

Note: A list server can contain multiple data types.

1.4.7 <u>LBPv2-SR-REQ-205695/A-Activation Event Attribute</u>

The Activation Event attribute is used to indicate whether an item can be selected or not via the SetItemInfo.Rq() method. Entry Objects that do not support an Activation Event should be indicated as not selectable via the HMI (e.g. empty preset etc.). List Objects may or may not support an Activation Event depending on the server's usage of the object. If a List Object supports an Activation Event it can be selected via SetItemInfo.Rq() method or entered via the GetItemInfo.Rq() method.

1.5 List Hierarchy

This protocol assembles lists, sub-lists, and entry data structures into a hierarchy which is useful when representing information that can be categorized in a hierarchal manner.

1.5.1 Root List

At the highest level exists the "Root List" and at the minimum the Root List must exist on the server. The contents of the root list are specific to each device. Root Lists can contain sub-lists and root entries.

1.5.2 Parent-Child Lists and List Entries

At the next level exist sub-lists and list entries. List and sub-lists can better be defined as having a parent-child relationship. Therefore, the next levels in the hierarchy can be defined as the Parent lists followed by Child lists. Parent lists can contain child lists and parent entries. Child Lists contain child entries and also sub-lists (i.e. become parents and spawn further child lists).

List Entries exist at the bottom of the hierarchy and are the lowest selectable element which can be traversed in a list (i.e. an entry can not be navigated any further).

The following diagram illustrates the general relationship between the kinds of lists and how they form a hierarchy.

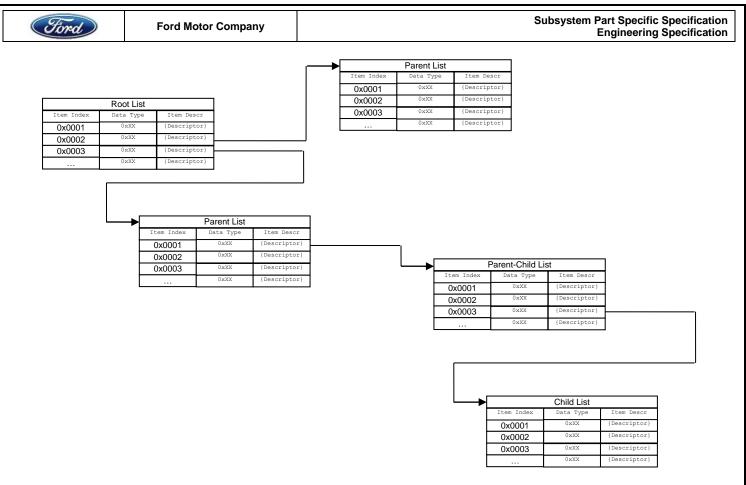


Figure 1 - Lists-Entry Hierarchy

1.5.3 LBP-SR-REQ-019782/A-List Identifier (TcSE ROIN-40422-2)

A unique list ID, which is assigned by the list server, identifies each list within the list server. The list ID shall be constant during the life of the list.

1.5.4 <u>LBP-SR-REQ-019788/A-Root Index (TcSE ROIN-40430-1)</u>

Each list server shall have a Root List associated to List_ID 0x0000. The Root List shall always be accessible from any point in a list.

1.5.5 LBPv2-SR-REQ-128954/F-Avaliable List Servers

The following are the available addressable list servers:

	List Server ID	Name	Comment	
	0x01	Navigation Info	Used for browsing Nav POIs,	
			previous dest, etc.	
	0x02	Generic Media 1	Used for browsing media data (e.g.	
			Artist names, titles, etc.)	
	0x03	Phone Info	Used for browsing phone book, cal	ļ
			lists, etc.	
	0x04	Generic List 1	Contains only items with Data Type	es
			0,1,2.	
	0x05	Radio 1	Used for browsing radio data (e.g.	
			Preset lists for AM/FM/DAB/SDARS	5,
			etc.) started from cluster.	
	0x06	Remote CD1	Used for browsing media data (e.g.	i
		Artist names, titles, etc.)		
	0x07	Radio Data Service1	Used to transmit DAB data service	
			Basic EPG.	
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0x08	Radio Data Service2	Used to transmit DAB data service Journaline.
0x09	Radio Data Service3	Used to transmit DAB data service Advanced EPG.
0x0A	Radio 2	Used for browsing radio Source information (e.g. AM,FM,SAT,DAB,CD.) started from Rear Display.
0x0B	Considerate Prompt 1	Static List used to transmit POI list related to Considerate Prompts
0x0C	Radio Data Service4	Used to transmit a mixed station list to the client.
0x0D	Radio Data Service5	Used to transmit the master preset data to the AMFM/DAB Server.
0x0E	Radio Data Service6	Used to transmit the AMFM/DAB preset data to the Master Preset Llst.
0x0D – 0xFF	Reserved	

1.6 Interface Requirements

1.6.1 LBPv2-IIR-REQ-130597/B-LBPClient_LBPServer

1.6.1.1 LBPv2-MD-REQ-130601/B-ItemInfo_Rq

Message Type: Request

This request signal is used to get or set list content from the list browse server.

Name	Literals	Value	Description
OpCode	-	-	Parameter OpCode is used to
			distinguish between requesting list
			data or select an executable item.
	Inactive	0x0	
	GetItemInfo_Rq	0x1	Value GetItemInfo_Rq is used to
			request list data from a list object.
	SetItemInfo_Rq	0x2	Value SetItemInfo_rq is used by
			the Client to activate a selected
			item index during browsing of the
			device. The value shall only be
			used on items which support an
			ActivationEvent. Parameter
			NbrOfltems and StartItemInd shall
			be set to 0x0 in this case.
	Reserved	0x3	

SetListServ	-	-	Parameter setListServ is used to
			address the requested list server.
	Inactive	0x00	
	ServerID_1	0x01	
		0x02	
	All	0xFF	Value All is used address all
			available list servers.

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•			
ActiveListID	Root	0x0000	Parameter ActiveListID contains the list ID from which the items are being selected. This information is provided by the server's response method.
	List ID1	0x0001	
		0x0002	
	List ID 65534	0xFFFE	
	Reserved	0xFFFF	
	TCSCIVCG	OXITIT	
ItemIndex	-	-	Parameter ItemIndex contains the selected item Index for the requested list.
	BrowseActiveListID	0x0000	Value BrowseActiveListID is used if the client is only browsing up/down the entries of the active list. In this case this value shall be set to 0x0000 (BrowseActiveListID) which indicates to the server to provide the items requested for the active list.
	EntryIndex_1	0x0001	
	ParentOfActiveListID	0xFFFF	Value ParentOfActiveListID is used if the client needs to retrieve the parent list of the active list. In this case this value shall be set to 0xFFFF (ParentOfActiveListID). This is an indication to the server to navigate to the parent list of the active list and provide that data as requested.
NbrOfItems			Parameter NbrOfItems is used to indicate how many items to provide in the response message.
	Inactive	0x0	
	1 item	0x1	
	63 items	0x3F	
StartItemInd	In a chius	0,2002	Parameter StartItemInd is used to adreess the index value of where to start the request in the response message
	Inactive	0x0000	
	1	0x0001	



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65534	0xFFFE	
Reserved	0xFFFF	

1.6.2 LBPv2-IIR-REQ-130599/A-LBPServer_LBPClient

1.6.2.1 LBPv2-MD-REQ-130602/B-ItemInfo_Rsp

Message Type: Response

This response signal is used to transmit the requested list content to the list browse client.

Name	Literals	Value	Description
RspListServ	-	-	Parameter RspListServ is used to
			indicate which list server is
			providing the response.
	Inactive	0x00	
	ServerID_1	0x01	
	Reserved	0xFF	
OpCodeRsp	-	-	Parameter OpCodeRsp is used to
			return the value of the OpCode
			associated with the data in the
			response message.
	Inactive	0x00	
	GetItemInfoRsp	0x01	
	SetItemInfoRsp	0x02	
	<u>.</u>		·
ActiveListID	-	-	Parameter ActiveListID shall
			contain the current list ID from
			which the items are being selected.
	Root	0x0000	
	List ID1	0x0001	
		0x0002	
	List ID 65534	0xFFFE	
ParentListID	-	-	The parameter ListID shall contain
			the parent list ID of the current
			ActiveListID.
	Root	0x0000	
	List ID1	0x0001	
		0x0002	
	List ID 65534	0xFFFE	
	Reserved	0xFFFF	
	<u>.</u>		
NbrOfItemsRtn	-	-	Parameter NbrOfItemsRtn is used
			to indicate how many items
			provided in the response message
	0	0x0000	

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	1	0x0001	
	30	0x1E	
	T	1	
NbrItemsInSelection			Parameter NbrItemsInSelection is
			used to indicate the total number of all items in the active list id.
	0	0x0000	all items in the active list id.
	1	0x0000	
	<u>'</u>	0,0001	
	65535	0xFFFF	
	00000	OXITTI	
stringItemContent (Array(1 NbrOfItemsRtn) of record (ItemIndex, DataType, ActivationEvent, ObjectType, ObjectState, ItemDescriptor)			
ItemIndex	List Title	0x0000	Parameter ItenIndex is used to
Remindex	List Title	00000	associate an index to each list
			item.
	1	0x0001	100.00
	65535	0xFFFF	
		I	
DataType	Reserved	0x00	
	DataTypeID_1	0x01	
	Reserved	0xFF	
	1	1	
ActivationEvent			Parameter ActivationEvent is used to indicate if a list entry is able to be activated or not.
	Not Supported	0x0	
	Supported	0x1	
	•	•	
ObjectType			Parameter ObjectType is used to indicate if the returned list entry is a List or Entry Object. List objects can contain additional data, entry objects can be executed.
	List Label	0x0	
	Entry Object	0x1	
	List Object	0x2	
ObjectState			The parameter ObjectState is used to indicate if the returned list entry is the active on the server or not.
	Inactive	0x0	
	Active	0x1	



Subsystem Part Specific Specification Engineering Specification

ItemDescriptor		The parameter Item Descriptor is typically a large text string which contains a concatenated set of text fields. Each of these fields can be parsed by the client and used for
		HMI purposes.
	{Descriptor Tag}	



Example ItemContent:

Item Index	Data Type	ActivationEvent	ObjectType	Item Descriptor
0x0000	0x02	No	List Label	{Generic Text}
0x0001	0x00-0xFE	Yes/No		{Descriptor
				Tag}
		• •	• •	
0xFFFE		• •		

1.6.2.1.1 TP-LOG-TPL-REQ-023169/C-SID-76-LBP1_ItemInfo_Rsp (TcSE ROIN-159709-6)

Data size: up to Variable (Coding Table I/Coding Table II) bytes

Byte 0: Signal identifier

0x76: LBP1_ItemInfo_Rsp

Byte 1: Utilization

0x01 Radio_Service1 - Radio General (AM, FM, AST, DAB, SDARS)

0x02 Radio_Service2 - SDARS 0x03 Radio_Service3 - DAB

0x11 MP_Media1 - CD

0x12 MP_Media2 – BT Audio Streaming

0x13 MP_Media3 - USB 0x14 MP_Media4 - iPod

0x17 MP_Media7 — Generic Metadata

0x22 Nav_Service2 – Navigation

0x31 MobileCom_Service1 - Mobile Phone

0x74: DataService4 – List Browser Data

Byte 2: Command Execution Status

0x0y: Final Result – Success 0x1y: Final Result – Fail

0x2y: Final Result – Information

0x3y: Intermediate Result— Wait

Byte 3: Character Coding

Bit 0-5: Reserved

Bit 6-7: Coding

0x0: Coding Table I

0x0000-0xFFFF UNICODE UTF-16 (2 byte per char)

0x1: Coding Table II

0x00-0xFF Latin-9 (1 byte per char)

Byte 4: OpCodeRsp:

Bit 0-5: reserved

Bit 6 - 7: OpCodeRsp

0x0: Inactive

0x1: GetItemInfoRsp 0x2: SetItemInfoRsp

0x3: Reserved

Byte 5: RspListServ:

0x00: Inactive 0x01: ServerID_1

...

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0xFF: Reserved

Byte 6-7: ActiveListID

0x0000: Root 0x0001: ListID_1 0x0002: ListID_2

0xFFFE:

0xFFFF: Reserved

Byte 8-9: ParentListID

0x0000: Root 0x0001: ListID_1 0x0002: ListID_2

0xFFFE:

0xFFFF: Reserved

Byte 10: NbrOfltemsRtn

0x00: Reserved 0x01: 1 0x02: 2

0xFE: 254 0xFF: Reserved

Byte 11-12: NbrOfltemsInSelection

0x0000: Reserved 0x0001: 0x0002:

0xFFFE: 0xFFFF:

Byte 13 up to Variable (Coding Table I/Coding Table II): Channel Info

Array(1...NumberOfItemsRtn) of record (ItemIndex, DataType, ObjectType, ObjectState, ActivationEvent, ItemDescriptor)

```
Record definition (up to Variable (Coding Table I/Coding Table II) bytes):
```

Byte 0-1: ItemIndex 0x0000: List Label 0x0001 ... 0xFFFF

Byte 2: DataType 0x00

0x01

0xFF

Byte 3:

Bit 0 - 1: Reserved
Bit 2 - 3: ObjectType
0x0: List Label
0x1: Entry List
0x2: ListEntry
Bit 4 - 5: ObjectState

0x0: Inactive 0x1: Active



Bit 6 - 7: ActivationEvent
0x0: Not Supported
0x1: Supported

Byte 4 up to Byte Variable: ItemDescriptor
{Descriptor Tag} – Refer to descriptor table and DataType.

1.6.2.2 LBPv2-MD-REQ-130389/C-ListServerUpdate_Ind

Message Type: Indication

This indication method is used to indicate a server list update to the client. This indication can be used to start fetching the updated list content. This method shall not be used during initial server list build up.

Name	Literals	Value	Description
ListServer	-	-	Parameter ListServer is used to
			address the list server which is/was
			updated.
	Inactive	0x00	
	ServerID_1	0x01	
		0x02	
	All	0xFF	Value All is used to address all
			available list servers.
ListID	-	-	The parameter ListID is used to
			indicate which server list is getting
			updated.
	Root	0x0	Root List is getting updated
	ListID1	0x0001	ListID1 is getting updated
	ListID2	0x0002	ListID2 is getting updated
	List ID65534	0xFFFE	ListID65534 is getting updated
	All Lists	0xFFFF	Value All Lists is used to indicate
			that all Lists within a server have
			been changed.
ParentID	-	-	The parameter ParentID is used to
			indicate the parent list which
			contains the updating ListID.
	Root	0x0	Root List is ParentID
	ListID1	0x0001	ListID1 is ParentID
	ListID2	0x0002	ListID2 is ParentID
	List ID65534	0xFFFE	ListID65534 is ParentID
	Reserved	0xFFFF	
Costo de el es	1		The personal of Fater de describe
EntryIndex	-	-	The parameter EntryIndex shall be
			used to indicate which list entry
			from the ParentID is getting
			updated. This could be used to
			indicate this update via HMI output
			(e.g. grey out list entry etc.)



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NoDataExists	0x0000	NoDataExisis shall be set if the root list is getting updated.
EntryIndex1	0x0001	Entry 1 from parent list is getting updated.
EntryIndex2	0x0002	Entry 2 from parent list is getting updated.

. . .

	EntryIndex65534	0xFFFE	Entry 65534 from parent list is getting updated.
	Reserved	0xFFFF	
ListStatus	-	-	The parameter is used to transmit the different states of the server list.
	Inactive	0x0	
	Valid	0x1	Valid is set if the list is updated and ready.
	Updating	0x2	Updating is set if the list is getting updated with new data.
	Reserved	0x3	

1.7 Navigating Devices and List Servers

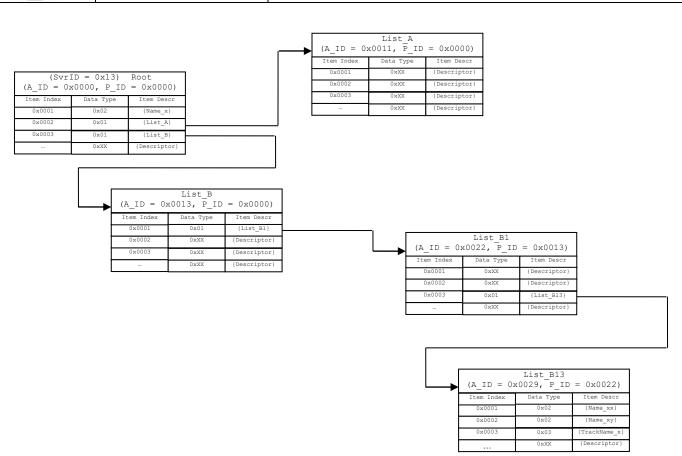
The process of an HMI client browsing the information available on a particular device begins with the client first accessing a particular list server present on the device. Once an HMI client has accessed a particular list server, the client can scroll up and down through items in the list and then request an entry in the list. The client can also move forward and backward between lists and sub-lists by requesting the particular (parent or child) list from the list server.

Several methods are provided for navigating the hierarchy and retrieval of information, GetItemInfo.Request(), SetItemInfo.Request(), and GeItemtInfo.Response(). The client utilizes the GetItemInfo.Request() methods for requesting item information and utilizes the SetItemInfo.Request for item activation. The server utilizes the GetItemInfo.Response() method for responding to information requests. The details of these methods are defined in the Interface Requirements portion of this section.

1.7.1 LBP-SR-REQ-019786/A-Requesting List Contents (TcSE ROIN-40428-1)

The browsing client shall utilize the GetItemInfo.Rq() method for managing the retrieval of data from a particular list server. To browse through a device via the HMI, the client must address a particular list server. For example, to view the contents of a USB device, the client shall target the USB list server and based on the list data structures (retrieved earlier) stored on this server the HMI can then browse through parent-child lists (e.g. artists, albums, etc.).

To support an example, imagine a server contains the following items:



Where A ID is the ActiveListID and P ID is the ParentListID of the ActiveList. If the client is in the root list and wishes to request the contents of item 3 (List B) within the root list, then the request parameters would be set to the following, ActiveListID = 0x0000 (root is being browsed), ItemIndex = 0x0003 (item selected), NumberOfItems = 0x05 (number of entries requested), StartItemInd = 0x0001 (starting index of entries to return).

The response back from the server would be A ID = 0x0013, P ID = 0x0000 with the data structure depicted for List B in the figure above.

If the client now wishes to select item 1 (List B1) within the active sub-list, then the request parameters would be set to the following, ActiveListID = 0x0013 (active list), ItemIndex = 0x0001 (item selected), NumberOfItems = 0x05 (number of entries requested), StartItemInd = 0x0001 (starting index of entries to return)...

The response back from the server would be A ID = 0x0022, P ID = 0x0013 with the data structure depicted for List B1 in the figure above.

LBP-SR-REQ-019790/A-Selecting List Entry (TcSE ROIN-40732-2)

The browsing client shall utilize the SetItemInfo.Rg() method for activation of a particular item within the ActiveListID. This method can only be used by items which support ActivationEvents.

To support the example described previously: If the active list is reported A_ID = 0x0022, P_ID = 0x0013 with the data structure depicted for List B1 in the figure above. If the client now wishes to select and activate item 3, assuming the Activation Event is supported for this item, within the active sub-list, then the settings for the SetItemInfo.Rg() method would be as follows: ActiveListID = 0x0022 (active list), ItemIndex = 0x0003 (item selected).

1.7.3 LBP-SR-REQ-019791/A-Tracking (TcSE ROIN-41670-1)

The server shall be responsible for tracking the navigation between the lists.



1.7.4 LBP-SR-REQ-019784/A-SetItem - Audio Resource Request (TcSE ROIN-40314-1)

If a SetItemInfo.Rq() requires a change to the audio resources, the server shall be responsible for issuing the request for connection of the respective audio resource.

1.7.5 <u>LBP-SR-REQ-019785/A-Label of List (TcSE ROIN-40317-2)</u>

Each list within a list server shall have an associated textual label/title. The server shall provide the label of each list to the client.

Within GetItemInfo.Rsp(), the ItemIndex equal to 0x0000 shall be used to contain the label of the active list. The Data Type for the label shall be set equal to 0x02 (Generic text). The ActivationEvent shall be set to "No" for labels. The Object Type shall be set to 0x00 (List Label).

The label shall be provided when the StartItemIndex of GetItemInfo.Rq() is equal to 0x0001.

The label shall not be counted as a member of NbrltemsInSelection.

The label <u>shall</u> be counted as a member of NbrOfltemsRtn by both the client and the server. Therefore, when the client requests information starting at index 0x0001and would like five items of information returned, the client must request NbrOfltems equal to six. Likewise the server will respond back with NbrOfltemsRtn equal to six. With a starting index greater then 0x0001 with five items requested, the client would request NbrOfltems equal to five with the server responding back with NbrOfltemsRtn equal to five.

1.7.6 LBP-SR-REQ-019795/A-Client requests invalid parent-child list (TcSE ROIN-31400-1)

If the client requests a parent-child that is either out of range or does not exist, the server shall respond back with CES = 0x14 (Final Result – Failure, requested index out of range).

1.7.7 LBP-SR-REQ-019796/A-Client selects invalid entry (TcSE ROIN-31407-1)

If the client selects invalid entry that is either out of range or does not exist, the server shall respond back with CES = 0x14 (Final Result – Failure, requested index out of range).

1.7.8 LBP-SR-REQ-019797/A-Client selects invalid parent-child list (TcSE ROIN-31414-1)

If the client selects a parent-child that is either out of range or does not exist, the server shall respond back with CES = 0x14 (Final Result – Failure, requested index out of range).

1.7.9 LBP-SR-REQ-019798/A-SetItem - Server Response (TcSE ROIN-160332-1)

Upon reception of a valid SetItemInfo.Rq(), the server shall provide a response with CES = 0x01 (Final Result – Success). All fields after the CES field will not be transmitted.

1.7.10 LBP-SR-REQ-129269/A-Data Prefetch

While the List Browse Client is in prefetch state then the List Browse Server shall ignore the activation event attribute if the client requests for list objects which have an activation event supported. This is required to avoid e.g. activation of a radio band when requesting its list content.

1.7.11 LBP-SR-REQ-250149/A-Static List Usage

A static list is defined as a list that cannot change the order of the original structure. Once created the Client can directly request for one of the items in the list knowing that the items will always be the in the same location..

The static list can have new items added into new ItemIndex locations and once added cannot be removed.

Example: A static root list contains 3 possible selections. The Client sends a GetItemInfo_Rq for ItemIndex 3 of the root list without having to ask for the root list first. The Server will respond with the list for ItemIndex 3.



2 Functional Definition

2.1 LBP-FUN-REQ-019707/A-Request Root List (TcSE ROIN-293807-1)

2.1.1 Use Cases

2.1.1.1 LBP-UC-REQ-019708/A-Request Root List (TcSE ROIN-292216-1)

Actors	System
Pre-conditions	Infotainment Network is active.
Scenario	Client requests Root List from server.
Description	
Post-conditions	Root List is retrieved from server.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI, Vehicle System Interface

2.1.2 White Box View

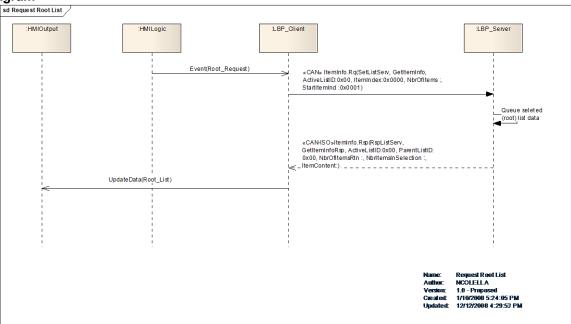
2.1.2.1 White Box Scenarios

2.1.2.1.1 LBP-SD-REQ-019709/A-Request Root List from List Server (TcSE ROIN-39796-1)

Linked Elements

LBP-UC-REQ-019762/A-Request Root List (TcSE ROIN-30390-1)

Sequence Diagram



2.2 LBP-FUN-REQ-019710/A-Browse a parent List from Root List (TcSE ROIN-293810-1)



2.2.1 Use Cases

2.2.1.1 LBP-UC-REQ-019711/A-Browse a Parent List from the Root List (TcSE ROIN-292217-1)

Actors	System
Pre-conditions	Infotainment Network is active.
	The root list has been obtained from the server.
	Root list contains parent lists.
Scenario	The client requests a parent list within the root list for browsing.
Description	
	For example, the root list contains several folders and the user selects a folder to browse/read its contents.
Post-conditions	Server responds with requested parent list structure.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI, Vehicle System Interface

2.2.2 White Box View

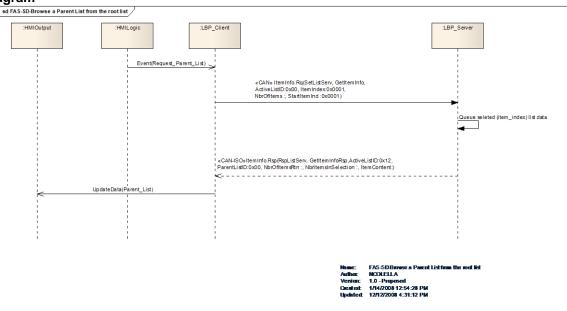
2.2.2.1 White Box Scenarios

2.2.2.1.1 LBP-SD-REQ-019712/A-Browse a Parent List from the root list (TcSE ROIN-39798-1)

Linked Elements

LBP-UC-REQ-019764/A-Browse a Parent List from the Root List (TcSE ROIN-30397-1)

Sequence Diagram



2.3 LBP-FUN-REQ-019713/A-Selecting an Entry from Root List (TcSE ROIN-293813-1)

2.3.1 Use Cases

2.3.1.1 LBP-UC-REQ-019714/A-Selecting an Entry from the Root List (TcSE ROIN-292218-1)

Actors	System
Pre-conditions	Infotainment Network is active.

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	The root list has been obtained from the server.
	The root list contains selectable entries.
Scenario	The client selects an entry from the root list.
Description	
Post-conditions	Server responds with activation of the selected entry.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI, Vehicle System Interface

2.3.2 White Box View

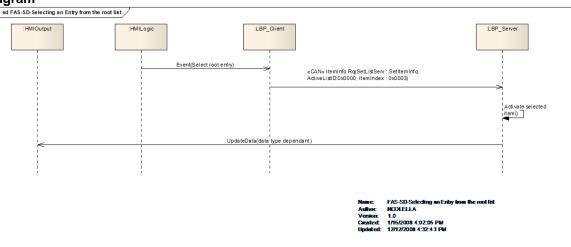
2.3.2.1 White Box Scenarios

2.3.2.1.1 LBP-SD-REQ-019715/A-Selecting an Entry from the root list (TcSE ROIN-39799-1)

Linked Elements

LBP-UC-REQ-019766/A-Selecting a Entry from the Root List (TcSE ROIN-30421-1)

Sequence Diagram



2.4 LBP-FUN-REQ-019716/A-Browsing Child List from Parent List (TcSE ROIN-293816-1)

2.4.1 Use Cases

2.4.1.1 LBP-UC-REQ-019717/A-Browsing a Child List from a Parent List (TcSE ROIN-292219-1)

Actors	System
Pre-conditions	Infotainment Network is active.
	The client is browsing a parent list which contains child lists.
Scenario	The client requests a child list from within a parent list.
Description	
	For example, the user is browsing Folder_A (parent) which contains several folders
	(children). The user selects one of the child folders for browsing.
Post-conditions	The server responds with contents of selected child list.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI, Vehicle System Interface



2.4.2 White Box View

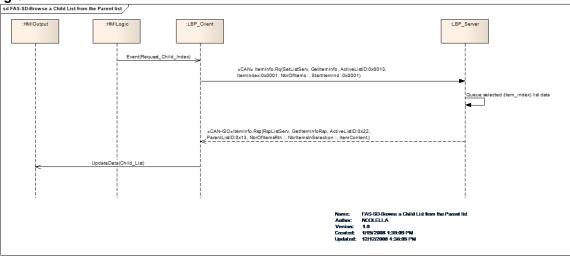
2.4.2.1 White Box Scenarios

2.4.2.1.1 LBP-SD-REQ-019718/A-Browse a Child List from the Parent list (TcSE ROIN-39800-1)

Linked Elements

LBP-UC-REQ-019768/A-Browsing a Child List from a Parent List (TcSE ROIN-30427-1)

Sequence Diagram



2.5 LBP-FUN-REQ-019719/A-Selecting and Entry from a parent/Child List (TcSE ROIN-293819-1)

2.5.1 Use Cases

2.5.1.1 LBP-UC-REQ-019720/A-Selecting an Entry from a Parent-Child List (TcSE ROIN-292220-1)

Actors	System
Pre-conditions	Infotainment Network is active.
	The parent-child list contains selectable entries.
Scenario	The client selects an entry from the parent-child list.
Description	
Post-conditions	Server responds with activation of the selected entry.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI, Vehicle System Interface

2.5.2 White Box View

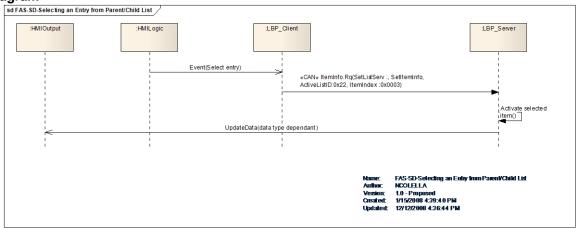
2.5.2.1 White Box Scenarios

2.5.2.1.1 LBP-SD-REQ-019721/A-Selecting an Entry from Parent/Child List (TcSE ROIN-39801-1)

Linked Elements

LBP-UC-REQ-019770/A-Selecting an Entry from a Parent-Child List (TcSE ROIN-30439-1)





2.6 LBP-FUN-REQ-019722/A-Traversing up the Hierarchy from child to parent list (TcSE ROIN-293822-1)

2.6.1 Use Cases

2.6.1.1 LBP-UC-REQ-019723/A-Traversing up the Hierarchy from Child to Parent (TcSE ROIN-292221-1)

Actors	System
Pre-conditions	Infotainment Network is active.
	Client currently browsing a Child List.
Scenario	The client requests the parent list of the current child list. For example, the user is
Description	browsing Folder_B which is a child of Folder_A and wishes to view the content list
	of Folder_A.
Post-conditions	Server responds back with the Parent List of the current Child List.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI, Vehicle System Interface

2.6.2 White Box View

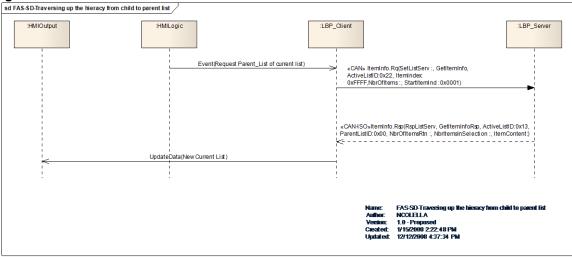
2.6.2.1 White Box Scenarios

2.6.2.1.1 LBP-SD-REQ-019724/A-Traversing up the hieracy from child to parent list (TcSE ROIN-39802-1)

Linked Elements

LBP-UC-REQ-019772/A-Traversing up the hierarchy from Child to Parent (TcSE ROIN-30445-1)





2.7 LBP-FUN-REQ-019725/A-Traversing up the Hierarchy from Parent to Root (TcSE ROIN-293825-1)

2.7.1 Use Cases

2.7.1.1 LBP-UC-REQ-019726/A-Traversing up the Hierarchy from Parent to Root (TcSE ROIN-292222-1)

Actors	System
Pre-conditions	Infotainment Network is active.
	Client currently browsing a Parent List.
Scenario	The client requests the root list of the current parent list. For example, the user is
Description	browsing Folder_A which is a Parent in the Root List and wishes to view the content
	list of the Root list.
Post-conditions	Server responds back with the Root List of the current Parent list.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI, Vehicle System Interface

2.7.2 White Box View

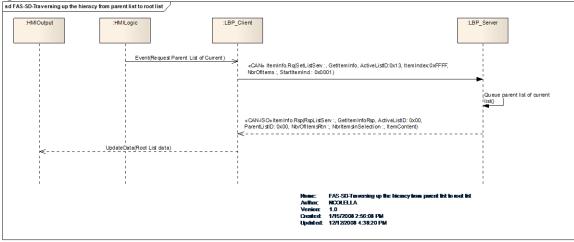
2.7.2.1 White Box Scenarios

2.7.2.1.1 LBP-SD-REQ-019727/A-Traversing up the hieracy from parent list to root list (TcSE ROIN-39810-1)

Linked Elements

LBP-UC-REQ-019774/A-Traversing up the hierarchy from Parent to Root (TcSE ROIN-30451-1)





2.8 LBP-FUN-REQ-019728/A-Browsing down a list (TcSE ROIN-293828-1)

2.8.1 Use Cases

2.8.1.1 LBP-UC-REQ-019729/A-Browsing down a List (TcSE ROIN-292223-1)

Actors	System
Pre-conditions	Infotainment Network is active.
	Client is currently browsing a list.
Scenario	The client is browsing a list and requests the next index of entries.
Description	
Post-conditions	Server responds back with requested index of entries.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI, Vehicle System Interface

2.8.2 White Box View

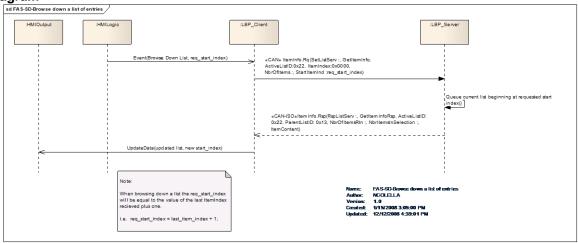
2.8.2.1 White Box Scenarios

2.8.2.1.1 LBP-SD-REQ-019730/A-Browse down a list of entries (TcSE ROIN-39811-1)

Linked Elements

LBP-UC-REQ-019776/A-Browsing down a list (TcSE ROIN-30463-1)





2.9 LBP-FUN-REQ-019731/A-Browsing up a list (TcSE ROIN-293831-1)

2.9.1 Use Cases

2.9.1.1 LBP-UC-REQ-019732/A-Browsing up a List (TcSE ROIN-292224-1)

Actors	System
Pre-conditions	Infotainment Network is active.
	Client is currently browsing a list.
Scenario	The client is browsing a list and requests the previous index of entries.
Description	
Post-conditions	Server responds back with requested index of entries.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI, Vehicle System Interface

2.9.2 White Box View

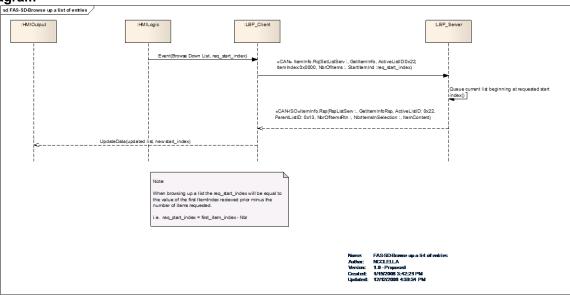
2.9.2.1 White Box Scenarios

2.9.2.1.1 LBP-SD-REQ-019733/A-Browse up a list of entries (TcSE ROIN-39812-1)

Linked Elements

LBP-UC-REQ-019778/A-Browsing up a list (TcSE ROIN-30469-1)





2.10 LBP-FUN-REQ-019734/E-List Browser Icon and Structured Data (TcSE ROIN-294540-2)

2.10.1 Requirements

2.10.1.1 LBP-FUR-REQ-019735/A-Translations (TcSE ROIN-294523-1)

All text strings must reference the MUI database for full language support and match the current system language as selected in the System Settings menu.

2.10.1.2 <u>LBP-FUR-REQ-019736/A-Get Item Request (TcSE ROIN-294524-2)</u>

If the List Browser Server receives a getitem request of 0xFFFF then return to the parent menu. Refer to SPSS Requirment LBP-GREQ-41673-1 for further clarification.

2.10.1.3 LBP-FUR-REQ-019737/A-Audio Source List (TcSE ROIN-294525-2)

The list of audio sources shall be as follows: USB (1, 2...n), BT Stereo (1, 2...n), {app name} (1, 2...n), SD Card (1, 2...n), AV In/Line In. Note: For the source order, reference the H22j specification.

2.10.1.4 LBP-FUR-REQ-019738/A-Source Name (TcSE ROIN-294526-2)

The {source name} shall be the name of the selected List Browser Server audio source.

2.10.1.5 <u>LBP-FUR-REQ-019739/A-Source Number (TcSE ROIN-294527-2)</u>

The {source #} shall be the number of the List Browser Server audio source; for example 2:USB would be the second USB source in the list.

2.10.1.6 LBP-FUR-REQ-019740/A-Non Indexing Source (TcSE ROIN-294528-2)

If the device is non indexing, The List Browser Server must return a one list item of {Play All}.

2.10.1.7 LBP-FUR-REQ-019741/B-Unavailable Source (TcSE ROIN-294529-2)

If the getitem is requesting an unavailable source, the List Browser Server shall return a Command Execution Status of 0x15 (Final Result-Failure, connected environment not reacting). Refer to requirement TP-GREQ-138094-2-CES.

Note: This requirement applies to sources internal to the responding Server ID (sources contained in the request Module). No response required for Server ID which is requested outside of the module.

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2.10.1.8 LBP-FUR-REQ-019742/A-Non Metadata Source Icon (TcSE ROIN-294530-2)

If NonMetadataSrc is Yes, then MetadataIcon_1 must still be populated with the corresponding icon from the Metadata Icons table. Only Bluetooth, A/V In/Line In and Non Indexing Source may be used if NonMetadataSrc is Yes. Refer to requirement TP-LOF-GTPC-160692-2-SID-79-MediaInformation_St.

2.10.1.9 LBP-FUR-REQ-019743/A-Object State (TcSE ROIN-294531-2)

When the List Browser Server is returning a list for Media sources, the Object State must be given. For example if the USB source is active and you are browsing the media source list, Object State must be Active. Refer to requirement LBP-GREQ-177707-Object State Attribute.

2.10.1.10 LBP-FUR-REQ-019744/A-Response Time (TcSE ROIN-294532-2)

The List Browser Server must respond to a List Browser Client request in <100ms with the fully populated list i.e. the user should never see the 'Please Wait' while navigating through the cluster menus. The Navigation POI list (Active List0x0005) is the only exception and must have a fully populated list in < 5 seconds.

2.10.1.11 LBP-FUR-REQ-019745/A-Applink Source Unavailable (TcSE ROIN-294533-2)

If the audio source is currently unavailable (i.e. USB device is not connected or Applink media is not detected) The List Browser Server must not send the source information to the cluster. The only source that must always be sent is A/V In/Line In.

2.10.1.12 LBP-FUR-REQ-019746/A-No Applink App Selected (TcSE ROIN-294534-2)

If Applink media is detected and no app has been selected, the List Browser Server must not send the source information to the cluster.

2.10.1.13 LBP-FUR-REQ-019747/A-Applink Metadata (TcSE ROIN-294535-2)

If Applink media is detected and an app is currently selected, the List Borowser Server must send the {mainField 1} and {mainField 2} metadata to the cluster in the MediaInformation St TP protocol.

2.10.1.14 <u>LBP-FUR-REQ-019748/A-Applink Metadata Icon (TcSE ROIN-294536-1)</u>

The Metadata Icon fields for all Mobile Apps must be set to 0x17 (No Icon).

2.10.1.15 LBP-FUR-REQ-019749/A-Total Play Time (TcSE ROIN-294537-1)

The TotalPlayTime in message 0x3F0 must be set to 0 for all Mobile Apps.

2.10.1.16 LBP-FUR-REQ-019750/A-Applink App Name (TcSE ROIN-294538-1)

If the Applink media is detected and an app is currently selected (i.e. Pandora), the Item Descriptor field must fill in with the currently selected application i.e. {0x07}{Pandora}.

2.10.1.17 LBP-FUR-REQ-019751/A-Non Indexing Source with Metadata (TcSE ROIN-294539-2)

If a Non Indexing source (i.e. Bluetooth) provides metadata, NonMetadataSrc must be set to No and artist/title info with corresponding metadata icons must be sent to the cluster. Refer to requirment TP-LOF-GTPC-160692-2-SID-79-MediaInformation St.

2.10.1.18 <u>LBP-REQ-019752/A-Metadata Icons (TcSE ROIN-301568-1)</u>

Icon Name	Icon ID	Metadatalcon_1/ Metadatalcon_2	NonMetadataSrc	Comments(Used For)
Invalid	0	0x00	No	
Song Title	1	0x01	No	Music Title, Rhapsody Channel Title
Music Artist	2	0x02	No	Music Artist, Rhapsody Channel Artist, Music Video Artist
Audiobook Title	3	0x03	No	Audio Book Title
Audiobook Author	4	0x04	No	Audio Book Artist
TV Episode	5	0x05	No	Audio Podcast Episode, TV Show Episode, Video Podcast Episode

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Ford	Ford M	otor Company		Subsystem Part Specific Specification Engineering Specification
		<u>.</u>		
Audio Podcast	6	0x06	No	Audio Podcast Name, Video Podcast Name
Name				
Movie Title	7	0x07	No	Movie Title
TV Title	8	0x08	No	TV Title
Music Video Title	9	0x09	No	Music Video Title
Non Indexing	10	0x0A	Yes	Non Indexing Source, only used in
Source				Metadatalcon_1
A/V In	11	0x0B	Yes	A/V In, only used in Metadatalcon_1
Bluetooth	12	0x0C	Yes	Non Indexing Bluetooth Audio Device, only
				used in Metadatalcon_1
Line In	13	0x0D	Yes	Line In, only used in Metadatalcon_1
Reserved	14-22	0x0E 0x16	No	Reserved for any additional sources or
				Metadata Icons.
Blank	23	0x17	No	No Icon

No

No

Unknown Icon

Reserved for future use.

2.10.1.19 <u>LBP-REQ-019753/B-Source Icons (TcSE ROIN-301569-1)</u>

0x18

0x19 ... 0xFF

24

25-255

Unknown

Reserved

Icon Name	Source Icon ID
Invalid	0x00
AM	0x01
CD	0x02
Sirius	0x03
Audio Video In	0x04
User device - USB	0x05
User device - phone	0x06
User device - media player	0x07
User device - SD Card	0x08
User device - WiFi	0x09
User Device- Bluetooth Audio	0x0A
Line In	0x0B
FM	0x0C
DAB	0x0D
Reserved	0x0E0xFD
Blank	0xFE
Unknown Source	0xFF

2.10.1.20 <u>LBP-REQ-019754/A-Phone Icons (TcSE ROIN-301570-1)</u>

Icon Name	Call/Phone Type Icon
Invalid	0x00
general (other) phone	0x01
home	0x02
mobile	0x03
office	0x04
incoming	0x05
outgoing	0x06
missed	0x07

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Reserved	0x080xFD
Blank	0xFE
Unknown	0xFF

2.10.1.21 <u>LBP-REQ-019755/A-Navigation Icons (TcSE ROIN-301571-1)</u>

Icon Name	Direction
Invalid	0x00
Crow's Flight N	0x01
Crow's Flight NE	0x02
Crow's Flight E	0x03
Crow's Flight SE	0x04
Crow's Flight S	0x05
Crow's Flight SW	0x06
Crow's Flight W	0x07
Crow's Flight NW	0x08
Reserved	0x090xFD
Blank	0xFE
Unknown	0xFF

2.10.1.22 LBP-REQ-019756/C-List Server Generic Media 1 - Media List Structure (TcSE ROIN-301572-1)

istServerID =	Generic Media1 (0x02)	Media Root Li				
ActiveListID =	Media Root (0x0000)		1			
ParentList ID =	Media Root (0x0000)			1		
NbrItemsInSelection=	20		1			
ItemIndex	DataType	ActivationEvent	Object Type	ltemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
)x0000	Generic Text (0x02)	Not Supported (0x0)		{Media Root List}	Invalid	Invalid
)x0001	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001	Set Source to Entry 1
)x0002	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001	Set Source to Entry 2
)x0003	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001	Set Source to Entry 3
)x0004	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001	Set Source to Entry 4
	1 / /	111	,,			
)x0014	Media Type (0x20)	Supported (0x1)	Entry Object (0x1)	{Source Icon} {Source #:Source Name}	Invalid	Set Source to Entry 20
	1 / /	111		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Non Indexing Device
Example 1:						can only use settem
•						•
)x0001	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{USB lcon} 1:USB	Goto Active List ID 0x0001	Set Source to Entry 1
)x0002	Media Type (0x20)	Supported (0x1)		{USB lcon} 2:USB	Goto Active List ID 0x0001	Set Source to Entry 2
xample: Now Playing ource Info: {device name letadata1: {mainField 1} letadata2: {mainField 2} letadata Icon 1 and 2: 0:	}	Supported (0x1)	Entry Object (0x1)	{0x0A} 4:BTAudio	Invalid	Set Source to Entry 4
	<u> </u>	n S28 63.4.2.41 TP-LO		SID-79-MediaInformation_St		
.istServerID = ActiveListID =	Generic Media1 (0x02) Indexable Features (0x00	201)			-	
ParentList ID =	Media Root (0x0000)	JU1)			4	
	A INIEGIA KOOL (UXUUUU)				4	
	[→	1 4 10 10 15 11	Object Type	ltemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
lbrItemsInSelection=	DataTuna			i ileili Describior	genterri(iterrificex) behavior	i seuterriti periavior
lbrItemsInSelection= ItemIndex	DataType	ActivationEvent			Involid	
NbrItemsInSelection= ItemIndex 0x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	{Device Name}	Invalid	Invalid
NbrItemsInSelection= ItemIndex				(Device Name) Now Playing	Invalid Invalid Invalid	

Ken's iPod

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Generic Text (0x02)

Not Supported (0x0) List Label

0x0000

Invalid

Invalid



2.10.1.23 LBP-REQ-019757/B-List Server Phone Info - Phone List Structure (TcSE ROIN-301575-1)

Note: This list order cannot change. There is a dependancy on the cluster for which list item number to capture.

ListOssani C	Dhara I (10	Phone Root I	List			
istServerID = ActiveListID =	Phone Info (0x03) Phone Root (0x0000)				1	
arentList ID = brItemsInSelection =	Phone Root (0x0000)					
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
x0000 x0001	Generic Text (0x02) Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0)	List Label List Object (0x2)	Phone Quick Dial	Invalid Goto ActiveListID 0x0001 or 0x0006	Invalid Invalid
<0002 <0003	Generic Text (0x02) Generic Text (0x02)	Not Supported (0x0) Not Supported (0x0)	List Object (0x2) List Object (0x2)	All Calls Incoming Calls	Goto ActiveListID 0x0002 or 0x0006 Goto ActiveListID 0x0003 or 0x0006	Invalid Invalid
x0004	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Outgoing Calls	Goto ActiveListID 0x0004 or 0x0006	Invalid
x0005	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Missed Calls	Goto ActiveListID 0x0005 or 0x0006	Invalid
istServerID =	Phone Info (0x03)	Quick Dial				
ctiveListID =	Quick Dial (0x0001)					
ParentList ID = br/tems/nSelection =	Phone Root (0x0000)				_	
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
x0000 x0001	Generic Text (0x02) Phone CallerID (0x60)	Not Supported (0x0) Supported (0x1)	List Label Entry Object (0x1)	Quick Dial {null}{PhoneTypelcon}{CallerID}	Invalid Invalid	Invalid Place Call to entry 1
x0002 x0003	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{null}{PhoneTypelcon}{CallerID} {null}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 2 Place Call to entry 3
x0004	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{null}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 4
x0005 x0006	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{null}{PhoneTypelcon}{CallerID} {null}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 5 Place Call to entry 6
x0007 x0008	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{null}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 7 Place Call to entry 8
x0008 x0009	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{null}{PhoneTypelcon}{CallerID} {null}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 9
		All Calls				
stServerID =	Phone Info (0x03)	All Gallo				
ctiveListID = 'arentList ID =	All Calls (0x0002) Phone Root(0x0000)				<u> </u>	
britemsinSelection= temindex	25 DataType	ActivationEvent		ItemDescriptor	getItem(ItemIndex) Behavior	setttem() Behavior
x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	All Calls	Invalid	Invalid
x0001 x0002	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 1 Place Call to entry 2
x0003 x0004	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 3 Place Call to entry 4
x0005	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 5
x0006 x0007	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 6 Place Call to entry 7
x0008	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 8
x0009 x000A	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 9 Place Call to entry 10
 x0019	Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 25
X0010	r none dallons (oxee)		•	[Curry person [Friend Typesson [Current]]	imana	r idoo odii to onity 20
istServerID =	Phone Info (0x03)	Incoming Ca	lis			
ActiveListID = ParentList ID =	Incoming Calls (0x0003) Phone Root (0x0000)					
IbritemsInSelection = ItemIndex	25 DataType	ActivationEvent		ltemDescriptor	getitem(itemindex) Behavior	setItem() Behavior
x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	Incoming Calls	Invalid	Invalid
x0001 x0002	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 1 Place Call to entry 2
x0003 x0004	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 3 Place Call to entry 4
x0005	Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 5
x0006 x0007	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 6 Place Call to entry 7
x0008 x0009	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1) Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid Invalid	Place Call to entry 8 Place Call to entry 9
		Supported (0x1) Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID} {CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 10
	Phone CallerID (0x60)	Oupportou (ox 1)				
x000A	Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1)	Entry Object (0x1)	{CallTypelcon}{PhoneTypelcon}{CallerID}	Invalid	Place Call to entry 25
x000A		***		{CallTypelcon}{Phone Typelcon}{CallerID}	Invalid	Place Call to entry 25
x000A x0019 istServerID =	Phone CallerID (0x60) Phone Info (0x03)	Supported (0x1)		{CallTypeicon}{PhoneTypeicon}{CallerID}	Invalid	Place Call to entry 25
x000A x0019 istServerID = kctiveListID = ParentList ID =	Phone CallerID (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000)	Supported (0x1)		{CallTypeicon}{PhoneTypeicon}{CallerID}	Invalid	Place Call to entry 25
x000A x0019 istServerID = ictiveListID = ParentList ID =	Phone CallerID (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25	Supported (0x1)		{Call TypeIcon}{Phone TypeIcon}{CallerID}		Place Call to entry 25 settem() Behavior
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x000A x0019 istServerID =	Phone CallerID (0x60) Phone Info (0x03) Outgoing Calls (0x004) Phone Root(0x0000) 25 DataType Generic Text (0x2) Phone CallerID (0x60) Phone CallerID (0x60) Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Outgoing Ca ActivationEvent Not Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1)	List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) Entry Object (0x1)	ItemDescriptor Outgoing Calls (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID)	gettem(temIndex) Behavior Invalid Invalid Invalid Invalid Invalid	settlem() Behavior Invalid Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4
x000A x0019 istServerID = ctiveListID = arentList ID = briteminSelection = kemindex x0000 x00001 x00002 x00003 x00004 x00005	Phone CallerID (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x000) 25 CataType Generic Text (0x2) Phone CallerID (0x60) Phone CallerID (0x60) Phone CallerID (0x60)	Supported (0x1) Outgoing Co ActivationEvent Not Supported (0x1)	List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1)	ItemDescriptor Outgoing Calls (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID)	gettem(itemIndex) Behavior Invalid Invalid Invalid	settlem() Behavior Invalid Place Call to entry 1 Place Call to entry 2 Place Call to entry 3
x000A x0019 istServerID = cctiveListID = rarentList ID = bthtemsInSelection = temheex x0000 x0001 x0002 x0001 x0002 x0004 x0005 x0006	Phone CallettD (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25 DetaType Generic Text (0x2) Phone CallettD (0x60)	Supported (0x1) Outgoing Ca Outgoing Ca ActivationEvent Not Supported (0x0) Supported (0x1)	List Label Entry Object (0x1)	ItemDescriptor Outgoing Calls (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID)	gettem(temindex) Behavior Invalid Invalid Invalid Invalid Invalid Invalid Invalid Invalid	Institute (Institute Institute Insti
xx000A xx0019 istServerID = kctiveListID = arennList ID = ibritemisnSelection = ibritemisnSelection = xx0000 xx00001 xx00002 xx00003 xx00004 xx00005 xx00006 xx00006 xx00007 xx00008	Phone CallettD (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25 Generic Text (0x2) Phone CallettD (0x60)	Supported (0x1) Outgoing Ga ActivationEvent Not Supported (0x0) Supported (0x1)	List Label Entry Object (0x1)	ItemDescriptor Outgoing Calls (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID)	gettem(temIndex) Behavior Invalid	sedtem() Behavior Ivalid Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 3 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 8
x000A x0019 istServerID = cctiveListID = rarentList ID = britemsInSelection = lemindex x0000 x00001 x00002 x00003 x00004 x00005 x00006 x00007 x00008	Phone CalleriD (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25 DataType Generic Text (0x2) Phone CalleriD (0x60)	Supported (0x1) Outgoing Go Outgoing Go ActivationEvent Not Supported (0x1)	List Label Entry Object (0x1)	ItemDescriptor Outgoing Calls (CallTypeton)(Phone Typeton)(CalleriD)	gettem(temIndex) Behavior Invalid Invalid Invalid Invalid Invalid Invalid Invalid Invalid Invalid	Insaid Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 2 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 6 Place Call to entry 7 Place Call to entry 8
x000A x0019 istServerID = ctiveListID = arantList ID = br.tremsinSelection = lemindex x0000 x00001 x00002 x00004 x00005 x00006 x00006 x00007 x00008	Phone CallettD (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25 Generic Text (0x2) Phone CallettD (0x60)	Supported (0x1) Outgoing Ga ActivationEvent Not Supported (0x0) Supported (0x1)	List Label Entry Object (0x1)	ItemDescriptor Outgoing Calls (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID) (CallTypelcon)[PhoneTypelcon](CallerID)	gettem(temIndex) Behavior Invalid	sedtem() Behavior Ivalid Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 3 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 8
Interest Interest Interest Interest Interest	Phone CallerID (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Roo((0x0004) Z5 DataType Generic Taxt (0x2) Phone CallerID (0x60)	Supported (0x1) Outgoing Ga ActivationEvent Not Supported (0x1)	List Label Entry Object (0x1)	ItemDescriptor Outgoing Callis (CallTypelcon)(PhoneTypelcon)(CallerID)	gettem(temindex) Behavior Invalid	Inselfern() Behavior Invalid Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 3 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9
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x000A x00019 istServerID = ctiveListID = criveListID = arannList ID = brItemsInSelection = lemindex x0000 x00001 x00002 x00004 x00005 x00006 x00006 x00008 x00009 x00009 x00009 x00009 x00009 x00019 istServerID = ctiveListID = arannIList ID = brItemsInSelectID = ctiveListID = arannIList ID = brItemsInSelectID = ctiveListID = arannIList ID = brItemsInSelectID = ctiveListID = arannelList ID = arannelList ID = ctiveListID = arannelList ID = aranne	Phone CallerID (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Roo((0x0004) Z5 DataType Generic Taxt (0x2) Phone CallerID (0x60)	Supported (0x1) Outgoing Ga ActivationEvent Not Supported (0x1)	List Label Entry Object (0x1)	ItemDescriptor Outgoing Callis (CallTypelcon)(PhoneTypelcon)(CallerID)	gettem(temindex) Behavior Invalid	Inselfern() Behavior Invalid Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 3 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9
xtServerID = ctiveListID = arentList ID = britemsInSelection = lemmdex (2000) (Phone CallerID (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25 DataType Carento Text (0x2) Phone CallerID (0x60) Phone Info (0x03) Missed Calls (0x0005) Phone Root (0x0005)	Supported (0x1) Outgoing Ca Outgoing Ca ActivationEvent Not Supported (0x1) Missed Call	List Label Entry Object (0x1)	ItemDescriptor Outgoing Calls (Call') pelcon)(Phone Typelcon)(CallerID)	gettem(temindex) Behavior Insalid	settem) Behavior Insald Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 3 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 9 Place Call to entry 10
March Marc	Phone CallerfD (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25 DataType Generic Text (0x2) Phone CallerfD (0x60)	Supported (0x1) Outgoing Ga Outgoing Ga ActivationEvent Not Supported (0x0) Supported (0x1) Missed Call	List Label Entry Object (0x1)	RemDescriptor Outgoing Calls (CallTypelcon)(PhoneTypelcon)(CalleriD) (CallTypelcon)(PhoneTypelcon)(CalleriD) (CallTypelcon)(PhoneTypelcon)(CalleriD) (CallTypelcon)(PhoneTypelcon)(CalleriD) (CallTypelcon)(PhoneTypelcon)(CalleriD) (CallTypelcon)(PhoneTypelcon)(CalleriD) (CallTypelcon)(PhoneTypelcon)(CalleriD) (CallTypelcon)(PhoneTypelcon)(CalleriD) (CallTypelcon)(PhoneTypelcon)(CalleriD) (CallTypelcon)(PhoneTypelcon)(CalleriD) RemDescriptor Missed Calls	gettem(temisdex) Behavior Invalid	Inselid Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 6 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to
March Marc	Phone CallerID (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25 DelaType Generic Text (0x2) Phone CallerID (0x60)	Supported (0x1) Outgoing Ga Outgoing Ga Outgoing Ga Outgoing Ga ActivationEvent Not Supported (0x1) Missed Call ActivationEvent Not Supported (0x1)	List Label Entry Object (0x1)	RemDescriptor Outgoing Calls (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) RemDescriptor Missed Calls (CallTypelcon)(PhoneTypelcon)(CallerID)	gettem(temIndex) Behavior Imalid	Inselid Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 9 Place Call to entry 10 Place Call to entry 10 Place Call to entry 25
March Marc	Phone CalleriD (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25 DelaType Generic Text (0x2) Phone CalleriD (0x60)	Supported (0x1) **Cutsoing Gat **Cutsoing Gat **ActivationEvent** Not Supported (0x1) **Supported (0x1) Supported (0x1) **Institute (0x1) *	List Label Entry Object (0x1)	RemDescriptor Outgoing Calls (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) RemDescriptor Missed Calls (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(CallerID)	gettem(temIndex) Behavior Imalid	Inselid Place Call to entry 1 Place Call to entry 2 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 10
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x000A x0019 istServerID = ctiveListID = arantList ID = brItemsInSelection = lemindex x0000 x0001 x0001 x0002 x0003 x0004 x0005 x0006 x0006 x0007 x0008 x00019 istServerID = ctiveListID = arantList ID = brItemsInSelection = lemindex x0000 x00009 x0000A x00019	Phone CallertD (0x60) Phone Info (0x03) Cutgoing Calls (0x0004) Phone Roct(0x0000) 25 DataType Carent (0x2) Phone CallertD (0x60)	Supported (0x1) ActivationEvent Not Supported (0x1)	List Label Entry Object (0x1) En	ItemDescriptor Outgoing Calls (CallTypelcon)(Phone Typelcon)(CallerID)	gettem(temindex) Behavior Inselid	settem() Behavior Invalid Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 9 Place Call to entry 10 Place C
x000A x0019 istServerID = ctiveListID = arentList ID = IbrItemsInSelection = IbrItemsInSelection = IbrItemsInSelection = x0000 x00001 x00002 x00003 x00004 x00005 x00008 x00008 x00009 x0000A x0019 istServerID = ctiveListID = arentList ID = arentList ID = IbrItemsInSelection = IbrItems	Phone CalleriD (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25 DelaType Generic Text (0x2) Phone CalleriD (0x60) Phone CalleriD (0x60)	Supported (0x1) Cutisting Ca Cutisting Ca ActivationEvent Not Supported (0x1) Missed Call ActivationEvent Not Supported (0x1)	List Label Entry Object (0x1) En	RemDescriptor Outgoing Calls CallTypelcon)(PhoneTypelcon)(CallerID) CallTypelcon)(PhoneTypelcon)(CallerID) CallTypelcon)(PhoneTypelcon)(CallerID) CallTypelcon)(PhoneTypelcon)(CallerID) CallTypelcon)(PhoneTypelcon)(CallerID) CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(PhoneTypelcon)(CallerID) RemDescriptor Missed Calls (CallTypelcon)(PhoneTypelcon)(CallerID) (CallTypelcon)(CallerID)	gettem(temIndex) Behavior Invalid	Inselid Place Call to entry 1 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 8 Place Call to entry 8 Place Call to entry 9 Place Call to entry 9 Place Call to entry 9 Place Call to entry 10
x000A x0019 istServerID = ctiveListID = arannList ID = brItemsInSelection = londex x0000 x0001 x0001 x0002 x0001 x0002 x0003 x0004 x0005 x0006 x0006 x0007 x0008 x00019 istServerID = ctiveListID = arannList ID = brItemsInSelection = brItemsInSelection = brItemsInSelection = brItemsInSelection = komindex x0000	Phone CallertD (0x60) Phone Info (0x03) Cutgoing Calls (0x0004) Phone Roct(0x0000) 25 DataType Carent (0x2) Phone CallertD (0x60)	Supported (0x1) ActivationEvent Not Supported (0x1)	List Label Entry Object (0x1) En	ItemDescriptor Outgoing Calls (CallTypelcon)(Phone Typelcon)(CallerID)	gettem(temindex) Behavior Inselid	settem() Behavior Invalid Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 6 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 9 Place Call to entry 10 Place C
x000A x0019 istServerID = cctiveListID = faramentList ID = itemIndex x0000 x0001 x0002 x0001 x0002 x0003 x0004 x0005 x0006 x0006 x0007 x0008 x0009 x0000	Phone CallertD (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25 DataType Generic Task (0x2) Phone CallertD (0x60)	Supported (0x1) Outgoing Ga Outgoing Ga ActivationEvent Not Supported (0x1) Missed Call ActivationEvent Not Supported (0x0) Supported (0x1)	List Label Entry Object (0x1) En	ItemDescriptor Outpoing Calls (Call Typelcon)(Phone Typelcon)(CallerID)	gettem(temindex) Behavior Insalid	Inselfern() Behavior Inself Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 9 Place Call to entry 1 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 9
IstServerID = IstServerID	Phone CalleriD (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) Z5 DelaType Generic Text (0x2) Phone CalleriD (0x60)	Supported (0x1) ActivationEvent Not Supported (0x1)	List Label Entry Object (0x1)	ItemDescriptor Outgoing Calls (CallTypelcon)(Phone Typelcon)(CallerID)	gettem(temindex) Behavior Inselid	settem() Behavior Insalid Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 1 Place Call to entry 1 Place Call to entry 2 Place Call to entry 1 Place Call to entry 1 Place Call to entry 3 Place Call to entry 1 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9
xx000A xx0019 istServerID =	Phone CallertD (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25 DataType Generic Task (0x2) Phone CallertD (0x60)	Supported (0x1) Outgoing Ga Outgoing Ga ActivationEvent Not Supported (0x0) Supported (0x1)	List Label Entry Object (0x1)	ItemDescriptor Outgoing Calls (CallTypelcon)(Phone Typelcon)(CallerID)	gettem(temindex) Behavior Inselid	settem() Behavior Insalid Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 1 Place Call to entry 1 Place Call to entry 2 Place Call to entry 1 Place Call to entry 1 Place Call to entry 3 Place Call to entry 1 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9
x000A x0019 istServerID = cctiveListID = framenList ID = fram	Phone CalleriD (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) Z5 DelaType Generic Text (0x2) Phone CalleriD (0x60)	Supported (0x1) Outgoing Ga Outgoing Ga ActivationEvent Not Supported (0x0) Supported (0x1)	List Label Entry Object (0x1)	ItemDescriptor Outgoing Calls (CallTypelcon)(Phone Typelcon)(CallerID)	gettem(temindex) Behavior Inselid	settem() Behavior Insalid Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 1 Place Call to entry 1 Place Call to entry 2 Place Call to entry 1 Place Call to entry 1 Place Call to entry 3 Place Call to entry 1 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9
Internation	Phone CalleriD (0x60) Phone Info (0x03) Outgoing Calls (0x0004) Phone Root(0x0000) 25 DataType Generic Text (0x2) Phone CalleriD (0x60)	Supported (0x1) Outgoing Ga Outgoing Ga ActivationEvent Not Supported (0x0) Supported (0x1)	List Label Entry Object (0x1)	ItemDescriptor Outgoing Calls (CallTypelcon)(Phone Typelcon)(CallerID)	gettem(temindex) Behavior Inselid	settem() Behavior Insalid Place Call to entry 1 Place Call to entry 2 Place Call to entry 2 Place Call to entry 2 Place Call to entry 3 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 6 Place Call to entry 7 Place Call to entry 9 Place Call to entry 1 Place Call to entry 1 Place Call to entry 2 Place Call to entry 1 Place Call to entry 1 Place Call to entry 3 Place Call to entry 1 Place Call to entry 4 Place Call to entry 5 Place Call to entry 5 Place Call to entry 7 Place Call to entry 7 Place Call to entry 9



2.10.1.24 LBP-REQ-019758/B-List Server Navigation Info - Navigation List Structure (TcSE ROIN-301576-1)

istServerID =	Navigation Info (0x01)	Navigation Root L	101			
ActiveListID =	Navigation Root (0x00)	00)			1	
ParentList ID =	Navigation Root (0x000				1	
NbrItemsInSelection =	4	50)			1	
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getitem(itemindex) Behavior	setItem() Behavior
x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	Quick Navigation	Invalid	Invalid
x0001	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	My Home	Invalid	Set Dest to entry 1 (If MyHome Not Saved, Goto Active List ID 0x
x0002	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Previous Destinations	Goto Active List ID 0x0003 or 0x0004	Invalid
x0002	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Favorites	Goto Active List ID 0x0003 of 0x0004	Invalid
				POI Nearby		Invalid
x0004	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	POI Nearby	Goto Active List ID 0x0002	invalid
		Favorites			1	
istServerID =	Navigation Info (0x01)					
ctiveListID =	Favorites (0x0001)					
ParentList ID =	Navigation Root (0x000	00)				
lbrltemsInSelection =	25					
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	Favorites	Invalid	Invalid
x0001	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest1}	Invalid	Set Dest to entry 1
x0002	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest2}	Invalid	Set Dest to entry 2
x0003	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest3}	Invalid	Set Dest to entry 3
x0004	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest4}	Invalid	Set Dest to entry 4
x0005	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest5}	Invalid	Set Dest to entry 5
x0006	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest6}	Invalid	Set Dest to entry 6
x0007	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{FavDest7}	Invalid	Set Dest to entry 7
x0008	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	(FavDest8)	Invalid	Set Dest to entry 8
x0009	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	(FavDest9)	Invalid	Set Dest to entry 9
					Invalid	
x000A	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	(FavDest10)	III V GIII	Set Dest to entry 10
0040	O Ti - (O-05)	0	E-t Obi - (0 *)	(ED+0E)	L	C-4 D444 05
x0019	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	{ravDest25}	Invalid	Set Dest to entry 25
	1	POI Nearby				
istServerID =	Navigation Info (0x01)				1	
ctiveListID =	POI Nearby (0x0002)					
arentList ID =	Navigation Root (0x000	00)				
lbrltemsInSelection =	5					
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	POI Nearby	Invalid	Invalid
x0001	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	{Favorite_POI_Cat_1}	Goto ActiveListID 0x0004 or 0x0005	Invalid
x0002	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	{Favorite_POI_Cat_2}	Goto ActiveListID 0x0004 or 0x0005	Invalid
x0003	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	{Favorite_POI_Cat_3}	Goto ActiveListID 0x0004 or 0x0005	Invalid
x0004		Not Supported (0x0)	List Object (0x2)	{Favorite_POI_Cat_4}	Goto Activel istID 0x0004 or 0x0005	Invalid
v0005	Generic Text (0x02)					Invalid
x0005	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	{Favorite_POI_Cat_5}	Goto ActiveListID 0x0004 or 0x0005	Invalid
x0005		Not Supported (0x0)	List Object (0x2)			Invalid
	Generic Text (0x02)	Not Supported (0x0) Previous Destinat	List Object (0x2)			Invalid
istServerID =	Generic Text (0x02) Navigation Info (0x01)	Not Supported (0x0) Previous Destinati	List Object (0x2)			Invalid
istServerID = ctiveListID =	Generic Text (0x02) Navigation Info (0x01) Previous Destinations	Not Supported (0x0) Previous Destination (0x0003)	List Object (0x2)			Invalid
istServerID = ctiveListID = arentList ID =	Generic Text (0x02) Navigation Info (0x01)	Not Supported (0x0) Previous Destination (0x0003)	List Object (0x2)			invalid
istServerID = ctiveListID = arentList ID = lbrItemsInSelection=	Navigation Info (0x01) Previous Destinations Navigation Root (0x000) 20	Not Supported (0x0) Previous Destinat (0x0003) 00)	List Object (0x2)	(Favorite_POI_Cat_5)	Goto ActiveListID 0x0004 or 0x0005	
istServerID = citiveListID = ParentList ID = IbritemsInSelection= ItemIndex	Navigation Info (0x01) Previous Destinations Navigation Root (0x00) 20 DataType	Not Supported (0x0) Previous Destinat (0x0003) 00) ActivationEvent	List Object (0x2)	{Favorite_POI_Cat_5}	Goto ActiveListID 0x0004 or 0x0005 getItem(ItemIndex) Behavior	setItem() Behavior
istServerID = ctiveListID = earntList ID = lbritemsInSelection= ttemIndex x0000	Revigation Info (0x01) Previous Destinations Navigation Root (0x00) 20 DataType Generic Text (0x02)	Not Supported (0x0) Previous Destinat (0x0003) 000) ActivationEvent Not Supported (0x0)	List Object (0x2) ions Object Type List Label	(Favorite_POI_Cat_5) ItemDescriptor Previous Destinations	Goto ActiveListID 0x0004 or 0x0005 getItem[ItemIndex] Behavior Invalid	setItem() Behavior Invalid
istServerID = ctiveListID = ParentList ID = IbrItems InSelection= ItemIndex x0000 x0001	Generic Text (0x02) Navigation Info (0x01) Previous Destinations on Navigation Root (0x00) 20 Data Type Generic Text (0x02) Generic Text (0x02)	Not Supported (0x0) Previous Destinat (0x0003) 00) ActivationEvent Not Supported (0x0) Supported (0x1)	List Object (0x2) ions Object Type List Label Entry Object (0x1)		Goto ActiveListID 0x0004 or 0x0005 getItem(ItemIndex) Behavior Invalid Invalid	settlem() Behavior Invalid Set Dest to entry 1
istServerID = ctiveListID = tarentList ID = thritems inSelection= temIndex xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Generic Text (0x02) Navigation Info (0x01) Previous Destinations Navigation Root (0x00) 20 Data Type Generic Text (0x02) Generic Text (0x02) Generic Text (0x02)	Not Supported (0x0) Previous Destinat (0x0003) 00) ActivationEvent Not Supported (0x0) Supported (0x1) Supported (0x1)	List Object (0x2) Object Type List Label Entry Object (0x1) Entry Object (0x1)	[Favorite_POL Cat_5]	Goto ActiveListID 0x0004 or 0x0005 getItem(ItemIndex) Behavior Irvalid Irvalid	settlem() Behavior Invalid Set Dest to entry 1 Set Dest to entry 2
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istServerID = ctiveListID = ParentList ID = ParentList ID = IbtrItemsInSelection= ItemIndex 00000 00001 00001 00002 00003 00004	Generic Text (0x02) Navigation Info (0x01) Previous Destinations. Navigation Root (0x00) 20 DataType Generic Text (0x02)	Not Supported (0x0) Previous Destinat (0x0003) 000 ActivationEvent Not Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1) Supported (0x1)	List Object (0x2) Object Type List Label Entry Object (0x1) Entry Object (0x1) Entry Object (0x1) Entry Object (0x1)		Goto ActiveListID 0x0004 or 0x0005 getItem(ItemIndex) Behavior Invalid Invalid Invalid Invalid Invalid Invalid	Invalid Set Dest to entry 1 Set Dest to entry 2 Set Dest to entry 3 Set Dest to entry 4
istServerID = ctiveListID = arentList ID = brItems inSelection= temindex x0000 x0001 x0002 x0003 x0004 x0005	Generic Text (0x02) Navigation Info. (0x01) Previous Destinations in Navigation Root (0x00/20) DataType Generic Text (0x02)	Not Supported (0x0) Previous Destinat (0x0003) 00) ActivationEvent Not Supported (0x1)	List Cbject (0x2) Object Type List Label Entry Object (0x1)	ItemDescriptor Previous Destinations (Prev. Dest. 1) (Prev. Dest. 2) (Prev. Dest. 4) (Prev. Dest. 4) (Prev. Dest. 5)	Goto ActiveListID 0x0004 or 0x0005 gettlem(ItemIndex) Behavior Invalid Invalid Invalid Invalid Invalid Invalid Invalid Invalid	Invalid settlem() Behavior Set Dest to entry 1 Set Dest to entry 2 Set Dest to entry 3 Set Dest to entry 4 Set Dest to entry 5
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isIServerID = cctiveListID = arentList ID = brothers in Selection= lemindex v00000 v00000 v00001 v00002 v00003 v00004 v00005 v00006 v00	Generic Text (0x02) Navigation Info (0x01) Previous Destinations In Navigation Root (0x00/ 20 DataType Generic Text (0x02)	Not Supported (0x0) Previous Destinat (0x0003) 00) ActivationEvent Not Supported (0x1)	Ust Object (0x2) Object Type List Label Entry Object (0x1)	Favorite_POL Cat_5	Goto ActiveListID 0x0004 or 0x0005 gettlem(ItemIndex) Behavior hvalid hvalid hvalid hvalid hvalid hvalid	setItem() Behavior Invalid Set Dest to entry 1 Set Dest to entry 2 Set Dest to entry 3 Set Dest to entry 4 Set Dest to entry 5 Set Dest to entry 6 Set Dest to entry 6 Set Dest to entry 7
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isiServerID =	Generic Text (0x02) Navigation Info (0x01) Pervious Destinations : Navigation Root (0x00) 20 Data Type Generic Text (0x02)	Not Supported (0x0) Previous Destinat (0x0003) 00) ActivationEvent Not Supported (0x1)	List Object (0x2) Object Type List Label Entry Object (0x1)	RemDescriptor	Goto ActiveListID 0x0004 or 0x0005 getItem(ItemIndex) Behavior Invalid	invalid Set Dest to entry 1 Set Dest to entry 2 Set Dest to entry 2 Set Dest to entry 2 Set Dest to entry 4 Set Dest to entry 4 Set Dest to entry 5 Set Dest to entry 6 Set Dest to entry 6 Set Dest to entry 7 Set Dest to entry 7 Set Dest to entry 9 Set Dest to entry 9 Set Dest to entry 9
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istServerID =	Generic Text (0x02) Navigation Info (0x01) Previous Destinations Navigation Root (0x00) 20 Data Type Generic Text (0x02) Text (0x02) Generic Text (0x02) Generic Text (0x02) Data Type Generic Text (0x02) Navigation Info (0x01) POI List (0x00) POI Nearby (0x0002) Data Type Generic Text (0x02) Navigation POI (0x40)	Not Supported (0x0) Previous Destinat (0x0003) 30) ActivationEvent Not Supported (0x1) No Matches Fou Not Supported (0x1) ActivationEvent Not Supported (0x0) Not Supported (0x0) Not Supported (0x0) Supported (0x1)	List Cbject (0x2) Object Type List Label Entry Object (0x1) Entry Object (0x1)	ItemDescriptor	gettem(temindex) Behavior Irvalid	Invalid Set Dest to entry 1 Set Dest to entry 2 Set Dest to entry 2 Set Dest to entry 4 Set Dest to entry 5 Set Dest to entry 6 Set Dest to entry 7 Set Dest to entry 7 Set Dest to entry 9 Set Dest to entry 10 Set Dest to entry 10 Set Dest to entry 20 Invalid Invalid Set Dest to entry 10 Set Dest to entry 20 Set Dest to entry 5 Set Dest to entry 6 Set Dest to entry 7 Set Dest to entry 8 Set Dest to entry 8 Set Dest to entry 8 Set Dest to entry 9
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2.10.1.25 LBP-REQ-019759/A-List Server Generic List 1 - Sync Services List Structure (TcSE ROIN-301589-1)

		Cancel Route				
ListServerID =	Generic Info (0x04)					
ActiveListID =	Cancel Route (0x0000)					
ParentList ID =	Generic Info (0x0000)					
NbrltemsInSelection=	2					
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	settem() Behavior
0×0000	Generic Text (0x02)	Not Supported (0x0)	List Label	Cancel Route	Invalid	Invalid
0×0001	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	Yes	Invalid	Cancel Current Services Route
0x0002	Generic Text (0x02)	Supported (0x1)	Entry Object (0x1)	No	Invalid	Return to route (send CurrentStreetName.St with data update parameter)*
						*Reference S28 NAVREPEAT-GREQ-159114-1-List Browse-Set Operation

2.10.1.26 LBP-REQ-019760/A-List Server Generic List 1 - Valet Mode List Structure (TcSE ROIN-301590-1)

Valet Mode Enabled						
ItemIndex	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
0x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	{Root List Label}	Invalid	Invalid
0x0001	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	Valet Mode Enabled	Goto Parent	Invalid

2.10.1.27 LBP-REQ-089676/B-LBP Media definition for GAL/CarPlay.

When a projection session is active (e.g. Apple CarPlay, Android Auto/GAL, Baidu CarLife), the APIM shall send source information in the list browse protocol response. If other APIM internal media sources are still available during the projection session, the APIM shall provide these items in the list browse protocol response.

		LBP List Structure							
	DataType	ActivationEvent	Object Type	ItemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior			
Apple CarPlay	Media Type (0x20)	Supported (0x1)	Entry Object (0x1)	{0x07} {Source #: Device Name}	Invalid	Set Source			
Android Auto / GAL	Media Type (0x20)	Supported (0x1)	Entry Object (0x1)	{0x07} {Source #: Android Auto}	Invalid	Set Source			
Baidu CarLife	Media Type (0x20)	Supported (0x1)	Entry Object (0x1)	{0x07} {Source #: CarLife Music}	Invalid	Set Source			

When a projection session is active and projection media is active, selecting the projection source from the list browse will direct the system to now playing cluster screen. Examples:

Apple CarPlay	Android Auto	Baidu CarLife
Source Info: {Device Name}	Source Info: "Android Auto"	Source Info: "CarLife"
Metadata1:{MediaItemArtist}	Metadata1: {Artist}	Metadata1: {Artist}
Metadata2: {MediaItemTitle}	Metadata2: {Song}	Metadata2: {Song}
Metadata Icon 1 and 2: 0x17 (no icon)	Metadata Icon 1 and 2: 0x17 (no icon)	Metadata Icon 1 and 2: 0x17 (no icon)

2.10.1.28 LBP-REQ-089678/B-LBP Phone definition for GAL/CarPlay.

When GAL is active, the APIM shall send GAL phone information in the list browse protocol response. The APIM shall follow the currently define phone list structure.

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When CarPlay is active, the following table shall be transferred via list browse protocol.

ListServerID =	Phone Info (0x03)					
ActiveListID =	Phone Root (0x0000)					
ParentList ID =	Phone Root (0x0000)					
NbrItemsInSelection =	1					
ItemIndex	DataType	ActivationEvent	Object Type	ltemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
0x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	Phone	Invalid	Invalid
0x0001	Generic Text (0x02)	Not Supported (0x0)	List Object (0x2)	See Touch Screen	Goto ActiveListID 0x0000	Invalid

2.10.1.29 LBP-REQ-089684/A-LBP Navigation definition for GAL/CarPlay

When GAL/CarPlay is active, the APIM shall send "See touch screen" for item one in the navigation root list in list browse protocol response. There shall no other items in the response.

		Navigation Root List				
ListServerID =	Navigation Info (0x01))				
ActiveListID =	Navigation Root (0x00	00)				
ParentList ID =	Navigation Root (0x00	00)				
NbrltemsInSelection =	1					
ItemIndex	DataType	ActivationEvent	Object Type	<i>ItemDescriptor</i>	getItem(ItemIndex) Behavior	setItem() Behavior
0x0000	Generic Text (0x02) Not Supported (0x0) List Label Navigation				Invalid	Invalid
0x0001	Generic Text (0x02)	Not Supported (0x0)	List Object(0x2)	See Touch Screen	Goto ActiveListID 0x0000	Invalid

When GAL/CarPlay is active, the APIM shall utilize the current street name statues to TP method to send "see touch screen"

2.10.1.30 LBP-REQ-222052/A-LBP Navigation definition for Mobile Navigation

When Mobile Navigation is active, the APIM shall send "See touch screen" for item one in the navigation root list in list browse protocol response. There shall be no other items in the response.

_		· ·		i e		
		Navigation Root List				
ListServerID =	Navigation Info (0x01)				
ActiveListID =	Navigation Root (0x00	00)				
ParentList ID =	Navigation Root (0x00	00)				
NbrltemsInSelection =	1					
ItemIndex	DataType	ActivationEvent	Object Type	<i>ItemDescriptor</i>	getItem(ItemIndex) Behavior	setItem() Behavior
0x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	Navigation	Invalid	Invalid
0x0001	Generic Text (0x02)	Not Supported (0x0)	List Object(0x2)	See Touch Screen	Goto ActiveListID 0x0000	Invalid

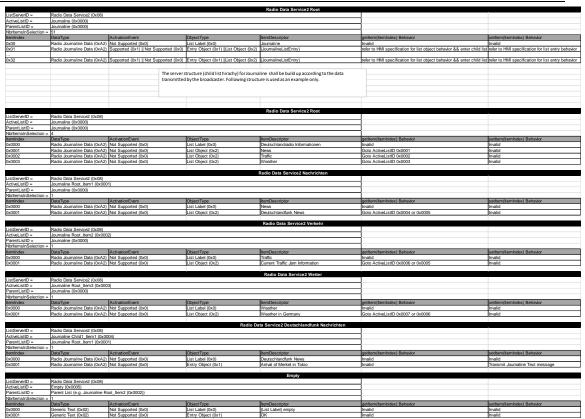
When Mobile Navigation is active, the APIM shall utilize the current street name statues to TP method to send "see touch screen"

2.10.1.31 LBP-REQ-132690/B-List Server RadioDataService1 - EPG List Structure for Centerstack HMI

Basic EPG List Root						
ListServerID =	Radio Data Service1 (0x0	07)				
ActiveListID =	Basic EPG Root (0x0000))				
ParentListID =	Basic EPG Root (0x0000))				
NbrltemsInSelection =	2					
ItemIndex	DataType	ActivationEvent	ObjectType	ItemDescriptor	getItem(ItemIndex) Behavior	setItem(ItemIndex) Behavior
0x0000	Generic Text (0x02)	Not Supported (0x0)	List Label (0x0)	EPG	Invalid	Invalid
0x0001	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{Icon}{NULL}{NULL}{ProgramName}	Invalid	Invalid
0x0002	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid



2.10.1.32 <u>LBP-REQ-132691/B-List Server RadioDataService2 - Journaline List Structure for Centerstack HMI</u>



2.10.1.33 LBP-REQ-192091/A-List Server RadioDataService3 - Advanced EPG List Structure for Centerstack HMI

			Advance	d EPG List Root			
ListServerID =	Radio Data Service3 (0x09)						
ActiveListID =	Advanced EPG Root (0x0000)						
ParentListID =	Advanced EPG Root (0x0000)						
NbrltemsInSelection =	96	96					
ItemIndex	DataType	ActivationEvent	ObjectType	ItemDescriptor	getItem(ItemIndex) Behavior	setIte	n(t Future
0x0000	Generic Text (0x02)	Not Supported (0x0)	List Label (0x0)	EPG	Invalid	Invalid	
0x0001	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	protection
0x0002	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	for C519
0x0003	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	
0x0004	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	
0x0005	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	
0x0006	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	
0x0060	Radio EPG Data (0xA1)	Not Supported (0x0)	Entry Object (0x1)	{NULL}{Hour}{Minute}{ProgramName}	Invalid	Invalid	



2.10.1.34 LBPv2-REQ-434810/A-List Server Generic Media 1 - Media List Structure

ListServerID = ActiveListID =	Generic Media1 (0x02)		st			
	Media Root (0x0000)		†			
ParentList ID =	Media Root (0x0000)					
NbrItemsInSelection=	20				1	
ItemIndex	DataType DataType	ActivationEvent	Object Type	ltemDescriptor	getItem(ItemIndex) Behavior	setItem() Behavior
0x0000	Generic Text (0x02)	Not Supported (0x0)	List Label	{Media Root List}	Invalid	Invalid
)x0001	Radio Source (0xA4)	Supported (0x1)	Entry Object (0x1)	{Source Icon}; AM	Invalid	Set Source to Entry 1
x0002	Radio Source (0xA4)	Supported (0x1)	Entry Object (0x1)	{Source Icon}; FM	Invalid	Set Source to Entry 2
0x0003	Radio Source (0xA4)	Supported (0x1)	Entry Object (0x1)	{Source Icon}; DAB or SAT	Invalid	Set Source to Entry 3
)x0004	Radio Source (0xA4)	Supported (0x1)	Entry Object (0x1)	{Source Icon}; CD	Invalid	Set Source to Entry 4
x0005	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001	Set Source to Entry 5
x0006	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001	Set Source to Entry 6
0x0007	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001	Set Source to Entry 7
0x0008	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{Source Icon} {Source #:Source Name}	Goto Active List ID 0x0001	Set Source to Entry 8
X0000	media Type (exter)	Cupported (ox 1)	List object (ox2)	(Course ison) (Course in Course Hame)	Coto / total Clot is choos	cor course to Emily o
)x0014	Media Type (0x20)	Supported (0x1)	Entry Object (0x1)	{Source Icon} {Source #:Source Name}	Invalid	Set Source to Entry 2
		1- apported (ox i)		nest so local (Coulou #.Coulou Marrie)	1	Non Indexing Device
xample 1:						can only use settlen
0x0001	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{USB lcon} 1:USB	Goto Active List ID 0x0001	Set Source to Entry 1
0x0002	Media Type (0x20)	Supported (0x1)	List Object (0x2)	{USB Icon} 2:USB	Goto Active List ID 0x0001	Set Source to Entry 2
x0001 x0002 x0003	Media Type (0x20) Media Type (0x20) Media Type (0x20)	Supported (0x1) Supported (0x1) Supported (0x1)	Entry Object (0x1) Entry Object (0x1) Entry Object (0x1)	{0x07} 2:iHeart Radio	Invalid Invalid Invalid	Set Source to Entry 1 Set Source to Entry 2 Set Source to Entry 3
)x0004	Media Type (0x20)	Supported (0x1)	Entry Object (0x1)	\$\$	Invalid	Set Source to Entry 4
Source Info: {device nam]				
Metadata1: (mainField 1 Metadata2: (mainField 2 Metadata Icon 1 and 2: (Note: Fields described in Note: For Radio Sources	e) 0x17 (No Icon) n examples are referenced i s the source nameshall be c		ure Owners and HM	SID-79-MediaInformation_St II team. Example SAT/SDARS is engined	ering name, display text might be SX	М
Metadata1: (mainField 1 Metadata2: (mainField 2 Metadata Icon 1 and 2: 0 Mote: Fields described in Mote: For Radio Sources istServerID =	2) 0x17 (No Icon) n examples are referenced is the source nameshall be c Generic Media1 (0x02)	determined byt the Feat	ure Owners and HM		ering name, display text might be SX	м
Metadata1: (mainField 1 Metadata2: (mainField 2 Metadata2: (mainField 2 Metadata Icon 1 and 2: 0 Note: Fields described in Note: For Radio Sources SistServerID = ActiveListID =	2) 0x17 (No Icon) n examples are referenced is the source nameshall be c Generic Media1 (0x02) Indexable Features (0x00)	determined byt the Feat	ure Owners and HM		ering name, display text might be SX -	м
Metadata1: (mainField 1 Metadata2: (mainField 2 Metadata Icon 1 and 2: 0 Metadata Icon 1 and 2: 0 Mote: Fields described in Note: For Radio Sources SistServerID = ActiveListID = ParentList ID =	2) 0x17 (No Icon) n examples are referenced is the source nameshall be concentrated in the source of the source nameshall of the source of the	determined byt the Feat	ure Owners and HM		ering name, display text might be SX	М
letadata1: (mainField 1 letadata2: (mainField 2 letadata lcon 1 and 2: (lote: Fields described in lote: For Radio Sources istServerID = letctiveListID = letarontList ID = lbritemsInSelection =	Ox17 (No Icon) n examples are referenced is the source nameshall be concerned in the	Indexing Device Fe	ure Owners and HM atures	II team. Example SAT/SDARS is enginer		
Metadata1: (mainField 1 Metadata2: (mainField 2 Metadata2: (mainField 2 Metadata Icon 1 and 2: 0 Note: Fields described in Note: For Radio Sources SistServerID = NotiveListID = ParentList ID = Note International Note Inte	Ox17 (No Icon) n examples are referenced is the source nameshall be concerned in the	Indexing Device Fe	ure Owners and HM atures Object Type	Il team. Example SAT/SDARS is enginer temDescriptor	getitem(itemindex) Behavior	setttem() Behavior
Metadata1: (mainField 1 Metadata2: (mainField 2 Metadata Icon 1 and 2: 0 Metadata Icon 1 and 2:	2) 0x17 (No Icon) n examples are referenced is the source nameshall be concentrated in the source nameshall be concentrated i	Indexing Device Fe DO1) ActivationEvent Not Supported (0x0)	ure Owners and HM atures Object Type List Label	Il team. Example SAT/SDARS is enginer **ItemDescriptor** {Device Name}	gettlem(ItemIndex) Behavior	setttem() Behavior Invalid
Metadata1: (mainField 1 Metadata2: (mainField 2 Metadata Icon 1 and 2: (Mote: Fields described in Note: For Radio Sources SistServerID = ActiveListID = ParentList ID = WhitemsInSelection = ItemIndex 100000 100001	Ceneric Text (0x02) Generic Text (0x02)	Indexing Device Fe 2001) ActivationEvent Not Supported (0x0) Supported (0x1)	atures Object Type List Label Entry Object (0x1)	Il team. Example SAT/SDARS is enginer ItemDescriptor [Device Name] Now Playing	gettlem(ItemIndex) Behavior Invalid Invalid	settlem() Behavior Invalid Play Entry 1
Metadata1: (mainField 1 Metadata2: (mainField 2 Metadata2: (mainField 2 Metadata Icon 1 and 2: 0 Note: Fields described in Note: For Radio Sources ListServerID = ActiveListID = ParentList ID = WhoftemsInSelection = ItemIndex Nx0000 Nx0001 Nx0002	Ox17 (No Icon) n examples are referenced is the source nameshall be considered in the source nameshall not	Indexing Device Fe 2001) ActivationEvent Not Supported (0x1) Supported (0x1) Supported (0x1)	ure Owners and HM atures Object Type List Label Entry Object (0x1) Entry Object (0x1)	Il team. Example SAT/SDARS is enginer ItemDescriptor [Device Name] Now Playing Play All	gettlem(ItemIndex) Behavior Invalid Invalid Invalid	settlem() Behavior Invalid Play Entry 1 Play Entry 2
Metadata1: (mainField 1 Metadata2: (mainField 2 Metadata2: (mainField 2 Metadata Icon 1 and 2: (Note: Fields described in Note: For Radio Sources ListServerID = ActiveListID = ParentList ID = NbrItemsInSelection =	Ceneric Text (0x02) Generic Text (0x02)	Indexing Device Fe 2001) ActivationEvent Not Supported (0x0) Supported (0x1)	atures Object Type List Label Entry Object (0x1)	Il team. Example SAT/SDARS is enginer ItemDescriptor [Device Name] Now Playing Play All	gettlem(ItemIndex) Behavior Invalid Invalid	settlem() Behavior Invalid Play Entry 1
Metadata1: (mainField 1 Metadata2: (mainField 2 Metadata2: (mainField 2 Metadata Icon 1 and 2: 0 Note: Fields described in Note: For Radio Sources ListServerID = ListServerID = ParentList ID = ParentList ID = Note Internation = ItemIndex 0x0000 1x00001 1x00002	Ox17. (No Icon) n examples are referenced is the source nameshall be considered by the source nameshall be considered nameshall	Indexing Device Fe 2001) ActivationEvent Not Supported (0x1) Supported (0x1) Supported (0x1)	ure Owners and HM atures Object Type List Label Entry Object (0x1) Entry Object (0x1)	Il team. Example SAT/SDARS is enginer ItemDescriptor [Device Name] Now Playing Play All	gettlem(ItemIndex) Behavior Invalid Invalid Invalid	settlem() Behavior Invalid Play Entry 1 Play Entry 2

DAB and SDARS can only be available separately based on configuration (EU/NA) AM and CD shall only be shown in the list when configured on.

2.11 LBP-FUN-REQ-130789/A-Server list update

2.11.1 Use Cases

2.11.1.1 LBP-UC-REQ-129267/A-Indicate Server List Update

Actors	System
Pre-conditions	Infotainment Network is active.
Scenario	A server list gets updated with new data.
Description	
Post-conditions	Update of server list is indicated to the client.
List of Exception	Server list is empty: If the server list is empty the list server will indicated the status
Use Cases	to the client.
Interfaces	G-HMI, Vehicle System Interface

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2.11.2 White Box View

2.11.2.1 White Box Scenarios

2.11.2.1.1 LBP-SD-REQ-130402/A-Indicate server list update

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Scenarios

Normal Usage

A server list is getting updated.

Constraints

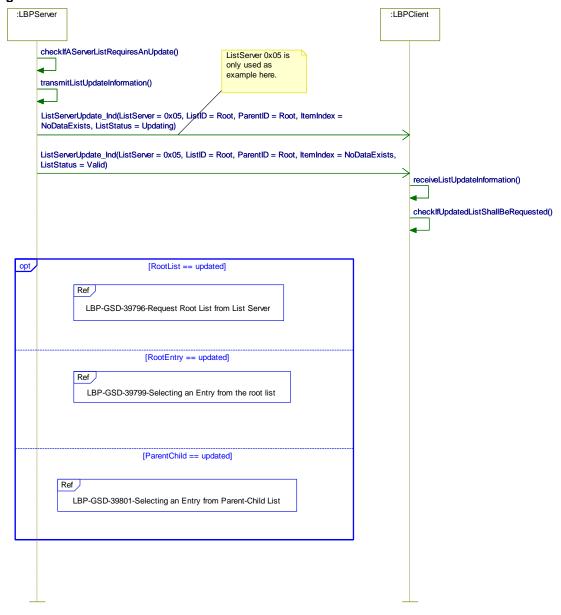
Pre-condition

Network is active.

Post-condition

Server list update information is indicated to the client.

Sequence Diagram





3 Appendix: Reference Documents

Reference	Document Title
#	
1	
2	
3	
4	
5	